TMAC USERS MANUAL

VOLUME II
SPECIAL TEST

COMMUNICATIONS SERVICE MONITOR
DUAL MODE / TRI-BAND CELLULAR SYSTEM ANALYZER

IFR-1900 CSA

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SECTION 7 - INTRODUCTION TO VOLUME II

7-1 ORGANIZATION OF VOLUME II

The IFR-1900 CSA TMAC Users Manual, Volume II is composed of the following sections:

SECTION 7 - INTRODUCTION TO VOLUME II

SECTION 8 - SPECIAL TEST SPECIFIC TMAC QUICK REFERENCE LIST

Briefly lists the IFR-1900 CSA Special Test Specific TMAC commands in alphabetical order.

SECTION 9 - SPECIAL TEST SPECIFIC TMAC COMMANDS

Lists and details the Specific TMAC commands for the IFR-1900 CSA Special Test. Commands are arranged by Operation Mode for convenience.

SECTION 10 - SPECIAL TEST PROGRAM EXAMPLES

Provides functional Special Test program examples.

SECTION 11 - IS-136 COMMAND REFERENCE

Provides tables showing the relationship between IS-136 Layer 3 Messages and associated IFR-1900 CSA Special Test TMAC commands.

SECTION 12 - SPECIAL TEST KEY WORD INDEX

Provides a permuted index of all of the Special Test commands in the IFR-1900 CSA TMAC Users Manual. **Bold** words in the center column are the particular key words being indexed. Each full command is indexed by each word in the command.

7-2 VERSION OF FIRMWARE SUPPORTED

FUNCTION	VERSION
Special Test	1.08

7-3 NOMENCLATURE USED IN VOLUME II

The IFR-1900 CSA Test Set consists of the following:

FUNCTION	NAME
Communication Service Monitor	HOST
Tri-Band/Dual Mode Cellular System Analyzer	SPECIAL TEST or Sp Tst

The Special Test (Tri-Band/Dual Mode Cellular System Analyzer) utilizes the test equipment contained in the Communication Service Monitor portion of the IFR-1900 CSA, thus the Communication Service Monitor acts as HOST to the Special Test.

For remote communications and uploading of variables and TMAC programs via RS-232, two separate Rear Panel RS-232 Connectors are utilized on the IFR-1900 CSA. The HOST utilizes the RS-232 Connector labeled **HOST**, and the Sp Tst employs the connector labeled **OPT**.

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SECTION 8 - SPECIAL TEST SPECIFIC TMAC QUICK REFERENCE LIST

The Special Test ("Sp Tst") Specific TMAC Quick Reference List is a brief listing of the Specific commands used with the Sp Tst. The Quick Reference List is an aid to the experienced TMAC user. If more detailed information is needed, refer to the specified page.

COMMAND	RANGE	PAGE	DESCRIPTION
BER COMMANDS			
BER:			
RDTC:			
BER?		9-448	Returns Bit Error Rate in percent.
BITS?		9-448	Returns number of bits.
CHANnel *n*	0 to 2047	9-447	Specifies RF Channel.
CLEAR		9-448	Clears current results.
DATA:			
45MHZ_OFFset		9-447	Down-converts frequency 45 MHz and retransmits data.
LOOPBACK		9-447	Re-sends data received on FDTC to Base Station in RDTC Slot format.
PSeudo		9-447	Sends pseudo-random data.
USER		9-447	Sends user-defined data specified prior to initiating this command.
ERRORS?		9-448	Returns number of bit errors.
GO		9-447	Starts Base Station Digital Traffic BER test.
RFLVL *n*	-127.0 to -20.0	9-447	Specifies RF Level in dBm.
SETup		9-447	Sets up Sp Tst as when entering Base Station Digital Traffic BER screen, except screen is not displayed.
SLOT *n*	1 to 3	9-447	Specifies Digital Traffic Timeslot.
STATUS?		9-448	Returns synchronous data status. (1 if Base Station cannot sync up to the data; 0 otherwise.)
STOP		9-447	Stops Base Station Digital Traffic BER test.
CELL SITE SIMULATION COMMANDS			
CSS:			
CALL:			
CHANnel *n*	1 to 1023	9-186	Selects Digital Traffic Channel or Voice Channel assignment.
CHANnel?		9-186	Returns Digital Traffic Channel or Voice Channel assignment.
DEViation *n*	0.0 to 4.0	9-186	Specifies SAT Deviation in kHz.
DEViation?		9-186	Returns SAT Deviation in kHz.
DMAC *n*	0 to 7	9-186	Specifies Digital Mobile Attenuation Code.
DMAC?		9-186	Returns Digital Mobile Attenuation Code.
DVCC *n*	0 to 255	9-186	Specifies Digital Verification Color Code.
DVCC?		9-186	Returns Digital Verification Color Code.
EF *n*	1 or 0	9-186	Enables/disables Extended Protocol Forward Channel Indicator.
EF?		9-186	Returns state of Extended Protocol Forward Channel Indicator.
MEM *n*	1 or 0	9-186	Enables/disables Message Encryption Mode.
MEM?		9-186	Returns state of Message Encryption Mode.
MIN *"n"*	"123/456-7890"	9-187	Specifies Mobile Identification Number to call.
MIN?		9-187	Returns MIN.
PM *n*	1 or 0	9-187	Enables/disables Privacy Mode bit.
PM?		9-187	Returns state of Privacy Mode.
PROCess:			
ASSIGNment		9-188	Sends initial channel designation command.
FDTC:			
HANDoff?		9-189	Performs digital-to-digital (**CSS:FDTC:TI?** ≠ 0), or digital-to-analog (**CSS:FDTC:TI?** = 0) handoff. Returns 1 = successful, 0 = not successful.
FVC:			
HANDoff		9-189	Sends analog-to-analog handoff order.
SLOT1		9-189	Sends analog-to-digital handoff order (to Timeslot 1).
SLOT2		9-189	Sends analog-to-digital handoff order (to Timeslot 2).
SLOT3		9-189	Sends analog-to-digital handoff order (to Timeslot 3).
MOBINIT		9-188	Sets up Sp Tst for call initiated by Mobile Station.
PAGE		9-188	Simulates Base Station initiated call.
REGistration		9-188	Prompts Mobile Station to send Registration message.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
CALL:			
SAT *n*	5965 to 6035	9-187	Specifies Supervisory Audio Tone in Hz.
SAT?		9-187	Returns Supervisory Audio Tone.
SLOT *n*	1 to 3	9-187	Specifies Timeslot.
SLOT?		9-187	Returns Timeslot.
TYPE *n*	1 or 0	9-187	Selects channel type (1 [Digital] or 0 [Analog]).
TYPE?		9-187	Returns channel type.
VC *n*	1 = VSELP 2 = ACELP	9-187	Selects Vocoder type.
VC?		9-187	Returns Vocoder type.
VMAC *n*	0 to 7	9-188	Specifies Voice Mobile Attenuation Code.
VMAC?		9-188	Returns Voice Mobile Attenuation Code.
CHANnel *n*	1 to 333 (U4), 1 to 1023 (U8), 1 to 1999 (HY)	9-176	Selects Forward Control Channel for sending Overhead Messages.
CHANnel?		9-176	Returns current value of CHANnel.
CONFigure:			
NONE		9-176	Same as CSS:SETup, except does not select screen.
USER		9-176	Same as CSS:SETup, except selects User screen.
EBCCH:			
ALT_SOC:			
MAP:			
PSID_RSID *n,m*	0 to 15, 0 to #hFFFF	9-321	Specifies selected SOC PSID/RSID Map (*m*).
PSID_RSID? *n*	0 to 15	9-321	Returns selected SOC PSID/RSID Map.
NUMBer *n*	0 to 15	9-321	Specifies Number of Alternate SOCs.
NUMBer?		9-321	Returns Number of Alternate SOCs.
SOC *n,m*	0 to 15, 0 to #hFFF	9-321	Specifies selected SOC (m).
SOC *n*	0 to 15	9-321	Returns selected SOC.
AUTO:			
PROGRAM *n*	1 or 0	9-279	Enables/disables auto program of EBCCH portion of superframe.
BSMC *n*	0 to 255	9-314	Specifies Base Station Manufacture Code.
BSMC?		9-314	Returns Base Station Manufacture Code.
BUILD		9-278	Builds data comprising the E-BCCH.
CHAN *n*	0 to 2047	9-323	Specifies E-BCCH CHAN.
CHAN?		9-323	Returns CHAN.
CHANnel:			
GROUP:			
FIRST *n,m*	0 to 63, 0 to 2047	9-314	Specifies selected First Channel (*m*).
FIRST? *n*	0 to 63	9-314	Returns selected First Channel.
LAST *n,m*	0 to 63, 0 to 2047	9-314	Specifies selected Last Channel (*m*).
LAST? *n*	0 to 63	9-314	Returns selected Last Channel.
NUMber *n*	0 to 63	9-313	Specifies Number of Channel Groups.
NUMber?		9-313	Returns Number of Channel Groups.
CUSTOM:			
CONTrol *n,m*	0 to 252, 0 to 255	9-315	Specifies selected Custom Control (*m*).
CONTrol? *n*	0 to 252	9-315	Returns selected Custom Control.
LENGth *n*	1 to 253	9-314	Specifies Length of Custom Control in octets.
LENGth?		9-314	Returns Length of Custom Control in octets.
DATA? *n,m*	0 to 255, 0 to 6	9-278	Returns E-BCCH data that has been built. Returns selected 16 bit word in slot (*n*).
ECL *n*	0 to 255	9-279	Specifies Extended Broadcast Control Channel Cycle Length.
ECL?		9-279	Returns Extended Broadcast Control Channel Cycle Length.
ENABLE:			
ALT_SOC_LIST *n*	1 or 0	9-327	Enables/disables alternate SOC information.
ALT_SOC_LIST?		9-327	Returns state of alternate SOC information.
CHANnel *n*	1 or 0	9-326	Enables/disables RF Channel Allocation optional info. element.
CHANnel?		9-326	Returns state of RF Channel Allocation optional info. element.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
EBCCH:			
ENABLE:			
HYPERband:			
INFO *n*	1 or 0	9-327	Enables/disables Hyperband Information optional info. element.
INFO?		9-327	Returns state of Hyperband Information optional info. element.
MACA:			
EIGHT:			
CONTrol *n*	1 or 0	9-326	Enables/disables MACA_8_CONTROL optional info. element.
CONTrol?		9-326	Returns state of MACA_8_CONTROL optional info. element.
LIST *n*	1 or 0	9-326	Enables/disables MACA_LIST optional info. element.
LIST:			
OTHER *n*	1 or 0	9-326	Enables/disables Other Hyperband MACA_LIST optional info. element.
OTHER?		9-326	Returns state of Other Hyperband MACA_LIST optional info. element.
LIST?		9-326	Returns state of MACA_LIST optional info. element.
MCC *n*	1 or 0	9-327	Enables/disables Mobile Country Code optional info. element.
MCC?		9-327	Returns state of Mobile Country Code optional info. element.
NEIGHbor:			
ANALOG *n*	1 or 0	9-324	Enables/disables Analog Neighbor Cell List optional info. element.
ANALOG?		9-324	Returns state of Analog Neighbor Cell List optional info. element.
MULti:			
ANALOG *n*	1 or 0	9-325	Enables/disables Analog Neighbor Cell List (Multi Hyperband).
ANALOG?		9-325	Returns state of Analog Neighbor Cell List (Multi Hyperband).
OTHER *n*	1 or 0	9-325	Enables/disables Other Hyperband Neighbor Cell List (Multi Hyperband).
OTHER?		9-325	Returns state of Other Hyperband Neighbor Cell List (Multi Hyperband).
TDMA *n*	1 or 0	9-325	Enables/disables Neighbor Cell List (TDMA) (Multi Hyperband).
TDMA?		9-325	Returns state of Neighbor Cell List (TDMA) (Multi Hyperband).
OTHER:			
INFO *n*	1 or 0	9-325	Enables/disables Other Hyperband TDMA Service Info optional info. element.
INFO?		9-325	Returns state of Other Hyperband TDMA Service Info optional info. element.
TDMA *n*	1 or 0	9-324	Enables/disables TDMA Neighbor Cell List optional info. element.
TDMA:			
INFO *n*	1 or 0	9-324	Enables/disables TDMA Service Info optional info. element.
INFO?		9-324	Returns state of TDMA Service Info optional info. element.
TDMA?		9-324	Returns state of TDMA Neighbor Cell List optional info. element.
NONPublic *n*	1 or 0	9-324	Enables/disables Non-Public Probability Blocks optional info. element.
NONPublic?		9-324	Returns state of Non-Public Probability Blocks optional info. element.
SIGnal *n*	1 or 0	9-326	Enables/disables Signal optional info. element.
SIGnal?		9-326	Returns state of Signal optional info. element.
HYPERband:			
INFO *n*	0 to 3	9-323	Specifies Hyperband Info.
INFO?		9-323	Returns Mobile Country Code.
IRA *n*	1 or 0	9-320	Enables/disables support for International Reference Alphabet.
IRA?		9-320	Returns state of support for International Reference Alphabet.
L3:			
DATA *m,i,pd[,pd[,...,pd]]*	0 to 15, 0 to 255, 0 to 255 or string	F-1	Programs the raw layer 3 data.
DATA? *m,i,l*	0 to 15, 0 to 255, 0 to 64	F-1	Returns programmed data for selected message and octet length.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
EBCCH:			
L3:			
LENGTH *m,l*	0 to 15, 0 to 255	F-1	Sets the length of the layer 3 message.
LENGTH? *m*	0 to 15	F-1	Returns programmed length for selected message.
LENGth?		9-278	Returns length of E-BCCH in slots after executing Build command.
MACA:			
EIGHT:			
CONTrol *n*	1 or 0	9-317	Enables/disables MACA_8_CONTROL of Mobile Assisted Channel Allocation message.
CONTrol?		9-317	Returns state of MACA_8_CONTROL.
LIST:			
CHAN *n,m*	0 to 15, 0 to 2047	9-317	Specifies selected CHAN (m) of MACA_LIST.
CHAN? *n*	0 to 15	9-317	Returns selected CHAN of MACA_LIST.
NUMber *n*	0 to 15	9-317	Specifies Number of MACA Channels of MACA_LIST.
NUMber?		9-317	Returns Number of MACA Channels of MACA_LIST.
OTHER:			
CHAN *n,m*	0 to 15, 0 to 2047	9-318	Specifies selected Channel (*m*) of MACA_LIST (Other Hyperband).
CHAN? *n*	0 to 15	9-318	Returns selected Channel of MACA_LIST (Other Hyperband).
HYPERband *n*	0 to 3	9-317	Specifies Hyperband of MACA_LIST (Other Hyperband).
HYPERband?		9-317	Returns Hyperband of MACA_LIST (Other Hyperband).
NUMber *n*	0 to 15	9-318	Specifies Number of MACA Channels of MACA_LIST (Other Hyperband).
NUMber?		9-318	Returns Number of MACA Channels of MACA_LIST (Other Hyperband).
STATus *n*	0 to 3	9-316	Specifies MACA_STATUS of Mobile Assisted Channel Allocation message.
STATus?		9-316	Returns MACA_STATUS.
TYPE *n*	0 to 15	9-316	Specifies MACA_TYPE of Mobile Assisted Channel Allocation message.
TYPE?		9-316	Returns MACA_TYPE.
MAP:			
ARQ *n*	1 or 0	9-320	Enables/disables FACCH/SACCH ARQ (Automatic Retransmission Request) Map.
ARQ?		9-320	Returns state of FACCH/SACCH ARQ.
CODER *n*	0 to 63	9-318	Specifies Voice Coder Map.
CODER?		9-318	Returns Voice Coder Map.
DPM *n*	0 to 15	9-318	Specifies Data Privacy Mode Map.
DPM?		9-318	Returns Data Privacy Mode Map.
MEA:			
ALGORithms *n,m*	0 to 7, 0 to 15	9-319	Specifies selected Message Encryption Algorithms Map (*m*).
ALGORithms? *n*	0 to 7	9-319	Returns selected Message Encryption Algorithms Map.
DOMAIN *n*	0 to 255	9-319	Specifies Message Encryption Algorithm Domain Map.
DOMAIN?		9-319	Returns Message Encryption Algorithm Domain Map.
MEK *n*	0 to 15	9-319	Specifies Message Encryption Key Map.
MEK?		9-319	Returns Message Encryption Key Map.
MENU *n*	0 to #h3FF	9-319	Specifies Menu Map.
MENU?		9-319	Returns Menu Map.
SMS *n*	0 to 3	9-320	Specifies Short Message Service Map.
SMS?		9-320	Returns Short Message Service Map.
USER *n*	1 or 0	9-320	Enables/disables User Group Map.
USER?		9-320	Returns state of User Group Map.
VPM *n*	0 to 15	9-318	Specifies Voice Privacy Mode Map.
VPM?		9-318	Returns Voice Privacy Mode Map.
MCC *n*	0 to 1023	9-323	Specifies Mobile Country Code.
MCC?		9-323	Returns Mobile Country Code.
MSGtype:			
ALTrci *n*	1 or 0	9-283	Enables/disables Alternate Regulatory Configuration Information message.
ALTrci?		9-283	Returns state of Alternate Regulatory Configuration Information message.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
EBCCH:			
MSGtype:			
BSMC *n*	1 or 0	9-281	Enables/disables Base Station Manufacture Code Message Delivery message.
BSMC?		9-281	Returns state of Base Station Manufacture Code Message Delivery message.
EMERGency *n*	1 or 0	9-281	Enables/disables Emergency Information Broadcast message.
EMERGency?		9-281	Returns state of Emergency Information Broadcast message.
MACA *n*	1 or 0	9-281	Enables/disables Mobile Assisted Channel Allocation message.
MACA?		9-281	Returns state of Mobile Assisted Channel Allocation message.
MACA_MULti *n*	1 or 0	9-281	Enables/disables Mobile Assisted Channel allocation (Multi Hyperband) message.
MACA_MULti?		9-281	Returns state of Mobile Assisted Channel allocation (Multi Hyperband) message.
NEIGHbor:			
CELL *n*	1 or 0	9-280	Enables/disables Neighbor Cell message.
CELL:			
MULti *n*	1 or 0	9-280	Enables/disables Neighbor Cell (Multi Hyperband) message.
MULti?		9-280	Returns state of Neighbor Cell (Multi Hyperband) message.
CELL?		9-280	Returns state of Neighbor Cell message.
SERVice *n*	1 or 0	9-280	Enables/disables Neighbor Service Info message.
SERVice:			
MULti *n*	1 or 0	9-280	Enables/disables Neighbor Service Info (Multi Hyperband) message.
MULti?		9-280	Returns state of Neighbor Service Info (Multi Hyperband) message.
SERVice?		9-280	Returns state of Neighbor Service Info message.
RCI *n*	1 or 0	9-280	Enables/disables Regulatory Configuration message.
RCI?		9-280	Returns state of Regulatory Configuration message.
SERVice *n*	1 or 0	9-282	Enables/disables Service Menu message.
SERVice?		9-282	Returns state of Service Menu message.
SOC *n*	1 or 0	9-282	Enables/disables System Operator Code Message Delivery message.
SOC?		9-282	Returns state of System Operator Code Message Delivery message.
SOC_BSMC *n*	1 or 0	9-282	Enables/disables System Operator Code/Base Station Manufacture Code Message Delivery message.
SOC_BSMC?		9-282	Returns state of System Operator Code/Base Station Manufacture Code Message Delivery message.
TIME *n*	1 or 0	9-282	Enables/disables Time and Date message type.
TIME?		9-282	Returns state of Time and Date message type.
NEIGHbor:			
ANAlog:			
CELL:			
ACCess:			
MS_PWR *n,m*	0 to 31, 0 to 15	9-293	Specifies selected MS_ACC_PWR (Mobile Station/Analog Control Channel Power) (*m*) of Analog Neighbor Cell List.
MS_PWR? *n*	0 to 31	9-293	Returns selected MS_ACC_PWR of Analog Neighbor Cell List.
RSS_MIN *n,m*	0 to 31, 0 to 31	9-293	Specifies selected RSS_ACC_MIN (Received Signal Strength/Analog Control Channel Minimum) (*m*) of Analog Neighbor Cell List.
RSS_MIN? *n*	0 to 31	9-293	Returns selected RSS_ACC_MIN of Analog Neighbor Cell List.
CHAN *n,m*	0 to 31, 0 to 2047	9-290	Specifies selected CHAN (*m*) of Analog Neighbor Cell List.
CHAN? *n*	0 to 31	9-290	Returns selected CHAN of Analog Neighbor Cell List.
DCC *n,m*	0 to 31, 0 to 3	9-290	Specifies selected Digital Color Code (*m*) of Analog Neighbor Cell List.
DCC? *n*	0 to 31	9-290	Returns selected Digital Color Code of Analog Neighbor Cell List.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
EBCCH:			
NEIGHbor:			
ANAlog:			
CELL:			
DELAY *n,m*	0 to 31, 0 to 15	9-291	Specifies selected DELAY (*m*) of Analog Neighbor Cell List.
DELAY? *n*	0 to 31	9-291	Returns selected DELAY of Analog Neighbor Cell List.
HL_FREQ *n,m*	0 to 31, 1 or 0	9-291	Enables/disables selected HL_FREQ of Analog Neighbor Cell List.
HL_FREQ? *n*	0 to 31	9-291	Returns state of selected HL_FREQ of Analog Neighbor Cell List.
OFFset *n,m*	0 to 31, 0 to 127	9-291	Specifies selected RESEL_OFFSET (*m*) of Analog Neighbor Cell List.
OFFset? *n*	0 to 31	9-291	Returns selected RESEL_OFFSET of Analog Neighbor Cell List.
PROTocol *n,m*	0 to 31, 0 to 15	9-290	Specifies selected Protocol Version (*m*) of Analog Neighbor Cell List.
PROTocol? *n*	0 to 31	9-290	Returns selected Protocol Version of Analog Neighbor Cell List.
RETRY *n,m*	0 to 31, 1 or 0	9-292	Enables/disables selected Directed Retry Channel of Analog Neighbor Cell List.
RETRY? *n*	0 to 31	9-292	Returns state of selected Directed Retry Channel of Analog Neighbor Cell List.
SS_SUFF *n,m*	0 to 31, 0 to 31	9-291	Specifies selected SS_SUFF (signal strength sufficient) (*m*) of Analog Neighbor Cell List.
SS_SUFF? *n*	0 to 31	9-291	Returns selected SS_SUFF of Analog Neighbor Cell List.
TYPE:			
CELL *n,m*	0 to 31, 0 to 3	9-292	Specifies selected CELLTYPE (*m*) of Analog Neighbor Cell List.
CELL? *n*	0 to 31	9-292	Returns selected CELLTYPE of Analog Neighbor Cell List.
NETwork *n,m*	0 to 31, 0 to 7	9-292	Specifies selected Network Type (*m*) of Analog Neighbor Cell List.
NETwork? *n*	0 to 31	9-292	Returns selected Network Type of Analog Neighbor Cell List.
MULti:			
ACCess:			
MS_PWR *n,m*	0 to 23, 0 to 15	9-303	Specifies selected MS_ACC_PWR (*m*).
MS_PWR? *n*	0 to 23	9-303	Returns selected MS_ACC_PWR.
RSS_MIN *n,m*	0 to 23, 0 to 31	9-303	Specifies selected RSS_ACC_MIN (*m*).
RSS_MIN? *n*	0 to 23	9-303	Returns selected RSS_ACC_MIN.
CHAN *n,m*	0 to 23, 0 to 2047	9-300	Specifies selected CHAN (*m*).
CHAN *n*	0 to 23	9-300	Returns selected CHAN.
DCC *n,m*	0 to 23, 0 to 3	9-300	Specifies selected Digital Color Code (*m*).
DCC? *n*	0 to 23	9-300	Returns selected Digital Color Code.
DELAY *n,m*	0 to 23, 0 to 15	9-301	Specifies selected DELAY (*m*).
DELAY? *n*	0 to 23	9-301	Returns selected DELAY.
HL_FREQ *n,m*	0 to 23, 1 or 0	9-301	Enables/disables selected HL_FREQ.
HL_FREQ *n*	0 to 23	9-301	Returns state of selected HL_FREQ.
NUMBer *n*	0 to 24	9-300	Specifies Number of Analog Neighbor Cells.
NUMBer?		9-300	Returns Number of Analog Neighbor Cells.
OFFset *n,m*	0 to 23, 0 to 127	9-301	Specifies selected RESEL_OFFSET (*m*).
OFFset? *n*	0 to 23	9-301	Returns selected RESEL_OFFSET.
PROTocol *n,m*	0 to 23, 0 to 15	9-300	Specifies selected Protocol Version (*m*).
PROTocol? *n*	0 to 23	9-300	Returns selected Protocol Version.
RETRY *n,m*	0 to 23, 1 or 0	9-302	Enables/disables selected Directed Retry Channel.
RETRY? *n*	0 to 23	9-302	Returns state of selected Directed Retry Channel.
SS_SUFF *n,m*	0 to 23, 0 to 31	9-301	Specifies selected SS_SUFF (*m*).
SS_SUFF ? *n*	0 to 23	9-301	Returns selected SS_SUFF.
TYPE:			
CELL *n,m*	0 to 23, 0 to 3	9-302	Specifies selected CELLTYPE (*m*).
CELL? *n*	0 to 23	9-302	Returns selected CELLTYPE.
NETwork *n,m*	0 to 23, 0 to 7	9-302	Specifies selected Network Type (*m*).
NETwork? *n*	0 to 23	9-302	Returns selected Network Type.
NUMber *n*	0 to 24	9-290	Specifies Number of Analog Neighbor Cells of Analog Neighbor Cell List.
NUMber?		9-290	Returns Number of Analog Neighbor Cells.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
EBCCH:			
NEIGHbor:			
OTHER:			
HYPERband *n*	0 to 3	9-305	Specifies Hyperband.
HYPERband?		9-305	Returns Hyperband.
INFO:			
COUNt *n*	0 to 31	9-312	Specifies TDMA Neighbor Count of TDMA Service Info (Other Hyperband).
COUNt?		9-312	Returns TDMA Neighbor Count of TDMA Service Info (Other Hyperband).
HYPERband *n*	0 to 3	9-312	Specifies service attribute information for Other Hyperband TDMA neighbors.
HYPERband?		9-312	Returns service attribute information for Other Hyperband TDMA neighbors.
SERVice:			
INDicator *n,m*	0 to 31, 1 or 0	9-312	Enables/disables selected Service Map Indicator of TDMA Service Info (Other Hyperband).
INDicator? *n*	0 to 31	9-312	Returns state of selected Service Map Indicator of TDMA Service Info (Other Hyperband).
MAP *n,m*	0 to 31, 0 to 1023	9-313	Specifies selected Service Map (*m*) of TDMA Service Info (Other Hyperband).
MAP? *n*	0 to 31	9-313	Returns selected Service Map of TDMA Service Info (Other Hyperband).
MULti:			
ACCess:			
MS_PWR *n,m*	0 to 31, 0 to 15	9-309	Specifies selected MS_ACC_PWR (Mobile Station/Analog Control Channel Power) (*m*) of Other Hyperband Neighbor Cell List.
MS_PWR? *n*	0 to 31	9-309	Returns selected MS_ACC_PWR of Other Hyperband Neighbor Cell List.
RSS_MIN *n,m*	0 to 31, 0 to 31	9-309	Specifies selected RSS_ACC_MIN (Received Signal Strength/Analog Control Channel Minimum) (*m*) of Other Hyperband Neighbor Cell List.
RSS_MIN? *n*	0 to 31	9-309	Returns selected RSS_ACC_MIN of Other Hyperband Neighbor Cell List.
CHAN *n,m*	0 to 31, 0 to 2047	9-306	Specifies selected CHAN (m) of Other Hyperband Neighbor Cell List.
CHAN? *n*	0 to 31	9-306	Returns selected CHAN of Other Hyperband Neighbor Cell List.
DELAY *n,m*	0 to 31, 0 to 15	9-307	Specifies selected DELAY (*m*) of Other Hyperband Neighbor Cell List.
DELAY? *n*	0 to 31	9-307	Returns selected DELAY of Other Hyperband Neighbor Cell List.
DVCC *n,m*	0 to 31, 0 to 255	9-306	Specifies selected Digital Verification Color Code (*m*) of Other Hyperband Neighbor Cell List.
DVCC? *n*	0 to 31	9-306	Returns selected Digital Verification Color Code of Neighbor Cell List.
HL_FREQ *n,m*	0 to 31, 0 or 1	9-307	Specifies selected HL_FREQ (*m*) of Other Hyperband Neighbor Cell List.
HL_FREQ? *n*	0 to 31	9-307	Returns state of selected HL_FREQ of Other Hyperband Neighbor Cell List.
OFFset *n,m*	0 to 31, 0 to 127	9-306	Specifies selected RESEL_OFFSET (*m*) of Other Hyperband Neighbor Cell List.
OFFset? *n*	0 to 31	9-306	Returns selected RESEL_OFFSET of Other Hyperband Neighbor Cell List.
PROTocol *n,m*	0 to 31, 0 to 15	9-306	Specifies selected Protocol Version (*m*) of Other Hyperband Neighbor Cell List.
PROTocol? *n*	0 to 31	9-306	Returns selected Protocol Version of Other Hyperband Neighbor Cell List.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
EBCCH:			
NEIGHbor:			
OTHER:			
MULti:			
PSID_RSID:			
INDicator *n,m*	0 to 31, 1 or 0	9-310	Enables/disables selected PSID/RSID Indicator of Other Hyperband Neighbor Cell List.
INDicator? *n*	0 to 31	9-310	Returns state of selected PSID/RSID Indicator of Other Hyperband Neighbor Cell List.
LENGth *n,m*	0 to 31, 0 to 15	9-310	Specifies selected PSID/RSID Support Length (*m*) of Other Hyperband Neighbor Cell List.
LENGth? *n*	0 to 31	9-310	Returns selected PSID/RSID Support Length of Other Hyperband Neighbor Cell List.
SUPport *n,m*	0 to 31, 1 to #hFFFF	9-311	Specifies selected PSID/RSID Support (*m*) of Other Hyperband Neighbor Cell List.
SUPport? *n*	0 to 31	9-311	Returns selected PSID/RSID Support of Other Hyperband Neighbor Cell List.
RETRY *n,m*	0 to 31, 1 or 0	9-308	Enables/disables selected Directed Retry Channel of Other Hyperband Neighbor Cell List.
RETRY? *n*	0 to 31	9-308	Returns state of selected Directed Retry Channel of Other Hyperband Neighbor Cell List.
SS_SUFF *n,m*	0 to 31, 0 to 31	9-307	Specifies selected Signal Strength Sufficient (*m*) of Other Hyperband Neighbor Cell List.
SS_SUFF? *n*	0 to 31	9-307	Returns selected Signal Strength Sufficient of Neighbor Cell List.
SYNC *n,m*	0 to 31, 1 or 0	9-307	Enables/disables selected CELL_SYNC of Other Hyperband Neighbor Cell List.
SYNC? *n*	0 to 31	9-307	Returns state of selected CELL_SYNC of Other Hyperband Neighbor Cell List.
TYPE:			
CELL *n,m*	0 to 31, 0 to 3	9-308	Specifies selected CELLTYPE (*m*) of Other Hyperband Neighbor Cell List.
CELL? *n*	0 to 31	9-308	Returns selected CELLTYPE of Other Hyperband Neighbor Cell List.
NETwork *n,m*	0 to 31, 0 to 7	9-308	Specifies selected Network Type (*m*) of Other Hyperband Neighbor Cell List.
NETwork? *n*	0 to 31	9-308	Returns selected Network Type of Other Hyperband Neighbor Cell List.
NUMber *n*	0 to 24	9-305	Specifies Number of Neighbor Cells of Other Hyperband Neighbor Cell List.
NUMber?		9-305	Returns Number of Neighbor Cells of Other Hyperband Neighbor Cell List.
TDMA:			
CELL:			
ACCess:			
MS_PWR *n,m*	0 to 31, 0 to 15	9-287	Specifies selected MS_ACC_PWR (Mobile Station/Analog Control Channel Power) (*m*) of TDMA Neighbor Cell List.
MS_PWR? *n*	0 to 31	9-287	Returns selected MS_ACC_PWR of TDMA Neighbor Cell List.
RSS_MIN *n,m*	0 to 31, 0 to 31	9-287	Specifies selected RSS_ACC_MIN (Received Signal Strength/Analog Control Channel Minimum) (*m*) of TDMA Neighbor Cell List.
RSS_MIN? *n*	0 to 31	9-287	Returns selected RSS_ACC_MIN of TDMA Neighbor Cell List.
CHAN *n,m*	0 to 31, 0 to 2047	9-284	Specifies selected CHAN (m) of TDMA Neighbor Cell List.
CHAN? *n*	0 to 31	9-284	Returns selected CHAN of TDMA Neighbor Cell List.
DELAY *n,m*	0 to 31, 0 to 15	9-285	Specifies selected DELAY (*m*) of TDMA Neighbor Cell List.
DELAY? *n*	0 to 31	9-285	Returns selected DELAY of TDMA Neighbor Cell List.
DVCC *n,m*	0 to 31, 0 to 255	9-284	Specifies selected Digital Verification Color Code (*m*) of TDMA Neighbor Cell List.
DVCC? *n*	0 to 31	9-284	Returns selected Digital Verification Color Code of Neighbor Cell List.
HL_FREQ *n,m*	0 to 31, 0 or 1	9-285	Specifies selected HL_FREQ (*m*) of TDMA Neighbor Cell List.
HL_FREQ? *n*	0 to 31	9-285	Returns state of selected HL_FREQ of TDMA Neighbor Cell List.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
EBCCH:			
NEIGHbor:			
TDMA:			
CELL:			
OFFset *n,m*	0 to 31, 0 to 127	9-285	Specifies selected RESEL_OFFSET (*m*) of TDMA Neighbor Cell List.
OFFset? *n*	0 to 31	9-285	Returns selected RESEL_OFFSET of TDMA Neighbor Cell List.
PROTocol *n,m*	0 to 31, 0 to 15	9-284	Specifies selected Protocol Version (*m*) of TDMA Neighbor Cell List.
PROTocol? *n*	0 to 31	9-284	Returns selected Protocol Version of TDMA Neighbor Cell List.
PSID_RSID:			
INDicator *n,m*	0 to 31, 1 or 0	9-288	Enables/disables selected PSID/RSID Indicator of TDMA Neighbor Cell List.
INDicator? *n*	0 to 31	9-288	Returns state of selected PSID/RSID Indicator of TDMA Neighbor Cell List.
LENGth *n,m*	0 to 31, 0 to 15	9-288	Specifies selected PSID/RSID Support Length (*m*) of TDMA Neighbor Cell List.
LENGth? *n*	0 to 31	9-288	Returns selected PSID/RSID Support Length of TDMA Neighbor Cell List.
SUPport *n,m*	0 to 31, 1 to #hFFFF	9-289	Specifies selected PSID/RSID Support (*m*) of TDMA Neighbor Cell List.
SUPport? *n*	0 to 31	9-289	Returns selected PSID/RSID Support of TDMA Neighbor Cell List.
RETRY *n,m*	0 to 31, 1 or 0	9-287	Enables/disables selected Directed Retry Channel of TDMA Neighbor Cell List.
RETRY? *n*	0 to 31	9-287	Returns state of selected Directed Retry Channel of TDMA Neighbor Cell List.
SS_SUFF *n,m*	0 to 31, 0 to 31	9-285	Specifies selected Signal Strength Sufficient (*m*) of TDMA Neighbor Cell List.
SS_SUFF? *n*	0 to 31	9-285	Returns selected Signal Strength Sufficient of Neighbor Cell List.
SYNC *n,m*	0 to 31, 1 or 0	9-286	Enables/disables selected CELL_SYNC of TDMA Neighbor Cell List.
SYNC? *n*	0 to 31	9-286	Returns state of selected CELL_SYNC of TDMA Neighbor Cell List.
TYPE:			
CELL *n,m*	0 to 31, 0 to 3	9-286	Specifies selected CELLTYPE (*m*) of TDMA Neighbor Cell List.
CELL? *n*	0 to 31	9-286	Returns selected CELLTYPE of TDMA Neighbor Cell List.
NETwork *n,m*	0 to 31, 0 to 7	9-286	Specifies selected Network Type (*m*) of TDMA Neighbor Cell List.
NETwork? *n*	0 to 31	9-286	Returns selected Network Type of TDMA Neighbor Cell List.
INFO:			
COUNt *n*	0 to 31	9-304	Specifies TDMA Neighbor Count of TDMA Service Info.
COUNt?		9-304	Returns TDMA Neighbor Count of TDMA Service Info.
SERVice:			
INDicator *n,m*	0 to 31	9-304	Enables/disables selected Service Map Indicator of TDMA Service Info.
INDicator? *n*	0 to 31	9-304	Returns state of selected Service Map Indicator of TDMA Service Info.
MAP *n,m*	0 to 31, 0 to 1023	9-304	Specifies selected Service Map (*m*) of TDMA Service Info.
MAP? *n*	0 to 31	9-304	Returns selected Service Map of TDMA Service Info.
MULti:			
ACCess:			
MS_PWR *n,m*	0 to 23, 0 to 15	9-297	Specifies selected MS_ACC_PWR (*m*).
MS_PWR? *n*	0 to 23	9-297	Returns selected MS_ACC_PWR.
RSS_MIN *n,m*	0 to 23, 0 to 31	9-297	Specifies selected RSS_ACC_MIN (*m*).
RSS_MIN? *n*	0 to 23	9-297	Returns selected RSS_ACC_MIN.
CHAN *n,m*	0 to 23, 0 to 2047	9-294	Specifies selected CHAN (*m*).
CHAN? *n*	0 to 23	9-294	Returns selected CHAN.
DELAY *n,m*	0 to 23, 0 to 15	9-295	Specifies selected DELAY (*m*).
DELAY? *n*	0 to 23	9-295	Returns selected DELAY.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
EBCCH:			
NEIGHbor:			
TDMA:			
MULti:			
DVCC *n,m*	0 to 23, 0 to 255	9-294	Specifies selected Digital Verification Color Code (*m*).
DVCC? *n*	0 to 23	9-294	Returns selected Digital Verification Color Code.
HL_FREQ *n,m*	0 to 23, 1 or 0	9-295	Enables/disables selected HL_FREQ.
HL_FREQ? *n*	0 to 23	9-295	Returns state of selected HL_FREQ.
NUMBer *n*	0 to 24	9-294	Specifies Number of TDMA Neighbor Cells.
NUMBer?		9-294	Returns Number of TDMA Neighbor Cells.
OFFset *n,m*	0 to 23, 0 to 127	9-295	Specifies selected RESEL_OFFSET (*m*).
OFFset? *n*	0 to 23	9-295	Returns selected RESEL_OFFSET.
PROTocol *n,m*	0 to 23, 0 to 15	9-294	Specifies selected Protocol Version (*m*).
PROTocol? *n*	0 to 23	9-294	Returns selected Protocol Version.
PSID_RSID:			
INDicator *n,m*	0 to 23, 1 or 0	9-298	Enables/disables selected PSID/RSID Indicator.
INDicator? *n*	0 to 23	9-298	Returns state of selected PSID/RSID Indicator.
LENGth *n,m*	0 to 23, 0 to 15	9-298	Specifies selected PSID/RSID Support Length (*m*).
LENGth? *n*	0 to 23	9-298	Returns selected PSID/RSID Support Length.
SUPport *n,m*	0 to 23, 1 to #hFFFF	9-299	Specifies selected PSID/RSID Support (*m*).
SUPport? *n*	0 to 23	9-299	Returns selected PSID/RSID Support.
RETRY *n,m*	0 to 23, 1 or 0	9-297	Enables/disables selected Directed Retry Channel.
RETRY? *n*	0 to 23	9-297	Returns state of selected Directed Retry Channel.
SS_SUFF *n,m*	0 to 23, 0 to 31	9-295	Specifies selected SS_SUFF (*m*).
SS_SUFF? *n*	0 to 23	9-295	Returns selected SS_SUFF.
SYNC *n,m*	0 to 23, 1 or 0	9-296	Enables/disables selected CELL_SYNC (*m*).
SYNC? *n*	0 to 23	9-296	Returns state of selected CELL_SYNC.
TYPE:			
CELL *n,m*	0 to 23, 0 to 3	9-296	Specifies selected CELLTYPE (*m*).
CELL? *n*	0 to 23	9-296	Returns selected CELLTYPE.
NETwork *n,m*	0 to 23, 0 to 7	9-296	Specifies selected Network Type (*m*).
NETwork? *n*	0 to 23	9-296	Returns selected Network Type.
NUMber *n*	0 to 24	9-284	Specifies Number of TDMA Neighbor Cells.
NUMber?		9-284	Returns Number of TDMA Neighbor Cells.
NONPublic:			
BLOCK *n*	0 to #hFFFF	9-283	Specifies Non-Public Block Map.
BLOCK?		9-283	Returns Non-Public Block Map.
LENGth *n*	0 to 15	9-283	Specifies Non-Public Map Length.
LENGth?		9-283	Returns Non-Public Map Length.
OATS *n*	1 or 0	9-320	Enables/disables OATS Support.
OATS?		9-320	Returns state of OATS Support.
OPTional:			
DATA *index,word,data*	0 to 7, 0 to 15, 0 to #hFFFF	9-335	Specifies 16 bit *data* selected by *word* used in user-defined optional info. element of selected message type.
DATA? *index,word*	0 to 7, 0 to 15	9-335	Returns 16 bit user-defined data selected by *word* of user-defined optional info. element of selected message type.
LENGth *index,n*	0 to 7, 0 to 255	9-335	Specifies length in bits (*n*) of user-defined optional info. element of selected message type.
LENGth? *index*	0 to 7	9-335	Returns length in bits of user-defined optional info. element of selected message type.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
EBCCH:			
OPTional:			
MSGtype *index,type*	0 to 7, 0 to 14 0 = None, 1 = Mobile Assisted Channel Allocation, 2 = Neighbor Cell, 3 = Regulatory Configuration, 4 = Alternate RCI Info, 5 = BSMC Message Delivery, 6 = Emergency Information Broadcast, 7 = Neighbor Service Info, 8 = Service Menu, 9 = SOC/BSMC Identification, 10 = SOC Message Delivery, 11 = Time and Date 12 = MACA (Multi-Hyperband) 13 = Neighbor Cell (Multi-Hyperband) 14 = Neighbor Service Info (Multi-Hyperband)	9-334	Appends an optional field to a selected message type (up to 8 at a time).
MSGtype? *index*	0 to 7	9-335	Returns selected Message Type.
PD *n*	0 to 3	9-279	Specifies Protocol Discriminator.
PD?		9-279	Returns Protocol Discriminator.
PROGram *dest,source,length*	0 to 31, 0 to 255, 0 to 8	9-279	Programs slots in superframe with data constructed by Build command. *dest* is location in superframe; *source* is start location in EBCCH buffer; *length* is number of frames of data moved from EBCCH buffer to superframe.
RCI *n*	0 to 3	9-313	Specifies Regulatory Configuration.
RCI?		9-313	Returns Regulatory Configuration.
SERV_SS *n*	0 to 15	9-283	Specifies Service Signal Strength.
SERV_SS?		9-283	Returns Service Signal Strength.
SID *n*	0 to 32767	9-323	Specifies System ID.
SID?		9-323	Returns System ID.
SIGnal:			
CADence *n*	0 to 63	9-316	Specifies Signal Cadence.
CADence?		9-316	Returns Signal Cadence.
DURation *n*	0 to 15	9-316	Specifies Signal Duration.
DURation?		9-316	Returns Signal Duration.
PITCH *n*	0 to 3	9-316	Specifies Signal Pitch.
PITCH?		9-316	Returns Signal Pitch.
SOC *n*	0 to 4095	9-321	Specifies System Operator Code.
SOC?		9-321	Returns SOC.
TEXT:			
CHARacter *n,m*	0 to 255, 0 to 255	9-315	Specifies selected Short Message Character (*m*).
CHARacter? *n*	0 to 255	9-315	Returns selected Short Message Character.
ENCoding *n*	0 to 31	9-315	Specifies Encoding Identifier.
ENCoding?		9-315	Returns Encoding Identifier.
LENGth *n*	0 to 255	9-315	Specifies Length Indicator.
LENGth?		9-315	Returns Length Indicator.
REServed *n*	0 to 7	9-315	Specifies Reserved.
REServed?		9-315	Returns Reserved.
TIME *n*	0 to #hFFFFFFFF	9-321	Specifies Time from Jan 1, 1980.
TIME?		9-321	Returns TIME.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
EBCCH:			
USER:			
DATA *index,word,data*	0 to 7, 0 to 15, 0 to #hFFFF	9-333	Specifies 16 bit *data* selected by *word* used in selected user-defined message type.
DATA? *index,word*	0 to 7, 0 to 15	9-333	Returns 16 bit user-defined data selected by *word* of selected user-defined message type.
LENGth *index,n*	0 to 7, 0 to 255	9-332	Specifies length in bits of selected user-defined message type.
LENGth? *index*	0 to 7	9-332	Returns length of selected user-defined message type.
MSGtype *index,n*	0 to 7, 0 to 63	9-332	Specifies selected user-defined message types.
MSGtype? *index*	0 to 7	9-332	Returns value of selected Message Type.
PD *index,n*	0 to 7, 0 to 3	9-332	Specifies Protocol Discriminator of selected user-defined message.
PD? *index*	0 to 7	9-332	Returns Protocol Discriminator of selected user-defined message.
ZONE:			
DIRection *n*	1 or 0	9-322	Enables/disables Time Zone Offset Direction.
DIRection?		9-322	Returns state of Time Zone Offset Direction.
DST *n*	1 or 0	9-322	Enables/disables Time Zone Offset Daylight Savings Indicator.
DST?		9-322	Returns state of Time Zone Offset Daylight Savings Indicator.
MINutes *n*	0 to 1023	9-322	Specifies Minutes.
MINutes?		9-322	Returns Minutes.
ENABLE:			
DCCH *n*	1 or 0	9-245	Enables/disables DCCH information word.
REGID *n*	1 or 0	9-245	Enables/disables Registration ID word.
FBCCH:			
ACCess:			
BURSTsize *n*	1 or 0	9-259	Enables/disables Access Burst Size.
BURSTsize?		9-259	Returns state of Access Burst Size.
MS_PWR *n*	0 to 15	9-259	Specifies MS_ACC_PWR (Mobile Station Analog Control Channel Power).
MS_PWR?		9-259	Returns MS_ACC_PWR.
RSS_MIN *n*	0 to 31	9-259	Specifies RSS_ACC_MIN (Received Signal Strength Analog Control Channel Minimum).
RSS_MIN?		9-259	Returns RSS_ACC_MIN.
ADDitional:			
DCCH:			
CHANnel *n,m*	0 to 7, 0 to 2047	9-263	Specifies selected DCCH Channel (*m*).
CHANnel? *n*	0 to 7	9-263	Returns selected DCCH Channel.
SLOT *n,m*	0 to 7, 0 to 3	9-263	Specifies selected Slot Configuration (*m*).
SLOT? *n*	0 to 7	9-263	Returns selected Slot Configuration.
NUMber *n*	0 to 7	9-263	Specifies Number of additional DCCH Channels.
NUMber?		9-263	Returns Number of additional DCCH Channels.
ALPHA:			
SID *"n"*	ASCII String	9-267	Specifies Alphanumeric System ID.
SID?		9-267	Returns Alphanumeric System ID.
ALT_SOC:			
MAP:			
PSID_RSID *n,m*	0 to 15, 0 to #hFFFF	9-273	Species SOC PSID/RSID Map (*m*) for selected SOC value.
PSID_RSID? *n*	0 to 15	9-273	Returns SOC PSID/RSID Map for selected SOC value.
NUMBer *n*	0 to 15	9-273	Specifies Number of Alternate SOCs.
NUMBer?		9-273	Returns Number of Alternate SOCs.
SOC *n,m*	0 to 15, 0 to #hFFF	9-273	Specifies selected SOC (*m*).
SOC? *n*	0 to 15	9-273	Returns selected SOC.
AUTH *n*	1 or 0	9-258	Enables/disables AUTH.
AUTH?		9-258	Returns state of AUTH.
BARred *n*	0 to 31	9-261	Specifies Cell Barred.
BARred?		9-261	Returns Cell Barred.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FBCCH:			
BSMC *n*	0 to 255	9-267	Specifies assigned manufacturers code (Base Station Manufacture Code).
BSMC?		9-267	Returns BSMC.
BUILD		9-251	Builds data that makes up F-BCCH.
CAPability *n*	1 or 0	9-265	Enables/disables Capability Request.
CAPability?		9-265	Returns state of Capability Request.
CBN:			
HIGH *n*	0 to #hFFFF	9-257	Specifies CBN_High.
HIGH?		9-257	Returns CBN_High.
CONfiguration *n*	0 to 3	9-256	Specifies Slot Configuration.
CONfiguration?		9-256	Returns CONfiguration.
COUNTRY:			
CODE *n*	0 to 1023	9-267	Specifies Mobile Country Code of current DCCH.
CODE?		9-267	Returns Mobile Country Code of current DCCH.
CUSTOM:			
CONTrol *n,m*	0 to 63, 0 to 255	9-268	Specifies selected Custom Control (*m*).
CONTrol? *n*	0 to 63	9-268	Returns selected Custom Control.
LENGth *n*	0 to 64	9-268	Specifies Length of Custom Control.
LENGth?		9-268	Returns Length of Custom Control.
DATA? *n,m*	0 to 10, 0 to 6	9-251	Returns 16 bit word indexed by *m* from slot (*n*) of F-BCCH data built.
DELay *n*	0 to 15	9-262	Specifies Delay.
DELay?		9-262	Returns Delay.
DEREG *n*	1 or 0	9-264	Enables/disables De-Registration.
DEREG?		9-264	Returns state of De-Registration.
DIC *n*	1 or 0	9-261	Enables/disables Delay Interval Compensation Mode.
DIC?		9-261	Returns Delay Interval Compensation Mode.
DVCC *n*	0 to 255	9-256	Specifies Digital Verification Color Code.
DVCC?		9-256	Returns DVCC.
EC *n*	1 or 0	9-252	Enables/disables Extended Broadcast Control Channel Change Flag.
EC?		9-252	Returns state of EC.
ENABLE:			
ADDitional:			
DCCH *n*	1 or 0	9-274	Enables/disables Additional DCCH information optional info. element.
DCCH?		9-274	Returns state of Additional DCCH information optional info. element.
ALPHA:			
SID *n*	1 or 0	9-274	Enables/disables Alphanumeric System ID optional info. element.
SID?		9-274	Returns state of Alphanumeric System ID optional info. element.
ALT_SOC_LIST *n*	1 or 0	9-274	Enables/disables alternate SOC information.
ALT_SOC_LIST?		9-274	Returns state of alternate SOC information.
CBN:			
HIGH *n*	1 or 0	9-274	Enables/disables CBN_High optional info. element.
HIGH?		9-274	Returns state of CBN_High optional info. element.
COUNTRY:			
CODE *n*	1 or 0	9-274	Enables/disables Mobile Country Code optional info. element.
CODE?		9-274	Returns state of Mobile Country Code optional info. element.
EXTENDED *n*	1 or 0	9-275	Enables/disables Extended Hyperframe Counter optional info. element.
EXTENDED?		9-275	Returns state of Extended Hyperframe Counter optional info. element.
MACA:			
EIGHT:			
CONTrol *n*	1 or 0	9-275	Enables/disables MACA_8_CONTROL optional info. element.
CONTrol?		9-275	Returns state of MACA_8_CONTROL optional info. element.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FBCCH:			
ENABLE:			
MACA:			
LIST *n*	1 or 0	9-275	Enables/disables MACA_LIST optional info. element.
LIST:			
OTHER *n*	1 or 0	9-275	Enables/disables MACA_LIST (Other Hyperband) optional info. element.
OTHER?		9-275	Returns state of MACA_LIST (Other Hyperband) optional info. element.
LIST?		9-275	Returns state of MACA_LIST optional info. element.
MAP:			
AUTH *n*	1 or 0	9-276	Enables/disables AUTH Map.
AUTH?		9-276	Returns state of AUTH Map.
REG_INFO *n*	1 or 0	9-276	Enables/disables Reg-Info Map.
REG_INFO?		9-276	Returns state of Reg-Info Map.
NONPublic:			
PROBability *n*	1 or 0	9-276	Enables/disables Non-Public Probability Blocks optional info. element.
PROBability?		9-276	Returns state of Non-Public Probability Blocks optional info. element.
REGistration *n*	1 or 0	9-276	Enables/disables Non-Public Registration Control optional info. element.
REGistration?		9-276	Returns state of Non-Public Registration Control optional info. element.
PSID_RSID *n*	1 or 0	9-277	Enables/disables Private/Residential System ID optional info. element.
PSID_RSID?		9-277	Returns state of Private/Residential System ID optional info. element.
REGID *n*	1 or 0	9-277	Enables/disables REGID Parameters optional info. element.
REGID?		9-277	Returns state of REGID Parameters optional info. element.
REGPER *n*	1 or 0	9-277	Enables/disables REG Period optional info. element.
REGPER?		9-277	Returns state of REG Period optional info. element.
RNUM *n*	1 or 0	9-277	Enables/disables RNUM optional info. element.
RNUM?		9-277	Returns state of RNUM optional info. element.
EXTended *n*	0 to 7	9-256	Specifies Extended Hyperframe Counter.
EXTended?		9-256	Returns EXTended.
FC *n*	1 or 0	9-252	Enables/disables Fast Broadcast Control Channel Change Flag.
FC?		9-252	Returns state of FC.
FOREG *n*	1 or 0	9-264	Enables/disables Forced Registration.
FOREG?		9-264	Returns state of Forced Registration.
HYPERframe *n*	0 to 15	9-255	Specifies Hyperframe Counter.
HYPERframe?		9-255	Returns HYPERframe.
INITial *n*	1 or 0	9-262	Enables/disables Initial Selection Control.
INITial?		9-262	Returns state of Initial Selection Control.
IRA *n*	1 or 0	9-272	Enables/disables International Reference Alphabet.
IRA?		9-272	Returns state of International Reference Alphabet.
L3:			
DATA *m,i,pd[,pd[,...,pd]]*	0 to 15, 0 to 255, 0 to 255 or string	F-1	Programs the raw layer 3 data.
DATA? *m,i,l*	0 to 15, 0 to 255, 0 to 64	F-1	Returns programmed data for selected message and octet length.
LENGTH *m,l*	0 to 15, 0 to 255	F-1	Sets the length of the layer 3 message.
LENGTH? *m*	0 to 15	F-1	Returns programmed length for selected message.
LAREG *n*	1 or 0	9-264	Enables/disables Local Area Registration.
LAREG?		9-264	Returns state of Local Area Registration.
LENGth?		9-251	Returns Length of F-BCCH in slots after Build command has been executed.
MACA:			
EIGHT:			
CONTrol *n*	1 or 0	9-268	Enables/disables MACA_8_CONTROL.
CONTrol?		9-268	Returns MACA_8_CONTROL.
LIST:			
CHAN *n,m*	0 to 14, 0 to 2047	9-269	Specifies selected Channel (*m*).
CHAN? *n*	0 to 14	9-269	Returns selected CHAN.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FBCCH:			
MACA:			
LIST:			
NUMber *n*	0 to 14	9-269	Specifies Number of MACA Channels.
NUMber?		9-269	Returns Number of MACA Channels.
OTHER:			
CHAN *n,m*	0 to 14, 0 to 2047	9-269	Specifies selected Channel (*m*).
CHAN? *n*	0 to 14	9-269	Returns selected Channel.
HYPERband *n*	0 to 3	9-269	Specifies Other Hyperband for MACA_LIST.
HYPERband?		9-269	Returns Other Hyperband for MACA_LIST.
NUMber *n*	0 to 14	9-269	Specifies Number of MACA Channels.
NUMber?		9-269	Returns Number of MACA Channels.
STATus *n*	0 to 3	9-268	Specifies MACA_STATUS.
STATus?		9-268	Returns MACA_STATUS.
TYPE *n*	0 to 15	9-268	Specifies MACA_TYPE.
TYPE?		9-268	Returns MACA_TYPE.
MAP:			
ARQ *n*	1 or 0	9-272	Enables/disables FACCH/SACCH Automatic Retransmission Request Map.
ARQ?		9-272	Returns state of FACCH/SACCH Automatic Retransmission Request Map.
AUTH *n*	00 to #h3F	9-271	Specifies AUTH Map.
AUTH?		9-271	Returns AUTH Map.
CODER *n*	0 to 63	9-270	Specifies Voice Coder Map.
CODER?		9-270	Returns Voice Coder Map.
DPM *n*	0 to 15	9-270	Specifies Data Privacy Mode Map.
DPM?		9-270	Returns Data Privacy Mode Map.
MEA:			
ALGORithms *n,m*	0 to 7, 0 to 15	9-271	Specifies selected Message Encryption Algorithms (*m*).
ALGORithms? *n*	0 to 7	9-271	Returns selected Message Encryption Algorithms.
DOMAIN *n*	0 to 255	9-271	Specifies Message Encryption Algorithms Domain Map.
DOMAIN?		9-271	Returns Message Encryption Algorithms Domain Map.
MEK *n*	0 to 15	9-271	Specifies Message Encryption Key Map.
MEK?		9-271	Returns Message Encryption Key Map.
MENU *n*	0 to #h3FF	9-272	Specifies Menu Map.
MENU?		9-272	Returns Menu Map.
REG_INFO *n*	0 to 15	9-271	Specifies Reg-Info Map.
REG_INFO?		9-271	Returns Reg-Info Map.
SMS *n*	0 to 3	9-272	Specifies Short Message Service Map.
SMS?		9-272	Returns Short Message Service Map.
USER *n*	1 or 0	9-272	Enables/disables User Group Map.
USER?		9-272	Returns state of User Group Map.
VPM *n*	0 to 15	9-270	Specifies Voice Privacy Mode Map.
VPM?		9-270	Returns Voice Privacy Mode Map.
MAX:			
BUSY *n*	1 or 0	9-260	Enables/disables Max Busy/Reserved.
BUSY?		9-260	Returns state of Max Busy/Reserved.
REPetitions *n*	0 to 3	9-260	Specifies Max Repetitions.
REPetitions?		9-260	Returns Max Repetitions.
RETries *n*	0 to 7	9-260	Specifies Max Retries.
RETries?		9-260	Returns Max Retries.
STOP *n*	1 or 0	9-260	Enables/disables Max Stop Counter.
STOP?		9-260	Returns Max Stop Counter.
MSGtype:			
ACCess *n*	1 or 0	9-252	Enables/disables) Access Parameters message.
ACCess?		9-252	Returns state of Access Parameters message enable.
BSMC *n*	1 or 0	9-253	Enables/disables Base Station Manufacture Code message.
BSMC?		9-253	Returns state of Base Station Manufacture Code message enable.
MACA *n*	1 or 0	9-253	Enables/disables Mobile Assisted Channel Allocation message.
MACA?		9-253	Returns state of Mobile Assisted Channel Allocation message enable.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FBCCH:			
MSGtype:			
MACA_MULti *n*	1 or 0	9-254	Enables/disables Mobile Assisted Channel Allocation (Multi Hyperband) message.
MACA_MULti?		9-254	Returns state of Mobile Assisted Channel Allocation (Multi Hyperband) message enable.
OLC *n*	1 or 0	9-253	Enables/disables Overload Class message.
OLC?		9-253	Returns state of Overload Class message enable.
REGistration *n*	1 or 0	9-253	Enables/disables Registration parameters message.
REGistration?		9-253	Returns state of Registration parameters message enable.
SELection *n*	1 or 0	9-252	Enables/disables Control Channel Selection Parameters message.
SELection?		9-252	Returns state of Control Channel Selection Parameters message enable.
SERVice *n*	1 or 0	9-254	Enables/disables Service Menu message.
SERVice?		9-254	Returns state of Service Menu message enable.
SOC *n*	1 or 0	9-254	Enables/disables Message Delivery message.
SOC?		9-254	Returns state of Message Delivery message enable.
SOC_BSMC *n*	1 or 0	9-254	Enables/disables System Operator Code/Base Station Manufacture Code message.
SOC_BSMC?		9-254	Returns state of System Operator Code/Base Station Manufacture Code message enable.
STRUCTure *n*	1 or 0	9-252	Enables/disables DCCH Structure message.
STRUCTure		9-252	Returns state of DCCH Structure message enable.
SYSID *n*	1 or 0	9-253	Enables/disables System ID message.
SYSID?		9-253	Returns state of System ID message enable.
NETwork *n*	0 to 7	9-266	Specifies Network Types supported on control channel.
NETwork?		9-266	Returns Network Types supported on control channel.
NONPublic:			
PROBability:			
BLOCK *n*	0 to #hFFFF	9-257	Specifies Non-Public Block Map.
BLOCk?		9-257	Returns Non-Public Block Map.
LENGth *n*	0 to 15	9-257	Specifies Non-Public Map Length.
LENGth?		9-257	Returns Non-Public Map Length.
REGistration:			
CONTrol *n*	0 to 3	9-258	Specifies Non-Public Registration Control.
CONTrol?		9-258	Returns Non-Public Registration Control.
NUMber:			
EBCCH *n*	0 to 7	9-255	Specifies Number of EBCCH.
EBCCH?		9-255	Returns EBCCH.
FBCCH *n*	0 to 7	9-255	Specifies Number of FBCCH.
FBCCH?		9-255	Returns FBCCH.
NON_PCH *n*	0 to 3	9-255	Specifies Number of Non-Paging Channel Subchannel Slots.
NON_PCH?		9-255	Returns NON_PCH.
REServed *n*	0 to 7	9-255	Specifies Number of Reserved Slots.
REServed?		9-255	Returns REServed.
SBCCH *n*	0 to 15	9-255	Specifies Number of SBCCH.
SBCCH?		9-255	Returns SBCCH.
OATS *n*	1 or 0	9-273	Enables/disables OATS Support.
OATS?		9-273	Returns OATS Support.
OLC *n*	0 to #hFFFF	9-270	Specifies Overload Class.
OLC?		9-270	Returns Overload Class.
OPTional:			
DATA *index,word,data*	0 to 7, 0 to 15, 0 to #hFFFF	9-331	Specifies 16 bit *data* selected by *word* in user-defined optional info. element of selected message type.
DATA? *index,word*	0 to 7, 0 to 15	9-331	Returns user-defined data selected by *word* of user-defined optional info. element of selected message type.
LENGth *index,n*	0 to 7, 0 to 255	9-331	Specifies length in bits (*n*) of user-defined optional info. element of selected message type.
LENGth? *index*	0 to 7	9-331	Returns length in bits of user-defined optional info. element of selected message type.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FBCCH:			
OPTional:			
MSGtype *index,type*	0 to 7, 0 to 12 0 = None, 1 = DCCH Structure, 2 = Access Parameters, 3 = Control Channel Selection Parameters, 4 = Registration Parameters, 5 = System Identity, 6 = Overload Class, 7 = Mobile Assisted Channel Allocation, 8 = BSMC Message Delivery, 9 = Service Menu, 10 = SOC/BSMC Identification, 11 = SOC Message Delivery 12 = MACA (Multi-Hyperband)	9-330	Appends an optional field to a selected message type (up to 8 at a time).
MSGtype? *index*	0 to 7	9-330	Returns value of selected message type.
PCH *n*	0 to 7	9-256	Specifies PCH_DISPLACEMENT (Paging Channel Displacement).
PCH?		9-256	Returns the value of PCH_DISPLACEMENT.
PD *n*	0 to 3	9-252	Specifies Protocol Discriminator.
PD?		9-252	Returns Protocol Discriminator.
PDREG *n*	1 or 0	9-264	Enables/disables Power Down Registration.
PDREG?		9-264	Returns state of Power Down Registration.
PFC *n*	0 to 7	9-256	Specifies MAX_SUPPORTED_PFC.
PFC?		9-256	Returns MAX_SUPPORTED_PFC.
PFM *n*	1 or 0	9-257	Enables/disables PFM_DIRECTION.
PFM?		9-257	Returns state of PFM_DIRECTION.
PROGram		9-251	Programs F-BCCH slots in superframe with data constructed by Build command.
PROTocol *n*	0 to 15	9-266	Specifies Protocol Version supported.
PROTocol?		9-266	Returns Protocol Version supported.
PSID_RSID:			
NUMber *n*	0 to 15	9-266	Specifies Number of PSID/RSID.
NUMber?		9-266	Returns Number of PSID/RSID.
SOC *n*	0 to 4095	9-266	Specifies System Operator Code.
SOC?		9-266	Returns System Operator Code.
TYPE *n,m*	0 to 15 ,1 or 0	9-267	Enables/disables selected PSID/RSID Type Indicator.
TYPE? *n*	0 to 15	9-267	Returns state of selected PSID/RSID Type Indicator.
VALUE *n,m*	0 to 15, 0 to #hFFFF	9-267	Specifies selected PSID/RSID Value (*m*).
VALUE? *n*	0 to 15	9-267	Returns selected PSID/RSID Value.
PUREG *n*	1 or 0	9-264	Enables/disables Power Up Registration.
PUREG?		9-264	Returns state of Power Up Registration.
RAND *n*	0 to #hFFFFFFFF	9-258	Specifies RAND.
RAND?		9-258	Returns RAND.
RDATA:			
LENGth *n*	0 to 7	9-261	Specifies R-DATA Message Length.
LENGth?		9-261	Returns R-DATA Message Length.
REGH *n*	1 or 0	9-263	Enables/disables Registration for Home Mobile Stations.
REGH?		9-263	Returns state of Registration for Home Mobile Stations.
REGID:			
ID *n*	0 to #hFFFFF	9-265	Specifies System clock.
ID?		9-265	Returns ID.
PER *n*	0 to 15	9-265	Specifies how often ID is incremented.
PER?		9-265	Returns PER.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FBCCH:			
REGPER *n*	0 to 511	9-265	Specifies Registration Period.
REGPER?		9-265	Returns Registration Period.
REGR *n*	1 or 0	9-263	Enables/disables Registration for Roaming Mobile Stations.
REGR?		9-263	Returns state of Roaming Mobile Stations.
RNUM *n*	0 to 1023	9-265	Specifies Present RNUM.
RNUM?		9-265	Returns RNUM.
S *n*	1 or 0	9-258	Enables/disables Serial number.
S?		9-258	Returns state of S.
SCAN:			
INTerval *n*	0 to 15	9-262	Specifies SCANINTERVAL.
INTerval?		9-262	Returns SCANINTERVAL.
OPTION *n*	1 or 0	9-262	Enables/disables Scanning Option Indicator.
OPTION?		9-262	Returns state of Scanning Option Indicator.
SID *n*	0 to 32767	9-266	Specifies System ID.
SID?		9-266	Returns System ID.
SOC *n*	0 to 4095	9-273	Specifies System Operator Code.
SOC?		9-273	Returns System Operator Code.
SS_SUFF *n*	0 to 31	9-261	Specifies Signal Strength Sufficient.
SS_SUFF?		9-261	Returns Signal Strength Sufficient.
SUBaddressing *n*	1 or 0	9-261	Enables/disables Subaddressing Support.
SUBaddressing?		9-261	Returns state of Subaddressing Support.
SUPERframe *n*	1 or 0	9-256	Enables/disables Primary Superframe Indicator.
SUPERframe?		9-256	Returns state of SUPERframe.
SYREG *n*	1 or 0	9-264	Enables/disables system identification registration.
SYREG?		9-264	Returns state of system identification registration.
USER:			
DATA *index,word,data*	0 to 7, 0 to 15, 0 to #hFFFF	9-329	Specifies *data* selected by *word* used in selected user-defined message.
DATA? *index,word*	0 to 7, 0 to 15	9-329	Returns data in selected set of 16 bits (*word*) of user-defined message referenced by *index*.
LENGth *index,n*	0 to 7, 0 to 255	9-328	Specifies length (*n*) of selected user-defined message.
LENGth? *index*	0 to 7	9-328	Returns length of selected user-defined message.
MSGtype *index,n*	0 to 7, 0 to 63	9-328	Specifies selected user-defined message types (*n*).
MSGtype? *index*	0 to 7	9-328	Returns selected user-defined message types.
PD *index,n*	0 to 7, 0 to 3	9-328	Specifies Protocol Discriminator (*n*) of selected user-defined message.
PD? *index*	0 to 7	9-328	Returns Protocol Discriminator of selected user-defined message.
FDCCH:			
SUPERframe:			
ACCess:			
PE *n*	0 to 127	9-249	Programs Partial Echo used during a Random or Reserved access.
PE?		9-249	Returns Partial Echo used during a Random or Reserved access.
SCF *n,m*	0 to 79, 0 to 11	9-250	Pre-programs Shared Channel Feedback response (*m*) in selected frame of a RACH.
SCF? *n*	0 to 31	9-250	Returns selected SCF indexed by *n*.
ACCess:			
TYPE:			
NONE		9-249	Prevents SCF from changing when an access occurs.
PROGram		9-249	Configures SCF as pre-programmed by **CSS:FDCCH:SUPERframe:ACCess:SCF**.
RANDom		9-248	Programs Sp Tst to allow mobile station to make Random access.
REServed		9-248	Programs Sp Tst to allow mobile station to make Reserved access.
TYPE?		9-249	Returns TYPE.
BRI *n,m*	0 to 31, 0 to 63	9-245	Specifies Busy/Idle/Reserved (*m*) within selected Superframe slot being programmed.
BRI? *n*	0 to 31	9-245	Returns Busy/Idle/Reserved within selected Superframe slot being programmed.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FDCCH:			
SUPERframe:			
DATA *n,x,word*	0 to 31, 0 to 6, 0 to #hFFFF	9-246	Specifies data *word* selected by *x* transmitted per selected Superframe slot.
DATA? *n,x*	0 to 31, 0 to 6	9-247	Returns data word selected by *x* per selected Superframe slot.
DVCC *n*	0 to 255	9-247	Specifies Digital Verification Color Code.
DVCC?	0 to 31	9-247	Returns DVCC.
INCrement *n*	1 or 0	9-250	Enables/disables auto-incrementing of hyperframe counter and toggling of superframe indicator.
NUMber?		9-250	Returns current number of selected slot in superframe being transmitted.
PE *n,m*	0 to 31, 0 to 127	9-246	Specifies Partial Echo (*m*) within selected Superframe slot being programmed.
PE? *n*	0 to 31	9-246	Returns Partial Echo within selected Superframe slot being programmed.
RN *n,m*	0 to 31, 0 to 31	9-246	Specifies Received/Not Received (*m*) within selected Superframe slot being programmed.
RN? *n*	0 to 31	9-246	Returns Received/Not Received within selected Superframe slot being programmed.
SFP *n,m*	0 to 31, 0 to 255	9-245	Specifies Super Frame Phase (*m*) within selected Superframe slot being programmed.
SFP? *n*	0 to 31	9-245	Returns Super Frame Phase within selected Superframe slot being programmed.
STARt		9-247	Starts superframe generating task.
STOP		9-247	Stops superframe generating task.
TYPE *n,m*	0 to 31; 0 = F-BCCH, 1 = E-BCCH, 2 = S-BCCH, 3 = SPACH, 4 = RESERVED	9-247	Specifies Type (*m*) of data in selected Superframe slot.
TYPE? *n*	0 to 31	9-247	Returns Type of data in selected Superframe slot.
ZERO		9-250	Removes all data from current superframe.
FDTC:			
AMT:			
CONNect		9-202	Acknowledges Connect message from Mobile Station.
RELease		9-202	Acknowledges Release message from Mobile Station.
SERVice:			
REQuest		9-202	Acknowledges a Service Request message from Mobile Station.
STATus		9-202	Acknowledges Status message from Mobile Station.
AMT?		9-202	Returns Acknowledge Message Type.
ATS *n*	0 to 15	9-202	Specifies Assigned Time Slot.
ATS?		9-202	Returns ATS.
AUTHBS *n*	0 to 262143	9-203	Specifies AUTHBS.
AUTHBS?		9-203	Returns AUTHBS.
BSMC *n*	0 to 255	9-203	Sets Base Station Manufacturer Code.
BSMC?		9-203	Returns BSMC.
CALLING:			
NAMe "string"	"Happy Anniversary"	9-204	Specifies string of Calling Party Name Characters.
NAMe:			
PI *n*	0 to 3	9-204	Specifies Calling Party Name Presentation Indicator.
PI?		9-204	Returns Calling Party Name Presentation Indicator.
REServed *n*	0 to 15	9-204	Specifies Calling Party Name Reserved field.
REServed?		9-204	Returns Calling Party Name Reserved field.
SI *n*	0 to 3	9-205	Specifies Calling Party Name Screening Indicator.
SI?		9-205	Returns Calling Party Name Screening Indicator.
NAMe?		9-204	Returns string of Calling Party Name Characters.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FDTC:			
CALLING:			
NUM *"n"*	"123/456-7890"	9-203	Specifies Calling Party Number.
NUM?		9-203	Returns Calling Party Number.
PI *n*	0 to 3	9-204	Specifies Calling Party Number Presentation Indicator.
PI?		9-204	Returns Calling Party Number Presentation Indicator.
PLANid *n*	0 to 15	9-203	Specifies Calling Party Numbering Plan ID.
PLANid?		9-203	Returns Calling Party Numbering Plan ID.
REServed *n*	0 to 31	9-203	Specifies Calling Party Number Reserved field.
REServed?		9-203	Returns Calling Party Number Reserved field.
SI *n*	0 to 3	9-204	Specifies Calling Party Screening Indicator.
SI?		9-204	Returns Calling Party Screening Indicator.
TYpe *n*	0 to 7	9-203	Specifies Calling Party Type.
TYpe?		9-203	Returns Calling Party Type.
CDL?		9-205	Returns Coded Digital Control Channel Locator.
CHANGE:			
BSMC *n*	1 or 0	9-205	Enables/disables Base Station Manufacturer Code Change Indicator.
BSMC?		9-205	Returns state of BSMC.
SOC *n*	1 or 0	9-205	Enables/disables System Operator Code Change Indicator.
SOC?		9-205	Returns state of SOC.
CONTROL *n*	0 to 31	9-205	Specifies Local Control in Local Control message.
CONTROL?		9-205	Returns Local Control.
CUSTOM:			
CONTrol *n,m*	0 to 255, 0 to 255	9-206	Specifies selected Custom Control (*m*).
CONTrol? *n*	0 to 255	9-206	Returns selected Custom Control.
LENGth *n*	1 to 255	9-206	Specifies Length of Custom Control in octets.
LENGth?		9-206	Returns LENGth.
DCCHinfo:			
CHANnel *n,m*	0 to 2, 0 to 2047	9-206	Specifies selected Digital Control Channel Information (*m*).
CHANnel? *n*	0 to 2	9-206	Returns selected CHANnel.
DVCC *n,m*	0 to 2, 0 to 255	9-206	Specifies selected Digital Verification Color Code (*m*).
DVCC? *n*	0 to 2	9-206	Returns selected DVCC.
HYPERband *n,m*	0 to 2, 0 to 3	9-206	Specifies selected Hyperband (*m*).
HYPERband? *n*	0 to 2	9-206	Returns selected HYPERband.
NUMBer *n*	0 to 2	9-207	Specifies Length of DCCH Info.
NUMBer?		9-207	Returns NUMBer.
DELTA:			
TIME *n*	0 to 2047	9-207	Specifies Delta Time.
TIME?		9-207	Returns TIME.
DIC *n*	1 or 0	9-207	Enables/disables Delay Interval Compensation.
DIC?		9-207	Returns state of Delay Interval Compensation.
DL *n*	0 to 127	9-207	Specifies DCCH Locator used on FDTC.
DL?		9-207	Returns DCCH Locator used on FDTC.
DMAC *n*	0 to 10	9-207	Specifies Digital Mobile Attenuation Code.
DMAC?		9-207	Returns Digital Mobile Attenuation Code.
DPM *n*	1 or 0	9-208	Enables/disables Data Privacy Mode.
DPM?		9-208	Returns state of DPM.
DTX *n*	1 or 0	9-208	Enables/disables Discontinuous Transmission.
DTX?		9-208	Returns state of Discontinuous Transmission.
DTXControl *n*	1 or 0	9-208	Enables/disables DTX Control.
DTXControl?		9-208	Returns state of DTXControl.
DVCC *n*	0 to 255	9-208	Specifies Digital Verification Color Code.
DVCC?		9-208	Returns Digital Verification Color Code.
ENABLE:			
CALLING:			
NAMe *n*	1 or 0	9-209	Enables/disables Calling Party Name.
NAMe?		9-209	Returns Calling Party Name enable setting.
NUM *n*	1 or 0	9-209	Enables/disables Calling Party Number.
NUM?		9-209	Returns Calling Party Number enable setting.
CAUSe *n*	1 or 0	9-209	Enables/disables Cause.
CAUSe?		9-209	Returns Cause enable setting.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FDTC:			
ENABLE:			
DCCHinfo *n*	1 or 0	9-209	Enables/disables Digital Control Channel Information optional info. element.
DCCHinfo?		9-209	Returns state of DCCHinfo optional info. element.
DELTA:			
TIME *n*	1 or 0	9-209	Enables/disables Delta Time optional info. element.
TIME?		9-209	Returns state of Delta Time optional info. element.
DIC *n*	1 or 0	9-210	Enables/disables Delay Interval Compensation optional info. element.
DIC?		9-210	Returns state of Delay Interval Compensation optional info. element.
DMAC *n*	1 or 0	9-210	Enables/disables Digital Mobile Attenuation Code optional info. element.
DMAC?		9-210	Returns state of Digital Mobile Attenuation Code optional info. element.
DPM *n*	1 or 0	9-210	Enables/disables Data Privacy Mode optional info. element.
DPM?		9-210	Returns state of Data Privacy Mode optional info. element.
DTX *n*	1 or 0	9-210	Enables/disables Discontinuous Transmission optional info. element.
DTX?		9-210	Returns state of Discontinuous Transmission optional info. element.
HYPERband:			
TARGet *n*	1 or 0	9-210	Enables/disables Target Hyperband optional info. element.
TARGet?		9-210	Returns state of Target Hyperband optional info. element.
LDP:			
BSACK *n*	1 or 0	9-210	Enables/disables Last Decoded Parameter optional info. element in Base Station Acknowledgment message.
BSACK?		9-210	Returns state of Last Decoded Parameter optional info. element for BSACK message.
FLASHACK *n*	1 or 0	9-211	Enables/disables Last Decoded Parameter optional info. element in Flash Acknowledgment message.
FLASHACK?		9-211	Returns state of Last Decoded Parameter optional info. element for FLASHACK message.
SBDA *n*	1 or 0	9-211	Enables/disables Last Decoded Parameter optional info. element in Send Burst DTMF Acknowledge message.
SBDA?		9-211	Returns state of Last Decoded Parameter optional info. element for SBDA message.
MEMC *n*	1 or 0	9-211	Enables/disables Message Encryption Mode C optional info. element.
MEMC?		9-211	Returns state of MEMC optional info. element.
MESSage:			
CENTer:			
ADDRess *n*	1 or 0	9-211	Enables/disables Message Center Address optional info. element.
ADDRess?		9-211	Returns state of Message Center Address optional info. element.
MSGWTG *n*	1 or 0	9-211	Enables/disables Other Messages Waiting Info optional info. element.
MSGWTG?		9-211	Returns state of MSGWTG optional info. element.
NOMW *n*	1 or 0	9-212	Enables/disables Number of Messages Waiting optional info. element.
NOMW?		9-212	Returns Number of Messages Waiting optional info. element.
RFCHAN *n,x*	0 to 11, 1 or 0	9-212	Enables/disables selected RF Channel index optional info. element.
RFCHAN? *n*	0 to 11	9-212	Returns state of selected RF Channel index optional info. element.
SIGNAL *n*	1 or 0	9-212	Enables/disables Signal optional info. element.
SIGNAL?		9-212	Returns state of Signal optional info. element.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FDTC:			
ENABLE:			
STATUS:			
CMODE *n*	1 or 0	9-212	Enables/disables Call Mode optional info. element in Status Request message.
CMODE?		9-212	Returns state of Call Mode optional info. element.
ESN *n*	1 or 0	9-212	Enables/disables Electronic Serial Number optional info. element in Status Request message.
ESN?		9-212	Returns state of Electronic Serial Number optional info. element.
MEM *n*	1 or 0	9-212	Enables/disables Message Encryption Mode optional info. element.
MEM?		9-212	Returns state of Message Encryption Mode optional info. element.
TASK *n*	1 or 0	9-213	Enables/disables Task Status optional info. element.
TASK?		9-213	Returns state of Task Status optional info. element.
TI *n*	1 or 0	9-213	Enables/disables Terminal Information optional info. element.
TI?		9-213	Returns state of Terminal Information optional info. element.
VPM *n*	1 or 0	9-213	Enables/disables Voice Privacy Mode optional info. element.
VPM?		9-213	Returns state of Voice Privacy Mode optional info. element.
TA *n*	1 or 0	9-213	Enables/disables Time Alignment optional info. element.
TA?		9-213	Returns state of Time Alignment optional info. element.
USER:			
DEST:			
ADDRess *n*	1 or 0	9-213	Enables/disables User Destination Address optional info. element.
ADDRess?		9-213	Returns state of User Destination Address optional info. element.
SUBaddress *n*	1 or 0	9-213	Enables/disables User Destination Subaddress optional info. element.
SUBaddress?		9-213	Returns state of User Destination Subaddress optional info. element.
ORIG:			
ADDRess *n*	1 or 0	9-214	Enables/disables User Originating Address optional info. element.
ADDRess?		9-214	Returns state of User Originating Address optional info. element.
PRESentation *n*	1 or 0	9-214	Enables/disables User Originating Address Presentation Indicator optional info. element.
PRESentation?		9-214	Returns state of User Originating Address Presentation Indicator optional info. element.
SUBaddress *n*	1 or 0	9-214	Enables/disables User Originating Subaddress optional info. element.
SUBaddress?		9-214	Returns state of User Originating Subaddress optional info. element.
VMI *n*	1 or 0	9-214	Enables/disables Voice Mode optional info. element.
VMI?		9-214	Returns state of Voice Mode optional info. element.
FACCH: or SACCH:			
ALERT		9-199	Sends Alert with Information message.
AUDIT		9-199	Sends Audit message.
BSACK		9-199	Sends Base Station Acknowledgment message.
BSCHALCON		9-199	Sends Base Station Challenge Confirmation message.
BSMC		9-199	Sends BSMC Message Delivery message.
CAPability:			
REQuest		9-200	Sends Capability Update Request message.
RESPonse		9-200	Sends Capability Update Response message.
DEDicated:			
HANDoff		9-200	Sends Dedicated DTC Handoff message.
FLASH		9-200	Sends Flash with Information message.
FLASHACK		9-200	Sends Flash Acknowledgment message.
HANDoff		9-200	Sends Handoff message.
HYPERband:			
MEASure		9-200	Sends Hyperband Measurement message.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FDTC:			
FACCH: or SACCH:			
LC		9-200	Sends Local Control message.
MAINTenance		9-200	Sends Maintenance message.
MEASure		9-200	Sends Measurement message.
PLC		9-200	Sends Physical Layer Control message.
PU		9-200	Sends Parameter Update message.
RAW $x_1,x_2,x_3,x_4,x_5,x_6,\ldots,x_n$	x = 0 to 255	9-201	Generates user-defined message.
RDATA:			
ACCept		9-201	Sends R-DATA ACCEPT message.
MESSage		9-201	Sends R-DATA message.
REJect		9-201	Sends R-DATA REJECT message.
REAUTHentication		9-201	Sends Re-Authentication message.
RELease		9-201	Sends Release message.
SBDA		9-201	Sends Send Burst DTMF Acknowledge message.
SCDA		9-201	Sends Send Continuous DTMF Acknowledge message.
SERVice:			
RESPonse		9-201	Sends Service Response message.
SMEASure		9-201	Sends Stop Measurement message.
SOC		9-202	Sends SOC Message Delivery message.
SR		9-202	Sends Status Request message.
SSDUP		9-202	Sends Shared Secret Data Update message.
UCHAL		9-202	Sends Unique Challenge message.
HANDoff:			
CHANnel *n*	0 to 2047	9-214	Specifies Analog Voice or Digital Traffic Channel for Handoff.
CHANnel?		9-214	Returns Channel for Handoff.
HYPERband:			
BAND *n,m*	0 to 23, 0 to 3	9-215	Specifies the selected Hyperband (*m*).
BAND? *n*	0 to 23	9-215	Returns selected Hyperband.
CHANnel *n,m*	0 to 23, 0 to 2047	9-215	Specifies selected Hyperband channels (*m*).
CHANnel? *n*	0 to 23	9-215	Returns selected Hyperband channels.
NUMBer *n*	0 to 24	9-215	Specifies Number of Hyperband channels.
NUMBer?		9-215	Returns Number of Hyperband channels.
TARGet *n*	0 to 3	9-215	Specifies Target Hyperband.
TARGet?		9-215	Returns Target Hyperband.
LDP *n*	0 to 15	9-215	Specifies Last Decoded Parameter.
LDP?		9-215	Returns Last Decoded Parameter.
MAP:			
ARQ *n*	1 or 0	9-217	Enables/disables FACCH/SACCH ARQ Map.
ARQ?		9-217	Returns state of FACCH/SACCH ARQ Map.
CODER *n*	0 to 63	9-216	Specifies Voice Coder Map.
CODER?		9-216	Returns Voice Coder Map.
MEA:			
ALGORithms *n,m*	0 to 7, 0 to 15	9-216	Specifies selected Message Encryption Algorithm Map (*m*) indexed by n.
ALGORithms? *n*		9-216	Returns Message Encryption Algorithm Map.
DOMAIN *n*	0 to 255	9-216	Specifies Message Encryption Algorithm Map Domain.
DOMAIN?		9-216	Returns Message Encryption Algorithm Map Domain.
MEK *n*	0 to 15	9-216	Specifies Message Encryption Key Map.
MEK?		9-216	Returns Message Encryption Key Map.
SMS *n*	0 to 3	9-217	Specifies SMS Map.
SMS?		9-217	Returns SMS Map.
VPM *n*	0 to 15	9-216	Specifies Voice Privacy Mode Map.
VPM?		9-216	Returns Voice Privacy Mode Map.
MEM *n*	1 or 0	9-217	Enables/disables Message Encryption Mode.
MEM?		9-217	Returns state of Message Encryption Mode.
MEMC:			
MEA *n*	0 to 3	9-217	Specifies Message Encryption Mode C Algorithm.
MEA?		9-217	Returns Message Encryption Mode C Algorithm.
MED *n*	0 to 3	9-217	Specifies Message Encryption Mode C Domain.
MED?		9-217	Returns Message Encryption Mode C Domain.
MEK *n*	0 to 3	9-217	Specifies Message Encryption Mode C Key.
MEK?		9-217	Returns Message Encryption Mode C Key.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FDTC:			
MESSage:			
CENTer:			
ADDRess *"n"*		9-218	Specifies Address.
ADDRess?		9-218	Returns ADDRess.
ENCoding *n*	1 or 0	9-218	Enables/disables Address Encoding.
ENCoding?		9-218	Returns state of Address Encoding.
PLANid *n*	0 to 15	9-218	Specifies Numbering Plan ID.
PLANid?		9-218	Returns Numbering Plan ID.
TYPE *n*	0 to 7	9-218	Specifies Type of Number.
TYPE?		9-218	Returns Type of Number.
MSGWTG:			
MESSage:			
NUMBer *n,m*	0 to 15, 0 to 63	9-218	Specifies selected Number of Messages Waiting (*m*).
NUMBer? *n*	0 to 15	9-218	Returns selected Number of Messages Waiting.
TYPE *n,m*	0 to 15, 0 to 15	9-219	Specifies selected Messages Waiting Type (*m*).
TYPE? *n*	0 to 15	9-219	Returns selected Messages Waiting Type.
NUMBer *n*	1 to 16	9-219	Specifies Length of Message Waiting info.
NUMBer?		9-219	Returns Length of Message Waiting info.
NOMW *n*	0 to 63	9-219	Specifies Number of Messages Waiting.
NOMW?		9-219	Returns Number of Messages Waiting.
PV *n*	0 to 15	9-219	Specifies Protocol Version.
PV?		9-219	Returns Protocol Version.
PVI *n*	1 or 0	9-219	Enables/disables Protocol Version Indicator.
PVI?		9-219	Returns state of Protocol Version Indicator.
RANDRA *n*	0 to #hFFFFFFFF	9-220	Specifies RANDRA.
RANDRA?		9-220	Returns RANDRA.
RANDSSD *"n"*	Example: "4A59BE232F9C26"	9-220	Specifies 56 bit Random Number sent in Shared Secret Data Update message.
RANDSSD?		9-220	Returns Shared Secret Data 56 bit Random Number.
RANDU *n*	0 to 16777215	9-220	Sets 24 bit Random Number sent in Unique Challenge message.
RANDU?		9-220	Returns Unique Challenge 24 bit Random Number.
RATe *n*	0 = Full, 1 = Half	9-220	Sets Channel Rate.
RATe?		9-220	Returns Channel Rate.
RCAUSe *n*	0 to 255	9-221	Specifies R-Cause.
RCAUSe:			
REServed *n*	1 or 0	9-221	Specifies R-Cause Reserved field.
REServed?		9-221	Returns R-Cause Reserved field.
RCAUSe?		9-221	Returns RCAUSE.
RDATA_UNIT:			
HLP:			
DATA *n,m*	0 to 253, 0 to 253	9-221	Specifies selected Higher Layer Protocol Data Unit (*m*).
DATA? *n*	0 to 253	9-221	Returns selected Higher Layer Protocol Data Unit.
IDentifier *n*	0 to 255	9-221	Specifies Higher Layer Protocol Identifier.
IDentifier?		9-221	Returns Higher Layer Protocol Identifier.
LENGth *n*	1 to 255	9-221	Specifies Length of R-Data Unit info content.
LENGth?		9-221	Returns Length of R-Data Unit info content.
RFCHAN *n,m*	0 to 23, 0 to 2047	9-222	Specifies selected RF Channel Number (*m*).
RFCHAN? *n*	0 to 23	9-222	Returns selected RF Channel Number.
RN *n*	0 to 15	9-222	Specifies Request Number.
RN?		9-222	Returns Request Number.
RTRANSaction *n*	0 to 255	9-222	Specifies R-Transaction Identifier.
RTRANSaction?		9-222	Returns R-Transaction Identifier.
SBI *n*	0 to 3	9-222	Specifies Shortened Burst Indicator.
SBI?		9-222	Returns Shortened Burst Indicator.
SERVice:			
CAUSe *n,m*	0 to 9, 0 to 255	9-223	Specifies selected Cause (*m*).
CAUSe:			
NUMBer *n*	0 to 10	9-223	Specifies number of instances of Cause.
NUMBer?		9-223	Returns number of instances of Cause.
CAUSe? *n*	0 to 9	9-223	Returns selected Cause.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FDTC:			
SERVice:			
CODE *n*	0 to 15	9-223	Specifies Service Code.
CODE?		9-223	Returns Service Code.
SET:			
TA *n*	0 to 60	9-199	Specifies time alignment from SOR in half symbols.
SIGNAL:			
CADENCE *n*	0 to 63	9-224	Sets on-off pattern of Alert tone.
CADENCE?		9-224	Returns Alert tone on-off pattern.
PITCH *n*	0 to 3	9-224	Sets Pitch of Alert tone.
PITCH?		9-224	Returns Alert tone Pitch.
SLOT *n*	1 to 3	9-224	Specifies Timeslot.
SLOT?		9-224	Returns Timeslot.
SOC *n*	1 or 0	9-224	Enables/disables System Operator Code.
SOC?		9-224	Returns state of System Operator Code.
STARt		9-199	Starts Sp Tst transmitting on Forward Digital Traffic Channel.
STOP		9-199	Stops Forward Digital Traffic Channel.
SUPPort:			
IRA *n*	1 or 0	9-224	Enables/disables IRA Support.
IRA?		9-224	Returns state of IRA Support.
TA *n*	0 to 31	9-225	Specifies Time Alignment.
TA?		9-225	Returns Time Alignment.
TALK:			
DELAY *n*	0 to 250	9-231	Specifies Delay added between receiving and transmitting 20 ms intervals.
START		9-231	Starts Talkback operation.
STOP		9-231	Stops Talkback operation.
TASK *n*	0 to 7	9-225	Specifies Task Status.
TASK?		9-225	Returns Task Status.
TI *n*	0 to 6	9-225	Specifies Timeslot Indicator (0 is analog).
TI?		9-225	Returns Timeslot Indicator.
USER:			
DEST:			
ADDRess *"n"*		9-226	Specifies Address.
ADDRess?		9-226	Returns ADDRess.
ENCoding *n*	1 or 0	9-226	Enables/disables Address Encoding.
ENCoding?		9-226	Returns state of Address Encoding.
PLANid *n*	0 to 15	9-226	Specifies Numbering Plan ID.
PLANid?		9-226	Returns Numbering Plan ID.
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-227	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-227	Returns selected Subaddress.
LENGth *n*	0 to 21	9-227	Specifies Length of subaddress info content.
LENGth?		9-227	Returns Length of subaddress info content.
ODD_EVEN *n*	1 or 0	9-227	Enables/disables Odd/Even Indicator.
ODD_EVEN?		9-227	Returns state of Odd/Even Indicator.
REServed *n*	0 to 15	9-227	Specifies number of Subaddress Reserved fields.
REServed?		9-227	Returns number of Subaddress Reserved fields.
TYPE *n*	0 to 7	9-227	Specifies Type of Subaddress.
TYPE?		9-227	Returns Type of Subaddress.
TYPE *n*	0 to 7	9-226	Specifies Type of Number.
TYPE?		9-226	Returns Type of Number.
ORIG:			
ADDRess *"n"*		9-228	Specifies Address.
ADDRess?		9-228	Returns ADDRess.
ENCoding *n*	1 or 0	9-228	Enables/disables Address Encoding.
ENCoding?		9-228	Returns state of Address Encoding.
PLANid *n*	0 to 15	9-228	Specifies Numbering Plan ID.
PLANid?		9-228	Returns Numbering Plan ID.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FDTC:			
USER:			
ORIG:			
PRESentation:			
PI *n*	0 to 3	9-228	Specifies Presentation Indicator.
PI?		9-228	Returns Presentation Indicator.
REServed *n*	0 to 15	9-229	Specifies number of Reserved fields.
REServed?		9-229	Returns number of Reserved fields.
SI *n*	0 to 3	9-229	Specifies Screening Indicator.
SI?		9-229	Returns Screening Indicator.
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-230	Specifies selected User Originating Subaddress (*m*).
ADDRess? *n*	0 to 19	9-230	Returns selected User Originating Subaddress.
LENGth *n*	0 to 21	9-229	Specifies Length of User Originating subaddress info content.
LENGth?		9-229	Returns Length of User Originating subaddress info content.
ODD_EVEN *n*	1 or 0	9-229	Enables/disables Odd/Even Indicator.
ODD_EVEN?		9-229	Returns state of Odd/Even Indicator.
REServed *n*	0 to 15	9-230	Specifies number of subaddress Reserved fields.
REServed?		9-230	Returns number of subaddress Reserved fields.
TYPE *n*	0 to 7	9-229	Specifies Type of subaddress.
TYPE?		9-229	Returns Type of subaddress.
TYPE *n*	0 to 7	9-228	Specifies Type of Number.
TYPE?		9-228	Returns Type of Number.
VMI:			
PM_V *n*	0 to 7	9-230	Specifies Voice Privacy Mode.
PM_V?		9-230	Returns Voice Privacy Mode.
VC *n*	0 to 7	9-230	Specifies Voice Code.
VC?		9-230	Returns Voice Code.
VPM *n*	1 or 0	9-230	Enables/disables Voice Privacy Mode.
VPM?		9-230	Returns state of Voice Privacy Mode.
FOCC:			
ASYNC *n*	1 or 0	9-180	Sets ASYNC bit in the DCCH information word.
ASYNC?		9-180	Returns state of ASYNC in DCCH information word.
AUTH *n*	1 or 0	9-180	Enables/disables Authentication.
AUTH?		9-180	Returns state of Authentication.
B_I *n*	1 or 0	9-180	Sets Enables/disables Busy-Idle bit.
CMAC *n*	0 to 7	9-180	Specifies Control Mobile Attenuation Code.
CMAC?		9-180	Returns Control Mobile Attenuation Code.
CMAX *n*	1 to 32	9-180	Specifies Maximum Number of Channels scanned.
CMAX?		9-180	Returns Maximum Number of Channels scanned.
DCC *n*	0 to 3	9-180	Specifies Digital Color Code.
DCC?		9-180	Returns Digital Color Code.
DCCHan *n*	1 to 1023	9-181	Specifies Channel Number in DCCH information word.
DCCHan?		9-181	Returns Channel Number in DCCH information word.
DPRIVacy *n*	1 or 0	9-181	Enables/disables Data Privacy in DCCH information word.
DPRIVacy?		9-181	Returns state of DPRIVacy in DCCH information word.
E *n*	1 or 0	9-181	Enables/disables Extended Address.
E?		9-181	Returns state of Extended Address.
EP *n*	1 or 0	9-181	Enables/disables Extended Protocol.
EP?		9-181	Returns state of Extended Protocol.
G3FAX *n*	1 or 0	9-181	Enables/disables G3 Fax in DCCH information word.
G3FAX?		9-181	Returns state of G3FAX setting in DCCH information word.
HYPERband *n*	00 or 01	9-181	Specifies Hyperband in DCCH information word (00 = 800 MHz; 01 = 1900 MHz).
HYPERband?		9-181	Returns Hyperband in DCCH information word.
N *n*	1 to 32	9-182	Specifies Number of Paging Channels scanned.
N?		9-182	Returns Number of Paging Channels scanned.
OVER:			
BUILD		9-182	Constructs Primary and Secondary cycles.
LENGth *n,m*	0 to 4, 11 to 21	9-183	Specifies length (*m*), in word slots, of selected cycle.
NUMber *n*	0 to 4	9-182	Specifies number of secondary cycles programmed.
RATio *n,m*	1 to 4, 1 to 65535	9-183	Specifies number (*m*) of primary cycles to transmit for selected secondary cycle.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FOCC:			
OVER:			
SELect *n*	0 = Primary, 1 = 1st Secondary, 2 = 2nd Secondary, 3 = 3rd Secondary, 4 = 4th Secondary	9-183	Selects cycle to be built.
PCI *n*	1 or 0	9-183	Enables/disables Protocol Capability Indicator.
PCI?		9-183	Returns state of Protocol Capability Indicator.
RAW *n,x*	0 to 21, 0 to #hFFFFFFFF	9-183	Programs RAW word (*x*) into selected word slot (*n*) in selected cycle.
RCF *n*	1 or 0	9-183	Enables/disables Read Control Filler.
RCF?		9-183	Returns state of Read Control Filler.
REGH *n*	1 or 0	9-184	Enables/disables Home Registration.
REGH?		9-184	Returns state of Home Registration.
REGID *n*	0 to #hFFFFF	9-184	Specifies REGID in Registration ID message.
REGID?		9-184	Returns REGIDin Registration ID message.
REGR *n*	1 or 0	9-184	Enables/disables Roaming Registration.
REGR?		9-184	Returns state of Roaming Registration.
S *n*	1 or 0	9-184	Enables/disables Serial Number.
S?		9-184	Returns state of Serial Number.
SDCC1 *n*	0 to 3	9-184	Specifies Supplementary Digital Color Code 1.
SDCC1?		9-184	Returns Supplementary Digital Color Code 1.
SDCC2 *n*	0 to 3	9-184	Specifies Supplementary Digital Color Code 2.
SDCC2?		9-184	Returns Supplementary Digital Color Code 2.
SID *n*	0 to 32767	9-185	Specifies System ID Number (14 most significant digits).
SID?		9-185	Returns System ID Number.
WFOM *n*		9-185	Enables/disables Wait For Overhead Message.
WFOM?		9-185	Returns state of Wait For Overhead Message.
FVC:			
AUTHBS *n*	0 to 262143	9-194	Specifies AUTHBS value.
AUTHBS?		9-194	Returns AUTHBS.
CALLING:			
NUM *"n"*	"123/456-7890"	9-194	Specifies Calling Party Number.
NUM?		9-194	Returns Calling Party Number.
PI *n*	0 to 3	9-194	Specifies Calling Party Number Presentation Indicator.
PI?		9-194	Returns Calling Party Number Presentation Indicator.
SI *n*	0 to 3	9-194	Specifies Calling Party Screening Indicator.
SI?		9-194	Returns Calling Party Screening Indicator.
DMAC *n*	0 to 10	9-194	Specifies Digital Mobile Attenuation Code.
DMAC?		9-194	Returns Digital Mobile Attenuation Code.
DVCC *n*	1 to 255	9-194	Specifies Digital Verification Color Code.
DVCC?		9-194	Returns Digital Verification Color Code.
EF *n*	1 or 0	9-195	Enables/disables Extended Protocol Forward Channel Indicator.
EF?		9-195	Returns Extended Protocol Forward Channel Indicator.
ENABLE:			
VOICEPrivacy *n*	1 or 0	9-195	Enables/disables Voice Privacy in the Call Mode Acknowledgment message.
VOICEPrivacy?		9-195	Returns state of Voice Privacy.
HANDoff:			
CHANnel *n*	0 to 2047	9-195	Specifies Analog Voice or Digital Traffic Channel for Handoff.
CHANnel?		9-195	Returns Channel for Handoff.
HYPERband *n*	0 to 3	9-195	Specifies Hyperband.
HYPERband?		9-195	Returns Hyperband.
LOCAL *n*	0 to 31	9-195	Specifies Local Control in Local Control message.
LOCAL?		9-195	Returns Local Control.
MEM *n*	1 or 0	9-195	Enables/disables Message Encryption Mode.
MEM?		9-195	Returns state of Message Encryption Mode.
MT *n*	0 to 31	9-196	Specifies Message Type.
MT?		9-196	Returns Message Type.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FVC:			
ORDER:			
ALERT		9-190	Sends Alert order.
ALERTWinfo		9-190	Sends Alert with Information order.
ASYNC_PAGE		9-190	Sends Page order (Async Data).
AUDIT		9-190	Sends Audit order.
BSCHALCON		9-190	Sends Base Station Challenge Confirmation order.
CALLMODEACK		9-190	Sends Call Mode Acknowledgment order.
DISDTMF		9-190	Sends Disable DTMF order.
DISMEM		9-190	Sends Message Encryption Mode order with disable indication.
ENAMEM		9-190	Sends Message Encryption Mode order with enable indication.
FLASHWinfo		9-191	Sends Flash with Information order.
G3_MSG_WTG		9-191	Sends G3-Fax Message Waiting order.
G3_PAGE		9-191	Sends Page order (Group 3 Fax).
HANDoff		9-191	Sends Handoff order.
IS136:			
IS641:			
SLOT1		9-191	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 1, Full-Rate message type (VSELP).
SLOT2		9-191	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 2, Full-Rate message type (VSELP).
SLOT3		9-191	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 3, Full-Rate message type (VSELP).
SLOT1		9-191	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 1, Full-Rate message type (ACELP).
SLOT2		9-191	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 2, Full-Rate message type (ACELP).
SLOT3		9-191	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 3, Full-Rate message type (ACELP).
LC		9-192	Sends Local Control order.
MAINTenance		9-192	Sends Maintenance order.
MSGWTG		9-192	Sends Message Waiting order.
PAGE		9-192	Sends Page order.
PU		9-192	Sends Parameter Update order.
PWRLVL		9-192	Sends Power Level order.
RELease		9-192	Sends Release order.
RELEASE_COMPlete		9-192	Send Release Complete with Information order.
RELEASE_Winfo		9-192	Sends Release with DCCH Information order.
SALERT		9-192	Sends Stop Alert order.
SLOT1		9-193	Sends Handoff to Digital Traffic Channel on Timeslot 1 order.
SLOT2		9-193	Sends Handoff to Digital Traffic Channel on Timeslot 2 order.
SLOT3		9-193	Sends Handoff to Digital Traffic Channel on Timeslot 3 order.
SMS_MSG_WTG		9-193	Sends SMS Message Waiting order.
SNDAddr		9-193	Sends Send Called Address order.
SNRreq		9-193	Sends Serial Number Request order.
SSDUP		9-193	Sends Shared Secret Data Update order.
UCHAL		9-193	Sends Unique Challenge order.
VOICE_MSG_WTG		9-193	Sends Voice Message Waiting order.
PM *n*	1 or 0	9-196	Enables/disables Privacy Mode.
PM?		9-196	Returns state of Privacy Mode.
PSCC *n*	0 to 2	9-196	Specifies Present SAT Color Code.
PSCC?		9-196	Returns Present SAT Color Code.
PVI *n*	1 or 0	9-196	Enables/disables Protocol Version Indicator.
PVI?		9-196	Returns state of PVI.
PWRLVL *n*	0 to 7	9-196	Specifies requested Mobile Station Power Level in Power Level message.
PWRLVL?		9-196	Returns requested Power Level.
RANDSSD *"n"*	Example: "4A59BE232F9C26"	9-196	Specifies 56 bit Random Number sent in Shared Secret Data Update message.
RANDSSD?		9-196	Returns Shared Secret Data 56 bit Random Number.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
FVC:			
RANDU *n*	0 to 16777215	9-197	Specifies 24 bit Random Number sent in Unique Challenge message.
RANDU?		9-197	Returns Unique Challenge 24 bit Random Number.
SAT *n*	0 or 5965 to 6035	9-197	Specifies SAT frequency on FVC.
SAT?		9-197	Returns SAT.
SBI *n*	0 to 3	9-197	Specifies Shortened Burst Indicator.
SBI?		9-197	Returns Shortened Burst Indicator.
SCC *n*	0 to 2	9-197	Specifies Supervisory Audio Tone Color Code.
SCC?		9-197	Returns Supervisory Audio Tone Color Code.
SIGNAL:			
CADENCE *n*	0 to 63	9-197	Specifies on-off pattern of Alert tone.
CADENCE?		9-197	Returns Alert tone on-off pattern.
PITCH *n*	0 to 3	9-197	Specifies Pitch of Alert tone.
PITCH?		9-197	Returns Alert tone pitch.
STARt		9-190	Starts Sp Tst transmitting on Forward Voice Channel.
STOP		9-190	Stops Forward Voice Channel.
TA *n*	0 to 31	9-198	Specifies Time Alignment.
TA?		9-198	Returns Time Alignment.
VMAC *n*	0 to 7	9-198	Specifies Voice Mobile Attenuation Code.
VMAC?		9-198	Returns Voice Mobile Attenuation Code.
GLACT:			
ACTion:			
ACCess *n*	1 or 0	9-232	Enables/disables Access Attempt Parameters.
ACCess?		9-232	Returns state of Access Attempt Parameters message Enable.
BIS *n*	1 or 0	9-232	Enables/disables Access Type Parameters message.
BIS?		9-232	Returns state of Access Type Parameters message Enable.
LOCAID *n*	1 or 0	9-232	Enables/disables Location Area message.
LOCAID?		9-232	Returns state of Location Area message Enable.
LOCAL1 *n*	1 or 0	9-232	Enables/disables Local Control 1 message.
LOCAL1?		9-232	Returns state of Local Control 1 message Enable.
LOCAL2 *n*	1 or 0	9-232	Enables/disables Local Control 2 message.
LOCAL2?		9-232	Returns state of Local Control 2 message Enable.
NEWACC *n*	1 or 0	9-232	Enables/disables New Access Channel Set message.
NEWACC?		9-232	Returns state of New Access Channel Set message Enable.
OLC *n*	1 or 0	9-233	Enables/disables Overload Control message.
OLC?		9-233	Returns state of Overload Control message Enable.
RANDA *n*	1 or 0	9-233	Enables/disables Random Challenge A message.
RANDA?		9-233	Returns state of Random Challenge A message Enable.
RANDB *n*	1 or 0	9-233	Enables/disables Random Challenge B message.
RANDB?		9-233	Returns state of Random Challenge B message Enable.
REGINCR *n*	1 or 0	9-233	Enables/disables Registration Increment message.
REGINCR?		9-233	Returns state of Registration Increment message Enable.
RESCAN *n*	1 or 0	9-233	Enables/disables Rescan message.
RESCAN?		9-233	Returns state of Rescan message Enable.
BIS *n*	1 or 0	9-233	Enables/disables Busy-Idle Status.
BIS?		9-233	Returns state of Busy-Idle Status.
LOCAID *n*	0 to 4095	9-234	Specifies Cell Site Location Area ID.
LOCAID?		9-234	Returns Cell Site Location Area ID.
LOCALcntl *n*	0 to 65535	9-234	Specifies Local Control bits.
LOCALcntl?		9-234	Returns Local Control.
LREG *n*	1 or 0	9-234	Enables/disables Local Area ID Registration.
LREG?		9-234	Returns state of Local Area ID Registration.
MAXBusy:			
OTHer *n*	0 to 15	9-234	Specifies Maximum number of Busy occurrences allowed for Other than Page responses.
OTHer?		9-234	Returns Maximum number of Busy occurrences allowed for Other than Page responses.
PGR *n*	0 to 15	9-234	Specifies Maximum number of Busy occurrences allowed for Page responses.
PGR?		9-234	Returns Maximum number of Busy occurrences allowed for Page responses.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
GLACT:			
MAXSztr:			
OTHer *n*	0 to 15	9-235	Specifies Maximum number of Seizure Tries allowed for Other than Page responses.
OTHer?		9-235	Returns Maximum number of Seizure Tries allowed for Other than Page responses.
PGR *n*	0 to 15	9-235	Specifies Maximum number of Seizure Tries for Page responses.
PGR?		9-235	Returns Maximum number of Busy occurrences allowed for Page responses.
NEWACC *n*	0 to 2047	9-235	Specifies New Access Channel starting point.
NEWACC?		9-235	Returns New Access Channel starting point.
OLC *n*	0 to 32767	9-235	Specifies Overhead Class.
OLC?		9-235	Returns Overhead Class.
PDREG *n*	1 or 0	9-235	Enables/disables Power Down Registration.
PDREG?		9-235	Returns state of Power Down Registration.
PUREG *n*	1 or 0	9-235	Enables/disables Power Up Registration.
PUREG?		9-235	Returns state of Power Up Registration.
RAND1_A *n*	0 to 32767	9-236	Specifies 16 most significant bits of RAND.
RAND1_A?		9-236	Returns 16 most significant bits of RAND.
RAND1_B *n*	0 to 32767	9-236	Specifies 16 least significant bits of RAND.
RAND1_B?		9-236	Returns 16 least significant bits of RAND.
REGINCR *n*	0 to 4095	9-236	Specifies Registration Increment.
REGINCR?		9-236	Returns Registration Increment field setting.
REPEAT:			
OFF		9-231	Sends Global Action Overhead message in primary Overhead Message Train (OMT) once after starting.
ON		9-231	Sends Global Action Overhead message in primary OMT continuously after starting.
SEND		9-231	Starts Sending Global Action as part of primary OMT.
STOP		9-231	Stops sending Global Action as part of primary OMT.
MSCM:			
AUTHBS *n*	0 to 262143	9-241	Specifies AUTHBS.
AUTHBS?		9-241	Returns AUTHBS.
CHAN *n*	0 to 2047	9-241	Specifies RF Channel.
CHAN?		9-241	Returns RF Channel.
CHANPos *n,x*	0 to 5, 0 to 127	9-241	Specifies selected Channel Position sent in Directed-Retry message. *n* indicates Channel Positions 1 to 6.
CHANPos? *n*	0 to 5	9-241	Returns selected Channel Position.
DMAC *n*	0 to 10	9-242	Specifies Digital Mobile Attenuation Code.
DMAC?		9-242	Returns Digital Mobile Attenuation Code.
DVCC *n*	0 to 255	9-242	Specifies Digital Verification Color Code.
DVCC?		9-242	Returns Digital Verification Color Code.
EF *n*	1 or 0	9-242	Enables/disables Extended Protocol Forward Channel Indicator.
EF?		9-242	Returns state of Extended Protocol Forward Channel Indicator.
LOCAL *n*	0 to 31	9-242	Specifies Local Control/Message Type.
LOCAL?		9-242	Returns Local Control/Message Type.
MEM *n*	1 or 0	9-242	Enables/disables Message Encryption Mode.
MEM?		9-242	Returns state of Message Encryption Mode.
MIN *"n"*	"123/456-7890"	9-243	Specifies Mobile ID Number.
MIN?		9-243	Returns Mobile ID Number.
ORDER:			
A_ALERT		9-237	Selects Abbreviated Alert message.
ANA_VC_DES		9-237	Selects Analog Voice Channel Assignment message.
ASYNC_PAGE		9-237	Selects Page (Async Data) message.
AUDIT		9-237	Selects Audit message.
BSCHALCON		9-238	Selects Base Station Challenge Confirmation message.
DIR_RTRY		9-238	Selects Directed-Retry message.
G3_MSG_WTG		9-238	Selects G3-Fax Message Waiting message.
G3_PAGE		9-238	Selects Page (Group 3 Fax) message.
INTRCPT		9-238	Selects Intercept message.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
MSCM:			
ORDER:			
IS136:			
FAXdata:			
SLOT1		9-239	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 1, Full-Rate message (Fax/Data).
SLOT1_2		9-239	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 1 & 2, Double-Rate message (Fax/Data).
SLOT1_2_3		9-240	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 1, 2 & 3, Triple-Rate message (Fax/Data).
SLOT1_3		9-239	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 1 & 3, Double-Rate message (Fax/Data).
SLOT2		9-239	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 2, Full-Rate message (Fax/Data).
SLOT2_3		9-239	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 2 & 3, Double-Rate message (Fax/Data).
SLOT3		9-239	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 3, Full-Rate message (Fax/Data).
IS641:			
SLOT1		9-239	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 1, Full-Rate message (ACELP).
SLOT2		9-239	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 2, Full-Rate message (ACELP).
SLOT3		9-239	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 3, Full-Rate message (ACELP).
SLOT1		9-238	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 1, Full-Rate message (VSELP).
SLOT2		9-238	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 2, Full-Rate message (VSELP).
SLOT3		9-238	Sends DTC Assignment for IS-136 order with Assigned to Timeslot 3, Full-Rate message (VSELP).
LC		9-240	Selects Local Control message.
MSG_WTG		9-240	Selects Message Waiting message.
PAGE		9-240	Selects Page message.
REG_AUTH_CNF		9-240	Selects Autonomous Registration (with Authentication Word C) Confirmation message.
REG_CNF		9-240	Selects Registration Confirmation message.
RELease		9-240	Selects Release message.
REORDER		9-240	Selects Reorder message.
SLOT1		9-240	Selects Digital Channel Assignment to Timeslot 1 message.
SLOT2		9-240	Selects Digital Channel Assignment to Timeslot 2 message.
SLOT3		9-240	Selects Digital Channel Assignment to Timeslot 3 message.
SMS_MSG_WTG		9-241	Selects SMS Message Waiting message.
SSD_UP		9-241	Selects Shared Secret Data Update message.
UCHAL		9-241	Selects Unique Challenge message.
VC_DES		9-241	Selects Voice Channel Designation message.
VOICE_MSG_WTG		9-241	Selects Voice Message Waiting message.
ORDQ *n*	0 to 7	9-243	Specifies Order Qualifier.
ORDQ?		9-243	Returns Order Qualifier.
PM *n*	1 or 0	9-243	Enables/disables Privacy Mode Indicator.
PM?		9-243	Returns state of Privacy Mode Indicator.
PVI *n*	1 or 0	9-243	Enables/disables Protocol Version Indicator.
PVI?		9-243	Returns state of Protocol Version Indicator.
RANDSSD1 *n*	0 to 16777215	9-243	Specifies 24 most significant bits of Random Number sent in SSD Update message (first order word).
RANDSSD1?		9-243	Returns 24 most significant bits of Random Number sent in SSD Update message.
RANDSSD2 *n*	0 to 16777215	9-244	Specifies 24 intermediate bits of Random Number sent in SSD Update message (second order word).
RANDSSD2?		9-244	Returns 24 intermediate bits of Random Number sent in SSD Update message.
RANDSSD3 *n*	0 to 255	9-244	Specifies eight least significant bits of Random Number sent in SSD Update message (third order word).
RANDSSD3?		9-244	Returns eight least significant bits of Random Number sent in SSD Update message.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
MSCM:			
RANDU *n*	0 to 16777215	9-244	Specifies 24 bit Random Number sent in Unique Challenge message.
RANDU?		9-244	Returns Unique Challenge 24 bit Random Number.
REPEAT:			
OFF		9-237	Sends MSCM in selected OMTs (primary or one of the four secondary OMTs) once after starting.
ON		9-237	Sends MSCM continuously in the selected OMTs (primary or one of the four secondary OMTs).
SCC *n*	0 to 2	9-244	Specifies Supervisory Audio Tone Color Code.
SCC?		9-244	Returns Supervisory Audio Tone Color Code.
SEND		9-237	Starts sending Mobile Station Control Message (MSCM) in selected Overhead Message Train (OMT) (primary or one of the four secondary OMTs).
STOP		9-237	Stops sending MSCM.
VMAC *n*	0 to 7	9-244	Specifies Voice Mobile Attenuation Code.
VMAC?		9-244	Returns Voice Mobile Attenuation Code.
RATE *n*	0 = full, 1 = half	9-176	Selects Rate.
RATE?		9-176	Returns state of RATE.
RECC:			
STATus?		9-189	Returns access with Mobile Station status (0 = no access occurred, 1 = access occurred).
RFLVL *n*	-127.0 to -20.0	9-177	Specifies RF output level in dBm.
RFLVL?		9-177	Returns RF Level.
SETup		9-176	Sets up the Sp Tst as when entering the first Analog Control Channel (ACC) Cell Site Simulation screen, except screen is not displayed and Sp Tst is not transmitting at this point.
SLOT *n*	1 to 6	9-177	Specifies full rate pair or half rate slot in which to transmit.
SLOT?		9-177	Returns SLOT.
SPACH:			
ALPHA:			
PSID_RSID:			
NAME:			
CHARacter *n,"m"*	0 to 16, ASCII String	9-375	Specifies selected Display Character (*m*).
CHARacter? *n*	0 to 16	9-375	Returns selected Display Character.
NUMBer *n*	0 to 16	9-375	Specifies Length of Alphanumeric PSID/RSID List.
NUMBer?		9-375	Returns Length of Alphanumeric PSID/RSID List.
SID *"n"*	"123/456-7890"	9-375	Specifies Alphanumeric System ID.
SID?		9-375	Returns Alphanumeric System ID.
ARM *n*	1 or 0	9-343	Enables/disables ARQ Response Mode.
ARM?		9-343	Returns state of ARM.
ATS *n*	0 to 15	9-349	Specifies Assigned Time Slot.
ATS?		9-349	Returns ATS.
AUTH *n*	1 or 0	9-352	Enables/disables Authentication information.
AUTH?		9-352	Returns state of Authentication information.
AUTHBS *n*	0 to #hFFFF	9-348	Specifies AUTHBS.
AUTHBS?		9-348	Returns AUTHBS.
BCN *n*	1 or 0	9-339	Enables/disables Broadcast Channel Change Notification Flag.
BCN?		9-339	Returns state of Broadcast Channel Change Notification Flag.
BSMC *n*	0 to 255	9-348	Specifies Base Station Manufacture Code.
BSMC?		9-348	Returns BSMC.
BT *n*	0 to 7	9-339	Specifies Burst Type.
BT?		9-339	Returns BT.
BU *n*	0 to 7	9-338	Specifies Burst Usage.
BU?		9-338	Returns Burst Usage.
BUILD:			
ARQ		9-337	Builds ARQ SPACH Message of any type.
HARD		9-337	Builds Hard Page of any type.
NONARQ		9-337	Builds Non ARQ SPACH Message.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
SPACH:			
CALLED:			
ADDRess *"n"*	ASCII String	9-355	Specifies Called Address.
ADDRess?		9-355	Returns Called Address.
ENCoding *n*	1 or 0	9-355	Enables/disables Called Party Address Encoding.
ENCoding?		9-355	Returns state of Called Party Address Encoding.
PLANid *n*	0 to 15	9-355	Specifies Called Party Numbering Plan ID.
PLANid?		9-355	Returns Called Party Numbering Plan ID.
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-356	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-356	Returns selected Subaddress.
LENGth *n*	0 to 255	9-356	Specifies Length of Subaddress Info.
LENGth?		9-356	Returns Length of Subaddress Info.
ODD_EVEN *n*	1 or 0	9-356	Enables/disables Odd/Even Indicator.
ODD_EVEN?		9-356	Returns state of Odd/Even Indicator.
REServed *n*	0 to 15	9-356	Specifies number of subaddress Reserved fields.
REServed?		9-356	Returns number of subaddress Reserved fields.
TYPE *n*	0 to 7	9-356	Specifies Type of Subaddress.
TYPE?		9-356	Returns Type of Subaddress.
TYPE *n*	0 to 7	9-355	Specifies Type of Number.
TYPE?		9-355	Returns Type of Number.
CALLING:			
ADDRess *"n"*	0 to 255	9-357	Specifies Calling Party Address.
ADDRess?		9-357	Returns Calling Party Address.
ENCoding *n*	1 or 0	9-357	Enables/disables Calling Party Address Encoding.
ENCoding?		9-357	Returns state of Calling Party Address Encoding.
PLANid *n*	0 to 15	9-357	Specifies Calling Party Numbering Plan Identification.
PLANid?		9-357	Returns Calling Party Numbering Plan Identification.
PRESentation:			
PI *n*	0 to 3	9-359	Specifies Calling Party Number Presentation Indicator.
PI?		9-359	Returns Calling Party Number Presentation Indicator.
SI *n*	0 to 3	9-359	Specifies Calling Party Screening Indicator.
SI?		9-359	Returns Calling Party Screening Indicator.
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-358	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-358	Returns selected Subaddress.
LENGth *n*	0 to 255	9-358	Specifies Length of Subaddress Info content.
LENGth?		9-358	Returns Length of Subaddress Info content.
ODD_EVEN *n*	1 or 0	9-358	Enables/disables Odd/Even Indicator.
ODD_EVEN?		9-358	Returns state of Odd/Even Indicator.
REServed *n*	0 to 15	9-358	Specifies number of subaddress Reserved fields.
REServed?		9-358	Returns number of subaddress Reserved fields.
TYPE *n*	0 to 7	9-358	Specifies Type of Subaddress.
TYPE?		9-358	Returns Type of Subaddress.
TYPE *n*	0 to 7	9-357	Specifies Calling Party Type of Number.
TYPE?		9-357	Returns Calling Party Type of Number.
CHAN *n*	0 to 2047	9-345	Specifies Channel used in Digital or Analog channel assignment.
CHAN?		9-345	Returns Channel.
CUSTOM:			
CONTrol *n,m*	0 to 63, 0 to 255	9-348	Specifies selected Custom Control (*m*).
CONTrol? *n*	0 to 63	9-348	Returns selected Custom Control.
LENGth *n*	1 to 64	9-348	Specifies Length of Custom Control in octets.
LENGth?		9-348	Returns Length of Custom Control in octets.
DATA:			
ARQ? *n,m*	0 to 255, 0 to 6	9-338	Returns selected 16 bit word within selected frame (*n*) of ARQ SPACH message.
HARD? *n*	0 to 6	9-338	Returns selected 16 bit word within hard page.
NONARQ? *n,m*	0 to 255, 0 to 6	9-338	Returns selected 16 bit word within selected frame (*n*) of NONARQ SPACH message.
DEBUG *n*	1 or 0	9-347	Enables/disables Debug Display Allowed.
DEBUG?		9-347	Returns state of Debug Display Allowed.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
SPACH:			
DIRectory:			
ADDRess *"n"*	0 to 255	9-370	Specifies Address.
ADDRess?		9-370	Returns Address.
ENCoding *n*		9-370	Enables/disables Directory Address Encoding.
ENCoding?		9-370	Returns state of ENCoding.
PLANid *n*	0 to 15	9-370	Specifies Directory Address Numbering Plan ID.
PLANid?		9-370	Returns Directory Address Numbering Plan ID.
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-371	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-371	Returns selected Subaddress.
LENGth *n*	0 to 255	9-371	Specifies Length of Subaddress Info content.
LENGth?		9-371	Returns Length of Subaddress Info content.
ODD_EVEN *n*	1 or 0	9-371	Enables/disables Odd/Even Indicator.
ODD_EVEN?		9-371	Returns state of Odd/Even Indicator.
REServed *n*	0 to 15	9-371	Specifies number of subaddress Reserved fields.
REServed?		9-371	Returns number of subaddress Reserved fields.
TYPE *n*	0 to 7	9-371	Specifies Type of Subaddress.
TYPE?		9-371	Returns Type of Subaddress.
TYPE *n*	0 to 7	9-370	Specifies Directory Address Type of Number.
TYPE?		9-370	Returns Directory Address Type of Number.
DISPlay:			
CHARacter *n,m*	0 to 81, 0 to 255	9-347	Specifies selected Display Character (*m*).
CHARacter? *n*	0 to 81	9-347	Returns selected Display Character.
LENGth *n*	0 to 81	9-347	Specifies Length of Display info.
LENGth?		9-347	Returns Length of Display info.
DMAC *n*	0 to 15	9-349	Specifies Digital Mobile Attenuation Code.
DMAC?		9-349	Returns DMAC.
DTX:			
SUPport *n*	0 to 3	9-346	Specifies DTX Support.
SUPport?		9-346	Returns DTX Support.
DVCC *n*	0 to 255	9-348	Specifies Digital Verification Color Code.
DVCC?		9-348	Returns DVCC.
EHI *n*	1 or 0	9-242	Enables/disables Extended Header Indicator.
EHI?		9-242	Returns state of EHI.
ENABLE:			
ALPHA:			
PSID_RSID *n*	1 or 0	9-383	Enables/disables Alphanumeric PSID/RSID List optional info. element.
PSID_RSID?		9-383	Returns state of Alphanumeric PSID/RSID List optional info. element.
SID *n*	1 or 0	9-383	Enables/disables Alphanumeric System ID optional info. element.
SID?		9-383	Returns state of Alphanumeric System ID optional info. element.
CALLED:			
ADDRess *n*	1 or 0	9-379	Enables/disables Called Party Address optional info. element.
ADDRess?		9-379	Returns state of Called Party Address optional info. element.
SUBaddress *n*	1 or 0	9-379	Enables/disables Called Party Subaddress optional info. element.
SUBaddress?		9-379	Returns state of Called Party Subaddress optional info. element.
CALLING:			
ADDRess *n*	1 or 0	9-379	Enables/disables Calling Party Address optional info. element.
ADDRess?		9-379	Returns state of Calling Party Address optional info. element.
PRESentation *n*	1 or 0	9-380	Enables/disables Calling Party Number Presentation Indicator.
PRESentation?		9-380	Returns state of Calling Party Number Presentation Indicator.
SUBaddress *n*	1 or 0	9-379	Enables/disables Calling Party Subaddress optional info. element.
SUBaddress?		9-379	Returns state of Calling Party Subaddress optional info. element.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
SPACH:			
ENABLE:			
DIRectory:			
ADDRess *n*	1 or 0	9-383	Enables/disables Directory Address optional info. element.
ADDRess?		9-383	Returns state of Directory Address optional info. element.
SUBaddress *n*	1 or 0	9-383	Enables/disables Directory Subaddress optional info. element.
SUBaddress?		9-383	Returns state of Directory Subaddress optional info. element.
DISPlay *n*	1 or 0	9-377	Enables/disables Display optional info. element.
DISPlay?		9-377	Returns state of Display optional info. element.
DTX *n*	1 or 0	9-377	Enables/disables DTX Support optional info. element.
DTX?		9-377	Returns state of DTX Support optional info. element.
HYPERband:			
INFO *n*	1 or 0	9-378	Enables/disables Hyperband Info optional info. element.
INFO?		9-378	Returns state of Hyperband Info optional info. element.
MACA:			
LIST *n*	1 or 0	9-384	Enables/disables MACA_LIST optional info. element.
LIST:			
OTHER *n*	1 or 0	9-384	Enables/disables MACA_LIST (Other Hyperband) optional info. element.
OTHER?		9-384	Returns state of MACA_LIST (Other Hyperband) optional info. element.
LIST?		9-384	Returns state of MACA_LIST optional info. element.
MESSage:			
CENTer:			
ADDRess *n*	1 or 0	9-380	Enables/disables Message Center Address optional info. element.
ADDRess?		9-380	Returns state of Message Center Address optional info. element.
MODE:			
MEM *n*	1 or 0	9-378	Enables/disables Message Encryption Mode optional info. element.
MEM?		9-378	Returns state of Message Encryption Mode optional info. element.
VOICE *n*	1 or 0	9-378	Enables/disables Voice Mode optional info. element.
VOICE?		9-378	Returns state of Voice Mode optional info. element.
MSID:			
ASSIGNment *n*	1 or 0	9-382	Enables/disables MSID Assignment optional info. element.
ASSIGNment?		9-382	Returns state of MSID Assignment optional info. element.
PFC:			
ASSIGNment *n*	1 or 0	9-382	Enables/disables PFC Assignment optional info. element.
ASSIGNment?		9-382	Returns state of PFC Assignment optional info. element.
PSID_RSID:			
AVAILable *n*	1 or 0	9-382	Enables/disables PSID/RSID Available optional info. element.
AVAILable?		9-382	Returns state of PSID/RSID Available optional info. element.
QUEue:			
POSition *n*	1 or 0	9-384	Enables/disables Queue Position optional info. element.
POSition?		9-384	Returns state of Queue Position optional info. element.
RCF_AUTH *n*	1 or 0	9-378	Enables/disables RCF and AUTH optional info. element.
RCF_AUTH?		9-378	Returns state of RCF and AUTH optional info. element.
RDATA:			
DELAY *n*	1 or 0	9-381	Enables/disables R-DATA Delay optional info. element.
DELAY?		9-381	Returns state of R-DATA Delay optional info. element.
REJect:			
TIME *n*	1 or 0	9-383	Enables/disables Reject Time optional info. element.
TIME?		9-383	Returns state of Reject Time optional info. element.
RETRY:			
CHANnel *n*	1 or 0	9-378	Enables/disables Retry Channel optional info. element.
CHANnel ?		9-378	Returns state of Retry Channel optional info. element.
RNUM:			
LIST *n*	1 or 0	9-382	Enables/disables RNUM List optional info. element.
LIST?		9-382	Returns state of RNUM List optional info. element.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
SPACH:			
ENABLE:			
SIGnal *n*	1 or 0	9-378	Enables/disables Signal optional info. element.
SIGnal?		9-378	Returns state of Signal optional info. element.
SUBaddress *n*	1 or 0	9-377	Enables/disables Subaddress optional info. element.
SUBaddress?		9-377	Returns state of Subaddress optional info. element.
USER:			
DEST:			
ADDRess *n*	1 or 0	9-380	Enables/disables User Destination Address optional info. element.
ADDRess?		9-380	Returns state of User Destination Address optional info. element.
SUBaddress *n*	1 or 0	9-380	Enables/disables User Destination Subaddress optional info. element.
SUBaddress?		9-380	Returns state of User Destination Subaddress optional info. element.
GROUP *n*	1 or 0	9-381	Enables/disables User Group optional info. element.
GROUP?		9-381	Returns state of User Group optional info. element.
ORIG:			
ADDRess *n*	1 or 0	9-381	Enables/disables User Originating Address optional info. element.
ADDRess?		9-381	Returns state of User Originating Address optional info. element.
PRESentation *n*	1 or 0	9-381	Enables/disables User Originating Address Presentation Indicator optional info. element.
PRESentation?		9-381	Returns state of User Originating Address Presentation Indicator optional info. element.
SUBaddress *n*	1 or 0	9-381	Enables/disables User Originating Subaddress optional info. element.
SUBaddress?		9-381	Returns state of User Originating Subaddress optional info. element.
FRNO *n,m*	0 to 79, 0 to 31	9-343	Specifies selected Frame Number (*m*).
FRNO? *n*	0 to 79	9-343	Returns selected FRNO.
GA *n*	1 or 0	9-343	Enables/disables Go Away.
GA?		9-343	Returns state of GA.
IDT *n*	0 to 3	9-339	Specifies Identity Type.
IDT?		9-339	Returns IDT.
L3:			
DATA *m,i,pd[,pd[,...,pd]]*	0 to 3, 0 to 255, 0 to 255 or string	F-1	Programs the raw layer 3 data.
DATA? *m,i,l*	0 to 3, 0 to 255, 0 to 64	F-1	Returns programmed data for selected message and octet length.
LENGTH *m,l*	0 to 3, 0 to 255	F-1	Sets the length of the layer 3 message.
LENGTH? *m*	0 to 3	F-1	Returns programmed length for selected message.
LENGth:			
ARQ?		9-337	Returns ARQ SPACH message length.
HARD?		9-337	Returns hard page length.
NONARQ?		9-338	Returns NONARQ SPACH message length.
LT *n*	1 or 0	9-352	Enables/disables Last Try.
LT?		9-352	Returns state of LT.
MACA:			
LIST:			
CHAN *n,m*	0 to 15, 1 to 2047	9-376	Specifies CHAN (*m*) of selected MACA Channel.
CHAN? *n*	0 to 15	9-376	Returns CHAN of selected MACA Channel.
NUMBer *n*	0 to 15	9-376	Specifies Number of MACA Channels.
NUMBer?		9-376	Returns Number of MACA Channels.
OTHER:			
CHAN *n,m*	0 to 15, 1 to 2047	9-377	Specifies CHAN (*m*) of selected MACA Channel for MACA_LIST (Other Hyperband).
CHAN? *n*	0 to 15	9-377	Returns CHAN of selected MACA Channel for MACA_LIST (Other Hyperband).
HYPERband *n*	0 to 3	9-376	Specifies Hyperband for MACA_LIST (Other Hyperband).
HYPERband?		9-376	Returns Hyperband for MACA_LIST (Other Hyperband).

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
SPACH:			
MACA:			
LIST:			
OTHER:			
NUMBer *n*	0 to 15	9-376	Specifies Number of MACA Channel for MACA_LIST (Other Hyperband).
NUMBer?		9-376	Returns Number of MACA Channel for MACA_LIST (Other Hyperband).
MEA *n*	0 to 3	9-342	Specifies Message Encryption Algorithm.
MEA?		9-342	Returns MEA.
MEK *n*	0 to 3	9-342	Specifies Message Encryption Key.
MEK?		9-342	Returns MEK.
MEM *n*	1 or 0	9-344	Enables/disables Message Encryption Mode.
MEM?		9-344	Returns state of MEM.
MESSage:			
CENTer:			
ADDRess *"n"*	0 to 255	9-361	Specifies Message Center Address.
ADDRess?		9-361	Returns Message Center Address.
ENCoding *n*	1 or 0	9-361	Enables/disables Message Center Address Encoding.
ENCoding?		9-361	Returns state of Message Center Address Encoding.
PLANid *n*	0 to 15	9-361	Specifies Message Center Address Numbering Plan ID.
PLANid?		9-361	Returns Message Center Address Numbering Plan ID.
TYPE *n*	0 to 7	9-361	Specifies Message Center Address Type of Number.
TYPE?		9-361	Returns Message Center Address Type of Number.
MIN1 *"n"*	"123/456-7890"	9-340	Specifies MIN1 used in SPACH Message.
MIN1?		9-340	Returns MIN1 used in SPACH Message.
MIN2 *"n"*	"123/456-7890"	9-340	Specifies MIN2 used in SPACH Message.
MIN2?		9-340	Returns MIN2 used in SPACH Message.
MIN3 *"n"*	"123/456-7890"	9-340	Specifies MIN3 used in SPACH Message.
MIN3?		9-340	Returns MIN3 used in SPACH Message.
MM *n*	1 or 0	9-341	Enables/disables Message Mapping.
MM?		9-341	Returns state of Message Mapping.
MODE:			
DIC *n*	1 or 0	9-350	Enables/disables Delay Interval Compensation Mode.
DIC?		9-350	Returns state of DIC.
HYPERband:			
INFO *n*	0 to 3	9-351	Specifies Hyperband Info.
INFO?		9-351	Returns Hyperband Info.
MEM:			
MEA *n*	0 to 7	9-351	Specifies Message Encryption Algorithm.
MEA?		9-351	Returns MEA.
MED *n*	0 to 7	9-351	Specifies Message Encryption Domain.
MED?		9-351	Returns MED.
MEK *n*	0 to 7	9-351	Specifies Message Encryption Key.
MEK?		9-351	Returns MEK.
VOICE:			
PM_V *n*	0 to 7	9-350	Specifies Voice Privacy.
PM_V?		9-350	Returns PM_V.
VC *n*	0 to 7	9-350	Specifies Voice Coder.
VC?		9-350	Returns VC.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
SPACH:			
MSGtype*n*:*xxx*	*n* = 1 to 4	9-344	Specifies message type *n* used in SPACH message.
	ANALOG		
	AUDIT		
	BSCHALcon		
	BSMC		
	CAPability		
	DIGital		
	DRETRY		
	MSGWTG		
	PAGE		
	PU		
	QDISC_ACK		
	QUPDate		
	RAW	F-2	
	RDATA		
	RDATA_ACCept		
	RDATA_REJect		
	REG_ACCept		
	REG_REJect		
	RELease		
	REORDer		
	SOC		
	SPACHnotification		
	SSDUP		
	TESTreg		
	UCHAL		
	USERalert		
MSGWTG:			
NUMber *n,m*	0 to 15, 0 to 63	9-353	Specifies selected Number of Messages Waiting (*m*).
NUMber? *n*	0 to 15	9-353	Returns selected Number of Messages Waiting.
NV *n*	0 to 15	9-353	Specifies Message Waiting Info Number of Values.
NV?		9-353	Returns Message Waiting Info Number of Values.
TYPE *n,m*	0 to 15, 0 to 15	9-353	Specifies selected Type of Message Waiting (*m*).
TYPE? *n*	0 to 15	9-353	Returns selected Type of Message Waiting.
MSID:			
ASSIGNment *n*	0 to #hFFFFFF	9-368	Specifies MSID Assignment.
ASSIGNment?		9-368	Returns MSID Assignment.
IDT *n*	0 to 3	9-368	Specifies Identity Type.
IDT?		9-368	Returns IDT.
LS *n,m*	0 to 4, 0 to #hFFFFFFFF	9-340	Specifies 32 Least Significant Bits (*m*) of selected Mobile Station ID.
LS? *n*	0 to 4	9-340	Returns 32 Least Significant Bits of selected Mobile Station ID.
MS *n,m*	0 to 4, 0 to #h3FFFF	9-340	Specifies 18 Most Significant Bits (*m*) of selected Mobile Station ID.
MS? *n*	0 to 4	9-340	Returns 18 Most Significant Bits of selected Mobile Station ID.
NOTification *n*	0 to 63	9-374	Specifies SPACH Notification Type.
NOTification?		9-374	Returns SPACH Notification Type.
PCON *n,m*	1 or 0, 0 or 1	9-339	Enables/disables selected Paging Channel Continuation.
PCON? *n*	0 or 1	9-339	Returns selected PCON
PD *n*	0 to 3	9-343	Specifies Protocol Discriminator.
PD?		9-343	Returns Protocol Discriminator.
PEA *n*	0 to 127	9-341	Specifies Partial Echo Assigned.
PEA?		9-341	Returns PEA.
PFC:			
ASSIGNment *n*	0 to 3	9-367	Specifies PFC Assignment.
ASSIGNment?		9-367	Returns PFC Assignment.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
SPACH:			
PFM *n*	1 or 0	9-339	Enables/disables Paging Frame Modifier.
PFM?		9-339	Returns state of PFM.
PI *n,m*	0 to 79, 1 or 0	9-341	Enables/disables selected Polling Indicator.
PI? *n*	0 to 79	9-341	Returns state of selected PI.
PROGRAM:			
ARQ *dest,source,length*	0 to 31, 0 to 255, 0 to 32	9-338	Copies ARQ message into Superframe. Location in Superframe is selected by *dest*. *source* selects frame from ARQ buffer. Number of frames moved is selected by *length*.
HARD *dest*	0 to 31	9-338	Copies hard page into selected Superframe.
NONARQ *dest,source,length*	0 to 31, 0 to 255, 0 to 32	9-338	Copies NONARQ message into superframe. Location in Superframe is selected by *dest*. *source* selects frame from NONARQ buffer. Number of frames moved is selected by *length*.
PROTocol *n*	0 to 15	9-345	Specifies Protocol Version.
PROTocol?		9-345	Returns Protocol Version.
PSID_RSID:			
AVAILable:			
NUMBer *n*	0 to 15	9-369	Specifies Number of PSID/RSID.
NUMBer?		9-369	Returns Number of PSID/RSID.
TYPE *n,m*	0 to 15, 1 or 0	9-369	Enables/disables selected PSID/RSID Type Indicator.
TYPE? *n*	0 to 15	9-369	Returns state of selected PSID/RSID Type Indicator.
VALUE *n,m*	0 to 15, 0 to #hFFFF	9-369	Specifies selected PSID/RSID Value (*m*).
VALUE? *n*	0 to 15	9-369	Returns selected PSID/RSID Value.
MAP *n*	0 to #hFFFF	9-369	Specifies PSID/RSID Map.
MAP?		9-369	Returns PSID/RSID Map.
QUEue:			
POSition *n*	0 to 15	9-376	Specifies Queue Position.
POSition?		9-376	Returns Queue Position.
RANDSSD1 *n*	0 to #hFFFFFF	9-374	Specifies RANDSSD1.
RANDSSD1?		9-374	Returns RANDSSD1.
RANDSSD2 *n*	0 to #hFFFFFFFF	9-374	Specifies RANDSSD2.
RANDSSD2?		9-374	Returns RANDSSD2.
RANDU *n*	0 to #hFFFFFF	9-375	Specifies RANDU.
RANDU?		9-375	Returns RANDU.
RCF *n*	1 or 0	9-352	Enables/disables Read Control Filler information.
RCF?		9-352	Returns state of Read Control Filler information.
RDATA:			
DELAY *n*	0 to 15	9-373	Specifies R-DATA DELAY.
DELAY?		9-373	Returns R-DATA DELAY.
MESSage:			
LENGth?		9-360	Returns the calculated length of the RDATA message.
RDATA_UNIT:			
HLP:			
DATA *n,m*	0 to 255, 0 to 255	9-360	Specifies selected R-Data Unit Higher Layer Protocol Data Unit (*m*).
DATA? *n*	0 to 255	9-360	Returns selected R-Data Unit Higher Layer Protocol Data Unit.
IDentifier *n*	0 to 255	9-360	Specifies R-Data Unit Higher Protocol Identifier.
IDentifier?		9-360	Returns R-Data Unit Higher Protocol Identifier.
LENGth *n*	0 to 255	9-360	Specifies R-Data Unit Length Indicator.
LENGth?		9-360	Returns R-Data Unit Length Indicator.
REJect:			
RDATA:			
CAUSE *n*	0 to 127	9-372	Specifies Cause for R-DATA Reject.
CAUSE?		9-372	Returns Cause for R-DATA Reject.
SPARE *n*	1 or 0	9-372	Enables/disables R-Cause Reserved.
SPARE?		9-372	Returns state of R-Cause Reserved.
REGistration:			
CAUSE *n*	0 to 15	9-372	Specifies Cause for Registration Reject.
CAUSE?		9-372	Returns Cause for Registration Reject.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
SPACH:			
REJect:			
REGistration:			
TIME:			
LOWer *n*	0 to 15	9-372	Specifies Lower time boundary in 100 Superframe (SF).
LOWer?		9-372	Returns Lower time boundary in 100 Superframe (SF).
UPPer *n*	0 to 15	9-372	Specifies Upper time boundary in 100 Superframe (SF).
UPPer?		9-372	Returns Upper time boundary in 100 Superframe (SF).
RELease:			
CAUSE *n*	0 to 15	9-373	Specifies Cause for Release.
CAUSE?		9-373	Returns Cause for Release.
REorder:			
CAUSE *n*	0 to 15	9-373	Specifies Cause for Reorder/Intercept.
CAUSE?		9-373	Returns Cause for Reorder/Intercept.
TONE *n*	0 to 3	9-373	Specifies Tone Indicator.
TONE?		9-373	Returns Tone Indicator.
REREG *n*	1 or 0	9-347	Enables/disables Forced Re-registration.
REREG?		9-347	Returns state of REREG.
RETRY:			
CHANnel *n,m*	0 to 5, 1 to 2047	9-353	Specifies CHAN (*m*) for selected Retry Channel.
CHANnel? *n*	0 to 5	9-353	Returns CHAN for selected Retry Channel.
HYPERband *n,m*	0 to 5, 0 to 3	9-353	Specifies Hyperband (*m*) for selected Retry Channel.
HYPERband? *n*	0 to 5	9-353	Returns Hyperband for selected Retry Channel.
NUMBer *n*	0 to 5	9-352	Specifies Number of instances of Retry Channel.
NUMBer?		9-352	Returns Number of instances of Retry Channel.
RN *n*	0 to 15	9-359	Specifies Request Number.
RN?		9-359	Returns Request Number.
RNUM:			
LIST *n,m*	0 to 49, 0 to 1023	9-368	Specifies selected RNUM List (*m*).
LIST? *n*	0 to 49	9-368	Returns selected RNUM List.
NUMber *n*	1 to 50	9-368	Specifies Number of RNUMs.
NUMber?		9-368	Returns Number of RNUMs.
RSVD:			
ARQ *n*	0 to 3	9-343	Specifies Automatic Retransmission Request.
ARQ?		9-343	Returns ARQ.
HEADER *n*	1 or 0	9-342	Enables/disables reserved field in SPACH Header A.
HEADER?		9-342	Returns state of reserved field in SPACH Header A.
RTRANSaction *n*	0 to 255	9-359	Specifies R-Transaction Identifier.
RTRANSaction?		9-359	Returns R-Transaction Identifier.
SB *n*	1 or 0	9-349	Enables/disables Shortened Burst.
SB?		9-349	Returns state of SB.
SCC *n*	0 to 3	9-345	Specifies SAT Color Code.
SCC?		9-345	Returns SCC.
SERVice *n*	0 to 15	9-354	Specifies Service Code.
SERVice?		9-354	Returns Service Code.
SIGnal:			
CADence *n*	0 to 63	9-354	Specifies Signal Cadence.
CADence?		9-354	Returns Signal Cadence.
DURation *n*	0 to 15	9-354	Specifies Signal Duration.
DURation?		9-354	Returns Signal Duration.
PITCH *n*	0 to 3	9-354	Specifies Signal Pitch.
PITCH?		9-354	Returns Signal Pitch.
SOC *n*	0 to 4095	9-374	Specifies System Operator Code.
SOC?		9-374	Returns SOC.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
SPACH:			
SRM *n*	1 or 0	9-342	Enables/disables SPACH Response Mode.
SRM?		9-342	Returns state of SRM.
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-346	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-346	Returns selected Subaddress.
LENGth *n*	0 to 255	9-345	Specifies Length of Subaddress Info content.
LENGth?		9-345	Returns Length of Subaddress Info content.
ODD_EVEN *n*	1 or 0	9-346	Enables/disables Odd/Even Indicator.
ODD_EVEN?		9-346	Returns state of Odd/Even Indicator.
REServed *n*	0 to 15	9-346	Specifies number of subaddress Reserved.
REServed?		9-346	Returns number of subaddress Reserved fields.
TYPE *n*	0 to 7	9-346	Specifies Type of Subaddress.
TYPE?		9-346	Returns Type of Subaddress.
TA *n*	0 to 31	9-349	Specifies Time Alignment.
TA?		9-349	Returns TA.
UGID:			
LS *n*	0 to #hFFFFFFFF	9-341	Specifies 32 Least Significant Bits of User Group ID.
LS?		9-341	Returns 32 Least Significant Bits of User Group ID.
MS *n*	0 to #h3FFFF	9-341	Specifies 18 Most Significant Bits of User Group ID.
MS?		9-341	Returns 18 Most Significant Bits of User Group ID.
USER:			
DEST:			
ADDRess *"n"*	0 to 255	9-362	Specifies User Destination Address.
ADDRess?		9-362	Returns User Destination Address.
ENCoding *n*	1 or 0	9-362	Enables/disables User Destination Address Encoding.
ENCoding?		9-362	Returns state of User Destination Address Encoding.
PLANid *n*	0 to 15	9-362	Specifies User Destination Address Numbering Plan ID.
PLANid?		9-362	Returns User Destination Address Numbering Plan ID.
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-363	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-363	Returns selected Subaddress.
LENGth *n*	0 to 255	9-363	Specifies Length of Subaddress Info content.
LENGth?		9-363	Returns Length of Subaddress Info content.
ODD_EVEN *n*	1 or 0	9-363	Enables/disables Odd/Even Indicator.
ODD_EVEN?		9-363	Returns state of Odd/Even Indicator.
REServed *n*	0 to 15	9-363	Specifies number of subaddress Reserved fields.
REServed?		9-363	Returns number of subaddress Reserved fields.
TYPE *n*	0 to 7	9-363	Specifies Type of Subaddress.
TYPE?		9-363	Returns Type of Subaddress.
TYPE *n*	0 to 7	9-362	Specifies User Destination Address Type of Number.
TYPE?		9-362	Returns User Destination Address Type of Number.
GROUP:			
ID:			
LS *n*	0 to #hFFFFFFFF	9-364	Specifies 32 Least Significant Bits of User Group ID.
LS?		9-364	Returns 32 Least Significant Bits of User Group ID.
MS *n*	0 to #h3FFFF	9-364	Specifies 18 Most Significant Bits of User Group ID.
MS?		9-364	Returns 18 Most Significant Bits of User Group ID.
STATus *n*	0 to 3	9-364	Specifies User Group Status.
STATUS?		9-364	Returns User Group Status.
TYPE *n*	0 to 3	9-364	Specifies User Group Type.
TYPE?		9-364	Returns User Group Type.
ORIG:			
ADDRess *"n"*	0 to 255	9-365	Specifies User Originating Address.
ADDRess?		9-365	Returns User Originating Address.
ENCoding *n*	1 or 0	9-365	Enables/disables User Originating Address Encoding.
ENCoding?		9-365	Returns state of User Originating Address Encoding.
PLANid *n*	0 to 15	9-365	Specifies User Originating Address Numbering Plan ID.
PLANid?		9-365	Returns User Originating Address Numbering Plan ID.
PRESentation:			
PI *n*	0 to 3	9-367	Specifies User Originating Address Presentation Indicator.
PI?		9-367	Returns User Originating Address Presentation Indicator.
SI *n*	0 to 3	9-367	Specifies User Originating Address Screening Indicator.
SI?		9-367	Returns User Originating Address Screening Indicator.

COMMAND	RANGE	PAGE	DESCRIPTION
CSS:			
SPACH:			
USER:			
ORIG:			
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-366	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-366	Returns selected Subaddress.
LENGth *n*	0 to 255	9-366	Specifies Length of Subaddress Info content.
LENGth?		9-366	Returns Length of Subaddress Info content.
ODD_EVEN *n*	1 or 0	9-366	Enables/disables Odd/Even Indicator.
ODD_EVEN?		9-366	Returns state of Odd/Even Indicator.
REServed *n*	0 to 15	9-366	Specifies number of subaddress Reserved fields.
REServed?		9-366	Returns number of subaddress Reserved fields.
TYPE *n*	0 to 7	9-366	Specifies Type of Subaddress.
TYPE?		9-366	Returns Type of Subaddress.
TYPE *n*	0 to 7	9-365	Specifies User Originating Address Type of Number.
TYPE?		9-365	Returns User Originating Address Type of Number.
VMAC *n*	0 to 15	9-345	Specifies Voice Mobile Attenuation Code.
VMAC?		9-345	Returns VMAC.
STARt		9-177	Starts Cell Site Simulation transmission (Overhead Message on FOCC).
STOP		9-177	Stops Cell Site Simulation transmission.

TMAC SPECIAL EDITING COMMANDS

EDIT:			
ACTivity *n*	1 or 0	9-456	Enables/disables Edit Activity Flag.
ACTivity?		9-456	Returns state of Edit Activity Flag.
BIN? *key,old,x,y,nv*		9-455	Allows on-screen edit of an existing Binary Number. See Table 9-6 for details on each of the parameters.
DIGITS? *key,digits,x,y*		9-455	Allows on-screen edit of an existing Number Field up to 30 digits long and returns the resulting Number Field in a string. See Table 9-6 for details on each parameter.
FLOAT? *key,old,x,y,prec,min,max*		9-455	Allows on-screen edit of an existing Floating Point Number. See Table 9-6 for details on each of the parameters.
HEX? *key,old,x,y,nv*		9-455	Allows on-screen edit of an existing Hexadecimal Number. See Table 9-6 for details on each of the parameters.
INT? *key,old,x,y,min,max*		9-455	Allows on-screen edit of an existing Signed Number. See Table 9-6 for details on each of the parameters.
MIN? *key,MIN,x,y,wild*		9-455	Allows on-screen edit of an existing Mobile ID Number and returns the resulting MIN in a string. See Table 9-6 for details on each of the parameters.
TEXT? *key,old,x,y,lines,char,mode*		9-456	Allows on-screen edit of an existing variable length Text Message and returns the resulting Text Message in a string. See Table 9-6 for details on each of the parameters.
UINT? *key,old,x,y,min,max*		9-454	Allows on-screen edit of an existing Unsigned Number. See Table 9-6 for details on each of the parameters.

FDCCH DATA MONITOR

Queries for received data, return -1 if data is not available or has already been read.

FDCCH:			
BRI?		9-78	Returns Busy/Reserved/Idle.
CHANnel *n*	1 to 333 (U4), 1 to 1023 (U8), 1 to 1999 (HY)	9-66	Selects Forward Digital Control Channel to monitor.
CHANnel?		9-66	Returns Channel.
CONFigure:			
NONE		9-66	Same as FDCCH:SETup, except does not select screen.
USER		9-66	Same as FDCCH:SETup, exept selects user screen.
CPE?		9-78	Returns Coded Partial Echo.
CRC?		9-78	Returns CRC.
CSFP?		9-78	Returns Coded Super Frame Phase.
DVCC *n*	0 to 255	9-66	Specifies Digital Verification Color Code.
DVCC?		9-66	Returns DVCC.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
EBCCH:			
ALT_SOC:			
MAP:			
PSID_RSID? *n*	0 to 15	9-119	Returns selected SOC PSID/RSID Map.
NUMBer?		9-119	Returns Number of Alternate SOCs.
SOC? *n*	0 to 15	9-119	Returns selected SOC.
BC?		9-94	Returns state of Begin/Continue.
BI?		9-94	Returns state of Begin Indicator.
BSMC?		9-114	Returns Base Station Manufacture Code.
CHAN?		9-120	Returns CHAN.
CHANnel:			
GROUP:			
FIRST? *n*	0 to 63	9-114	Returns selected RF Channel Allocation Channel Group First Channel.
LAST? *n*	0 to 63	9-114	Returns selected RF Channel Allocation Channel Group Last Channel.
NUMber?		9-114	Returns RF Channel Allocation Number of Channel Groups.
PT?		9-114	Returns RF Channel Allocation Parameter Type.
CLI?		9-94	Returns Continuation Length Indicator.
CUSTOM:			
CONTrol? *n*	0 to 255	9-114	Returns selected Custom Control.
LENGth?		9-114	Returns Length of Custom Control in octets.
ECL?		9-94	Returns E-BCCH Cycle Length.
HYPERband:			
INFO?		9-120	Returns Hyperband Info.
PT?		9-120	Returns Hyperband Info Parameter Type.
IRA?		9-118	Returns state of IRA Support.
L3LI?		9-94	Returns Layer 3 Length Indicator.
MACA:			
EIGHT:			
CONTrol?		9-116	Returns state of MACA_8_CONTROL.
PT?		9-116	Returns MACA_8_CONTROL Parameter Type.
LIST:			
CHAN? *n*	0 to 15	9-116	Returns selected MACA_LIST CHAN.
NUMber?		9-116	Returns Number of MACA Channels.
OTHER:			
CHAN? *n*	0 to 15	9-117	Returns selected MACA_LIST (Other Hyperband) CHAN.
HYPERband?		9-117	Returns Hyperband.
NUMber?		9-117	Returns Number of MACA Channels.
PT?		9-117	Returns MACA_LIST (Other Hyperband) Parameter Type.
PT?		9-116	Returns MACA_LIST Parameter Type.
STATus?		9-116	Returns MACA_STATUS.
TYPE?		9-116	Returns MACA_TYPE.
MAP:			
ARQ?		9-118	Returns state of FACCH/SACCH ARQ Map.
CODER?		9-117	Returns Voice Coder Map.
DPM?		9-117	Returns Data Privacy Mode Map.
MEA:			
ALGORithms? *n*	0 to 7	9-118	Returns selected Message Encryption Algorithm.
DOMAIN?		9-118	Returns Message Encryption Algorithm Domain Map.
MEK?		9-118	Returns Message Encryption Key Map.
MENU?		9-118	Returns Menu Map.
SMS?		9-118	Returns SMS Map.
USER?		9-118	Returns state of User Group Map.
VPM?		9-117	Returns Voice Privacy Mode Map.
MCC:			
CODE?		9-120	Returns Mobile Country Code.
PT?		9-120	Returns Mobile Country Code Parameter Type.
MSGtype?		9-94	Returns Message Type.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
EBCCH:			
NEIGHbor:			
ANAlog:			
CELL:			
ACCess:			
MS_PWR? *n*	0 to 31	9-101	Returns selected Neighbor Cell List (Analog) MS_ACC_PWR.
RSS_MIN? *n*	0 to 31	9-101	Returns selected Neighbor Cell List (Analog) RS_ACC_MIN.
CHAN? *n*	0 to 31	9-99	Returns selected Neighbor Cell List (Analog) CHAN.
DCC? *n*	0 to 31	9-100	Returns selected Neighbor Cell List (Analog) DCC.
DELay? *n*	0 to 31	9-100	Returns selected Neighbor Cell List (Analog) DELAY.
HL_FREQ? *n*	0 to 31	9-100	Returns state of selected Neighbor Cell List (Analog) HL_FREQ.
OFFset? *n*	0 to 31	9-100	Returns selected Neighbor Cell List (Analog) RESEL_OFFSET.
PROTocol? *n*	0 to 31	9-99	Returns selected Neighbor Cell List (Analog) Protocol Version.
RETRY? *n*	0 to 31	9-101	Returns state of selected Neighbor Cell List (Analog) Directed Retry Channel.
SS_SUFF? *n*	0 to 31	9-100	Returns selected Neighbor Cell List (Analog) SS_SUFF.
TYPE:			
CELL? *n*	0 to 31	9-100	Returns selected Neighbor Cell List (Analog) CELLTYPE.
NETwork? *n*	0 to 31	9-100	Returns selected Neighbor Cell List (Analog) Network Type.
MULti:			
ACCess:			
MS_PWR? *n*	0 to 23	9-109	Returns selected Neighbor Cell List (Analog) MS_ACC_PWR.
RSS_MIN? *n*	0 to 23	9-109	Returns selected Neighbor Cell List (Analog) RS_ACC_MIN.
CHAN? *n*	0 to 23	9-107	Returns selected Neighbor Cell List (Analog) CHAN.
DCC? *n*	0 to 23	9-108	Returns selected Neighbor Cell List (Analog) DCC.
DELay? *n*	0 to 23	9-108	Returns selected Neighbor Cell List (Analog) DELAY.
HL_FREQ? *n*	0 to 23	9-108	Returns selected Neighbor Cell List (Analog) HL_FREQ.
NUMBer?		9-107	Returns Number of Analog Neighbor Cells.
OFFset? *n*	0 to 23	9-108	Returns selected Neighbor Cell List (Analog) RESEL_OFFSET.
PROTocol? *n*	0 to 23	9-107	Returns selected Neighbor Cell List (Analog) Protocol Version.
PT?		9-107	Returns Neighbor Cell List (Analog) Parameter Type.
RETRY? *n*	0 to 23	9-109	Returns selected Neighbor Cell List (Analog) Directed Retry Channel.
SS_SUFF? *n*	0 to 23	9-108	Returns selected Neighbor Cell List (Analog) SS_SUFF.
TYPE:			
CELL? *n*	0 to 23	9-108	Returns selected Neighbor Cell List (Analog) CELLTYPE.
NETwork? *n*	0 to 23	9-108	Returns selected Neighbor Cell List (Analog) Network Type.
OTHER:			
HYPERband?		9-109	Returns Neighbor Cell List (Other Hyperband).
INFO:			
COUNt?		9-113	Returns TDMA Service Info (Other Hyperband) Neighbor Count.
HYPERband?		9-113	Returns TDMA Service Info (Other Hyperband).
PT?		9-113	Returns TDMA Service Info (Other Hyperband) Parameter Type.
SERVice:			
INDicator? *n*	0 to 31	9-113	Returns state of selected TDMA Service Info (Other Hyperband) Service Map Indicator.
MAP? *n*	0 to 31	9-113	Returns selected TDMA Service Info (Other Hyperband) Service Map.
MULti:			
ACCess:			
MS_PWR? *n*	0 to 31	9-112	Returns selected Neighbor Cell List (Other Hyperband) MS_ACC_PWR.
RSS_MIN? *n*	0 to 31	9-112	Returns selected Neighbor Cell List (Other Hyperband) RSS_ACC_MIN.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
EBCCH:			
NEIGHbor:			
OTHER:			
MULti:			
CHAN? *n*	0 to 31	9-110	Returns selected Neighbor Cell List (Other Hyperband) CHAN.
DELay? *n*	0 to 31	9-110	Returns selected Neighbor Cell List (Other Hyperband) DELAY.
DVCC? *n*	0 to 31	9-110	Returns selected Neighbor Cell List (Other Hyperband) DVCC.
HL_FREQ? *n*	0 to 31	9-111	Returns state of selected Neighbor Cell List (Other Hyperband) HL_FREQ.
OFFset? *n*	0 to 31	9-110	Returns selected Neighbor Cell List (Other Hyperband) RESEL_OFFSET.
PROTocol? *n*	0 to 31	9-110	Returns selected Neighbor Cell List (Other Hyperband) Protocol Version.
PSID_RSID:			
INDicator? *n*	0 to 31	9-112	Returns state of selected Neighbor Cell List (Other Hyperband) PSID/RSID Indicator.
LENGth? *n*	0 to 31	9-112	Returns selected Neighbor Cell List (Other Hyperband) PSID/RSID Support Length.
SUPport? *n*	0 to 31	9-112	Returns selected Neighbor Cell List (Other Hyperband) PSID/RSID Support.
RETRY? *n*	0 to 31	9-111	Returns state of selected Neighbor Cell List (Other Hyperband) Directed Retry Channel.
SS_SUFF? *n*	0 to 31	9-110	Returns selected Neighbor Cell List (Other Hyperband) SS_SUFF.
SYNC? *n*	0 to 31	9-111	Returns state of selected Neighbor Cell List (Other Hyperband) SYNC.
TYPE:			
CELL? *n*	0 to 31	9-111	Returns selected Neighbor Cell List (Other Hyperband) CELLTYPE.
NETwork? *n*	0 to 31	9-111	Returns selected Neighbor Cell List (Other Hyperband) Network Type.
NUMber?		9-109	Returns Number of Neighbor Cells (Other Hyperband).
PT?		9-109	Returns Neighbor Cell List (Other Hyperband) Parameter Type.
TDMA:			
CELL:			
ACCess:			
MS_PWR? *n*	0 to 31	9-97	Returns selected TDMA Neighbor Cell MS_ACC_PWR.
RSS_MIN? *n*	0 to 31	9-97	Returns selected TDMA Neighbor Cell RSS_ACC_MIN.
CHAN? *n*	0 to 31	9-95	Returns selected TDMA Neighbor Cell CHAN.
DELay? *n*	0 to 31	9-96	Returns selected TDMA Neighbor Cell DELAY.
DVCC? *n*	0 to 31	9-96	Returns selected TDMA Neighbor Cell DVCC.
HL_FREQ? *n*	0 to 31	9-96	Returns state of selected TDMA Neighbor Cell HL_FREQ.
OFFset? *n*	0 to 31	9-96	Returns selected TDMA Neighbor Cell RESEL_OFFSET.
PROTocol? *n*	0 to 31	9-95	Returns selected TDMA Neighbor Cell Protocol Version.
PSID_RSID:			
INDicator? *n*	0 to 31	9-98	Returns state of selected TDMA Neighbor Cell PSID/RSID Indicator.
LENGth? *n*	0 to 31	9-98	Returns selected TDMA Neighbor Cell PSID/RSID Support Length.
SUPport? *n*	0 to 31	9-98	Returns selected TDMA Neighbor Cell PSID/RSID Support.
RETRY? *n*	0 to 31	9-97	Returns state of selected TDMA Neighbor Cell Directed Retry Channel.
SS_SUFF? *n*	0 to 31	9-96	Returns selected TDMA Neighbor Cell SS_SUFF.
SYNC? *n*	0 to 31	9-96	Returns state of selected TDMA Neighbor Cell SYNC.
TYPE:			
CELL? *n*	0 to 31	9-97	Returns selected TDMA Neighbor Cell CELLTYPE.
NETwork? *n*	0 to 31	9-97	Returns selected TDMA Neighbor Cell Network Type.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
EBCCH:			
NEIGHbor:			
TDMA:			
INFO:			
COUNt?		9-102	Returns TDMA Neighbor Count.
PT?		9-102	Returns TDMA Service Info Parameter Type.
SERVice:			
INDicator? *n*	0 to 31	9-102	Returns state of selected TDMA Service Map Indicator.
MAP? *n*	0 to 31	9-102	Returns selected TDMA Service Map.
MULti:			
ACCess:			
MS_PWR? *n*	0 to 23	9-105	Returns selected TDMA Neighbor Cell MS_ACC_PWR.
RSS_MIN? *n*	0 to 23	9-105	Returns selected TDMA Neighbor Cell RSS_ACC_MIN.
CHAN? *n*	0 to 23	9-103	Returns selected TDMA Neighbor Cell CHAN.
DELay? *n*	0 to 23	9-104	Returns selected TDMA Neighbor Cell DELAY.
DVCC? *n*	0 to 23	9-104	Returns selected TDMA Neighbor Cell DVCC.
HL_FREQ? *n*	0 to 23	9-104	Returns selected TDMA Neighbor Cell HL_FREQ.
NUMBer?		9-103	Returns Number of TDMA Neighbor Cells.
OFFset? *n*	0 to 23	9-104	Returns selected TDMA Neighbor Cell RESEL_OFFSET.
PROTocol? *n*	0 to 23	9-103	Returns selected TDMA Neighbor Cell Protocol Version.
PSID_RSID:			
INDicator? *n*	0 to 23	9-106	Returns selected TDMA Neighbor Cell PSID/RSID Indicator.
LENGth? *n*	0 to 23	9-106	Returns selected TDMA Neighbor Cell Support Length.
SUPport? *n*	0 to 23	9-106	Returns selected TDMA Neighbor Cell Support.
PT?		9-103	Returns Neighbor Cell List (TDMA) Parameter Type.
RETRY? *n*	0 to 23	9-105	Returns selected TDMA Neighbor Cell Directed Retry Channel.
SS_SUFF? *n*	0 to 23	9-104	Returns selected TDMA Neighbor Cell SS_SUF.
SYNC? *n*	0 to 23	9-104	Returns selected TDMA Neighbor Cell SYNC.
TYPE:			
CELL? *n*	0 to 23	9-105	Returns selected TDMA Neighbor Cell CELLTYPE.
NETwork? *n*	0 to 23	9-105	Returns selected TDMA Neighbor Cell Network Type.
NUMber?		9-95	Returns Number of TDMA Neighbor Cells.
PT?		9-95	Returns Neighbor Cell List (TDMA) Parameter Type.
NONPublic:			
PROBability:			
BLOCk?		9-95	Returns Non-Public Probability Block.
LENGth?		9-95	Returns Non-Public Probability Block Length.
PT?		9-95	Returns Non-Public Probability Block Parameter Type.
OATS?		9-118	Returns OATS Support.
PD?		9-94	Returns Protocol Discriminator.
RCI?		9-113	Returns RCI.
SERV_SS?		9-94	Returns SERV_SS.
SID?		9-120	Returns System ID.
SIGnal:			
CADence?		9-115	Returns Signal Cadence.
DURation?		9-115	Returns Signal Duration.
PITCH?		9-115	Returns Signal Pitch.
PT?		9-115	Returns Signal Parameter Type.
SOC?		9-119	Returns System Operator Code.
TEXT:			
CHARacter? *n*	0 to 251	9-115	Returns selected Text Message Data Unit Short Message Character.
ENCoding?		9-115	Returns Text Message Data Unit Encoding Identifier.
LENGth?		9-115	Returns Length of Text Message Data Unit in octets.
REServed?		9-115	Returns Text Message Data Unit Reserved.
TIME?		9-119	Returns Time from Jan 1, 1980 (32 bit value).
ZONE:			
DIRection?		9-119	Returns state of Time Zone Offset Direction.
DST?		9-119	Returns state of Time Zone Offset Daylight Savings Indicator.
MINutes?		9-119	Returns Time Zone Offset Minutes.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
FBCCH:			
ACCess:			
BURSTsize?		9-84	Returns state of Access Burst Size.
MS_PWR?		9-84	Returns MS_ACC_PWR (Mobile Station Access Power).
RSS_MIN?		9-84	Returns RSS_ACC_MIN (Minimum Access Received Signal Strength).
ADDitional:			
CHANnel? *n*	0 to 7	9-86	Returns selected Additional DCCH Channel Information.
NUMber?		9-85	Returns Number of Additional DCCH Channels.
PT?		9-85	Returns Additional DCCH Information Parameter Type.
SLOT? *n*	0 to 7	9-86	Returns selected Additional Slot Information.
ALPHA:			
SID:			
CHARacters?		9-89	Returns selected Alphanumeric SID.
LENGth?		9-89	Returns Length of Alphanumeric System ID.
PT?		9-89	Returns Alphanumeric SID Parameter Type.
ALT_SOC:			
MAP:			
PSID_RSID? *n*	0 to 15	9-93	Returns selected SOC PSID/RSID Map.
NUMBer?		9-93	Returns Number of Alternate SOCs.
SOC? *n*	0 to 15	9-93	Returns selected SOC.
AUTH?		9-83	Returns state of AUTH.
BARred?		9-84	Returns Cell Barred.
BC?		9-80	Returns Begin/Continue.
BI?		9-80	Returns Begin Indicator.
BSMC?		9-89	Returns Base Station Manufacture Code.
CAPability?		9-87	Returns state of Capability Request.
CBN:			
HIGH?		9-82	Returns CBN_High.
PT?		9-82	Returns CBN_High Parameter Type.
CLI?		9-80	Returns Continuation Length Indicator.
CONfiguration?		9-82	Returns Slot Configuration.
CUSTOM:			
CONTrol? *n*	0 to 255	9-89	Returns selected Custom Control,
LENGth?		9-89	Returns Length of Custom Control.
DELay?		9-85	Returns DELAY.
DEREG?		9-86	Returns state of DEREG.
DIC?		9-85	Returns state of Delay Interval Compensation Mode.
DVCC?		9-82	Returns Digital Verification Color Code.
EC?		9-80	Returns E-BCCH Change.
EXTended:			
COUNt?		9-81	Returns Extended Hyperframe Counter.
PT?		9-81	Returns Extended Hyperframe Counter Parameter Type.
FC?		9-80	Returns F-BCCH Change.
FOREG?		9-87	Returns state of FOREG.
HYPERframe?		9-81	Returns Hyperframe Counter.
INITial?		9-85	Returns state of Initial Selection Control.
IRA?		9-93	Returns state of IRA Support.
L3LI?		9-80	Returns Layer 3 Length Indicator.
LAREG?		9-86	Returns state of LAREG.
MACA:			
EIGHT:			
CONTrol?		9-90	Returns state of MACA_8_CONTROL.
PT?		9-90	Returns MACA_8_CONTROL Parameter Type.
LIST:			
CHAN? *n*	0 to 15	9-90	Returns selected MACA_LIST CHAN.
NUMber?		9-90	Returns Number of MACA Channels.
OTHER:			
CHAN? *n*	0 to 15	9-91	Returns selected MACA_LIST (Other Hyperband) CHAN.
HYPERband?		9-91	Returns Hyperband (Other Hyperband).
NUMber?		9-91	Returns Number of MACA Channels (Other Hyperband).
PT?		9-91	Returns MACA_LIST (Other Hyperband) Parameter Type.
PT?		9-90	Returns MACA_LIST Parameter Type.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
FBCCH:			
MACA:			
STATus?		9-90	Returns MACA_STATUS.
TYPE?		9-90	Returns MACA_TYPE.
MAP:			
ARQ?		9-92	Returns state of FACCH/SACCH ARQ Map.
AUTH?		9-91	Returns AUTH Map.
CODER?		9-92	Returns Voice Coder Map.
DPM?		9-92	Returns Data Privacy Mode Map.
MEA:			
ALGORithms? *n*	0 to 7	9-92	Returns selected Message Encryption Algorithm.
DOMAIN?		9-92	Returns Message Encryption Algorithm Domain Map.
MEK?		9-92	Returns Message Encryption Key Map.
MENU?		9-92	Returns Menu Map.
REG_INFO?		9-93	Returns Reg-Info Map.
SMS?		9-93	Returns SMS Map.
USER?		9-92	Returns state of User Group Map.
VPM?		9-91	Returns Voice Privacy Mode Map.
MAX:			
BUSY?		9-84	Returns state of Max Busy/Reserved.
REPetitions?		9-84	Returns Max Repetitions.
RETries?		9-84	Returns Max Retries.
STOP?		9-84	Returns state of Max Stop Counter.
MCC:			
CODE?		9-89	Returns Mobile Country Code.
PT?		9-89	Returns Mobile Country Code Parameter Type.
MSGtype?		9-80	Returns Message Type.
NETwork?		9-88	Returns Network Type.
NONPublic:			
PROBability:			
BLOCk?		9-83	Returns Non-Public Block Map.
LENGth?		9-83	Returns Non-Public Map Length.
PT?		9-83	Returns Non-Public Probability Block Parameter Type.
REGistration:			
CONTrol?		9-83	Returns Non-Public Registration Control.
PT?		9-83	Returns Non-Public Registration Control Parameter Type.
NUMber:			
EBCCH?		9-81	Returns Number of E-BCCH.
FBCCH?		9-81	Returns Number of F-BCCH.
NON_PCH?		9-81	Returns Number of Non-PCH Subchannel Slots.
REServed?		9-81	Returns Number of Reserved Slots.
SBCCH?		9-81	Returns Number of S-BCCH.
OATS?		9-93	Returns state of OATS Support.
OLC?		9-91	Returns Overload Control.
PCH?		9-82	Returns Paging Channel Displacement.
PD?		9-80	Returns Protocol Discriminator.
PDREG?		9-86	Returns state of PDREG.
PFC?		9-82	Returns Maximum Supported Paging Frame Class.
PFM?		9-82	Returns state of Paging Frame Modifier Direction.
PROTocol?		9-88	Returns Protocol Version.
PSID_RSID:			
NUMber?		9-88	Returns Number of PSID/RSID.
PT?		9-88	Returns PSID/RSID Set Parameter Type.
SOC?		9-88	Returns PSID/RSID SOC.
TYPE? *n*	0 to 15	9-88	Returns state of selected TYPE of PSID/RSID.
VALUE? *n*	0 to 15	9-88	Returns selected VALUE of PSID/RSID.
PUREG?		9-86	Returns state of PUREG.
RAND?		9-83	Returns 32 bit RAND.
RDATA:			
LENGth?		9-84	Returns R-DATA Message Length.
REGH?		9-86	Returns state of REGH.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
FBCCH:			
REGID:			
ID?		9-87	Returns REGID.
PER?		9-87	Returns Registration ID Period.
PT?		9-87	Returns REGID Parameter Type.
REGistration:			
PERiod?		9-87	Returns Registration Period.
PT?		9-87	Returns Registration Period Parameter Type.
REGR?		9-86	Returns state of REGR.
RNUM:			
NUMber?		9-87	Returns Present RNUM.
PT?		9-87	Returns Present RNUM Parameter Type.
S?		9-83	Returns state of S.
SCAN:			
INTerval?		9-85	Returns SCANINTERVAL.
OPTion?		9-85	Returns state of Scanning Option Indicator.
SID?		9-88	Returns System ID.
SOC?		9-93	Returns System Operator Code.
SS_SUFF?		9-85	Returns Signal Strength Sufficient.
SUBaddressing?		9-85	Returns state of Subaddressing Support.
SUPERframe?		9-81	Returns state of Primary Superframe indicator.
SYREG?		9-86	Returns state of SYREG.
LAYER2:			
DECode *n*	0 to 99	9-70	Decodes frame of data in selected raw buffer.
EBCCH:			
BC?		9-72	Returns state of Begin/Continue.
BI? *n*	0 to 3	9-72	Returns state of selected Begin Indicator.
CLI?		9-72	Returns Continuation Length Indicator.
CRC?		9-72	Returns Cyclic Redundancy Code.
ECL?		9-72	Returns E-BCCH Cycle Length.
L3DATA? *n,x*	0 to 3, 0 to 15	9-73	Returns selected byte (x) of selected Layer 3 Data message.
L3LI? *n*	0 to 3	9-73	Returns selected Layer 3 Length Indicator.
RSVD?		9-73	Returns state of E-BCCH Layer 2 Reserved.
FBCCH:			
BC?		9-71	Returns state of Begin/Continue.
BI? *n*	0 to 3	9-71	Returns state of selected Begin Indicator.
CLI?		9-71	Returns Continuation Length Indicator.
CRC?		9-71	Returns Cyclic Redundancy Code.
EC?		9-71	Returns state of E-BCCH Change.
FC?		9-71	Returns state of F-BCCH Change.
L3DATA? *n,x*	0 to 3, 0 to 15	9-71	Returns selected byte (x) of selected Layer 3 Data message.
L3LI? *n*	0 to 3	9-72	Returns selected Layer 3 Length Indicators.
SPACH:			
ARM?		9-74	Returns state of ARQ Response Mode.
ARQ_RSVD?		9-74	Returns ARQ Layer 2 frame RSVD.
BCN?		9-74	Returns state of BCCH Change Notification.
BT?		9-74	Returns Burst Type.
BU?		9-74	Returns Burst Usage.
CRC?		9-74	Returns Cyclic Redundancy Code.
EH_RSVD?		9-74	Returns state of Extended Header RSVD.
FRNO?		9-74	Returns Frame Number.
GA?		9-74	Returns state of Go Away.
HA_RSVD?		9-74	Returns state of SPACH Header A_RSVD.
IDT?		9-74	Returns Identity Type.
L3DATA? *n,x*	0 to 3, 0 to 15	9-75	Returns selected byte (x) of selected Layer 3 Data message.
L3LENGTH? *n*	0 to 3	9-75	Returns selected Layer 3 Length.
L3LI? *n*	0 to 3	9-75	Returns selected Layer 3 Length Indicator.
MEA?		9-75	Returns Message Encryption Mode.
MEK?		9-75	Returns Message Encryption Key.
MM?		9-75	Returns state of Message Mapping.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
LAYER2:			
SPACH:			
MSID:			
LS? *n*	0 to 4	9-76	Returns 32 Least Significant bits of selected Mobile Station ID.
MS? *n*	0 to 4	9-76	Returns 18 Most Significant bits of selected Mobile Station ID.
MSID? *n,x*	*n* = 0 to 4, *x* = 0 to 2, 4 or 6	9-76	Returns selected byte (x) of selected Mobile Station Identity.
PCON?		9-76	Returns state of PCH Continuation.
PEA?		9-76	Returns Partial Echo Assigned.
PFM?		9-76	Returns state of Paging Frame Modifier.
PI?		9-76	Returns state of Polling Indicator.
SRM?		9-76	Returns state of SPACH Response Mode.
UGID:			
LS?		9-77	Returns 32 Least Significant bits of User Group ID.
MS?		9-77	Returns 18 Most Significant bits of User Group ID.
UGID? *n,x*	*n* = 0 to 4, *x* = 0 to 2, 4 or 6	9-77	Returns selected byte (x) of selected User Group Identity.
TYPE?		9-70	Returns type of data decoded.
R_N?		9-78	Returns Received/Not received.
RATE *n*	0 = Full, 1 = Half	9-67	Selects TDMA transmission rate.
RATE?		9-67	Returns setting of Rate.
RAW:			
CSFP? *n*	0 to 99	9-69	Returns Coded Super Frame Phase in selected raw data frame.
DATA? *n,x*	0 to 99, 0 to 15	9-69	Returns selected raw data byte (x) in selected raw data frame.
FULL?		9-69	Returns state of raw buffer: 1 = full, 0 = not full.
SCF? *n*	0 to 99	9-69	Returns Shared Channel Feedback in selected raw data frame.
STARt		9-69	Starts capturing raw data on FDCCH.
STOP		9-69	Stops capturing raw data on FDCCH.
SYNC? *n*	0 to 99	9-69	Returns Sync word in selected raw data frame.
TS? *n*	0 to 99	9-69	Returns Time Stamp in ms of selected raw data frame.
REMote:			
RAW:			
DVCC *n*	1 to 255	9-68	Specifies Digital Verification Color Code.
STARt		9-68	Starts sending received, de-interleaved and decoded data out OPT. RS-232 Connector.
STOP		9-68	Stops sending data out OPT. RS-232 Connector.
TIMEslot:			
STARt		9-67	Starts sending received Timeslot data out OPT. RS-232 Connector.
STOP		9-67	Stops sending received Timeslot data out OPT. RS-232 Connector.
SYNC *n*	1 or 0	9-67	Enables/disables sync word.
SCF?		9-78	Returns Share Channel Feedback (22 bit value).
SETup		9-66	Configures Sp Tst to receive on the FDCCH.
SLOT *n*	1 to 3	9-67	Selects the full or half rate SLOT on which to receive.
SLOT?		9-67	Returns Slot.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
SPACH:			
Data returned from the SPACH portion of the FDCCH Data Monitor is retrieved from the selected L3DATA Message.			
ALPHA:			
PSID_RSID:			
LENGth?		9-149	Returns Length of Alphanumeric PSID/RSID List.
NAME:			
CHARacters? *n*	0 to 15	9-149	Returns selected Alphanumeric PSID/RSID Display Characters.
LENGth? *n*	0 to 15	9-149	Returns selected Length of PSID/RSID Alphanumeric Name.
PT?		9-149	Returns Alphanumeric PSID/RSID List Parameter Type.
SID:			
CHARacters?		9-149	Returns Alphanumeric System ID.
SID:			
LENGth?		9-149	Returns Length of Alphanumeric System ID.
SID:			
PT?		9-149	Returns Alphanumeric System ID Parameter Type.
ARM?		9-123	Returns state of ARQ Response Mode.
ATS?		9-127	Returns ATS.
AUTHBS?		9-126	Returns AUTHBS.
BCN?		9-121	Returns state of BCCH Change Notification.
BSMC?		9-127	Returns Base Station Manufacture Code.
BT?		9-121	Returns Burst Type.
BU?		9-121	Returns Burst Usage.
CALLED:			
ADDRess?		9-132	Returns Called Party Address.
ENCoding?		9-132	Returns state of Called Party Address Encoding.
LENGth?		9-132	Returns Called Party Length of Address Info.
PLANid?		9-132	Returns Called Party Numbering Plan ID.
PT?		9-132	Returns Called Party Parameter Type.
SUBaddress:			
ADDRess? *n*	0 to 19	9-133	Returns selected Called Party Subaddress.
LENGth?		9-133	Returns Length of Called Party Subaddress Info.
ODD_EVEN?		9-133	Returns state of Called Party Subaddress Odd/Even Indicator.
PT?		9-133	Returns Called Party Subaddress Parameter Type.
REServed?		9-133	Returns combination of two Called Party Subaddress Reserved fields.
TYPE?		9-133	Returns Type of Called Party Subaddress.
TYPE?		9-132	Returns Called Party Type of Number.
CALLING:			
ADDRess?		9-134	Returns Calling Party Number Address.
ENCoding?		9-134	Returns state of Calling Party Address Encoding.
LENGth?		9-134	Returns Calling Party Length of Address Info.
PLANid?		9-134	Returns Calling Party Number Plan ID.
PRESentation:			
PI?		9-136	Returns Presentation Indicator.
PT?		9-136	Returns Calling Party Presentation Indicator Parameter Type.
SI?		9-136	Returns Screening Indicator.
PT?		9-134	Returns Calling Party Number Parameter Type available.
SUBaddress:			
ADDRess? *n*	0 to 19	9-135	Returns selected Calling Party Subaddress.
LENGth?		9-135	Returns Calling Party Length of Subaddress Info.
ODD_EVEN?		9-135	Returns state of Calling Party Subaddress Odd/Even Indicator.
PT?		9-135	Returns Calling Party Subaddress Parameter Type.
REServed?		9-135	Returns combination of two Calling Party Subaddress Reserved fields.
TYPE?		9-135	Returns Calling Party Type of Subaddress.
TYPE?		9-134	Returns Type of Calling Party Number.
CHAN?		9-125	Returns CHAN.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
SPACH:			
CUSTOM:			
CONTrol? *n*	0 to 255	9-127	Returns selected Custom Control.
LENGth?		9-127	Returns Length of Custom Control in octets.
DEBUG?		9-126	Returns state of Debug Display Allowed.
DIRectory:			
ADDRess?		9-145	Returns Directory Address.
ENCoding?		9-145	Returns state of Directory Address Encoding.
LENGth?		9-145	Returns Director Length of Address Info.
PLANid?		9-145	Returns Directory Address ID Plan.
PT?		9-145	Returns Directory Address Parameter Type.
SUBaddress:			
ADDRess? *n*	0 to 19	9-146	Returns selected Directory Subaddress.
LENGth?		9-146	Returns Directory Length of Subaddress Info.
ODD_EVEN?		9-146	Returns state of Directory Subaddress Odd/Even Indicator.
PT?		9-146	Returns Directory Subaddress Parameter Type.
REServed?		9-146	Returns combination of two Directory Subaddress Reserved fields.
TYPE?		9-146	Returns Directory Type of Subaddress.
TYPE?		9-145	Returns Directory Address Type of Number.
DISPlay:			
CHARacter? *n*	0 to 81	9-126	Returns selected Display Character.
LENGth?		9-126	Returns Length of Display Info.
PT?		9-126	Returns Display Parameter Type.
DMAC?		9-127	Returns DMAC.
DTX:			
PT?		9-126	Returns DTX Support Parameter Type.
SUPport?		9-126	Returns DTX Support.
DVCC?		9-127	Returns DVCC.
EHI?		9-123	Returns state of Extended Header Information.
FLAG:			
AUTH?		9-129	Returns state of AUTH flag.
PT?		9-129	Returns RCF and AUTH flags Parameter Type.
RCF?		9-129	Returns state of RCF flag.
FRNO?		9-123	Returns Frame Number.
GA?		9-123	Returns state of Go Away.
HYPERband:			
INFO?		9-129	Returns Hyperband Info.
PT?		9-129	Returns Hyperband Info Parameter Type.
IDT?		9-121	Returns Identity Type.
L3DATA:			
SELect *n*	0 to 3	9-124	Returns selected MIN.
SELect?		9-124	Returns number of selected L3DATA Message.
L3LI?		9-123	Returns Layer 3 Length Indicator.
LT?		9-129	Returns state of Last Try.
MACA:			
LIST:			
CHAN? *n*	0 to 15	9-150	Returns CHAN for selected MACA Channel.
NUMBer?		9-150	Returns Number of MACA Channels.
OTHER:			
CHAN? *n*	0 to 15	9-150	Returns CHAN of selected MACA Channel for MACA_LIST (Other Hyperband).
HYPERband?		9-150	Returns Hyperband for MACA_LIST (Other Hyperband).
NUMBer?		9-150	Returns Number of MACA Channel for MACA_LIST (Other Hyperband).
MEA?		9-123	Returns Message Encryption Algorithm.
MEK?		9-123	Returns Message Encryption Key.
MEM?		9-124	Returns state of Message Encryption Mode.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
SPACH:			
MESSage:			
CENTer:			
ADDRess?		9-138	Returns Message Center Address.
ENCoding?		9-137	Returns state of Message Center Address Encoding.
LENGth?		9-137	Returns Message Center Length of Address Info.
PLANid?		9-137	Returns Message Center Numbering Plan ID.
PT?		9-137	Returns Message Center Address Parameter Type.
TYPE?		9-137	Returns Message Center Address Type of Number.
MM?		9-122	Returns state of Message Mapping.
MODE:			
DIC?		9-128	Returns state of Delay Interval Compensation Mode.
MEM:			
MEA?		9-128	Returns Message Encryption Algorithm.
MED?		9-128	Returns Message Encryption Domain.
MEK?		9-128	Returns Message Encryption Key.
PT?		9-128	Returns Message Encryption Mode Parameter Type.
VOICE:			
PM_V?		9-128	Returns Voice Privacy Mode.
PT?		9-128	Returns Voice Mode Parameter Type.
VC?		9-128	Returns Voice Coder.
MSGtype?		9-124	Returns Message Type.
MSGWTG:			
NUMber? *n*	0 to 15	9-130	Returns selected Number of Messages Waiting.
NV?		9-130	Returns Message Waiting Info Number of Values.
TYPE? *n*	0 to 15	9-130	Returns selected Type of Message Waiting.
MSID:			
ASSIGNment?		9-121	Returns MSID Assignment.
IDT?		9-121	Returns MSID Assignment IDT.
LS? *n*	0 to 4	9-122	Returns selected 32 Least Significant bits of Mobile Station ID.
MIN? *n*	0 to 3	9-122	Returns selected MIN.
MS? *n*	0 to 4	9-122	Returns selected 18 Most Significant bits of Mobile Station ID.
PT?		9-121	Returns MSID Assignment Parameter Type.
NOTification?		9-148	Returns SPACH Notification.
PCON?		9-121	Returns state of PCH Continuation.
PD?		9-124	Returns Protocol Discriminator.
PEA?		9-122	Returns Partial Echo Assigned.
PFC:			
ASSIGNment?		9-143	Returns PFC Assignment.
PFC:			
PT?		9-143	Returns PFC Assignment Parameter Type.
PFM?		9-121	Returns state of Paging Frame Modifier.
PI?		9-122	Returns state of Polling Indicator.
PROTocol?		9-125	Returns Protocol Version.
PSID_RSID:			
AVAILable:			
NUMber?		9-144	Returns Number of PSID/RSID.
PT?		9-144	Returns PSID/RSID Available Parameter Type.
TYPE? *n*	0 to 15	9-144	Returns state of selected PSID/RSID Type Indicator.
VALUE? *n*	0 to 15	9-144	Returns state of selected PSID/RSID Value.
MAP?		9-144	Returns PSID/RSID Map.
QUEue:			
POSition?		9-150	Returns Queue Position.
RANDSSD1?		9-148	Returns 24 most significant bits of RANDSSD.
RANDSSD2?		9-148	Returns 32 least significant bits of RANDSSD.
RANDU?		9-150	Returns RANDU (24 bit value).
RDATA:			
DELAY?		9-143	Returns R-DATA Delay.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
SPACH:			
RDATA_UNIT:			
HLP:			
DATA? *n*	0 to 254	9-137	Returns selected Higher Layer Protocol Data Unit.
IDentifier?		9-137	Returns R-Data Unit Higher Layer Protocol Identifier.
LENGth?		9-136	Returns R-Data Unit Length.
REJect:			
RDATA:			
CAUSE?		9-147	Returns R-CAUSE.
RDATA:			
SPARE?		9-147	Returns state of R-CAUSE Spare.
REGistration:			
CAUSE?		9-147	Returns Registration Reject Cause.
TIME:			
LOWer?		9-147	Returns Reject Lower Time Boundary in 100 SF.
PT?		9-147	Returns Reject Time Parameter Type.
UPPer?		9-147	Returns Reject Upper Time Boundary in 100 SF.
RELease:			
CAUSE?		9-147	Returns Release Cause.
REorder:			
CAUSE?		9-148	Returns Reorder/Intercept Cause.
TONE?		9-148	Returns Tone Indicator.
REREG?		9-126	Returns state of Forced Re-registration.
RETRY:			
CHANnel? *n*	0 to 5	9-130	Returns CHAN for selected Retry Channel.
HYPERband? *n*	0 to 5	9-130	Returns Hyperband for selected Retry Channel.
NUMBer?		9-130	Returns Number of instances of Retry Channel.
RN?		9-136	Returns Request Number.
RNUM:			
LIST? *n*	0 to 49	9-143	Returns selected RNUM.
NUMber?		9-143	Returns Number of RNUMs.
PT?		9-143	Returns RNUM List Parameter Type.
RTRANSaction?		9-136	Returns R-Transaction Identifier.
SB?		9-127	Returns selected SB.
SCC?		9-124	Returns SAT Color Code.
SERVice?		9-130	Returns Service Code.
SFP?		9-123	Returns Superframe Phase.
SIGnal:			
CADence?		9-131	Returns Signal Cadence.
DURation?		9-131	Returns Signal Duration.
PITCH?		9-131	Returns Signal Pitch.
PT?		9-131	Returns Signal Parameter Type.
SOC?		9-148	Returns System Operator Code.
SRM?		9-122	Returns state of SPACH Response Mode.
SUBaddress:			
ADDRess? *n*	0 to 19	9-125	Returns selected Subaddress.
LENGth?		9-125	Returns Length of Subaddress Info content.
ODD_EVEN?		9-125	Returns state of Subaddress Odd/Even indicator.
PT?		9-125	Returns Subaddress Parameter Type.
REServed?		9-125	Returns combination of two Subaddress Reserved fields.
TYPE?		9-125	Returns Type of Subaddress.
TA?		9-127	Returns Time Alignment.
UGID:			
LS?		9-122	Returns 32 Least Significant bits of UGID.
MIN?		9-123	Returns MIN.
MS?		9-122	Returns 18 Most Significant bits of UGID.

COMMAND	RANGE	PAGE	DESCRIPTION
FDCCH:			
SPACH:			
USER:			
DEST:			
ADDRess?		9-138	Returns User Destination Address.
ENCoding?		9-138	Returns state of User Destination Address Encoding.
LENGth?		9-138	Returns User Destination Length of Address Info.
PLANid?		9-138	Returns User Destination Address ID Plan.
PT?		9-138	Returns User Destination Address Parameter Type.
SUBaddress:			
ADDRess? *n*	0 to 19	9-139	Returns selected Subaddress.
LENGth?		9-139	Returns Length of Subaddress Info.
ODD_EVEN?		9-139	Returns state of Subaddress Odd/Even Indicator.
PT?		9-139	Returns Subaddress Parameter Type.
REServed?		9-139	Returns combination of two Subaddress Reserved fields.
TYPE?		9-139	Returns Type of Subaddress.
TYPE?		9-138	Returns User Destination Type of Number.
GROUP:			
ID:			
LS?		9-140	Returns 32 Least Significant bits of User Group ID.
MS?		9-140	Returns 18 Most Significant bits of User Group ID.
PT?		9-140	Returns User Group Parameter Type.
STATus?		9-140	Returns User Group Status.
TYPE?		9-140	Returns User Group Type.
ORIG:			
ADDRess?		9-141	Returns User Originating Address.
ENCoding?		9-141	Returns state of User Originating Address Encoding.
LENGth?		9-140	Returns User Originating Length of Address Info.
PLANid?		9-141	Returns User Originating Address ID Plan.
PRESentation:			
PI?		9-141	Returns Presentation Indicator.
SI?		9-141	Returns Screening Indicator.
PT?		9-140	Returns User Originating Address Parameter Type.
SUBaddress:			
ADDRess? *n*	0 to 19	9-142	Returns selected Subaddress.
LENGth?		9-142	Returns Length of Subaddress Info.
ODD_EVEN?		9-142	Returns state of Subaddress Odd/Even Indicator.
PT?		9-142	Returns Subaddress Parameter Type.
REServed?		9-142	Returns combination of two Subaddress Reserved fields.
TYPE?		9-142	Returns Type of Subaddress.
TYPE?		9-140	Returns User Originating Type of Address.
VMAC?		9-125	Returns Voice Mobile Attenuation Code.
STARt		9-78	Starts decoding FDCCH.
STOP		9-78	Stops decoding FDCCH.
SYNC?		9-79	Returns sync word (28 bit value).
TYPE?		9-79	Returns type of data of the last decoded frame.

FORWARD DIGITAL TRAFFIC CHANNEL (FDTC) MONITOR COMMANDS

Queries for received data, return -1 if data is not available or has already been read.

FDTC:			
CHANnel *n*	1 to 333 (U4), 1 to 1023 (U8), 1 to 1999 (HY)	9-26	Selects Forward Digital Traffic Channel to monitor.
CONFigure:			
NONE		9-26	Same as **FDTC:SETup**, except does not select a screen.
USER		9-26	Same as **FDTC:SETup**, except selects the USER screen.
DVCC?		9-26	Returns Digital Verification Color Code.
FACCH: or SACCH:			
AMT?		9-28	Returns Acknowledge Message Type.
ATS?		9-28	Returns ATS.
AUTHBS?		9-28	Returns AUTHBS.
BSMC?		9-28	Returns BSMC.

COMMAND	RANGE	PAGE	DESCRIPTION
FDTC:			
FACCH: or SACCH:			
CALLING:			
NAMe:			
PI?		9-29	Returns Calling Party Name Presentation Indicator.
REServed?		9-29	Returns Calling Party Name Reserved field.
SI?		9-29	Returns Calling Party Name Screening Indicator.
NAMe?		9-29	Returns Character string value of Calling Party Name.
NUM?		9-29	Returns number of calling party.
NUM1?		9-29	Returns first 15 characters of number of calling party (string).
NUM2?		9-29	Returns last 15 characters of number of calling party (string).
PI?		9-30	Returns Calling Party Presentation Indicator.
PLANid?		9-30	Returns Calling Party Numbering Plan ID.
REServed?		9-30	Returns Calling Party Number Reserved field.
SI?		9-30	Returns Calling Party Screening Indicator.
SPare?		9-30	Returns Calling Party Number spare bits.
TYpe?		9-29	Returns Calling Party Number Type.
CHANGE:			
BSMC?		9-30	Returns state of BSMC Change Indicator.
SOC?		9-30	Returns state of SOC Change Indicator.
CNPC?		9-30	Returns Calling Number Presentation Code.
CUSTOM:			
CONTrol? *n*	0 to 255	9-30	Returns selected Custom Control.
LENGth?		9-30	Returns Length of Custom Control.
DCCHinfo:			
CHANnel? *n*	0 to 2	9-31	Returns selected DCCH info Channel.
DVCC? *n*	0 to 2	9-31	Returns selected DCCH info DVCC.
HYPERband? *n*	0 to 2	9-31	Returns selected DCCH Info Hyperband.
DELTA:			
TIME?		9-31	Returns Delta Time.
DIC?		9-31	Returns Delay Interval Compensation.
DIGits? *n*	0 to 2	9-31	Returns selected digit set.
DMAC?		9-31	Returns Digital Mobile Attenuation Code.
DPM?		9-31	Returns state of Data Privacy Mode.
DTX?		9-31	Returns Discontinuous Transmission.
DTXControl?		9-31	Returns state of DTX Control.
HDVCC?		9-31	Returns Handoff Digital Verification Color Code.
HYPERband:			
BAND? *n*	0 to 23	9-32	Returns Band of selected RF Channel and Hyperband.
CHANnel? *n*	0 to 23	9-32	Returns Channel of selected RF Channel and Hyperband.
NUMBer?		9-32	Returns Number of Hyperband channels of RF Channel and Hyperband.
TARGet?		9-32	Returns Target Hyperband.
LC?		9-32	Returns Local Control.
LDP?		9-32	Returns Last Decoded Parameter.
MAP:			
ARQ?		9-33	Returns state of FACCH/SACCH ARQ Map.
CODER?		9-32	Returns Voice Coder Map.
MEA:			
ALGORithms? *n*	0 to 7	9-32	Returns selected Message Encryption Algorithm Map.
DOMAIN?		9-32	Returns Message Encryption Algorithm Map Domain.
MEK?		9-33	Returns Message Encryption Key Map.
SMS?		9-33	Returns SMS Map.
VPM?		9-32	Returns Voice Privacy Mode Map.
MEM?		9-33	Returns Message Encryption Mode.
MEMA?		9-33	Returns state of Message Encryption Mode A.
MEMB?		9-33	Returns state of Message Encryption Mode B.
MEMC:			
MEA?		9-33	Returns Message Encryption Mode C Algorithm.
MED?		9-33	Returns Message Encryption Mode C Domain.
MEK?		9-33	Returns Message Encryption Mode C Key.

COMMAND	RANGE	PAGE	DESCRIPTION
FDTC:			
FACCH: or SACCH:			
MESSage:			
CENTer:			
ADDRess?		9-34	Returns Message Center Address.
ENCoding?		9-34	Returns state of Message Center Address Encoding.
LENGth?		9-34	Returns Message Center Address Extended Remaining Length.
PLANid?		9-34	Returns Message Center Address Number Plan ID.
TYPE?		9-34	Returns Message Center Address Type of Number.
MSGtype?		9-28	Returns Message Type.
MSGWTG:			
NUMBer? *n*	0 to 15	9-34	Returns selected Number of Other Messages Waiting.
TYPE? *n*	0 to 15	9-34	Returns selected Other Messages Waiting Info Type.
NOMW?		9-34	Returns Number of Messages Waiting.
NV? *n*	0 to 5	9-34	Returns Number of Values for selected optional info. element.
PD?		9-34	Returns Protocol Discriminator.
PT? *n*	0 to 5	9-35	Returns Parameter Type for selected optional info. element.
PV?		9-35	Returns Protocol Version.
PVI?		9-35	Returns state of Protocol Version Indicator.
RANDRA?		9-35	Returns RANDRA.
RANDSSD1?		9-35	Returns 24 most significant bits of RANDSSD (24 bit value).
RANDSSD2?		9-35	Returns bits 0 through 31 of RANDSSD (32 bit value).
RANDU?		9-35	Returns RANDU received in Unique Challenge message (24 bit value).
RATE?		9-35	Returns state of Channel Rate.
RCAUSe:			
REServed?		9-35	Returns R-Cause Reserved field.
RCAUSE?		9-35	Returns R-Cause.
RDATA_UNIT:			
HLP:			
DATA? *n*	0 to 253	9-36	Returns selected R-Data Unit Higher Layer Data Unit.
IDentifier?		9-36	Returns R-Data Unit Higher Layer Protocol Identifier.
LENGth?		9-36	Returns R-Data Unit Extended Remaining Length.
RFCHAN? *n*	0 to 23	9-36	Returns selected RFCHAN.
RL? *n*	0 to 2	9-36	Returns Remaining Length as number of octets (six bit value) remaining in selected message segment.
RN?		9-36	Returns Request Number.
RTRANSaction?		9-36	Returns R-Transaction Identifier.
SBI?		9-36	Returns Shortened Burst Indicator.
SERVice:			
CAUSe:			
NUMBer?		9-37	Returns number of instances of Cause.
CAUSe? *n*	0 to 9	9-37	Returns selected Cause.
CODE?		9-36	Returns Service Code.
SIGnal?		9-37	Returns Signal.
SOC?		9-37	Returns SOC.
SPMA?		9-37	Returns state of Service Privacy Mode A.
SPMB?		9-37	Returns state of Service Privacy Mode B.
SUPPort:			
IRA?		9-37	Returns state of RA Support.
TA?		9-37	Returns Time Alignment.
TASK?		9-37	Returns Task Status.
TI?		9-38	Returns Timeslot Indicator (0 is analog).
USER:			
DEST:			
ADDRess?		9-38	Returns User Destination Address.
ENCoding?		9-38	Returns state of User Destination Address Encoding.
LENGth?		9-38	Returns User Destination Address Extended Remaining Length.
PLANid?		9-38	Returns User Destination Address Number Plan ID.

COMMAND	RANGE	PAGE	DESCRIPTION
FDTC:			
FACCH: or SACCH:			
USER:			
DEST:			
SUBaddress:			
ADDRess? *n*	0 to 19	9-39	Returns selected Subaddress.
LENGth?		9-38	Returns Subaddress Extended Remaining Length.
ODD_EVEN?		9-38	Returns state of Subaddress Odd/Even Indicator.
REServed?		9-39	Returns Subaddress Reserved bits.
TYPE?		9-38	Returns Type of Subaddress.
TYPE?		9-38	Returns User Destination Address Type of Number.
ORIG:			
ADDRess?		9-39	Returns User Originating Address.
ENCoding?		9-39	Returns state of User Originating Address Encoding.
LENGth?		9-39	Returns User Originating Address Extended Remaining Length.
PLANid?		9-39	Returns User Originating Address Number Plan ID.
PRESentation:			
LENGth?		9-40	Returns User Originating Address Presentation Indicator Extended Remaining Length.
PI?		9-40	Returns User Originating Address Presentation Indicator.
REServed?		9-40	Returns User Originating Address Presentation Indicator Reserved bits.
SI?		9-40	Returns User Originating Address Screening Indicator.
ORIG:			
SUBaddress:			
ADDRess? *n*	0 to 19	9-40	Returns selected Subaddress.
LENGth?		9-39	Returns Subaddress Extended Remaining Length.
ODD_EVEN?		9-39	Returns state of Subaddress Odd/Even Indicator.
REServed?		9-40	Returns Subaddress Reserved bits.
TYPE?		9-40	Returns Type of Subaddress.
TYPE?		9-39	Returns User Originating Address Type of Number.
VMI:			
PM_V?		9-40	Returns Voice Privacy Mode.
VC?		9-40	Returns Voice Mode Voice Coder.
VPM?		9-41	Returns state of Voice Privacy Mode.
IS54:			
CDVCC? *n*	0 to 99	9-43	Returns Coded Digital Color Code from selected data word.
COUNt?		9-43	Returns number of data words received (increments with each new data word).
DATA? *n,x*	0 to 99, 1 to 65	9-43	Returns SACCH character data from selected data word (*x* is character).
SACCH? *n*	0 to 99	9-43	Returns SACCH message in selected data word.
START		9-43	Starts IS-54 timeslot raw data Capture
STOP		9-43	Stops IS-54 timeslot raw data Capture.
SYNC? *n*	0 to 99	9-43	Returns Synchronization bits from selected data word.
TIME? *n*	0 to 99	9-43	Returns Time Stamp in ms of selected data word.
R0?		9-26	Returns VSELP frame energy value.
RAW:			
CF? *n*	0 to 99	9-42	Returns Continuation Flag bit from selected data word.
COUNt?		9-42	Returns number of data words received (increments with each new data word).
DEPTH *n*	1 to 100	9-42	Selects number of data words of data buffer.
DVCC? *n*	0 to 99	9-42	Returns Digital Verification Color Code from selected data word.
MESSage? *n,x*	0 to 99, 0 to 5	9-42	Returns selected message byte (*x*) from selected data word.
RSVD? *n*	0 to 99	9-42	Returns Reserved for Future Use bits from selected data word.
SELect:			
FACCH		9-42	Selects Fast Associated Control Channel for raw data.
SACCH		9-42	Selects Slow Associated Control Channel for raw data.
START		9-42	Starts raw data Capture.
STOP		9-42	Stops raw data Capture.
TIME? *n*	0 to 99	9-42	Returns Time Stamp in ms of selected data word.

COMMAND	RANGE	PAGE	DESCRIPTION
FDTC:			
SETup		9-26	Sets up the Sp Tst as when entering the Forward Digital Traffic Channel screen (screen is not displayed).
SLOT *n*	1 to 3	9-26	Selects Digital Traffic Channel Timeslot.
STARt		9-26	Starts decoding Forward Digital Traffic Channel data.
STOP		9-26	Stops decoding Forward Digital Traffic Channel data.
VOCODER:			
ACELP		9-27	Selects ACELP vocoder.
VSELP		9-27	Selects VSELP vocoder.

FORWARD CONTROL CHANNEL (FOCC) MONITOR COMMANDS

Queries for received data, return -1 if data is not available or has already been read.

FOCC:			
ACT?		9-10	Returns Global Action field value.
ASYNC?		9-10	Returns state of Async Data field in DCCH Information word.
AUTH?		9-10	Returns Authentication.
AUTHBS?		9-10	Returns AUTHBS.
BIdle?		9-10	Returns Busy-Idle bit.
BIS?		9-11	Returns Busy-Idle Status bit from the Access Type Parameters Global Action message.
CAPTure:			
A_ALERT		9-7	Selects Abbreviated Alert order for Capture.
AUDIT		9-7	Selects Audit order for Capture.
AUT_REG		9-7	Selects Autonomous Registration Confirmation order for Capture.
BSCHALCON		9-7	Selects Base Station Challenge Confirmation order for Capture.
CLEAR		9-5	Restarts Capture function.
DIR_RTRY		9-7	Selects Directed-Retry order for Capture.
INTRCPT		9-7	Selects Intercept order for Capture.
LC		9-7	Selects Local Control order for Capture.
MIN *"n"*		9-9	Selects Mobile ID Number to Capture.
MIN?		9-9	Returns MIN selected for Capture.
MODE?		9-6	Returns Capture Mode setting (0 for NONE, 1 for ORDER, 2 for MIN or 3 for BOTH [MIN and ORDER]).
MSG_WTG		9-7	Selects Message Waiting order for Capture.
N_AUT_REG		9-7	Selects Non-Autonomous Registration Confirmation order for Capture.
ORDer?		9-8	Returns name of order selected for Capture.
PAGE		9-7	Selects Page order for Capture.
RELease		9-7	Selects Release order for Capture.
REORDER		9-8	Selects Reorder order for Capture.
SELect:			
BOTH		9-6	Sets Capture Mode to BOTH (MIN and ORDER) to capture specific order from specific Mobile Station.
MIN		9-6	Sets Capture Mode to MIN to capture communication with specific Mobile Station.
NONE		9-6	Sets Capture Mode to NONE.
ORDER		9-6	Sets Capture Mode to ORDER to capture a specific order.
SLOT_1		9-8	Selects Slot 1 Handoff order for Capture.
SLOT_2		9-8	Selects Slot 2 Handoff order for Capture.
SLOT_3		9-8	Selects Slot 3 Handoff order for Capture.
SSD_UPdate		9-8	Selects Shared Secret Data Update order for Capture.
UCHAL		9-8	Selects Unique Challenge order for Capture.
VC_DES		9-8	Selects Voice Channel Designation order for Capture.
CAPTure?		9-5	Returns Capture condition (1 [occurred] or 0.
CHAN?		9-11	Returns Channel Number.
CHANnel *n*	1 to 333 (U4), 1 to 1023 (U8), 1 to 1999 (HY)	9-4	Selects Forward Control Channel to monitor.

COMMAND	RANGE	PAGE	DESCRIPTION
FOCC:			
CHANPOS1?		9-11	Returns Channel Position 1.
CHANPOS2?		9-11	Returns Channel Position 2.
CHANPOS3?		9-11	Returns Channel Position 3.
CHANPOS4?		9-11	Returns Channel Position 4.
CHANPOS4?		9-11	Returns Channel Position 5.
CHANPOS6?		9-11	Returns Channel Position 6.
CMAC?		9-11	Returns Control Mobile Attenuation Code.
CMAX_1?		9-11	Returns number of Access Channels minus one.
CONFigure:			
NONE		9-4	Same as **FOCC:SETup** command, except does not select a screen.
USER		9-4	Same as **FOCC:SETup** command, except selects the USER screen.
CPA?		9-11	Returns state of Combined Paging/Access.
DCC?		9-11	Returns Digital Color Code.
DCCHan?		9-11	Returns Channel field in DCCH Information word.
DMAC?		9-12	Returns Digital Mobile Attenuation Code.
DTX?		9-12	Returns state of Discontinuous Transmission.
DVCC?		9-12	Returns Digital Verification Color Code.
E?		9-12	Returns state of Extended Address.
EF?		9-12	Returns state of Extended Protocol Forward Channel Indicator.
END?		9-12	Returns state of End Indication.
EP?		9-12	Returns state of Extended Protocol.
G3FAX?		9-12	Returns state of G3 Fax field in DCCH Information word.
HYPERband?		9-12	Returns Hyperband field in DCCH Information word.
LOC_CONTrol?		9-12	Returns Local Control message.
LOCAID?		9-12	Returns Location Area Identity.
LOCAL_MT?		9-12	Returns Local Control (Local Control message)/Message Type field.
LREG?		9-12	Returns state of Location Registration.
MBUSY:			
OTH?		9-13	Returns Maximum Number of Busy Occurrences Allowed for Other Accesses.
PGR?		9-13	Returns Maximum Number of Busy Occurrences Allowed for Page Responses.
MEM?		9-13	Returns state of Message Encryption Mode.
MIN?		9-13	Returns Mobile ID Number.
MSZTR:			
OTH?		9-13	Returns Maximum Number of Seizure Attempts Allowed for Other Accesses.
PGR?		9-13	Returns Maximum Number of Seizure Attempts Allowed for Page Responses.
N_1?		9-13	Returns number of Paging Channels minus one.
NAWC?		9-13	Returns Number of Additional Words Coming.
NEWACC?		9-13	Returns New Access Channel Starting Point.
OLC?		9-13	Returns Overload Control Class.
ORDER?		9-10	Returns received order.
ORDERCD?		9-13	Returns Order Code.
ORDQ?		9-13	Returns Order Qualifier.
PCI?		9-14	Returns state of Protocol Capability Indicator.
PDREG?		9-14	Returns state of Power Down Registration.
PM?		9-14	Returns state of Privacy Mode.
PRIVacy?		9-14	Returns state of Data Privacy field in DCCH Information word.
PUREG?		9-14	Returns state of Power Up Registration.
PVI?		9-14	Returns state of Protocol Version Indicator.
RAND1_A?		9-14	Returns 16 most significant bits of RAND.
RAND1_B?		9-14	Returns 16 least significant bits of RAND.
RANDSSD_1?		9-14	Returns 24 most significant bits of RANDSSD.
RANDSSD_2?		9-14	Returns bits 8 through 31 of RANDSSD.
RANDSSD_3?		9-14	Returns eight least significant bits of RANDSSD.
RANDU?		9-14	Returns RANDU received in Unique Challenge message.

COMMAND	RANGE	PAGE	DESCRIPTION
FOCC:			
RAW:			
A:			
CHECK? *n*	0 to 99	9-18	Returns CRC Check result for selected data word from Stream A (0 [good], 1 [bad]).
DATA? *n*		9-18	Returns selected raw data word from Stream A.
PARITY? *n*	0 to 99	9-18	Returns Parity for selected data word from Stream A.
B:			
CHECK? *n*	0 to 99	9-19	Returns CRC Check result for selected data word from Stream B (0 [good], 1 [bad]).
DATA? *n*	0 to 99	9-19	Returns selected Raw Data word from Stream B.
PARITY? *n*	0 to 99	9-19	Returns Parity for selected data word from Stream B.
B_I? *n*	0 to 99	9-19	Returns Busy-Idle bit for selected data word.
CAPTure:			
A_ALERT		9-16	Selects Abbreviated Alert order for Capture.
AUDIT		9-16	Selects Audit order for Capture.
AUT_REG		9-16	Selects Autonomous Registration Confirmation order for Capture.
BSCHALCON		9-16	Selects Base Station Challenge Confirmation order for Capture.
DIR_RTRY		9-16	Selects Directed-Retry order for Capture.
INDex?		9-18	Returns position of Captured Order in data buffer.
INTRCPT		9-16	Selects Intercept order for Capture.
LC		9-17	Selects Local Control order for Capture.
MSG_WTG		9-17	Selects Message Waiting order for Capture.
N_AUT_REG		9-17	Selects Non-Autonomous Registration Confirmation order for Capture.
NONE		9-16	Sets Capture Mode to NONE.
ORDer?		9-17	Returns order selected for Capture.
PAGE		9-17	Selects Page order for Capture.
RELease		9-17	Selects Release order for Capture.
REORDER		9-17	Selects Reorder order for Capture.
SLOT_1		9-17	Selects Slot 1 Handoff order for Capture.
SLOT_2		9-17	Selects Slot 2 Handoff order for Capture.
SLOT_3		9-17	Selects Slot 3 Handoff order for Capture.
SSD_UPdate		9-17	Selects Shared Secret Data Update order for Capture.
UCHAL		9-17	Selects Unique Challenge order for Capture.
VC_DES		9-17	Selects Voice Channel Designation order for Capture.
CAPTure?		9-18	Returns Capture condition (1 [occurred] or 0).
FULL?		9-18	Returns 1 if word data buffer is full; 0 otherwise.
STARt		9-18	Starts raw data Capture.
STOP		9-18	Stops raw data Capture.
TRIGger *n*	0 to 4	9-18	Selects position of Captured Order in data buffer.
TS? *n*	0 to 99	9-19	Returns Time Stamp in ms of selected data word.
WORD:			
A		9-16	Selects raw data from Stream A to monitor.
B		9-16	Selects raw data from Stream B to monitor.
BOTH		9-16	Selects raw data from Streams A and B to monitor.
RCF?		9-14	Returns state of Read Control-Filler.
REGH?		9-15	Returns state of Registration for Home Mobile Stations.
REGID?		9-15	Returns Registration ID.
REGINCR?		9-15	Returns Registration Increment field.
REGR?		9-15	Returns state of Registration for Roaming Mobile Stations.
REMote:			
STARt		9-4	Stops decoding and redirects received Forward Control Channel data out OPT. RS-232 Connector.
STOP		9-4	Stops redirection of Forward Control Channel data out OPT. RS-232 Connector.
S?		9-15	Returns state of Serial Number.
SCC?		9-15	Returns Supervisory Audio Tone Color Code.
SDCC1?		9-15	Returns Supplementary Digital Color Code 1.
SDCC2?		9-15	Returns Supplementary Digital Color Code 2.

COMMAND	RANGE	PAGE	DESCRIPTION
FOCC:			
SETup		9-4	Sets up the Sp Tst as when entering the Forward Control Channel screen, except screen is not displayed.
SID?		9-15	Returns System ID Number.
STARt		9-4	Starts decoding Forward Control Channel data.
STOP		9-4	Stops decoding Forward Control Channel data.
STREAM:			
A		9-5	Selects data from Stream A. See FOCC:WORD:BOTH.
B		9-5	Selects data from Stream B. See FOCC:WORD:BOTH.
VMAC?		9-15	Returns Voice Mobile Attenuation Code.
WFOM?		9-15	Returns state of Wait For Overhead Message.
WORD:			
A		9-5	Selects Stream A to decode.
B		9-5	Selects Stream B to decode.
BOTH		9-5	Selects Streams A and B to decode. Responses come randomly from either Stream A or B, unless the **FOCC:STREAM** command is used.

FREQ:BAND COMMAND

FREQuency:			
BAND *n*	0 = U4, 1 = U8 or 2 = HY (PCS)	9-3	Selects frequency band.
BAND?		9-3	Returns frequency band.

FORWARD VOICE CHANNEL (FVC) MONITOR COMMANDS

Queries for received data, return -1 if data is not available or has already been read.

FVC:			
AUTHBS?		9-22	Returns Output Response of Base Station Authentication Algorithm.
CHAN?		9-22	Returns Channel Number.
CHANnel *n*	1 to 333 (U4), 1 to 1023 (U8), 1 to 1999 (HY)	9-20	Selects Forward Voice Channel to monitor.
CHAR1?		9-22	Returns first characters in Called Party Number message or Calling Party Number message.
CHAR2?		9-22	Returns last characters in Called Party Number message or Calling Party Number message.
CONFigure:			
NONE		9-20	Same as **FVC:SETup**, except does not select a screen.
USER		9-20	Same as **FVC:SETup**, except selects the USER screen.
CPN_RL?		9-23	Returns Calling Party Number Remaining Length.
DMAC?		9-23	Returns Digital Mobile Attenuation Code.
DVCC?		9-23	Returns Digital Verification Color Code.
EF?		9-23	Returns state of Extended Protocol Forward Channel Indicator.
HYPERband?		9-23	Returns Hyperband.
LOCAL_MT?		9-23	Returns Local Control/Message Type.
MEM?		9-23	Returns state of Message Encryption Mode.
ORDER?		9-22	Returns received Order.
ORDERCD?		9-23	Returns Order Code.
ORDQ?		9-23	Returns Order Qualifier.
PI?		9-23	Returns Calling Party Number Presentation Indicator.
PM?		9-23	Returns state of Privacy Mode.
PSCC?		9-23	Returns Present SAT Color Code.
PVI?		9-23	Returns state of Protocol Version Indicator.
PWRL?		9-24	Returns requested Power Level.
RANDSSD1?		9-24	Returns 24 most significant bits of RANDSSD.
RANDSSD2?		9-24	Returns bits 8 through 31 of RANDSSD.
RANDSSD3?		9-24	Returns eight least significant bits of RANDSSD.
RANDU?		9-24	Returns RANDU received in the Unique Challenge message.

COMMAND	RANGE	PAGE	DESCRIPTION
FVC:			
RAW:			
CHECK? *n*	0 to 99	9-25	Returns CRC Check result for selected data word (0 [good], 1 [bad]).
COUNT?		9-25	Returns number of data words received.
DATA? *n*	0 to 99	9-25	Returns selected raw data word.
DEPTH *n*	1 to 100	9-25	Selects size of data buffer in data words.
PARITY? *n*	0 to 99	9-25	Returns Parity for selected data word.
STARt		9-25	Starts receiving raw data capture.
STOP		9-25	Stops receiving raw data capture.
TS? *n*	0 to 99	9-25	Returns Time Stamp of selected data word in sec. from 0 data word.
RL_W?		9-24	Returns Remaining Length in Words.
SBI?		9-24	Returns Shortened Burst Indicator.
SCC *n*	5955 to 6044	9-21	Specifies the SCC with corresponding SAT frequency in Hz.
SCC?		9-24	Returns Supervisory Audio Tone Color Code.
SETup		9-20	Sets up Sp Tst as when entering the Forward Voice Channel screen, except screen is not displayed.
SI?		9-24	Returns Calling Party Screening Indicator.
SIGnal?		9-24	Returns Signal field.
STARt		9-20	Starts decoding Forward Voice Channel data.
STOP		9-20	Stops decoding Forward Voice Channel data.
TA?		9-24	Returns Time Alignment offset.
VMAC?		9-24	Returns Voice Mobile Attenuation Code.
GPIB COMMANDS			
GPIB:			
ADDRess *a*	0 to 31	F-8	Sets the CSA Talker/Listener address.
MASK *m*	0 to 255	F-8	Sets the SRQ interrupt mask.
RESET		F-8	Resets the CSA GPIB interface.
SRQ *s*	0 to 255	F-8	Sets a user defined Status Byte value.
HOST COMMANDS			
HOST *"string"*		9-2	Issues commands, as strings, to the HOST.
HOST? *"string?"*		9-2	Issues queries, as strings, to the HOST.
GENERIC MEASURE COMMANDS			
MEASure:			
SAT?		9-451	Returns Supervisory Audio Tone frequency reading in Hz.
ST?		9-451	Returns Signal Tone frequency reading in Hz.
FLASH MEMORY COMMANDS (MASS MEMORY)			
MMEMory:			
CATalog:			
ENTRY? *n*	0 to 512	9-451	Returns file entry (file name,file type,file size) for given index. Returns $$$ if past end of directory or --- for deleted file. *n* is line number (index) in Flash Files Directory.
FREE?		9-451	Returns available file space in bytes.
USED?		9-451	Returns file space used in bytes.
CATalog?		9-451	Returns Flash Memory status. (memory space used in bytes,memory space available in bytes,file name1, file type1,file size1,file name2,file type2,file size2, ...)
DELete *"f"*	"file name"	9-451	Deletes file without freeing memory (see **MMEM:PACK**).
INITialize		9-452	Erases all files stored in Flash Memory.
INITialize?		9-452	Returns 1 if file system has been initialized, 0 otherwise.
LOAD:			
MACRo *"m","f"*		9-452	Loads macros and variables stored as file name *f* from Flash to Sp Tst memory, executing macro *m*.
PACK		9-452	Packs Flash Memory and frees memory space from deleted files.
STORe:			
MACRo *"m","f"*		9-452	Stores currently loaded macros and variables as file name *f* in Flash Memory with designated macro *m* to be activated from Flash Files Directory.

COMMAND	RANGE	PAGE	DESCRIPTION
MISCELLANEOUS COMMANDS			
KCLAIM		9-453	Claims HOST keypad.
KUNCLAIM		9-453	Unclaims HOST keypad.
SPRINTF? *format,...*		9-453	Performs a formatted print into a string.
TICKs?		9-453	Returns millisecond tick count.
MODULATION ACCURACY COMMANDS			
MODacc:			
FDTC:			
CHANnel *n*	0 to 2047	9-449	Specifies RF Channel.
COMPlete?		9-449	Returns test status (1 if complete, or 0 if incomplete).
EVM?		9-449	Returns RMS Error Vector Magnitude in percent.
FREQ_ERRor?		9-449	Returns Frequency Error in Hz.
IQ_OFFset?		9-449	Returns I/Q Offset in dB.
MAG_ERRor?		9-449	Returns RMS Magnitude Error in percent.
PHASE_ERRor?		9-449	Returns RMS Phase Error in degrees.
RUN?		9-449	Starts Modulation Accuracy measurements and returns adjusted AGC value.
SETup		9-449	Sets up Sp Tst as when entering the Modulation Accuracy screen, except screen is not displayed.
MOBILE STATION SIMULATION (DCCH) COMMANDS			
MSS:			
CHANnel *n*	1 to 333 (U4), 1 to 1023 (U8) 1 to 1999 (HY)	9-389	Selects Reverse Channel on which to transmit.
CHANnel?		9-389	Returns mobile simulation channel.
CONFigure:			
NONE		9-389	Same as MSS:SETup, except does not select screen.
USER		9-389	Same as MSS:SETup, except selects User screen.
RATE *n*	0 = Full, 1 = Half	9-390	Selects TDMA transmission rate.
RATE?		9-390	Returns state of TDMA transmission rate.
RDCCH:			
AUTHR *n*	0 to #h3FFFF	9-409	Specifies AUTHR used in Authentication process.
AUTHR?		9-409	Returns AUTHR.
AUTHU *n*	0 to #h3FFFF	9-436	Specifies AUTHU.
AUTHU?		9-436	Returns AUTHU.
BANDWidth *n*	0 to 7	9-421	Specifies Bandwidth.
BANDWidth?		9-421	Returns Bandwidth.
BSMC *n*	0 to 255	9-410	Specifies Base Station Manufacture Code.
BSMC?		9-410	Returns Base Station Manufacture Code.
BUILD		9-443	Builds data composing RACH message.
CALLED:			
ADDRess *"n"*		9-422	Specifies Address.
ADDRess:			
ENCoding *n*	1 or 0	9-422	Enables/disables Called Address Encoding.
ENCoding?		9-422	Returns state of Called Address Encoding.
ADDRess?		9-422	Returns Address.
PLANid *n*	0 to 15	9-422	Specifies Called Address Numbering Plan ID.
PLANid?		9-422	Returns Called Address Numbering Plan ID.
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-423	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-423	Returns selected Subaddress.
ODD_EVEN *n*	1 or 0	9-423	Enables/disables Subaddress Odd/Even indicator.
ODD_EVEN?		9-423	Returns state of Subaddress Odd/Even indicator.
REServed *n*	0 to 15	9-423	Specifies number of Called Party Subaddress Reserved fields.
REServed?		9-423	Returns number of Called Party Subaddress Reserved fields.
TYPE *n*	0 to 3	9-423	Specifies Subaddress Type of Subaddress.
TYPE?		9-423	Returns Subaddress Type of Subaddress.
TYPE *n*	0 to 7	9-422	Specifies Called Address Type of Number.
TYPE?		9-422	Returns Called Address Type of Number.
CALLING:			
ADDRess *"n"*		9-424	Specifies Address.

COMMAND	RANGE	PAGE	DESCRIPTION
MSS:			
RDCCH:			
CALLING:			
ADDRess:			
ENCoding *n*	1 or 0	9-424	Enables/disables Calling Address Encoding.
ENCoding?		9-424	Returns state of Calling Address Encoding.
ADDRess?		9-424	Returns Address.
PLANid *n*	0 to 15	9-424	Specifies Calling Address Numbering Plan ID.
PLANid?		9-424	Returns Calling Address Numbering Plan ID.
PRESentation:			
PI *n*	0 to 3	9-424	Specifies Calling Address Presentation Indicator.
PI?		9-424	Returns Calling Address Presentation Indicator.
SI *n*	0 to 3	9-424	Specifies Calling Address Screening Indicator.
SI?		9-424	Returns Calling Address Screening Indicator.
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-425	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-425	Returns selected Subaddress.
LENGth *n*	1 to 21	9-425	Specifies Subaddress Length.
LENGth?		9-425	Returns Subaddress Length.
ODD_EVEN *n*	1 or 0	9-425	Enables/disables Subaddress Odd/Even indicator.
ODD_EVEN?		9-425	Returns state of Subaddress Odd/Even indicator.
REServed *n*	0 to 15	9-425	Specifies number of Calling Party Subaddress Reserved fields.
REServed?		9-425	Returns number of Calling Party Subaddress Reserved fields.
TYPE *n*	0 to 3	9-425	Specifies Subaddress Type of Number.
TYPE?		9-425	Returns Subaddress Type of Number.
TYPE *n*	0 to 7	9-424	Specifies Calling Address Type of Number.
TYPE?		9-424	Returns Calling Address Type of Number.
CNUMber:			
ADDRess *"n"*		9-434	Specifies C-Number Address.
ADDRess:			
ENCoding *n*		9-434	Enables/disables C-Number Address Encoding.
ENCoding?		9-434	Returns state of the C-Number Address Encoding.
ADDRess?		9-434	Returns C-Number Address.
PLANid *n*	0 to 15	9-434	Specifies C-Number ID Plan.
PLANid?		9-434	Returns C-Number ID Plan.
TYPE *n*	0 to 7	9-434	Specifies C-Number Type of Number.
TYPE?		9-434	Returns the C-Number Type of Number.
CONFirmed:			
MSGtype *n*	0 to 63	9-436	Specifies Confirmed Message Type.
MSGtype?		9-436	Returns Confirmed Message Type.
COUNt *n*	0 to 63	9-409	Specifies COUNT used for Authentication process.
COUNt?		9-409	Returns COUNT.
CUSTom:			
CONTrol *n,x*	0 to 252; 0 to 255	9-410	Specifies selected Custom Control word (*x*).
CONTrol? *n*	0 to 252	9-410	Returns selected Custom Control word.
LENGth *n*	1 to 253	9-410	Specifies Custom Control Length.
LENGth?		9-410	Returns Custom Control Length.
DATA? *n,m*	0 to 319, 0 to 6	9-443	Returns built RDCCH data. Returns 16 bit word (*m*) in selected slot.
DEST:			
ADDRess *"n"*		9-429	Specifies Address.
ADDRess:			
ENCoding *n*	1 or 0	9-429	Enables/disables User Destination Address Encoding.
ENCoding?		9-429	Returns state of User Destination Address Encoding.
ADDRess?		9-429	Returns Address.
PLANid *n*	0 to 15	9-429	Specifies User Destination ID Plan.
PLANid?		9-429	Returns the User Destination ID Plan.

COMMAND	RANGE	PAGE	DESCRIPTION
MSS:			
RDCCH:			
DEST:			
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-430	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-430	Returns selected Subaddress.
LENGth *n*	1 to 21	9-430	Specifies Subaddress Length.
LENGth?		9-430	Returns Subaddress Length.
ODD_EVEN *n*	1 or 0	9-430	Enables/disables Subaddress Odd/Even indicator.
ODD_EVEN?		9-430	Returns state of Subaddress Odd/Even indicator.
REServed *n*	0 to 15	9-430	Specifies number of User Destination Subaddress Reserved fields.
REServed?		9-430	Returns number of User Destination Subaddress Reserved fields.
TYPE *n*	0 to 3	9-430	Specifies Subaddress Type of Number.
TYPE?		9-430	Returns Subaddress Type of Number.
TYPE *n*	0 to 7	9-429	Specifies User Destination Type of Number.
TYPE?		9-429	Returns User Destination Type of Number.
DISPlay:			
CHARacter *n,m*	0 to 81, 0 to 255	9-409	Specifies selected Display Character (*m*).
CHARacter? *n*	0 to 81	9-409	Returns selected Display Character.
LENGth *n*	0 to 81	9-409	Specifies Length of Display Information.
LENGth?		9-409	Returns Length of Display Information.
DVCC *n*	1 to 255	9-392	Specifies Digital Verification Color Code.
DVCC?		9-392	Returns Digital Verification Color Code.
EMERgency *n*	1 or 0	9-417	Enables/disables Emergency Call.
EMERgency?		9-417	Returns state of Emergency Call.
ENABle:			
BANDWidth *n*	1 or 0	9-439	Enables/disables Bandwidth optional info. element.
BANDWidth?		9-439	Returns state of Bandwidth optional info. element.
CALLED:			
SUBaddress *n*	1 or 0	9-440	Enables/disables Called Party Subaddress optional info. element.
SUBaddress?		9-440	Returns state of Called Party Subaddress optional info. element.
CALLING:			
ADDRess *n*	1 or 0	9-439	Enables/disables Calling Party Number optional info. element.
ADDRess?		9-439	Returns state of Calling Party Number optional info. element.
PRESentation *n*	1 or 0	9-439	Enables/disables Calling Party Number Presentation Indicator optional info. element.
PRESentation?		9-439	Returns state of Calling Party Number Presentation Indicator optional info. element.
SUBaddress *n*	1 or 0	9-439	Enables/disables Calling Party Subaddress optional info. element.
SUBaddress?		9-439	Returns state of Calling Party Subaddress optional info. element.
CNUMber *n*	1 or 0	9-441	Enables/disables C-Number optional info. element.
CNUMber?		9-441	Returns state of C-Number field optional info. element.
DISPlay *n*	1 or 0	9-437	Enables/disables Display optional info. element.
DISPlay?		9-437	Returns state of Display optional info. element.
MEASurement:			
LTM *n*	1 or 0	9-438	Enables/disables LTM Measurement optional info. element.
LTM?		9-438	Returns state of LTM Measurement optional info. element.
OTHER:			
STM *n*	1 or 0	9-438	Enables/disables STM Measurement (Other Hyperband) optional info. element.
STM?		9-438	Returns state of STM Measurement (Other Hyperband) optional info. element.
STM *n*	1 or 0	9-438	Enables/disables STM Measurement optional info. element.
STM?		9-438	Returns state of STM Measurement optional info. element.

COMMAND	RANGE	PAGE	DESCRIPTION
MSS:			
RDCCH:			
ENABle:			
MEM *n*	1 or 0	9-439	Enables/disables Message Encryption Mode optional info. element.
MEM?		9-439	Returns state of Message Encryption Mode optional info. element.
MESSage:			
CENTer:			
ADDRess *n*	1 or 0	9-440	Enables/disables Message Center Address optional info. element.
ADDRess?		9-440	Returns state of Message Center Address optional info. element.
MODE:			
DATA *n*	1 or 0	9-438	Enables/disables Data Mode optional info. element.
DATA?		9-438	Returns state of Data Mode optional info. element.
VOICe *n*	1 or 0	9-438	Enables/disables Voice Mode optional info. element.
VOICe?		9-438	Returns state of Voice Mode optional info. element.
PFC:			
REQuest *n*	1 or 0	9-442	Enables/disables PFC Request optional info. element.
REQuest?		9-442	Returns state of PFC Request optional info. element.
PSID_RSID:			
SELect *n*	1 or 0	9-437	Enables/disables Selected PSID/RSID optional info. element.
SELect?		9-437	Returns state of Selected PSID/RSID optional info. element.
RDATA:			
DELay *n*	1 or 0	9-441	Enables/disables R-DATA Delay optional info. element.
DELay?		9-441	Returns state of R-DATA Delay optional info. element.
SID_REPort *n*	1 or 0	9-442	Enables/disablesSID Report optional info. element.
SID_REPort?		9-442	Returns state of SID Report optional info. element.
SUBaddress *n*	1 or 0	9-437	Enables/disables Subaddress optional info. element.
SUBaddress?		9-437	Returns state of Subaddress optional info. element.
SUPPort:			
ALT_SOC *n*	1 or 0	9-437	Enables/disables ALT_SOC_Support optional info. element.
ALT_SOC?		9-437	Returns state of ALT_SOC_Support optional info. element.
USER:			
DEST:			
ADDRess *n*	1 or 0	9-440	Enables/disables User Destination Address optional info. element.
ADDRess?		9-440	Returns state of User Destination Address optional info. element.
SUBaddress *n*	1 or 0	9-440	Enables/disables User Destination Subaddress optional info. element.
SUBaddress?		9-440	Returns state of User Destination Subaddress optional info. element.
GROUP *n*	1 or 0	9-440	Enables/disables User Group optional info. element.
GROUP?		9-440	Returns state of User Group optional info. element.
ORIG:			
ADDRess *n*	1 or 0	9-441	Enables/disables User Originating Address optional info. element.
ADDRess?		9-441	Returns state of User Originating Address optional info. element.
PRES:			
PI *n*	1 or 0	9-441	Enables/disables User Originating Address Presentation Indicator optional info. element.
PI?		9-441	Returns state of User Originating Address Presentation Indicator optional info. element.
SUBaddress *n*	1 or 0	9-441	Enables/disables User Originating Subaddress optional info. element.
SUBaddress?		9-441	Returns state of User Originating Subaddress optional info. element.
VC_MAP *n*	1 or 0	9-437	Enables/disables Voice Coder Map Info optional info. element.
VC_MAP?		9-437	Returns state of Voice Coder Map Info optional info. element.

COMMAND	RANGE	PAGE	DESCRIPTION
MSS:			
RDCCH:			
ESN *n*	0 to #hFFFFFFFF	9-436	Specifies Electronic Serial Number.
ESN?		9-436	Returns Electronic Serial Number.
LAYER2:			
ARQ *n*	1 or 0	9-402	Enables/disables ARQ status frame.
ARQ?		9-402	Returns state of ARQ status frame.
EHI *n*	1 or 0	9-400	Enables/disables Extended Header Information.
EHI?		9-400	Returns state of Extended Header Information.
FRNO *n*	0 to #hFFFFFFFF	9-402	Specifies Frame Number Map.
FRNO?		9-402	Returns Frame Number Map.
IDT *n*	0 to 3	9-400	Specifies Identity Type.
IDT?		9-400	Returns Identity Type.
MEA *n*	0 to 3	9-400	Specifies Message Encryption Algorithm.
MEA?		9-400	Returns Message Encryption Algorithm.
MEK *n*	0 to 3	9-400	Specifies Message Encryption Key.
MEK?		9-400	Returns Message Encryption Key.
MIN *"n"*	"123/456-7890"	9-401	Specifies Mobile ID Number.
MIN?		9-401	Returns Mobile ID Number.
MSID:			
LS *n*	0 to #hFFFFFFFF	9-401	Sets 32 Least Significant Bits of Mobile Station ID.
LS?		9-401	Returns 32 Least Significant Bits of Mobile Station ID.
MS *n*	0 to #h3FFFF	9-401	Specifies 18 Most Significant Bits of Mobile Station ID.
MS?		9-401	Returns 18 Most Significant Bits of Mobile Station ID.
NL3M *n*	0 to 7	9-401	Specifies Number Layer 3 Messages.
NL3M?		9-401	Returns Number Layer 3 Messages.
PEA *n*	0 to 63	9-402	Specifies Partial Echo Assigned.
PEA?		9-402	Returns Partial Echo Assigned.
RSVD:			
ARQ *n*	0 to 3	9-402	Specifies Automatic Retransmission Request RSVD.
ARQ?		9-402	Returns ARQ.
EHI *n*	1 or 0	9-402	Enables/disables Extended Header Indicator RSVD.
EHI?		9-402	Returns state of Extended Header Indicator RSVD.
END *n*	1 or 0	9-402	Enables/disables END frame RSVD.
END?		9-402	Returns state of END frame RSVD.
LENGth:			
ABBREViated		9-391	Selects Abbreviated length transmission bursts on RDCCH.
NORMal		9-391	Selects Normal length transmission bursts on RDCCH.
LENGth?		9-443	Returns Length of RDCCH in number of slots after execution of Build command.
LT *n*	1 or 0	9-417	Enables/disables Last Try flag.
LT?		9-417	Returns state of Last Try flag.
MANufacture *n*		9-411	Specifies Manufacture Code. Range of *n* is 0 to 255.
MANufacture?		9-411	Returns Manufacture Code.
MEASurement:			
LTM:			
BER *n*	0 to 7	9-415	Specifies Word Error Rate LTM Measurement Bit Error Rate.
BER?		9-415	Returns LTM Measurement Bit Error Rate.
FULL *n*	1 or 0	9-415	Enables/disables LTM Measurement Full Measurement Indicator.
FULL?		9-415	Returns state of LTM Measurement Full Measurement Indicator.
RSS *n*	0 to 7	9-415	Specifies LTM Measurement Receive Signal Strength.
RSS?		9-415	Returns LTM Measurement Receive Signal Strength.
WER *n*	0 to 7	9-415	Specifies LTM Measurement Word Error Rate.
WER?		9-415	Returns LTM Measurement Word Error Rate.
OTHER:			
STM:			
LENGth *n*	1 to 15	9-416	Specifies STM Measurement (Other Hyperband) Report Map Length.
LENGth?		9-416	Returns STM Measurement (Other Hyperband) Report Map Length.

COMMAND	RANGE	PAGE	DESCRIPTION
MSS:			
RDCCH:			
MEASurement:			
OTHER:			
STM:			
REPort *n*	1 to #h7FFF	9-416	Specifies STM Measurement (Other Hyperband) Report Map.
REPort?		9-416	Returns STM Measurement (Other Hyperband) Report Map.
RSS *n,m*	0 to 14, 0 to 31	9-417	Specifies STM Measurement (Other Hyperband) ST_RSS (*m*) for selected bit position of Report Map.
RSS? *n*	0 to 14	9-417	Returns STM Measurement (Other Hyperband) ST_RSS for selected bit position of Report Map.
STM:			
NV *n*	0 to 15	9-416	Specifies STM Measurement Number of Values.
NV?		9-416	Returns STM Measurement Number of Values.
RSS *n,m*	0 to 31, 0 to 15	9-416	Specifies selected STM Measurement Receive Signal Strength (*m*).
RSS? *n*	0 to 31	9-416	Returns selected ST_RSS.
MEM:			
MEA *n*	0 to 7	9-421	Specifies Message Encryption Algorithm.
MEA?		9-421	Returns Message Encryption Algorithm.
MED *n*	0 to 7	9-421	Specifies Message Encryption Domain.
MED?		9-421	Returns Message Encryption Domain.
MEK *n*	0 to 7	9-421	Specifies Message Encryption Key.
MEK?		9-421	Returns Message Encryption Key.
MESSage:			
SFP *n*	0 to 31	9-394	Selects Superframe Phase for transmission of user-defined message.
SFP?		9-394	Returns Superframe Phase.
ACCESS:			
TYPE:			
NONE		9-398	Selects no synchronization.
SFP		9-398	Selects Superframe Phase synchronization.
TYPE?		9-398	Returns Type of Access.
CENTer:			
ADDRess *"n"*		9-427	Specifies Address.
ADDRess:			
ENCoding *n*	1 or 0	9-427	Enables/disables Message Center Address Encoding.
ENCoding?		9-427	Returns state of Message Center Address Encoding.
ADDRess?		9-427	Returns Address.
PLANid *n*	0 to 15	9-427	Specifies Message Center ID Plan.
PLANid?		9-427	Returns Message Center ID Plan.
TYPE *n*	0 to 7	9-427	Specifies Message Center Type of Number.
TYPE?		9-427	Returns Message Center Type of Number.
CORRUPT *n*	0 to 320	9-399	Selects frame of RACH message to corrupt.
CORRUPT?		9-399	Returns corrupted frame.
DATA *m,n,word*	0 to 319, 0 to 6, 0 to #hFFFF	9-395	Specifies selected 16 bit data *word* in selected transmission burst (*m*).
LENGth *n*	1 to 320	9-394	Specifies length (number of transmission bursts) of RDCCH message.
LENGth?		9-394	Returns RDCCH message length.
REPeat:			
OFF		9-399	Sends RACH message once after initial transmission.
ON		9-399	Sends RACH message at Repeat Rate after initial transmission.
SYNC *n*	1 or 0	9-399	Enables/disables Repeat Synchronizing.
SYNC?		9-399	Returns state of Repeat Synchronizing.
SEND		9-398	Sends RACH message once (Repeat is disabled) or repeatedly (Repeat is enabled).
STOP		9-398	Stops sending RACH message (when Repeat is turned on).

COMMAND	RANGE	PAGE	DESCRIPTION
MSS:			
RDCCH:			
MODE:			
CONTiguous		9-391	Selects transmission in Full-Rate TDMA Channel.
DATA:			
ACKED *n*	1 or 0	9-418	Enables/disables Data Mode Acked Data.
ACKED?		9-418	Returns state of Data Mode Acked Data.
CRC *n*	1 or 0	9-419	Enables/disables Data Mode CRC.
CRC?		9-419	Returns state of Data Mode CRC.
PART *n*	1 or 0	9-419	Enables/disables Data Mode Data Part.
PART?		9-419	Returns Data Mode Data Part.
PM *n*	0 to 7	9-418	Specifies Data Privacy.
PM?		9-418	Returns Data Privacy.
RLP *n*	0 to 3	9-419	Specifies Data Mode RLP.
RLP?		9-419	Returns Data Mode RLP.
SAP *n*	1 or 0	9-418	Enables/disables Data Mode SAP.
SAP?		9-418	Returns state of Data Mode SAP.
SUBCHANnel		9-391	Selects transmission in RACH Sub Channel.
VOICe:			
PM *n*	0 to 7	9-418	Specifies Voice Privacy.
PM?		9-418	Returns Voice Privacy.
VC *n*	0 to 7	9-418	Specifies Voice Coder.
VC?		9-418	Returns Voice Coder.
MODEL *n*	0 to 15	9-411	Specifies Model Number.
MODEL?		9-411	Returns Model Number.
MSGtype:			
The user may specify from 1 to 8 Message Types.			
AUDITcon *n*	0 to 7	9-404	Selects Audit Confirmation message in position *n*.
AUTHentication *n*	0 to 7	9-404	Selects Authentication message in position *n*.
BSCHAL *n*	0 to 7	9-404	Selects Base Station Challenge Order message in position *n*.
BSMC *n*	0 to 7	9-404	Selects BSMC Message Delivery message in position *n*.
CAPability *n*	0 to 7	9-404	Selects Capability Report message in position *n*.
MACA *n*	0 to 7	9-404	Selects MACA Report message in position *n*.
ORIGination *n*	0 to 7	9-404	Selects Origination message in position *n*.
PAGE_RESPonse *n*	0 to 7	9-405	Selects Page Response message in position *n*.
QDISConnect *n*	0 to 7	9-405	Selects Queue Disconnect message in position *n*.
RDATA *n*	0 to 7	9-405	Selects R-DATA message in position *n*.
RDATA:			
ACCept *n*	0 to 7	9-405	Selects R-DATA ACCEPT message in position *n*.
REJect *n*	0 to 7	9-405	Selects R-DATA REJECT message in position *n*.
REGistration *n*	0 to 7	9-405	Selects Registration message in position *n*.
SERial *n*	0 to 7	9-405	Selects Serial Number message in position *n*.
SOC *n*	0 to 7	9-405	Selects SOC Message Delivery message in position *n*.
SPACHcon *n*	0 to 7	9-405	Selects SPACH Confirmation message in position *n*.
SSDUPcon *n*	0 to 7	9-406	Selects SSD Update Order Confirmation message in position *n*.
TEST *n*	0 to 7	9-406	Selects Test Registration message in position *n*.
UCHALcon *n*	0 to 7	9-406	Selects Unique Challenge Order Confirmation message in position *n*.
ORIG:			
ADDRess *"n"*		9-431	Specifies Address.
ADDRess:			
ENCoding *n*	1 or 0	9-431	Enables/disables User Originating Address Encoding.
ENCoding?		9-431	Returns state of User Originating Address Encoding.
ADDRess?		9-431	Returns Address.
PLANid *n*	0 to 15	9-431	Specifies User Originating Address ID Plan.
PLANid?		9-431	Returns User Originating Address ID Plan.
PRESentation:			
PI *n*	0 to 3	9-433	Specifies Presentation Indicator.
PI?		9-433	Returns Presentation Indicator.
SI *n*	0 to 3	9-433	Specifies Screen Indicator.
SI?		9-433	Returns Screen Indicator.

COMMAND	RANGE	PAGE	DESCRIPTION
MSS:			
RDCCH:			
ORIG:			
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-432	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-432	Returns selected Subaddress.
LENGth *n*	1 to 21	9-432	Specifies Subaddress Length.
LENGth?		9-432	Returns Subaddress Length.
ODD_EVEN *n*	1 or 0	9-432	Enables/disables Subaddress Odd/Even indicator.
ODD_EVEN?		9-432	Returns state of Subaddress Odd/Even indicator.
REServed *n*	0 to 15	9-432	Specifies number of User Originating Subaddress Reserved fields.
REServed?		9-432	Returns number of User Originating Subaddress Reserved fields.
TYPE *n*	0 to 3	9-432	Specifies Subaddress Type of Number.
TYPE?		9-432	Returns Subaddress Type of Number.
TYPE *n*	0 to 7	9-431	Specifies User Originating Address Type of Number.
TYPE?		9-431	Returns User Originating Address Type of Number.
PD *n*	0 to 3	9-407	Specifies Protocol Discriminator.
PD?		9-407	Returns Protocol Discriminator.
PFC:			
REQuest *n*	0 to 7	9-435	Specifies Paging Frame Class Request.
REQuest?		9-435	Returns Paging Frame Class Request.
PFC_1 *n*	0 to 7	9-407	Specifies Paging Frame Class Minus One.
PFC_1?		9-407	Returns Paging Frame Class.
PROGram		9-444	Programs RACH Message Generator with data constructed by Build command.
PROTocol:			
VERsion *n*	0 to 15	9-410	Specifies Protocol Version.
VERsion?		9-410	Returns Protocol Version.
PSID_RSID:			
MAP *n*	0 to #hFFFF	9-407	Specifies PSID/RSID Map.
MAP?		9-407	Returns PSID/RSID Map.
SELect *n*	0 to 15	9-407	Specifies Selected PSID/RSID (Private System ID/Residential System ID).
SELect?		9-407	Returns Selected PSID/RSID.
RANDBS *n*	0 to #hFFFFFFFF	9-409	Specifies RANDBS used in Authentication process.
RANDBS?		9-409	Returns RANDBS.
RANDC *n*	0 to 255	9-409	Specifies RANDC used in Authentication process.
RANDC?		9-409	Returns RANDC.
RCAUSe *n*	0 to 127	9-433	Specifies R-CAUSE.
RCAUSe:			
REServed *n*	1 or 0	9-433	Specifies Reserved field of R-Cause.
REServed?		9-433	Returns Reserved field of R-Cause.
RCAUSe?		9-433	Returns R-CAUSE.
RDATA:			
DELay *n*	0 to 15	9-433	Specifies R-DATA DELAY.
DELay?		9-433	Returns R-DATA DELAY.
MESSage:			
LENGth?		9-426	Returns the calculated length of the RDATA message.
RDATA_UNIT:			
HLP:			
DATA *n,m*	0 to 255, 0 to 255	9-426	Specifies selected R-Data Higher Layer Protocol Data Unit (*m*).
DATA? *n*	0 to 255	9-426	Returns selected Higher Layer Protocol Data Unit.
IDentifier *n*	0 to 255	9-426	Specifies R-Data Unit Higher Protocol Identifier.
IDentifier?		9-426	Returns R-Data Unit Higher Protocol Identifier.
LENGth *n*	0 to 255	9-426	Specifies R-Data Unit Length Indicator.
LENGth?		9-426	Returns R-Data Unit Length Indicator.
REG:			
TYPE *n*	0 to 15	9-434	Specifies Registration Type.
TYPE?		9-434	Returns Registration Type.
RTRANSaction *n*	0 to 255	9-426	Specifies R-Transaction Identifier.
RTRANSaction?		9-426	Returns R-Transaction Identifier.
SCM *n*	0 to 31	9-410	Specifies Station Class Mark.
SCM?		9-410	Returns Station Class Mark.

COMMAND	RANGE	PAGE	DESCRIPTION
MSS:			
RDCCH:			
SELect:			
RANDom		9-392	Selects Random Data for data field in transmission bursts on RDCCH.
USER		9-392	Selects a user-defined data pattern for data field in transmission bursts on RDCCH.
SERVice *n*	0 to 15	9-417	Specifies Service Code.
SERVice?		9-417	Returns Service Code.
SID_REPort *n*	0 to #h7FFF	9-435	Specifies SIDs-p.
SID_REPort?		9-435	Returns SIDs-p.
SOC *n*	0 to 4095	9-435	Specifies System Operator Code.
SOC?		9-435	Returns SOC.
SSDUP:			
STATus *n*	0 to 3	9-436	Specifies SSD Update Status.
STATus?		9-436	Returns SSD Update Status.
STARt		9-393	Starts transmission in RDCCH.
STOP		9-393	Stops transmission in RDCCH.
SUBaddress:			
ADDRess *n,m*	0 to 19, 0 to 255	9-408	Specifies selected Subaddress (*m*).
ADDRess? *n*	0 to 19	9-408	Returns selected Subaddress.
LENGth *n*	1 to 21	9-408	Specifies Subaddress Length.
LENGth?		9-408	Returns Subaddress Length.
ODD_EVEN *n*	1 or 0	9-408	Enables/disables Subaddress Odd/Even indicator.
ODD_EVEN?		9-408	Returns state of Subaddress Odd/Even indicator.
REServed *n*	0 to 15	9-408	Specifies number of subaddress Reserved fields.
REServed?		9-408	Returns number of subaddress Reserved fields.
TYPE *n*	0 to 3	9-408	Specifies Type of subaddress.
TYPE?		9-408	Returns Type of subaddress.
SUPPort:			
ALT_SOC *n*	0 to #hFFF	9-414	Specifies ALT_SOC_Support.
ALT_SOC?		9-414	Returns ALT_SOC_Support.
ANA800 *n*	1 or 0	9-413	Enables/disables 800 MHz Analog Speech Support.
ANA800?		9-413	Returns state of ANA800.
ASYNC *n*	1 or 0	9-412	Enables/disables Async Data Support.
ASYNC?		9-412	Returns state of Async Data Support.
BSMC *n*	1 or 0	9-412	Enables/disables BSMC Support.
BSMC?		9-412	Returns state of BSMC Support.
DOUBle *n*	1 or 0	9-413	Enables/disables Double Rate DTC Support.
DOUBle?		9-413	Returns state of Double Rate DTC Support.
FREQuency:			
BANDS *n*	0 to 255	9-412	Specifies Supported Frequency Bands.
BANDS?		9-412	Returns Supported Frequency Bands.
G3fax *n*	1 or 0	9-412	Enables/disables G3-Fax Support.
G3fax?		9-412	Returns state of G3-Fax Support.
HALF *n*	1 or 0	9-413	Enables/disables Half-Rate DTC Support.
HALF?		9-413	Returns state of Half-Rate DTC Support.
IRA *n*	1 or 0	9-413	Enables/disables International Reference Alphabet Support.
IRA?		9-413	Returns state of IRA Support.
MAX:			
PFC *n*	0 to 7	9-411	Specifies MAX_SUPPORTED_PFC.
PFC?		9-411	Returns MAX_SUPPORTED_PFC.
SMS *n*	1 or 0	9-412	Enables/disables SMS Broadcast Support.
SMS?		9-412	Returns state of SMS Broadcast Support.
SOC *n*	1 or 0	9-411	Enables/disables SOC Support.
SOC?		9-411	Returns state of SOC Support.
STU_III *n*	1 or 0	9-414	Enables/disables STU-III Support.
STU_III?		9-414	Returns state of STU-III Support.
SUBaddress *n*	1 or 0	9-412	Enables/disables Subaddressing Support.
SUBaddress?		9-412	Returns state of Subaddressing Support.
TRIPle *n*	1 or 0	9-414	Enables/disables Triple Rate DTC Support.
TRIPle?		9-414	Returns state of Triple Rate DTC Support.
USER *n*	1 or 0	9-413	Enables/disables User Group Support.
USER?		9-413	Returns state of User Group Support.

COMMAND	RANGE	PAGE	DESCRIPTION
MSS:			
RDCCH:			
TA *n*	-10 to 60	9-392	Specifies time alignment adjustment from Standard Offset Reference in half symbols.
TA?		9-392	Returns time alignment adjustment from Standard Offset Reference in half symbols.
USER *n,word*	0 to 6, 0 to #hFFFF	9-393	Specifies selected 16 bit *word*.
USER:			
GROUP:			
STATus *n*	0 to 3	9-427	Specifies User Group Status.
STATus?		9-427	Returns User Group Status.
TYPE *n*	0 to 3	9-428	Specifies User Group Type.
TYPE?		9-428	Returns User Group Type.
UGID:			
LS *n*	0 to #hFFFFFFFF	9-428	Specifies 32 least significant bits of User Group ID.
LS?		9-428	Returns 32 least significant bits of User Group ID.
MS *n*	0 to #h3FFFF	9-428	Specifies 18 most significant bits of User Group ID.
MS?		9-428	Returns 18 most significant bits of User Group ID.
MIN *"n"*	"123/456-7890"	9-428	Specifies MIN.
MIN?		9-428	Returns MIN.
VC_MAP *n*	0 to #h3F	9-414	Specifies Voice Coder Map Info.
VC_MAP?		9-414	Returns Voice Coder Map Info.
VINtage:			
FIRMware *n*	0 to 63	9-411	Specifies Firmware Vintage.
FIRMware?		9-411	Returns Firmware Vintage.
SOFTware *n*	0 to 63	9-411	Specifies Software Vintage.
SOFTware?		9-411	Returns Software Vintage.
VOICEMode:			
NUMBer *n*	0 to 8	9-420	Specifies the Number of instances of Voice Mode.
NUMBer?		9-420	Returns the Number of instances of Voice Mode.
PM *n,m*	0 to 7, 0 to 7	9-420	Specifies PM_V (*m*) for selected instance of Voice Mode.
PM? *n*	0 to 7	9-420	Returns PM_V for selected instance of Voice Mode.
VC *n,m*	0 to 7, 0 to 7	9-420	Specifies VC (*m*) for selected instance of Voice Mode.
VC? *n*	0 to 7	9-420	Returns VC for selected instance of Voice Mode.
RDTC:			
DVCC *n*	1 to 255	9-445	Specifies DVCC transmitted on RDTC.
DVCC?		9-445	Returns DVCC.
FACCH: or SACCH:			
RAW *n1,n2,n3,n4,n5,n6...*		9-446	Sends RAW message on RDTC. Number of arguments must be a multiple of 6.
LENGth:			
NORMal		9-445	Selects Normal length burst.
SHORTened		9-445	Selects Shortened length burst.
START		9-445	Starts transmitting on RDTC.
STOP		9-445	Stops transmitting on RDTC.
TA *n*	-10 to 60	9-445	Specifies time alignment adjustment from Standard Offset Reference in half symbols.
TA?		9-445	Returns time alignment adjustment from Standard Offset Reference in half symbols.
VOCoder:			
ACELP		9-445	Selects ACELP vocoder.
VSELP		9-445	Selects VSELP vocoder.
RFLVL *n*	-127.0 to -20.0	9-390	Specifies RF output level in dBm.
RVC:			
SAT *n*	0 (Off), 5965 to 6035	9-446	Specifies Supervisory Audio Tone used on RVC.
SAT?		9-446	Returns SAT.
START		9-446	Starts transmitting on RVC.
STOP		9-446	Stops transmitting on RVC.
SETup		9-389	Configures Sp Tst to simulate a Mobile Station.
SLOT *n*	1 to 3	9-390	Specifies DCCH Full Rate Slot.
SLOT?		9-390	Returns DCCH slot selection.

COMMAND	RANGE	PAGE	DESCRIPTION
POWER MEASURE COMMANDS			
POWer:			
FDTC:			
CABLE:			
LOSS *n*	-50.0 to 50.0	9-450	Specifies loss (+) or gain (-) in dB between signal source and T/R Connector.
MEASLow? n	1 or 0	9-450	Returns TDMA power (dBm) on a DTC applied to the Antenna Connector. (*n* = 1) Low power initialization of Power Meter prior to measurement. (*n* = 0) Power measurement only.
FDTC: or RDTC:			
CHANnel *n*	1 to 1999	9-450	Specifies DTC channel on which to perform TDMA power measurement.
MEASure?		9-450	Returns TDMA power (mW) on a DTC applied to T/R Connector.
SETup		9-450	Configures Sp Tst to measure TDMA power on a DTC.
ZERO		9-450	Sets the TDMA Power Meter to a zero power reference at the T/R Connector.
RDCCH DATA MONITOR			
Queries for received data, return -1 if data is not available or has already been read.			
RDCCH:			
AUTHR?		9-161	Returns AUTHR (18 bit value).
AUTHU?		9-175	Returns AUTHU (18 bit value).
BANDWidth?		9-167	Returns Bandwidth.
BSMC?		9-162	Returns Base Station Manufacture Code.
BT?		9-158	Returns Burst Type.
CALLED:			
ADDRess?		9-167	Returns ADDRess.
ENCoding?		9-167	Returns state of ENCoding.
LENGth?		9-167	Returns LENGth.
PLANid?		9-167	Returns PLANid.
SUBaddress:			
ADDRess? *n*	0 to 19	9-168	Returns Called Subaddress from selected L3DATA Message.
LENGth?		9-168	Returns LENGth.
ODD_EVEN?		9-168	Returns state of ODD_EVEN.
REServed?		9-168	Returns Called Party Subaddress Reserved fields.
TYPE?		9-168	Returns TYPE.
TYPE?		9-167	Returns TYPE.
CALLING:			
ADDRess?		9-168	Returns ADDRess.
ENCoding?		9-168	Returns state of ENCoding.
LENGth?		9-168	Returns LENGth.
PLANid?		9-168	Returns PLANid.
PRESentation:			
PI?		9-169	Returns Presentation Indicator.
SI?		9-169	Returns Screening Indicator.
SUBaddress:			
ADDRess? *n*	0 to 19	9-169	Returns Calling Subaddress from selected L3DATA Message.
LENGth?		9-169	Returns LENGth.
ODD_EVEN?		9-169	Returns state of ODD_EVEN.
REServed?		9-169	Returns Calling Party Subaddress Reserved fields.
TYPE?		9-169	Returns TYPE.
TYPE?		9-168	Returns TYPE.
CHANnel *n*	1 to 333 (U4), 1 to 1023 (U8), 1 to 1999 (HY)	9-151	Specifies Reverse Channel to monitor.
CHANnel?		9-151	Returns current value of CHANnel.
CI?		9-158	Returns state of Change Indicator.
CNUMBer:			
ADDRess?		9-174	Returns C-Number Address.
ENCoding?		9-174	Returns state of C-Number Address Encoding.
LENGth?		9-174	Returns LENGth.
PLANid?		9-174	Returns C-Number ID Plan (4 bit value).
TYPE?		9-174	Returns C-Number Type of Number.

COMMAND	RANGE	PAGE	DESCRIPTION
RDCCH:			
CONFigure:			
NONE		9-151	Same as RDCCH:SETup, except does not select screen.
USER		9-151	Same as RDCCH:SETup, except selects user screen.
CONFIRMed:			
MSGtype?		9-175	Returns Confirmed Message Type.
COUNt?		9-161	Returns COUNt.
CRC?		9-160	Returns Cyclic Redundancy Code.
CUSTom:			
CONTrol? *n*	0 to 252	9-162	Returns selected Custom Control.
LENGth?		9-162	Returns Custom Control Length.
DISPlay:			
CHARacter? *n*	0 to 81	9-161	Returns selected Display Character.
LENGth?		9-161	Returns Length of Display Information.
DVCC *n*	0 to 255	9-152	Specifies Digital Verification Color Code.
DVCC?		9-152	Returns DVCC.
EHI?		9-158	Returns state of Extension Header Indicator.
EMERgency?		9-165	Returns state of Emergency Call.
ESN?		9-175	Returns Electronic Serial Number (32 bit value).
FRNO_MAP?		9-159	Returns Frame Number Map.
IDT?		9-158	Returns Identity Type.
L3:			
DATA? *i,l*	0 to 64, 0 to 255	F-4	Returns the last received layer 3 data.
LENGTH?		F-4	Returns the length of the last decoded layer 3 data.
L3DATA:			
SELect *n*	0 to 7	9-159	Selects Layer 3 data message from which to access data.
SELect?		9-159	Returns SELect.
L3LI? *n*	0 to 7	9-159	Returns selected 8 bit Layer 3 Length Indicator.
LAYER2:			
DECode *n*	0 to 99	9-155	Decodes selected frame of data in raw buffer.
RACH:			
ARQ_RSVD?		9-155	Returns Automatic Retransmission Request RSVD.
BT?		9-155	Returns Burst Type.
CI?		9-155	Returns state of Change Indicator.
EH_RSVD?		9-155	Returns state of Extended Header RSVD.
EHI?		9-155	Returns state of Extension Header Indicator.
END_RSVD?		9-155	Returns state of END frame RSVD.
FRNO_MAP?		9-155	Returns Frame Number Map.
IDT?		9-155	Returns Identity Type.
L3DATA? *n,x*	0 to 7, 0 to 15	9-156	Returns selected 8 bit word (*x*) of selected Layer 3 Data message.
L3LENGTH? *n*	0 to 7	9-156	Returns selected 8 bit value of Length in Layer 3 data field.
L3LI? *n*	0 to 7	9-156	Returns selected 8 bit value of Layer 3 Length Indicator.
MEA?		9-156	Returns Message Encryption Algorithm.
MEK?		9-156	Returns Message Encryption Key.
MIN?		9-156	Returns Mobile ID Number.
MSID? *n*	0 to 6	9-157	Returns the selected 8 bit word of Mobile Station ID. (0 = Least significant, 6 = Most significant).
NL3M?		9-157	Returns Number of Layer 3 Messages.
PEA?		9-157	Returns Partial Echo Assigned.
LENGth:			
ABBREViated		9-152	Configures the Sp Tst to decode abbreviated length bursts on RDCCH.
NORMal		9-152	Configures Sp Tst to decode normal length bursts on RDCCH.
LENGth?		9-152	Returns state of LENGth: 0 = Normal, 1 = Abbreviated.
LT?		9-165	Returns state of Last Try.
MANufacture?		9-162	Returns Manufacture Code.
MEA?		9-159	Returns Message Encryption Algorithm.
MEASurement:			
LTM:			
BER?		9-164	Returns LTM Measurement Bit Error Rate.
FULL?		9-164	Returns state of LTM Measurement Full Measurement Indicator.
RSS?		9-164	Returns LTM Measurement Receive Signal Strength.
WER?		9-164	Returns Word Error Rate.

COMMAND	RANGE	PAGE	DESCRIPTION
RDCCH:			
MEASurement:			
OTHER:			
STM:			
LENGth?		9-165	Returns STM Measurement (Other Hyperband) Report Map Length.
REPort?		9-165	Returns STM Measurement (Other Hyperband) Report Map.
RSS? *n*	0 to 14	9-165	Returns STM Measurement (Other Hyperband) ST_RSS of selected bit position.
STM:			
NV?		9-164	Returns STM Measurement Number of Values.
RSS? *n*	0 to 15	9-164	Returns selected STM Measurement Receive Signal Strength.
MEK?		9-159	Returns Message Encryption Key.
MEM:			
MEA?		9-167	Returns Message Encryption Algorithm.
MED?		9-167	Returns Message Encryption Domain.
MEK?		9-167	Returns Message Encryption Key.
MESSage:			
CENTer:			
ADDRess?		9-170	Returns ADDRess.
ENCoding?		9-170	Returns state of ENCoding.
LENGth?		9-170	Returns LENGth.
PLANid?		9-170	Returns PLANid.
TYPE?		9-170	Returns TYPE.
MIN?		9-158	Returns Mobile ID Number associated with a 34 bit Mobile Station Identity.
MODE:			
DATA:			
ACKED?		9-166	Returns state of Data Mode Acked Data.
CRC?		9-166	Returns Data Mode CRC.
PART?		9-166	Returns Data Mode Data Part.
PM?		9-166	Returns Data Mode PM_D.
RLP?		9-166	Returns Data Mode RLP.
SAP?		9-166	Returns state of Data Mode SAP.
VOICe:			
PM?		9-165	Returns Voice Mode PM_V.
VC?		9-165	Returns Voice Mode VC.
MODEL?		9-162	Returns Model Number.
MSGtype?		9-160	Returns Message Type.
MSID:			
LS?		9-158	Returns 32 Least Significant bits of Mobile Station ID.
MS?		9-158	Returns 18 Most Significant bits of Mobile Station ID.
NL3M?		9-159	Returns Number of Layer 3 Messages.
PD?		9-160	Returns Protocol Discriminator.
PEA?		9-159	Returns Partial Echo Assigned.
PFC:			
REQuest?		9-175	Returns Paging Frame Class Request.
PFC_1?		9-160	Returns Paging Frame Class.
PROTocol:			
VERsion?		9-162	Returns Protocol Version.
PSID_RSID:			
MAP?		9-160	Returns PSID/RSID Map.
SELect?		9-160	Returns Selected PSID/RSID.
RANDBS?		9-161	Returns 32 bit RANDBS.
RANDC?		9-161	Returns 8 bit RANDC.
RATE *n*	0 = Full, 1 = Half	9-151	Selects Transmission Rate.
RATE?		9-151	Returns state of RATE.

COMMAND	RANGE	PAGE	DESCRIPTION
RDCCH:			
RAW:			
COUNT?		9-154	Returns number of frames received and stored into raw buffer.
DATA? *n,x*	0 to 99, 0 to 15	9-154	Returns raw data byte (*x*) in selected raw data frame.
DEPTH *n*	0 to 99	9-154	Specifies depth of raw buffer.
PREAMble? *n*	0 to 99	9-154	Returns Preamble (16 bit value) in selected raw data frame.
STARt		9-154	Starts capturing raw data on RDCCH.
STOP		9-154	Stops capturing raw data on RDCCH.
SYNC? *n*	0 to 99	9-154	Returns SYNC in selected raw data frame.
SYNCPLUS? *n*	0 to 99	9-154	Returns SYNC+ in selected raw data frame.
TS? *n*	0 to 99	9-154	Returns Time Stamp in ms of selected raw data frame.
RCAUSe:			
REServed?		9-174	Returns Reserved field of R-Cause from selected L3DATA Message.
RCAUSE?		9-174	Returns RCAUSE.
RDATA:			
DELay?		9-174	Returns R-DATA Delay from selected L3DATA Message.
RDATA_UNIT:			
HLP:			
DATA? *n*	0 to 255	9-170	Returns selected Higher Layer Protocol DATA unit.
IDentifier?		9-170	Returns Higher Layer Protocol IDentifier.
LENGth?		9-170	Returns LENGth.
REG:			
TYPE?		9-174	Returns Registration Type.
REMote:			
RAW:			
DVCC *n*	1 to 255	9-153	Specifies Digital Verification Color Code.
LENGth:			
ABBREViated		9-153	Configures Sp Tst to decode abbreviated length bursts on RDCCH.
NORMal		9-153	Configures Sp Tst to decode normal length bursts on RDCCH.
STARt		9-153	Starts sending received, de-interleaved and decoded data out OPT. RS-232 Connector.
STOP		9-153	Stops sending received data out OPT. RS-232 Connector.
TIMEslot:			
STARt		9-152	Starts sending received data out OPT. RS-232 Connector.
STOP		9-152	Stops sending received data out OPT. RS-232 Connector.
RSVD:			
ARQ?		9-150	Returns ARQ RSVD.
EHI?		9-160	Returns state of Extended Header Indicator RSVD.
END?		9-160	Returns state of END frame RSVD.
RTRANSaction?		9-170	Returns RTRANSaction.
SCM?		9-162	Returns Station Class Mark.
SERVice?		9-165	Returns Service Code.
SETup		9-151	Configures Sp Tst to receive on RDCCH.
SID_REPort?		9-175	Returns SIDs-p.
SLOT *n*	1 to 3	9-151	Specifies SLOT pair on which to receive.
SOC?		9-175	Returns SOC.
SSDUP:			
STATus?		9-175	Returns SSD Update Status.
START		9-158	Starts background task running decoding RDCCH message information elements.
STOP		9-158	Stops background RDCCH decode task.
SUBaddress:			
ADDRess? *n*	0 to 19	9-161	Returns Subaddress from selected L3DATA Message.
LENGth?		9-161	Returns LENGth.
ODD_EVEN?		9-161	Returns state of ODD_EVEN.
REServed?		9-161	Returns state of REServed.
TYPE?		9-161	Returns TYPE.

COMMAND	RANGE	PAGE	DESCRIPTION
RDCCH:			
SUPPort:			
ALT_SOC?		9-164	Returns ALT_SOC_Support.
ANA800?		9-163	Returns state of 800 MHz Analog Speech Support.
ASYNC?		9-163	Returns state of Async Data Support.
BSMC?		9-163	Returns state of BSMC Support.
DOUBle?		9-163	Returns state of Double Rate DTC Support.
FREQuency:			
BANDS?		9-163	Returns Supported Frequency Bands.
G3fax?		9-163	Returns state of G3-Fax Support.
HALF?		9-163	Returns state of Half-Rate DTC Support.
IRA?		9-163	Returns state of IRA Support.
MAX:			
PFC?		9-162	Returns MAX_SUPPORTED_PFC.
SMS?		9-163	Returns state of SMS Broadcast Support.
SOC?		9-162	Returns state of SOC Support.
STU_III?		9-164	Returns state of STU-III Support.
SUBaddress?		9-163	Returns state of Subaddressing Support.
TRIPle?		9-163	Returns state of Triple Rate DTC Support.
USER?		9-163	Returns state of User Group Support.
SYNC?		9-158	Returns RDCCH sync word.
SYNCPlus?		9-158	Returns RDCCH sync plus word.
USER:			
DEST:			
ADDRess?		9-171	Returns ADDRess.
ENCoding?		9-171	Returns state of ENCoding.
LENGth?		9-171	Returns LENGth.
PLANid?		9-171	Returns PLANid.
SUBaddress:			
ADDRess? *n*	0 to 19	9-172	Returns User Destination Subaddress from selected L3DATA Message.
LENGth?		9-172	Returns LENGth.
ODD_EVEN?		9-172	Returns state of ODD_EVEN.
REServed?		9-172	Returns User Destination Subaddress Reserved fields.
TYPE?		9-172	Returns TYPE.
TYPE?		9-171	Returns TYPE.
GROUP:			
STATUS?		9-171	Returns STATUS.
TYPE?		9-171	Returns TYPE.
UGID:			
LS?		9-171	Returns 32 Least Significant Bits of User Group ID.
MS?		9-171	Returns 18 Most Significant Bits of User Group ID.
ORIG:			
ADDRess?		9-172	Returns ADDRess.
ENCoding?		9-172	Returns state of ENCoding.
LENGth?		9-172	Returns LENGth.
PLANid?		9-172	Returns PLANid.
PRESentation:			
PI?		9-173	Returns Presentation Indicator.
SI?		9-173	Returns Screening Indicator.
SUBaddress:			
ADDRess? *n*	0 to 19	9-173	Returns User Origination Subaddress from selected L3DATA Message.
LENGth?		9-173	Returns LENGth.
ODD_EVEN?		9-173	Returns state of ODD_EVEN.
REServed?		9-173	Returns User Originating Subaddress Reserved fields.
TYPE?		9-173	Returns TYPE.
TYPE?		9-173	Returns TYPE.
VC_MAP?		9-164	Returns Voice Coder Map Info.
VINtage:			
FIRMware?		9-162	Returns Firmware Vintage.
SOFTware?		9-162	Returns Software Vintage.

COMMAND	RANGE	PAGE	DESCRIPTION
RDCCH:			
VOICEMode:			
NUMBer?		9-166	Returns Number of instances of Voice Mode in selected L3DATA Message.
PM? *n*	0 to 7	9-166	Returns PM_V from selected instance of Voice Mode in selected L3DATA Message.
VC? *n*	0 to 7	9-166	Returns VC from selected instance of Voice Mode in selected L3DATA Message.

REVERSE DIGITAL TRAFFIC CHANNEL (RDTC) MONITOR COMMANDS

Queries for received data, return -1 if data is not available or has already been read.

RDTC:			
AUTO:			
ACKnowledge:			
ENABle *n*	1 or 0	9-51	Enables/disables automatic message acknowledgement on RDTC.
ENABle?		9-51	Returns state of automatic message acknowledgement on RDTC.
CHANnel *n*	1 to 333 (U4), 1 to 1023 (U8), 1 to 1999 (HY)	9-50	Selects Reverse Digital Traffic Channel to monitor.
CONFigure:			
NONE		9-50	Same as **RDTC:SETup,** except does not select a screen.
USER		9-50	Same as **RDTC:SETup,** except selects the USER screen.
FACCH: or SACCH:			
AMT?		9-53	Returns Acknowledge Message Type.
AUTHRA?		9-53	Returns AUTHRA used in Re-Authentication Order Confirmation
AUTHU?		9-53	Returns AUTHU in Unique Challenge Order Confirmation.
BANDWidth?		9-53	Returns Bandwidth.
BER?		9-54	Returns Bit Error Rate.
BSMC?		9-54	Returns BSMC.
CALLED:			
NUM?		9-54	Returns number of Called Party.
PLANid?		9-54	Returns Called Party Numbering Plan ID.
SPare?		9-54	Returns state of Called Party Number Spare bit.
TYpe?		9-54	Returns Called Party Number Type.
CALLING:			
NUM?		9-55	Returns Number of Calling Party.
PI?		9-55	Returns Calling Party Number Presentation Indicator.
PLANid?		9-55	Returns Calling Party Numbering Plan ID.
SI?		9-55	Returns Calling Party Number Screening Indicator.
SPare?		9-55	Returns Calling Party Number Spare bits.
TYpe?		9-55	Returns Calling Party Number Type.
CM?		9-55	Returns Call Mode.
CUSTOM:			
CONTrol? *n*	0 to 255	9-56	Returns selected Custom Control.
LENGth?		9-56	Returns Length of custom control.
DIC?		9-56	Returns state of Delay Interval Compensation.
DIGits?		9-56	Returns up to 32 digits.
DMAC?		9-56	Returns Digital Mobile Attenuation Code.
DTX?		9-56	Returns state of Discontinuous Transmission.
ESN?		9-56	Returns Electronic Serial Number.
FI?		9-56	Returns Feature Indicator.
HYPERband:			
BAND? *n*	0 to 23	9-56	Returns selected Hyperband band.
CHANnel? *n*	0 to 23	9-56	Returns selected Hyperband Channel.
NUMBer?		9-56	Returns Number of Hyperband Channels.
KF?		9-57	Returns Keypad Facility.
L3:			
DATA? *i,l*	0 to 64, 0 to 255	F-4	Returns the last received layer 3 data.
LENGTH?		F-4	Returns the length of the last decoded layer 3 data.
LDP?		9-57	Returns Last Decoded Parameter.

COMMAND	RANGE	PAGE	DESCRIPTION
RDTC:			
FACCH: or SACCH:			
MAP:			
ARQ?		9-57	Returns state of FACCH/SACCH ARQ Map.
CODER?		9-57	Returns Voice Coder Map.
MEA:			
ALGORithms? *n*	0 to 7	9-57	Returns selected Message Encryption Algorithms.
DOMAIN?		9-57	Returns Message Encryption Algorithm Map Domain.
MEK?		9-57	Returns Message Encryption Key Map.
SMS?		9-57	Returns SMS Map.
VPM?		9-57	Returns Voice Privacy Mode Map.
MEM?		9-57	Returns state of Memory Encryption Mode.
MESSage:			
CENTer:			
ADDRess?		9-58	Returns Message Center Address.
ENCoding?		9-58	Returns state of Message Center Address Encoding.
LENGth?		9-58	Returns Message Center Address Extended Remaining Length.
PLANid?		9-58	Returns Message Center Address Number Plan ID.
TYPE?		9-58	Returns Message Center Address Type of Number.
MODe:			
DATA:			
ACKED?		9-59	Returns Acked Data.
CRC?		9-59	Returns CRC.
PART?		9-59	Returns Data Part.
PM?		9-59	Returns PM_D (data privacy mode).
REServed		9-59	Returns Reserved field of Data Mode information element.
RLP?		9-59	Returns RLP (radio link protocol).
SAP?		9-59	Returns SAP.
VOICe:			
PM_V?		9-58	Returns PM_V (voice privacy mode information).
VC?		9-58	Returns VC (voice coder information).
MSGtype?		9-53	Returns Message Type received from Mobile Station.
NV?		9-60	Returns Numbers of Values.
PD?		9-60	Returns Protocol Discriminator.
PT?		9-60	Returns Parameter Types.
PV?		9-60	Returns Protocol Version.
RANDBS?		9-60	Returns RANDBS used in the Base Station Challenge Order.
RCAUSe:			
REServed?		9-60	Returns R-Cause Reserved field.
RCAUSE?		9-60	Returns R-Cause.
RDATA_UNIT:			
HLP:			
DATA? *n*	0 to 253	9-61	Returns selected R-Data Unit Higher Layer Protocol Data Unit.
IDentifier?		9-61	Returns R-Data Unit Higher Layer Protocol Identifier.
LENGth?		9-61	Returns R-Data Unit Extended Remaining Length.
RFCHAN? *n*	0 to 23	9-61	Returns selected RFCHAN.
RL?		9-61	Returns Remaining Length.
RN?		9-61	Returns Request Number.
RR?		9-61	Returns Release Reason.
RSSI? *n*	0 to 11	9-61	Returns selected Received Signal Strength Indicator.
RSSIC?		9-61	Returns Received Signal Strength Indicator of Current RF Channel.
RTRANSaction?		9-62	Returns R-Transaction Identifier.
SERVice:			
CODE?		9-62	Returns Service Code.
SOC?		9-62	Returns SOC.
SSDUP?		9-62	Returns state of Shared Secret Data Update.
SUPPort:			
ANAlog?		9-62	Returns state of 800 MHz Analog Speech Support.
FREQuency:			
BANDS?		9-62	Returns Supported Frequency Bands.
IRA?		9-62	Returns state of IRA Support.

COMMAND	RANGE	PAGE	DESCRIPTION
RDTC:			
FACCH: or SACCH:			
TA?		9-62	Returns Time Alignment offset.
TASK?		9-62	Returns Task Status.
TERMinf?		9-62	Returns Terminal Information of Mobile Station.
USER:			
DEST:			
ADDRess?		9-63	Returns User Destination Address.
ENCoding?		9-63	Returns state of User Destination Address Encoding.
LENGth?		9-63	Returns User Destination Address Extended Remaining Length.
PLANid?		9-63	Returns User Destination Address Number Plan ID.
SUBaddress:			
ADDRess?	0 to 19	9-63	Returns selected User Destination Subaddress.
LENGth?		9-63	Returns User Destination Subaddress Extended Remaining Length.
ODD_EVEN?		9-63	Returns state of User Destination Subaddress Odd/Even Indicator.
REServed?		9-63	Returns User Destination Subaddress Reserved bits.
TYPE?		9-63	Returns User Destination Type of Subaddress.
TYPE?		9-63	Returns User Destination Address Type of Number.
ORIG:			
ADDRess?		9-64	Returns User Originating Address.
ENCoding?		9-64	Returns state of User Originating Address Encoding.
LENGth?		9-64	Returns User Originating Address Extended Remaining Length.
PLANid?		9-64	Returns User Originating Address Number Plan ID.
PRESentation:			
LENGth?		9-65	Returns User Originating Address Presentation Indicator Extended Remaining Length.
PI?		9-65	Returns User Originating Address Presentation Indicator.
REServed?		9-65	Returns User Originating Address Presentation Indicator Reserved bits.
SI?		9-65	Returns User Originating Address Screening Indicator.
SUBaddress:			
ADDRess?	0 to 19	9-64	Returns selected User Originating Subaddress.
LENGth?		9-64	Returns User Originating Subaddress Extended Remaining Length.
ODD_EVEN?		9-64	Returns state of User Originating Subaddress Odd/Even Indicator.
REServed?		9-64	Returns User Originating Subaddress Reserved bits.
TYPE?		9-64	Returns User Originating Type of Subaddress.
TYPE?		9-64	Returns User Originating Address Type of Number.
VPM?		9-65	Returns state of Voice Privacy Mode.
R0?		9-52	Returns VSELP frame energy value.
REMote:			
STARt		9-51	Stops decoding RDTC and redirects VSELP data out OPT. RS-232 Connector.
STOP		9-51	Stops redirection of VSELP data out OPT. RS-232 Connector.
SETup		9-50	Sets up Sp Tst as when entering the Reverse Digital Traffic Channel Screen, except screen is not displayed.
SLOT *n*	1 to 3	9-50	Selects Timeslot.
STARt		9-50	Starts decoding Reverse Digital Traffic Channel data.
STOP		9-50	Stops decoding Reverse Digital Traffic Channel data.
VOCoder:			
ACELP		9-51	Selects ACELP vocoder.
VSELP		9-51	Selects VSELP vocoder.

COMMAND	RANGE	PAGE	DESCRIPTION

REVERSE CONTROL CHANNEL (RECC) MONITOR COMMANDS

Queries for received data, return -1 if data is not available or has already been read.

RECC:			
AUTHR?		9-45	Returns AUTHR from Mobile Station Authentication Algorithms.
AUTHU?		9-45	Returns AUTHU used in Unique Challenge Order Confirmation.
CHANnel *n*	1 to 333 (U4), 1 to 1023 (U8), 1 to 1999 (HY)	9-44	Selects Reverse Control Channel to monitor.
CONFigure:			
NONE		9-44	Same as **RECC:SETup,** except does not select a screen.
USER		9-44	Same as **RECC:SETup,** except selects the USER screen.
COUNt?		9-45	Returns modulo-64 count sent from Mobile Station.
CRC?		9-45	Returns state of 16 or 24 bit CRC for data/fax call.
DATA:			
ACKED?		9-45	Returns state of Acked Data.
PART?		9-45	Returns Data Part.
DCC?		9-45	Returns Digital Color Code.
DIGITS1?		9-45	Returns up to 16 digits.
DIGITS2?		9-45	Returns up to 16 digits.
E?		9-46	Returns state of Extended Address.
EP?		9-46	Returns state of Extended Protocol.
ER?		9-46	Returns state of Extended Protocol Reverse Channel Indicator.
ESN?		9-46	Returns Electronic Serial Number.
LOCAL_MT?		9-46	Returns Local Control (Local Control message)/Message Type.
LT?		9-46	Returns state of Last Try.
MIN?		9-46	Returns Mobile ID Number of Mobile Station.
MPCI?		9-46	Returns state of Mobile Protocol Capability Indicator.
ORDERCD?		9-46	Returns Order Code.
ORDQ?		9-46	Returns Order Qualifier.
PM_D?		9-46	Returns Selected Privacy Mode.
RANDBS?		9-46	Returns RANDBS used in Base Station Challenge Order.
RANDC?		9-46	Returns RANDC.
RLP?		9-47	Returns Layer 2 Radio Link Protocol.
S?		9-47	Returns state of Serial Number.
SAP?		9-47	Returns state of Service Access Point.
SCM?		9-47	Returns Station Class Mark.
SDCC1?		9-47	Returns Supplementary Digital Color Code 1.
SDCC2?		9-47	Returns Supplementary Digital Color Code 2.
SERVice?		9-47	Returns Service code.
SETup		9-44	Sets up Sp Tst as when entering the Reverse Control Channel screen, except screen is not displayed.
STARt		9-44	Starts monitoring Reverse Control Channel data.
STOP		9-44	Stops monitoring Reverse Control Channel data.
TORDer?		9-45	Returns combination of T and Order Fields.

REVERSE VOICE CHANNEL (RVC) MONITOR COMMANDS

Queries for received data, return -1 if data is not available or has already been read.

RVC:			
AUTHu?		9-49	Returns AUTHU used in Unique Challenge Order Confirmation.
CHANnel *n*	1 to 333 (U4), 1 to 1023 (U8), 1 to 1999 (HY)	9-48	Selects Reverse Voice Channel to monitor.
CONFigure:			
NONE		9-48	Same as **RVC:SETup,** except does not select a screen.
USER		9-48	Same as **RVC:SETup**, except selects the USER screen.

COMMAND	RANGE	PAGE	DESCRIPTION
RVC:			
DIGITS?		9-49	Returns up to 32 digits.
ESN?		9-49	Returns Electronic Serial Number.
LOCAL_MT?		9-49	Returns Local Control/Message Type.
ORDERCD?		9-49	Returns Order Code.
ORDQ?		9-49	Returns Order Qualifier.
RANDbs?		9-49	Returns RANDBS used in Base Station Challenge Order.
SETup		9-48	Sets up Sp Tst as when entering the Reverse Voice Channel screen, except screen is not displayed.
STARt		9-48	Starts decoding Reverse Voice Channel data.
STOP		9-48	Stops decoding Reverse Voice Channel data.
TORDer?		9-49	Returns combination of T and Order Fields.
SPACH SEND COMMANDS			
SEND_ARCH *n*	0 to 31	9-337	Builds current SPACH message and sends message in one superframe. *n* is Superframe Phase of start of message.
SEND_HARD *n*	0 to 31	9-337	Builds message and sends message in both the primary and secondary superframes. *n* is Superframe Phase of start of message.
SEND_PCH *n*	0 to 31	9-337	Builds current SPACH message and sends message in both the primary and secondary superframes. *n* is Superframe Phase of start of message.
STATUS COMMANDS			
STATus:			
OPERation:			
CONDition *n*	0 to 32767	F-6	Sets bits on the Operation Condition Register.
CONDition?		F-6	Returns the value of the Operation Condition Register.
ENABle *n*	0 to 32767	F-6	Sets the enable mask (Operation Enable Register).
ENABle?		F-6	Returns the value of the Operational Status Enable Register.
EVENt?		F-6	Returns the value of the Operation Event Register.
NTRansition *n*	0 to 65535	F-6	Sets the Negative Transition Filter.
NTRansition?		F-6	Returns the value of the Negative Transition Filter.
PTRansition *n*	0 to 65535	F-6	Sets the Positive Transition Filter.
PTRansition?		F-6	Returns the value of the Positive Transition Filter.
PRESet		F-7	Configures the SCPI status data structures.

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SECTION 9 - SPECIAL TEST SPECIFIC TMAC COMMANDS

9-1 GENERAL

This Section lists the Special Test ("Sp Tst") specific commands by Operation Mode. Commands are used remotely through GPIB or RS-232 (as applicable) or as part of a TMAC program downloaded to the Sp Tst.

There are twelve major modes of operation:

Monitor	*FOCC*	Forward Control Channel Monitor
	FVC	Forward Voice Channel Monitor
	FDTC	Forward Digital Traffic Channel Monitor
	RECC	Reverse Control Channel Monitor
	RVC	Reverse Voice Channel Monitor
	RDTC	Reverse Digital Traffic Channel Monitor
	FDCCH	Forward Digital Control Channel Monitor
	RDCCH	Reverse Digital Control Channel Monitor
Simulation	*CSS*	Cell Site Simulation (ACC/DCCH)
	MSS	Mobile Station Simulation (DCCH only)
Measurement	*BER*	Bit Error Rate for RDTC
	MODacc	Modulation Accuracy for FDTC

Additionally, there are two utility modes of operation:

- *EDIT* - Build an edit field on the display of the HOST.
- *MMEMory* - Mass Memory system used to operate the Sp Tst Flash files directory.

Most of the commands can be entered using a short form or a long form. The short form is shown in upper case, while the remainder of the long form is shown in lower case. Upper and lower case letters are used only in this manual to differentiate between the long and short form of commands. TMAC executes any valid command (short or long form) whether in upper and lower case letters or a combination of upper and lower case letters.

Commands in each subsection are presented in logical operating order. Values are in decimal unless specified otherwise.

For remote operation of the Special Test functions, the Test Set must be in one of the HOST operation modes (i.e., the user must enter one the operation modes selectable front the Front Panel of the IFR-1900 CSA). Refer to Section 10 for programming examples.

Monitor commands, used to monitor forward channels from a Cell Site (Base Station) or reverse channels from a Mobile Phone (Station), implement the same functions available in the screens entered under Cell Site Data Monitor. **CSS:** commands, used to simulate a Cell Site, implement many of the same functions available in the screens entered under Cell Site Simulation. **BER:** commands implement the same functions available in the Base Station Digital Traffic BER screen. **MODacc:** commands implement the modulation accuracy functions available in the Modulation Accuracy screen.

9-2 HOST COMMANDS

HOST commands allow execution of HOST specific commands and general commands limited to HOST remote operation, when operating as the Sp Tst.

HOST *"string"*
[HOST "string"]
Issues commands, as strings, to the HOST.

Example:
```
HOST "SETUP:DUPL"     // Passes the SETUP:DUPL command to the HOST.
                      // HOST configures Test Set routing and displays
                      // screen for Duplex Operation.
```

HOST? *"string?"*
[HOST? "string?"]
Issues queries, as strings, to the HOST.

Example:
```
HOST? "MEAS:POW?"     // Passes the MEAS:POW? query to the HOST.
                      // HOST returns a power meter reading (if
                      // configured to take power meter readings).
```

9-3 FREQ:BAND COMMAND

The Sp Tst operates within three bands: U4 (NT400 - 400 MHz), U8 (AMPS - 800 MHz) and HY (Hyperband or PCS - 1900 MHz). The **FREQuency:BAND** command does not change the frequency of the Sp Tst, but must be used in conjunction with one of the CHANnel commands (see note in box below).

FREQuency:BAND *n*
[FREQuency:BAND n]
Selects frequency band in which to operate the Sp Tst.

n	**BAND**
0	U4 (NT400 - 400 MHz)
1	U8 (AMPS - 800 MHz)
2	HY (Hyperband or PCS - 1900 MHz)

The following commands select the channel in the band specified by **FREQ:BAND** *n*:

BER:RDTC:CHAN	CSS:CHAN	FDCCH:CHAN	FDTC:CHAN
FOCC:CHAN	FVC:CHAN	MOD:FDTC:CHAN	MSS:CHAN
RDCCH:CHAN	RDTC:CHAN	RECC:CHAN	RVC:CHAN

FREQuency:BAND?
[FREQuency:BAND?]
Returns the current value of frequency band.

9-4 FORWARD CONTROL CHANNEL (FOCC) MONITOR COMMANDS

9-4-1 FORWARD CONTROL CHANNEL CONTROL

FOCC:

SETup
[FOCC:SETup]
Sets up the Sp Tst as when entering the Forward Control Channel screen (screen is not displayed). The HOST is forced into Duplex Mode through selection of Duplex screen. The Antenna is selected as the input source.

CONFigure:

USER
[FOCC:CONFigure:USER]
This command is identical to the **FOCC:SETup** command except that the USER screen is selected.

NONE
[FOCC:CONFigure:NONE]
This command is identical to the **FOCC:SETup** command except that the Test Set remains in the screen currently displayed.

CHANnel *n*
[FOCC:CHANnel n]
Selects Forward Control Channel to monitor.

FREQuency:BAND (See 9-3)	**RANGE OF** *n*
0	1 to 333
1	1 to 1023
2	1 to 1999

STARt
[FOCC:STARt]
Starts background task which decodes Forward Control Channel data. Decoded data is stored internally by the Sp Tst and is returned by the TMAC commands in 9-4-2.

STOP
[FOCC:STOP]
Stops background task decoding Forward Control Channel data started by **FOCC:STARt**.

REMote:

STARt
[FOCC:REMote:STARt]
Stops decoding and redirects the received Forward Control Channel data (10 kbit) as ASCII characters out the RS-232 Connector. Each character represents one nibble (4 bits) of data. (Set Baud Rate to 38400 prior to command execution to allow RS-232 to maintain pace with the data received.)

STOP
[FOCC:REMote:STOP]
Stops redirection of Forward Control Channel data out the RS-232 Connector.

FOCC:

WORD:

The following **WORD:xxx** commands select Stream A or B or both of the FOCC to be decoded by the background task started by **FOCC:STARt** command. Each command is to be used only after issuing the **FOCC:STARt** command.

A
[FOCC:WORD:A]
Selects Stream A to decode.

B
[FOCC:WORD:B]
Selects Stream B to decode.

BOTH
[FOCC:WORD:BOTH]
Selects Streams A and B to decode.

STREAM:

A
[FOCC:STREAM:A]
Used prior to a decode data query (9-4-2), to select data from Stream A when both streams are being decoded (**FOCC:WORD:BOTH**).

B
[FOCC:STREAM:B]
Used prior to a decode data query (9-4-2), to select data from Stream B when both streams are being decoded (**FOCC:WORD:BOTH**).

CAPTure?
[FOCC:CAPTure?]
Used with Capture commands to test if a specific message (ORDER) and/or communication to specific Mobile Station (MIN) has occurred (returns 1). Returns 0 otherwise.

CAPTure:

CLEAR
[FOCC:CAPTure:CLEAR]
Restarts Capture Function (same as RECAP from front panel).

FOCC:

CAPTure:

SELect:

BOTH
[FOCC:CAPTure:SELect:BOTH]
Sets Capture Mode to BOTH (MIN and ORDER) to capture a specific message from communication with specific Mobile Station.

MIN
[FOCC:CAPTure:SELect:MIN]
Sets Capture Mode to MIN to capture communication with specific Mobile Station.

NONE
[FOCC:CAPTure:SELect:NONE]
Sets Capture Mode to NONE.

ORDER
[FOCC:CAPTure:SELect:ORDER]
Sets Capture Mode to ORDER to capture a specific message.

MODE?
[FOCC:CAPTure:MODE?]
Returns current Capture Mode setting (0 for NONE, 1 for ORDER, 2 for MIN or 3 for BOTH [MIN and ORDER]).

Messages (Orders) for capture (used when **FOCC:CAPTure:SELect:** command is set to ORDER or BOTH):

FOCC:

CAPTure:

A_ALERT
[FOCC:CAPTure:A_ALERT]
Selects Abbreviated Alert message as order for Capture.

AUDIT
[FOCC:CAPTure:AUDIT]
Selects Audit message as order for Capture.

AUT_REG
[FOCC:CAPTure:AUT_REG]
Selects Autonomous Registration Confirmation message as order for Capture.

BSCHALCON
[FOCC:CAPTure:BSCHALCON]
Selects Base Station Challenge Confirmation Message as order for Capture.

DIR_RTRY
[FOCC:CAPTure:DIR_RTRY]
Selects Directed-Retry message as order for Capture.

INTRCPT
[FOCC:CAPTure:INTRCPT]
Selects Intercept message as order for Capture.

LC
[FOCC:CAPTure:LC]
Selects Local Control message as order for Capture.

MSG_WTG
[FOCC:CAPTure:MSG_WTG]
Selects Message Waiting message as order for Capture.

N_AUT_REG
[FOCC:CAPTure:N_AUT_REG]
Selects Non-autonomous Registration Confirmation message as order for Capture.

PAGE
[FOCC:CAPTure:PAGE]
Selects Page as order for Capture.

RELease
[FOCC:CAPTure:RELease]
Selects Release message as order for Capture.

FOCC:

CAPTure:

REORDER
[FOCC:CAPTure:REORDER]
Selects Reorder message as order for Capture.

SLOT_1
[FOCC:CAPTure:SLOT_1]
Selects Slot 1 Handoff message as order for Capture.

SLOT_2
[FOCC:CAPTure:SLOT_2]
Selects Slot 2 Handoff message as order for Capture.

SLOT_3
[FOCC:CAPTure:SLOT_3]
Selects Slot 3 Handoff message as order for Capture.

SSD_UPdate
[FOCC:CAPTure:SSD_UPdate]
Selects Shared Secret Data Update as order for Capture.

UCHAL
[FOCC:CAPTure:UCHAL]
Selects Unique Challenge message as order for Capture.

VC_DES
[FOCC:CAPTure:VC_DES]
Selects Voice Channel Designation message as order for Capture.

ORDer?
[FOCC:CAPTure:ORDer?]
Returns name (string) of order currently selected for Capture.

Communication to specific Mobile Station for capture (used when **FOCC:CAPTure:SELect:** command is set to MIN or BOTH):

FOCC:

CAPTure:

MIN *"n"*
[FOCC:CAPTure:MIN "n"]
Selects Mobile Identification Number to Capture. The Mobile Identification Number (*n*) is entered as a string, with quotation marks. Wild cards are indicated using a tilde (~).

Examples:
```
FOCC:CAPTure:MIN "316/522-4981"
FOCC:CAPTure:MIN "~ ~ ~/522-~9~1"
```

MIN?
[FOCC:CAPTure:MIN?]
Returns MIN currently selected for Capture.

9-4-2 FORWARD CONTROL CHANNEL DECODE DATA

The FOCC decode data queries return the specific monitored data items. Prior to initiating FOCC decode data queries, set Sp Tst to FOCC initial setup (**FOCC:SET**) and start decoding (**FOCC:STAR**). If the queries are used as part of a TMAC Program, a **TPAUSE** command in conjunction with the queries may be needed to allow the background data processing to take place. Refer to 10-2-1.

- Each query command returns the last decoded value.
- If the specific data item is not available or has already been read, the query returns -1.

FOCC:

ORDER?
[FOCC:ORDER?]
Returns name (string) of received order. Returns the following orders:

A ALERT	ANA VC DES	ASYNC PAG
AUDIT	AUT REG	AUTORG PD
BSCHALCON	DIR RTRY	G3 PAGE
G3FAX WTG	INTRCPT	LC
MSG WTG	N AUT REG	PAGE
RELEASE	REORDER	SLOT 1
SLOT 2	SLOT 3	SLOT 1,136
SLOT 2,136	SLOT 3,136	SMS WTG
SSD UP	UCHAL	VC DES

ACT?
[FOCC:ACT?]
Returns Global Action field value (4 bit value).

ASYNC?
[FOCC:ASYNC?]
Returns the state of the Async Data field in the DCCH Information word (1 bit value).

AUTH?
[FOCC:AUTH?]
Returns Authentication (1 bit value).

AUTHBS?
[FOCC:AUTHBS?]
Returns AUTHBS (18 bit value).

BIdle?
[FOCC:BIdle?]
Returns Busy-Idle bit. Busy-Idle bit, multiplexed in with FOCC data, is 0 if Reverse Control Channel is busy or 1 if Reverse Control Channel is idle.

FOCC:

BIS?
[FOCC:BIS?]
Returns Busy-Idle Status bit from the Access Type Parameters Global Action message. (Busy-Idle Status bit is 0 if monitoring the Busy-Idle bit is not required by the Mobile Station, otherwise 1.)

CHAN?
[FOCC:CHAN?]
Returns Channel Number field indicating designated RF channel (1 to 1999).

CHANPOS1?
[FOCC:CHANPOS1?]
Returns Channel Position 1 (7 bit value).

CHANPOS2?
[FOCC:CHANPOS2?]
Returns Channel Position 2 (7 bit value).

CHANPOS3?
[FOCC:CHANPOS3?]
Returns Channel Position 3 (7 bit value).

CHANPOS4?
[FOCC:CHANPOS4?]
Returns Channel Position 4 (7 bit value).

CHANPOS5?
[FOCC:CHANPOS4?]
Returns Channel Position 5 (7 bit value).

CHANPOS6?
[FOCC:CHANPOS6?]
Returns Channel Position 6 (7 bit value).

CMAC?
[FOCC:CMAC?]
Returns Control Mobile Attenuation Code (3 bit value).

CMAX_1?
[FOCC:CMAX_1?]
Returns number of Access Channels minus one.

CPA?
[FOCC:CPA?]
Returns Combined Paging/Access (1 bit value).

DCC?
[FOCC:DCC?]
Returns Digital Color Code (2 bit value).

DCCHan?
[FOCC:DCCHan?]
Returns the value for the Channel field in the DCCH Information word (11 bit value).

FOCC:

DMAC?
[FOCC:DMAC?]
Returns Digital Mobile Attenuation Code (4 bit value).

DTX?
[FOCC:DTX?]
Returns Discontinuous Transmission (1 bit value).

DVCC?
[FOCC:DVCC?]
Returns Digital Verification Color Code (8 bit value).

E?
[FOCC:E?]
Returns Extended Address (1 bit value).

EF?
[FOCC:EF?]
Returns Extended Protocol Forward Channel Indicator (1 bit value).

END?
[FOCC:END?]
Returns End Indication (1 bit value).

EP?
[FOCC:EP?]
Returns Extended Protocol (1 bit value).

G3FAX?
[FOCC:G3FAX?]
Returns the state of the G3 Fax field in the DCCH Information word (1 bit value).

HYPERband?
[FOCC:HYPERband?]
Returns the value of the Hyperband field in the DCCH Information word (2 bit value).

LOC_CONTrol?
[FOCC:LOC_CONTrol?]
Returns Local Control message (16 bit value).

LOCAID?
[FOCC:LOCAID?]
Returns Location Area Identity (12 bit value).

LOCAL_MT?
[FOCC:LOCAL_MT?]
Returns Local Control (Local Control message)/Message Type field (5 bit value).

LREG?
[FOCC:LREG?]
Returns Location Registration (1 bit value).

FOCC:

MBUSY:

OTH?
[FOCC:MBUSY:OTH?]
Returns Maximum Number of Busy Occurrences Allowed for Other Accesses (4 bit value).

PGR?
[FOCC:MBUSY:PGR?]
Returns Maximum Number of Busy Occurrences Allowed for Page Responses (4 bit value).

MEM?
FOCC:MEM?
Returns Message Encryption Mode (1 bit value).

MIN?
FOCC:MIN?
Returns Mobile Identification Number (string).

MSZTR:

OTH?
FOCC:MSZTR:OTH?
Returns Maximum Number of Seizure Attempts Allowed for Other Accesses (4 bit value).

PGR?
FOCC:MSZTR:PGR?
Returns Maximum Number of Seizure Attempts Allowed for Page Responses (4 bit value).

N_1?
[FOCC:N_1?]
Returns number of Paging Channels minus one, to be scanned by the Mobile Station (5 bit value).

NAWC?
[FOCC:NAWC?]
Returns Number of Additional Words Coming (4 bit value).

NEWACC?
[FOCC:NEWACC?]
Returns New Access Channel Starting Point (11 bit value).

OLC?
[FOCC:OLC?]
Returns Overload Control Class (15 bit value).

ORDERCD?
[FOCC:ORDERCD?]
Returns Order Code (5 bit value).

ORDQ?
[FOCC:ORDQ?]
Returns Order Qualifier (3 bit value).

FOCC:

PCI?
[FOCC:PCI?]
Returns Protocol Capability Indicator (1 bit value).

PDREG?
[FOCC:PDREG?]
Returns Power Down Registration (1 bit value).

PM?
[FOCC:PM?]
Returns Privacy Mode (1 bit value).

PRIVacy?
[FOCC:PRIVacy?]
Returns the state of the Data Privacy field in the DCCH Information word (1 bit value).

PUREG?
[FOCC:PUREG?]
Returns Power Up Registration (1 bit value).

PVI?
[FOCC:PVI?]
Returns current state of Protocol Version Indicator (1 bit value).

RANDSSD_1?
[FOCC:RANDSSD_1?]
Returns value of 24 most significant bits of RANDSSD (24 bit value).

RANDSSD_2?
[FOCC:RANDSSD_2?]
Returns value of bits 8 through 31 of RANDSSD (24 bit value).

RANDSSD_3?
[FOCC:RANDSSD_3?]
Returns value of eight least significant bits of RANDSSD (8 bit value).

RANDU?
[FOCC:RANDU?]
Returns RANDU received in the Unique Challenge message (24 bit value).

RAND1_A?
[FOCC:RAND1_A?]
Returns value of 16 most significant bits of RAND (16 bit value).

RAND1_B?
[FOCC:RAND1_B?]
Returns value of 16 least significant bits of RAND (16 bit value).

RCF?
[FOCC:RCF?]
Returns Read Control-Filler (1 bit value).

FOCC:

REGH?
[FOCC:REGH?]
Returns Registration for Home Mobile Stations (1 bit value).

REGID?
[FOCC:REGID?]
Returns Registration Identification (20 bit value).

REGINCR?
[FOCC:REGINCR?]
Returns Registration Increment field (12 bit value).

REGR?
[FOCC:REGR?]
Returns Registration for Roaming Mobile Stations (1 bit value).

S?
[FOCC:S?]
Returns Serial Number (1 bit value).

SCC?
[FOCC:SCC?]
Returns Supervisory Audio Tone Color Code (2 bit value).

SDCC1?
[FOCC:SDCC1?]
Returns Supplementary Digital Color Code 1 (2 bit value).

SDCC2?
[FOCC:SDCC2?]
Returns Supplementary Digital Color Code 2 (2 bit value).

SID?
[FOCC:SID?]
Returns System Identification Number (14 bit value).

VMAC?
[FOCC:VMAC?]
Returns Voice Mobile Attenuation Code (3 bit value).

WFOM?
[FOCC:WFOM?]
Returns Wait For Overhead Message (1 bit value).

9-4-3 FORWARD CONTROL CHANNEL RAW DATA

The Sp Tst contains a 100 word data buffer to capture raw data (undecoded bit streams) received on the Forward Control Channel. Prior to initiating FOCC raw data queries, set the Sp Tst to initial FOCC setup (**FOCC:SET**) and select the RF Channel (**FOCC:CHAN** *n*). Refer to 10-2-2.

FOCC:RAW:

WORD:

A
[FOCC:RAW:WORD:A]
Selects raw data from Stream A to monitor.

B
[FOCC:RAW:WORD:B]
Selects raw data from Stream B to monitor.

BOTH
[FOCC:RAW:WORD:BOTH]
Selects raw data from Streams A and B to monitor.

CAPTure:

Messages (Orders) for raw data capture:

NONE
[FOCC:RAW:CAPTure:NONE]
Sets Capture Mode to NONE.

A_ALERT
[FOCC:RAW:CAPTure:A_ALERT]
Selects Abbreviated Alert Message as order for Capture.

AUDIT
[FOCC:RAW:CAPTure:AUDIT]
Selects Audit Message as order for Capture.

AUT_REG
[FOCC:RAW:CAPTure:AUT_REG]
Selects Autonomous Registration Confirmation message as order for Capture.

BSCHALCON
[FOCC:RAW:CAPTure:BSCHALCON]
Selects Base Station Challenge Confirmation Message as order for Capture.

DIR_RTRY
[FOCC:RAW:CAPTure:DIR_RTRY]
Selects Directed-Retry message as order for Capture.

INTRCPT
[FOCC:RAW:CAPTure:INTRCPT]
Selects Intercept message as order for Capture.

FOCC:RAW:

CAPTure:

LC
[FOCC:RAW:CAPTure:LC]
Selects Local Control Message as order for Capture.

MSG_WTG
[FOCC:RAW:CAPTure:MSG_WTG]
Selects Message Waiting message as order for Capture.

N_AUT_REG
[FOCC:RAW:CAPTure:N_AUT_REG]
Selects Non-autonomous Registration Confirmation message as order for Capture.

PAGE
[FOCC:RAW:CAPTure:PAGE]
Selects Page as order for Capture.

RELease
[FOCC:RAW:CAPTure:RELease]
Selects Release message as order for Capture.

REORDER
[FOCC:RAW:CAPTure:REORDER]
Selects Reorder message as order for Capture.

SLOT_1
[FOCC:RAW:CAPTure:SLOT_1]
Selects Slot 1 Handoff message as order for Capture.

SLOT_2
[FOCC:RAW:CAPTure:SLOT_2]
Selects Slot 2 Handoff message as order for Capture.

SLOT_3
[FOCC:RAW:CAPTure:SLOT_3]
Selects Slot 3 Handoff message as order for Capture.

SSD_UPdate
[FOCC:RAW:CAPTure:SSD_UPdate]
Selects Shared Secret Data Update as order for Capture.

UCHAL
[FOCC:RAW:CAPTure:UCHAL]
Selects Unique Challenge message as order for Capture.

VC_DES
[FOCC:RAW:CAPTure:VC_DES]
Selects Voice Channel Designation message as order for Capture.

ORDer?
[FOCC:RAW:CAPTure:ORDer?]
Returns name (string) of order currently selected for Capture.

FOCC:RAW:

CAPTure:

INDex?
[FOCC:RAW:CAPTure:INDex?]
Returns position (0 to 99) of Captured Order in the 100 word data buffer.

TRIGger *n*
[FOCC:RAW:TRIGger n]
Selects position of Captured Order in the 100 word data buffer. Range of *n* is 0 to 4.

n	POSITION
0	Start
1	1/4
2	1/2
3	3/4
4	End

STARt
[FOCC:RAW:STARt]
Starts raw data Capture.

STOP
[FOCC:RAW:STOP]
Stops raw data Capture.

After Capture condition has occurred (**FOCC:RAW:CAPT?** = 1), raw data capture ends when 100 word data buffer is full (**FOCC:RAW:FULL?** = 1).

CAPTure?
[FOCC:RAW:CAPTure?]
Returns 1 if Capture condition has occurred; 0 otherwise.

FULL?
[FOCC:RAW:FULL?]
Returns 1 if 100 word data buffer is full; 0 otherwise.

A:

CHECK? *n*
[FOCC:RAW:A:CHECK? n]
Returns CRC Check result for selected data word from Stream A (0 [good], 1 [bad]). Range of *n* is 0 to 99.

DATA? *n*
[FOCC:RAW:A:DATA? n]
Returns selected raw data word from Stream A. Range of *n* is 0 to 99.

PARITY? *n*
[FOCC:RAW:A:PARITY? n]
Returns Parity for selected data word from Stream A. Range of *n* is 0 to 99.

FOCC:RAW:

B:

CHECK? *n*
[FOCC:RAW:B:CHECK? n]
Returns CRC Check result for selected data word from Stream B (0 [good], 1 [bad]). Range of *n* is 0 to 99.

DATA? *n*
[FOCC:RAW:B:DATA? n]
Returns Raw Data word from Stream B. Range of *n* is 0 to 99.

PARITY? *n*
[FOCC:RAW:B:PARITY? n]
Returns Parity for selected data word from Stream B. Range of *n* is 0 to 99.

B_I? *n*
[FOCC:RAW:B_I? n]
Returns Busy-Idle bit for selected data word. Range of *n* is 0 to 99.

TS? *n*
[FOCC:RAW:TS? n]
Returns Time Stamp in ms of selected data word. Range of *n* is 0 to 99.

9-5 FORWARD VOICE CHANNEL (FVC) MONITOR COMMANDS

9-5-1 FORWARD VOICE CHANNEL CONTROL

FVC:

SETup
[FVC:SETup]
Sets up the Sp Tst as when entering the Forward Voice Channel screen (screen is not displayed). The HOST is forced into Duplex Mode through selection of Duplex screen.

CONFigure:

USER
[FVC:CONFigure:USER]
This command is identical to the **FVC:SETup** command except that the USER screen is selected.

NONE
[FVC:CONFigure:NONE]
This command is also identical to the **FVC:SETup** command except that the Test Set remains in the screen currently displayed.

STARt
[FVC:STARt]
Starts background task which decodes Forward Voice Channel data. Decoded data is stored internally by the Sp Tst and is returned by the TMAC commands in 9-5-2.

STOP
[FVC:STOP]
Stops decoding Forward Voice Channel data.

CHANnel *n*
[FVC:CHANnel n]
Selects Forward Voice Channel to monitor.

FREQuency:BAND (See 9-3)	**RANGE OF** ***n***
0	1 to 333
1	1 to 1023
2	1 to 1999

FVC:

SCC *n*

[FVC:SCC n]

Specifies the SCC by providing the SAT frequency in Hz (*n*) corresponding to the SAT Color Code (SCC). Range of *n* is 5955 to 6044.

n	SCC
5955 to 5984	0
5985 to 6014	1
6015 to 6044	2

The FVC decode task only decodes messages having a specified SCC; therefore, only messages on the selected channel are decoded. Messages on adjacent channels are ignored.

Tip:

- Sending the command as **FVC:SCC :MEAS:SAT?** insures the SCC matches the SAT frequency on the channel being monitored. The **MEAS:SAT?** query returns the SAT frequency in Hz.

  However, if SAT is not received, the **:MEAS:SAT?** command returns a -1 causing the decoding to fail.

9-5-2 FORWARD VOICE CHANNEL DECODE DATA

Prior to initiating FVC decode data queries, set Sp Tst to FVC initial setup (**FVC:SET**) and start decoding data (**FVC:STAR**). If queries are used as part of a TMAC Program, a **TPAUSE** command in conjunction with the queries may be needed to allow the background decoding task time to run. Refer to 10-3-1.

- Each query command returns the last decoded value.
- If the specific data item is not available or has already been read, the query returns -1.

FVC:

ORDER?
[FVC:ORDER?]
Returns name (string) of received Order. Returns the following orders:

ALERT	ALERT W/INFO	ASYNC PAG
AUDIT	BSCHALCON	CALL MODE ACK
DIS DTMF	DIS MEM	ENA MEM
FLASH W/INFO	G3 PAGE	G3FAX WTG
HANDOFF	LC	MAINTNC
MSG WTG	PAGE	PU
PWR LVL	RELEASE	RELEASE COMPLETE
RELEASE W/INFO	S ALERT	SLOT1
SLOT2	SLOT3	SLOT1,136
SLOT2,136	SLOT3,136	SMS WTG
SND ADDR	SNR REQ	SSD UP
UCHAL		

AUTHBS?
[FVC:AUTHBS?]
Returns Output Response of Base Station Authentication Algorithm (18 bit value).

CHAN?
[FVC:CHAN?]
Returns Channel Number field indicating designated RF channel (1 to 1999).

CHAR1?
[FVC:CHAR1?]
Returns first Characters in Called Party Number message (Flash with Information) or Calling Party Number message (Alert with Information or Flash with Information) (up to 16 digits).

CHAR2?
[FVC:CHAR2?]
Returns last Characters in Called Party Number message (Flash with Information) or Calling Party Number message (Alert with Information or Flash with Information) (up to 16 digits).

FVC:

CPN_RL?
[FVC:CPN_RL?]
Returns Calling Party Number Remaining Length (6 bit value).

DMAC?
[FVC:DMAC?]
Returns Digital Mobile Attenuation Code (4 bit value).

DVCC?
[FVC:DVCC?]
Returns Digital Verification Color Code (eight bit value).

EF?
[FVC:EF?]
Returns Extended Protocol Forward Channel Indicator (1 bit value).

HYPERband?
[FVC:HYPERband?]
Returns current value of Hyperband (2 bit value).

LOCAL_MT?
[FVC:LOCAL_MT?]
Returns Local Control (Local Control message)/Message Type field (5 bit value).

MEM?
[FVC:MEM?]
Returns Message Encryption Mode (1 bit value).

ORDERCD?
[FVC:ORDERCD?]
Returns Order Code (5 bit value).

ORDQ?
[FVC:ORDQ?]
Returns Order Qualifier (3 bit value).

PI?
[FVC:PI?]
Returns Calling Party Number Presentation Indicator (2 bit value).

PM?
[FVC:PM?]
Returns Privacy Mode (1 bit value).

PSCC?
[FVC:PSCC?]
Returns Present SAT Color Code (2 bit value).

PVI?
[FVC:PVI?]
Returns current state of Protocol Version Indicator (1 bit value).

FVC:

PWRL?
[FVC:PWRL?]
Returns Power Level requested of Mobile Station in Power Level message (same as ORDQ).

RANDSSD1?
[FVC:RANDSSD1?]
Returns value of 24 most significant bits of RANDSSD (24 bit value).

RANDSSD2?
[FVC:RANDSSD2?]
Returns value of bits 8 through 31 of RANDSSD (24 bit value).

RANDSSD3?
[FVC:RANDSSD3?]
Returns eight least significant bits of RANDSSD (eight bit value).

RANDU?
[FVC:RANDU?]
Returns RANDU received in the Unique Challenge message (24 bit value).

RL_W?
[FVC:RL_W?]
Returns Remaining Length in Words (5 bit value).

SBI?
[FVC:SBI?]
Returns Shortened Burst Indicator (2 bit value).

SCC?
[FVC:SCC?]
Returns Supervisory Audio Tone Color Code (2 bit value).

SI?
[FVC:SI?]
Returns Calling Party Screening Indicator (2 bit value).

SIGnal?
[FVC:SIGnal?]
Returns Signal field (eight bit value).

TA?
[FVC:TA?]
Returns Time Alignment offset (5 bit value).

VMAC?
[FVC:VMAC?]
Returns Voice Mobile Attenuation Code (3 bit value).

9-5-3 FORWARD VOICE CHANNEL RAW DATA

The Sp Tst contains a variable capacity data buffer to capture raw data (undecoded bit stream) received on the Forward Voice Channel. Prior to initiating FVC raw data commands, set the FOCC Capture Mode to NONE (**FOCC:CAPT:SEL:NONE**) and set Sp Tst to initial FVC setup (**FVC:SET**). Obtain new data information by setting *n* from 0 to current **FVC:RAW:DEPTH** setting minus one, when using raw data information queries. Refer to 10-3-2.

FVC:RAW:

DEPTH *n*
[FVC:RAW:DEPTH n]
Selects size of data buffer in data words. Range of *n* is 1 to 100 data words.

STARt
[FVC:RAW:STARt]
Starts receiving raw data into data buffer.

STOP
[FVC:RAW:STOP]
Stops receiving raw data into data buffer.

COUNT?
[FVC:RAW:COUNT?]
Returns number of data words received (increments with each new data word). Used to know when to query for new data information.

DATA? *n*
[FVC:RAW:DATA? n]
Returns selected raw data word (28 bits). Range of *n* is 0 to 99.

PARITY? *n*
[FVC:RAW:PARITY? n]
Returns Parity for selected data word (12 bits). Range of *n* is 0 to 99.

CHECK? *n*
[FVC:RAW:CHECK? n]
Returns CRC Check result for selected data word (0 [good], 1 [bad]). Range of n is 0 to 99.

TS? *n*
[FVC:RAW:TS? n]
Returns Time Stamp of selected data word in seconds from 0 data word. Range of *n* is 0 to 99.

9-6 FORWARD DIGITAL TRAFFIC CHANNEL (FDTC) MONITOR COMMANDS

9-6-1 FORWARD DIGITAL TRAFFIC CHANNEL CONTROL

FDTC:

SETup
[FDTC:SETup]
Sets up the Sp Tst as when entering the Forward Digital Traffic Channel screen (screen is not displayed). The HOST is forced into Duplex Mode through selection of Duplex screen.

CONFigure:

USER
[FDTC:CONFigure:USER]
This command is identical to the **FDTC:SETup** command except that the USER screen is selected.

NONE
[FDTC:CONFigure:NONE]
This command is also identical to the **FDTC:SETup** command except that the Test Set remains in the screen currently displayed.

CHANnel *n*
[FDTC:CHANnel n]
Selects Forward Digital Traffic Channel to monitor.

FREQuency:BAND (See 9-3)	**RANGE OF** *n*
0	1 to 333
1	1 to 1023
2	1 to 1999

SLOT *n*
[FDTC:SLOT n]
Selects Digital Traffic Channel Timeslot. Range of *n* is 1 to 3.

STARt
[FDTC:STARt]
Starts background task which decodes Forward Digital Traffic Channel data. Decoded data is stored internally by the Sp Tst and is returned by the TMAC commands in 9-6-2.

STOP
[FDTC:STOP]
Stops decoding Forward Digital Traffic Channel data.

DVCC?
[FDTC:DVCC?]
Returns Digital Verification Color Code.

R0?
[FDTC:R0?]
Returns VSELP frame energy value (0 to 31).

FDTC:

VOCODER:

The following **VOCODER:** commands select vocoder while monitoring a call.

ACELP
[FDTC:VOCODER:ACELP]
Selects ACELP vocoder.

VSELP
[FDTC:VOCODER:VSELP]
Selects VSELP vocoder.

9-6-2 FORWARD DIGITAL TRAFFIC CHANNEL DECODE DATA

FDTC:FACCH: queries pertain to the blank and burst Fast Associated Control Channel (FACCH).
FDTC:SACCH: queries pertain to the continuous Slow Associated Control Channel (SACCH).

- Each query command returns the last decoded value.
- If the specific data item is not available or has already been read, the query returns -1.

FDTC:

FACCH: or **SACCH:**

MSGtype?
[FDTC:FACCH: or SACCH:MSGtype?]
Returns Message Type (string):

ALERT	AUDIT	BS ACK
BSCHALCON	BSMC	CAPABILITY REQ
CAPABILITY RESP	DEDICATED HANDOFF	FLASH
FLASH ACK	HANDOFF	HYPERBAND MEAS
LC	MAINT	MEAS
PLC	PU	R-DATA
R-DATA ACCEPT	R-DATA REJECT	REAUTH
RELEASE	SBDA	SCDA
S MEAS	SERVICE RESP	SOC
SR	SSD UP	UCHAL

AMT?
[FDTC:FACCH: or SACCH:AMT?]
Returns Acknowledge Message Type (string).

ATS?
[FDTC:FACCH: or SACCH:ATS?]
Returns current value of ATS (4 bit value).

AUTHBS?
[FDTC:FACCH: or SACCH:AUTHBS?]
Returns AUTHBS (18 bit value).

BSMC?
[FDTC:FACCH: or SACCH:BSMC?]
Returns current value of BSMC (8 bit value).

FDTC:

FACCH: or **SACCH:**

CALLING:

NAMe?
[FDTC:FACCH: or SACCH:CALLING:NAMe?]
Returns the last decoded Character string value of Calling Party Name. Returns -1 if already returned or not available.

- Character string example: Happy Anniversary.
- Maximum number of string characters returned: 62.
- Used with the following **FDTC:FACCH: or SACCH:CALLING:NAMe:*xxx*** commands.

NAMe:

REServed?
[FDTC:FACCH: or SACCH:CALLING:NAMe:REServed?]
Returns the last decoded value of Calling Party Name Reserved field. Returns -1 if already returned or not available.

PI?
[FDTC:FACCH: or SACCH:CALLING:NAMe:PI?]
Returns the last decoded value of Calling Party Name Presentation Indicator. Returns -1 if already returned or not available.

SI?
[FDTC:FACCH: or SACCH:CALLING:NAMe:SI?]
Returns the last decoded value of Calling Party Name Screening Indicator. Returns -1 if already returned or not available.

NUM?
[FDTC:FACCH: or SACCH:CALLING:NUM?]
Returns number of the calling party (string - 0 to 30 characters). See **FDTC:FACCH: or SACCH:CALLING:NUM1?** and **NUM2?**

The following NUM1? and NUM2? commands are used in the Alert With Info and the Flash With Info messages to return the 0 to 15 instances of characters.

NUM1?
[FDTC:FACCH: or SACCH:CALLING:NUM1?]
Returns last decoded value of first 15 characters of the number of the calling party (string). See **FDTC:FACCH: or SACCH:CALLING:NUM?.**

NUM2?
[FDTC:FACCH: or SACCH:CALLING:NUM2?]
Returns last decoded value of last 15 characters of the number of the calling party (string). See **FDTC:FACCH: or SACCH:CALLING:NUM?.**

TYpe?
[FDTC:FACCH: or SACCH:CALLING:TYpe?]
Returns Calling Party Number Type (3 bit value).

FDTC:

FACCH: or **SACCH:**

CALLING:

PLANid?
[FDTC:FACCH: or SACCH:CALLING:PLANid?]
Returns Calling Party Numbering Plan Identification (4 bit value).

SPare?
[FDTC:FACCH: or SACCH:CALLING:SPare?]
Returns last decoded value of Calling Party Number Reserved field (5 bit value). Returns -1 if already returned or not available.

REServed?
[FDTC:FACCH: or SACCH:CALLING:REServed?]
Returns last decoded value of Calling Party Number Reserved field (5 bit value). Returns -1 if already returned or not available.

Same as **FDTC:FACCH: or SACCH:CALLING:SPare?**.

PI?
[FDTC:FACCH: or SACCH:CALLING:PI?]
Returns Calling Party Presentation Indicator (2 bit value).

SI?
[FDTC:FACCH: or SACCH:CALLING:SI?]
Returns Calling Party Screening Indicator (2 bit value).

CHANGE:

SOC?
[FDTC:FACCH: or SACCH:CHANGE:SOC?]
Returns current state of SOC Change Indicator (1 bit value).

BSMC?
[FDTC:FACCH: or SACCH:CHANGE:BSMC?]
Returns current state of BSMC Change Indicator (1 bit value).

CNPC?
[FDTC:FACCH: or SACCH:CNPC?]
Returns the Calling Number Presentation Code (4 bit value).

CUSTOM:

LENGth?
[FDTC:FACCH: or SACCH:CUSTOM:LENGth?]
Returns current value of Length of Custom Control (8 bit value).

CONTrol? *n*
[FDTC:FACCH: or SACCH:CUSTOM:CONTrol? n]
Returns current value of Custom Control (8 bit value) indexed by *n*. Range of *n* is 0 to 255.

FDTC:

FACCH: or **SACCH:**

DCCHinfo:

HYPERband? *n*
[FDTC:FACCH: or SACCH:DCCHinfo:HYPERband? n]
Returns current value of DCCH Info Hyperband (2 bit value) indexed by *n*. Range of *n* is 0 to 2.

CHANnel? *n*
[FDTC:FACCH: or SACCH:DCCHinfo:CHANnel? n]
Returns current value of DCCH info Channel (8 bit value) indexed by *n*. Range of *n* is 0 to 2.

DVCC? *n*
[FDTC:FACCH: or SACCH:DCCHinfo:DVCC? n]
Returns current value of DCCH info DVCC (8 bit value) indexed by *n*. Range of *n* is 0 to 2.

DELTA:TIME?
[FDTC:FACCH: or SACCH:DELTA:TIME?]
Returns current value of Delta Time (11 bit value).

DIC?
[FDTC:FACCH: or SACCH:DIC?]
Returns Delay Interval Compensation (1 bit value).

DIGits? *n*
[FDTC:FACCH: or SACCH:DIGits? n]
Returns the 11 digits (string) of the selected digit set. Setting for *n* is 0 (DIGITS1), 1 (DIGITS2) or 2 (DIGITS3).

DMAC?
[FDTC:FACCH: or SACCH:DMAC?]
Returns Digital Mobile Attenuation Code (4 bit value).

DPM?
[FDTC:FACCH: or SACCH:DPM?]
Returns current state of Data Privacy Mode (1 bit value).

DTX?
[FDTC:FACCH: or SACCH:DTX?]
Returns Discontinuous Transmission (1 bit value).

DTXControl?
[FDTC:FACCH: or SACCH:DTXControl?]
Returns current state of DTX Control (1 bit value).

HDVCC?
[FDTC:FACCH: or SACCH:HDVCC?]
Returns Handoff Digital Verification Color Code (eight bit value).

FDTC:

FACCH: or **SACCH:**

HYPERband:

NUMBer? -or- NUM?
[FDTC:FACCH: or SACCH:HYPERband:NUMBer?]
Returns current value of RF Channel and Hyperband, Number of Hyperband channels (5 bit value).

BAND? *n*
[FDTC:FACCH: or SACCH:HYPERband:BAND? n]
Returns current value of RF Channel and Hyperband, Hyperband (2 bit value) indexed by *n*. Range of *n* is 0 to 23.

CHANnel? *n*
[FDTC:FACCH: or SACCH:HYPERband:CHANnel? n]
Returns current value of RF Channel and Hyperband, Channel (11 bit value) indexed by *n*. Range of *n* is 0 to 23.

TARGet?
[FDTC:FACCH: or SACCH:HYPERband:TARGet?]
Returns current value of Target Hyperband (2 bit value).

LC?
[FDTC:FACCH: or SACCH:LC?]
Returns Local Control (5 bit value).

LDP?
[FDTC:FACCH: or SACCH:LDP?]
Returns Last Decoded Parameter (4 bit value).

MAP:

VPM?
[FDTC:FACCH: or SACCH:MAP:VPM?]
Returns current value of Voice Privacy Mode Map (4 bit value).

CODER?
[FDTC:FACCH: or SACCH:MAP:CODER?]
Returns current value of Voice Coder Map (6 bit value).

MEA:

DOMAIN?
[FDTC:FACCH: or SACCH:MAP:MEA:DOMAIN?]
Returns current value of Message Encryption Algorithm Map Domain (8 bit value).

ALGORithms? *n*
[FDTC:FACCH: or SACCH:MAP:MEA:ALGORithms? n]
Returns current value of Message Encryption Algorithm Map (4 bit value) indexed by *n*. Range of *n* is 0 to 7.

FDTC:

FACCH: or **SACCH:**

MAP:

MEK?
[FDTC:FACCH: or SACCH:MAP:MEK?]
Returns current value of Message Encryption Key Map (4 bit value).

ARQ?
[FDTC:FACCH: or SACCH:MAP:ARQ?]
Returns current state of FACCH/SACCH ARQ Map (1 bit value).

SMS?
[FDTC:FACCH: or SACCH:MAP:SMS?]
Returns current value of SMS Map (2 bit value).

MEM?
[FDTC:FACCH: or SACCH:MEM?]
Returns Message Encryption Mode (1 bit value).

MEMA?
[FDTC:FACCH: or SACCH:MEMA?]
Returns the state of Message Encryption Mode A (1 bit value).

MEMB?
[FDTC:FACCH: or SACCH:MEMB?]
Returns the state of Message Encryption Mode B (1 bit value).

MEMC:

MEA?
[FDTC:FACCH: or SACCH:MEMC:MEA?]
Returns current value of Message Encryption Mode C Algorithm (3 bit value).

MED?
[FDTC:FACCH: or SACCH:MEMC:MED?]
Returns current value of Message Encryption Mode C Domain (3 bit value).

MEK?
[FDTC:FACCH: or SACCH:MEMC:MEK?]
Returns current value of Message Encryption Mode C Key (3 bit value).

FDTC:

FACCH: or **SACCH:**

MESSage:CENTer:

LENGth?
[FDTC:FACCH: or SACCH:MESSage:CENTer:LENGth?]
Returns current value of Message Center Address Extended Remaining Length (8 bit value).

TYPE?
[FDTC:FACCH: or SACCH:MESSage:CENTer:TYPE?]
Returns current value of Message Center Address Type of Number (3 bit value).

PLANid?
[FDTC:FACCH: or SACCH:MESSage:CENTer:PLANid?]
Returns current value of Message Center Address Number Plan Identification (4 bit value).

ENCoding?
[FDTC:FACCH: or SACCH:MESSage:CENTer:ENCoding?]
Returns current state of Message Center Address Encoding (1 bit value).

ADDRess?
[FDTC:FACCH: or SACCH:MESSage:CENTer:ADDRess?]
Returns current string value of Message Center Address (ASCII string).

MSGWTG:

TYPE? *n*
[FDTC:FACCH: or SACCH:MSGWTG:TYPE? n]
Returns current value of Other Messages Waiting Info Type (4 bit value) indexed by *n*. Range of *n* is 0 to 15.

NUMBer? *n* **-or- NUM?** *n*
[FDTC:FACCH: or SACCH:MSGWTG:NUMBer? n]
Returns current value of Number of Other Messages Waiting (6 bit value) indexed by *n*. Range of *n* is 0 to 15.

NOMW?
[FDTC:FACCH: or SACCH:NOMW?]
Returns Number of Messages Waiting (six bit value).

NV? *n*
[FDTC:FACCH: or SACCH:NV? n]
Returns Number of Values (six bit value) for selected optional information element. Range of *n* is 0 (1st element) to 5 (6th element).

PD?
[FDTC:FACCH: or SACCH:PD?]
Returns Protocol Discriminator (2 bit value).

FDTC:

FACCH: or **SACCH:**

PT? *n*
[FDTC:FACCH: or SACCH:PT? n]
Returns Parameter Type (4 bit value) for selected optional information element. Range of *n* is 0 (1st element) to 5 (6th element).

PV?
[FDTC:FACCH: or SACCH:PV?]
Returns current value of Protocol Version (4 bit value).

PVI?
[FDTC:FACCH: or SACCH:PVI?]
Returns current state of Protocol Version Indicator (1 bit value).

RANDSSD1?
[FDTC:FACCH: or SACCH:RANDSSD1?]
Returns value of 24 most significant bits of RANDSSD (24 bit value).

RANDSSD2?
[FDTC:FACCH: or SACCH:RANDSSD2?]
Returns value of bits 0 through 31 of RANDSSD (32 bit value).

RANDRA?
[FDTC:FACCH: or SACCH:RANDRA?]
Returns the last decoded value of RANDRA. Returns -1 if already returned or not available.

Used in conjunction with Re-Authentication message (see **CSS:FDTC:FACCH: or SACCH:REAUTHentication** and **CSS:FDTC:RANDRA**).

RANDU?
[FDTC:FACCH: or SACCH:RANDU?]
Returns RANDU received in Unique Challenge message (24 bit value).

RATE?
[FDTC:FACCH: or SACCH:RATE?]
Returns Channel Rate (1 bit value).

RCAUSe?
[FDTC:FACCH: or SACCH:RCAUSe?]
Returns last decoded value of R-Cause (7 bit value - 1 to 127). Returns -1 if already returned or not available.

RCAUSe:REServed?
[FDTC:FACCH: or SACCH:RCAUSe:REServed?]
Returns last decoded value of R-Cause Reserved field (1 bit value). Returns -1 if already returned or not available.

FDTC:

FACCH: or **SACCH:**

RDATA_UNIT:

LENGth?
[FDTC:FACCH: or SACCH:RDATA_UNIT:LENGth?]
Returns current value of R-Data Unit Extended Remaining Length (8 bit value).

HLP:

IDentifier?
[FDTC:FACCH: or SACCH:RDATA_UNIT:HLP:IDentifier?]
Returns current value of R-Data Unit Higher Layer Protocol Identifier (8 bit value).

DATA? *n*
[FDTC:FACCH: or SACCH:RDATA_UNIT:HLP:DATA? n]
Returns current value of R-Data Unit Higher Layer Data Unit (8 bit value) indexed by *n*. Range of *n* is 0 to 253.

RFCHAN? *n*
[FDTC:FACCH: or SACCH:RFCHAN? n]
Returns current value of RFCHAN (11 bit value) indexed by *n*. Range of *n* is 0 to 23.

RL? *n*
[FDTC:FACCH: or SACCH:RL? n]
Returns Remaining Length as number of octets (six bit value) remaining in selected message segment. Range of *n* is 0 to 2. (Segments pertain to the 0 to 2 instances the Calling Party Number may be sent in the Alert with Information or Flash with Information messages.)

RN?
[FDTC:FACCH: or SACCH:RN?]
Returns Request Number (4 bit value).

RTRANSaction?
[FDTC:FACCH: or SACCH:RTRANSaction?]
Returns current value of R-Transaction Identifier (8 bit value).

SBI?
[FDTC:FACCH: or SACCH:SBI?]
Returns Shortened Burst Indicator (2 bit value).

SERVice:CODE?
[FDTC:FACCH: or SACCH:SERVice:CODE?]
Returns the last decoded value of Service Code (4 bit value). Returns -1 if already returned or not available.

FDTC:

FACCH: or **SACCH:**

SERVice:

CAUSe? *n*
[FDTC:FACCH: or SACCH:SERVice:CAUSe? n]
Returns the last decoded value of Cause (8 bit value) of the designated instance (*n*). Range of *n* is 0 to 9. Returns -1 if already returned or not available.

CAUSe:NUMBer? -or- CAUSe:NUM?
[FDTC:FACCH: or SACCH:SERVice:CAUSe:NUMBer?]
Returns the last decoded value of number of instances of Cause (4 bit value - 0 to 10).

SIGnal?
[FDTC:FACCH: or SACCH:SIGnal?]
Returns Signal field (eight bit value).

SOC?
[FDTC:FACCH: or SACCH:SOC?]
Returns current value of SOC (12 bit value).

SPMA?
[FDTC:FACCH: or SACCH:SPMA?]
Returns the state of Service Privacy Mode A (1 bit value).

SPMB?
[FDTC:FACCH: or SACCH:SPMB?]
Returns the state of Service Privacy Mode B (1 bit value).

SUPPort:IRA?
[FDTC:FACCH: or SACCH:SUPPort:IRA?]
Returns current state of RA Support (1 bit value).

TA?
[FDTC:FACCH: or SACCH:TA?]
Returns Time Alignment (5 bit value).

TASK?
[FDTC:FACCH: or SACCH:TASK?]
Returns current value of Task Status (3 bit value).

FDTC:

FACCH: or **SACCH:**

TI?
[FDTC:FACCH: or SACCH:TI?]
Returns Timeslot Indicator (0 to 6). (0 is analog.)

USER:

DEST:

LENGth?
[FDTC:FACCH: or SACCH:USER:DEST:LENGth?]
Returns current value of User Destination Address Extended Remaining Length (8 bit value).

TYPE?
[FDTC:FACCH: or SACCH:USER:DEST:TYPE?]
Returns current value of User Destination Address Type of Number (3 bit value).

PLANid?
[FDTC:FACCH: or SACCH:USER:DEST:PLANid?]
Returns current value of User Destination Address Number Plan Identification (4 bit value).

ENCoding?
[FDTC:FACCH: or SACCH:USER:DEST:ENCoding?]
Returns current state of User Destination Address Encoding (1 bit value).

ADDRess?
[FDTC:FACCH: or SACCH:USER:DEST:ADDRess?]
Returns current string value of User Destination Address (ASCII string).

SUBaddress:

LENGth?
[FDTC:FACCH: or SACCH:USER:DEST:SUBaddress:LENGth?]
Returns current value of User Destination Subaddress Extended Remaining length (8 bit value).

ODD_EVEN?
[FDTC:FACCH: or SACCH:USER:DEST:SUBaddress:ODD_EVEN?]
Returns current state of User Destination Subaddress Odd/Even Indicator (1 bit value).

TYPE?
[FDTC:FACCH: or SACCH:USER:DEST:SUBaddress:TYPE?]
Returns current value of User Destination Type of Subaddress (3 bit value).

FDTC:

FACCH: or **SACCH:**

USER:

DEST:

SUBaddress:

REServed?
[FDTC:FACCH: or SACCH:USER:DEST:SUBaddress:REServed?]
Returns current value of User Destination Subaddress Reserved bits (4 bit value).

ADDRess? *n*
[FDTC:FACCH: or SACCH:USER:DEST:SUBaddress:ADDRess? n]
Returns current value of User Destination Subaddress (8 bit value) indexed by *n*. Range of *n* is 0 to 19.

ORIG:

LENGth?
[FDTC:FACCH: or SACCH:USER:ORIG:LENGth?]
Returns current value of User Originating Address Extended Remaining Length (8 bit value).

TYPE?
[FDTC:FACCH: or SACCH:USER:ORIG:TYPE?]
Returns current value of User Originating Address Type of Number (3 bit value).

PLANid?
[FDTC:FACCH: or SACCH:USER:ORIG:PLANid?]
Returns current value of User Originating Address Number Plan Identification (4 bit value).

ENCoding?
[FDTC:FACCH: or SACCH:USER:ORIG:ENCoding?]
Returns current state of User Originating Address Encoding (1 bit value).

ADDRess?
[FDTC:FACCH: or SACCH:USER:ORIG:ADDRess?]
Returns current value of User Originating Address (ASCII string).

SUBaddress:

LENGth?
[FDTC:FACCH: or SACCH:USER:ORIG:SUBaddress:LENGth?]
Returns current value of User Originating Subaddress Extended Remaining length (8 bit value).

ODD_EVEN?
[FDTC:FACCH: or SACCH:USER:ORIG:SUBaddress:ODD_EVEN?]
Returns current state of User Originating Subaddress Odd/Even Indicator (1 bit value).

FDTC:

FACCH: or **SACCH:**

USER:

ORIG:

SUBaddress:

TYPE?
[FDTC:FACCH: or SACCH:USER:ORIG:SUBaddress:TYPE?]
Returns current value of User Originating Type of Subaddress (3 bit value).

REServed?
[FDTC:FACCH: or SACCH:USER:ORIG:SUBaddress:REServed?]
Returns current value of User Originating Subaddress Reserved bits (4 bit value).

ADDRess? *n*
[FDTC:FACCH: or SACCH:USER:ORIG:SUBaddress:ADDRess? n]
Returns current value in hexadecimal of User Originating Subaddress (8 bit value) indexed by *n*. Range of *n* is 0 to 19.

PRESentation:

LENGth?
[FDTC:FACCH: or SACCH:USER:ORIG:PRESentation:LENGth?]
Returns current value of User Originating Address Presentation Indicator Extended Remaining Length (8 bit value).

PI?
[FDTC:FACCH: or SACCH:USER:ORIG:PRESentation:PI?]
Returns current value of User Originating Address Presentation Indicator (2 bit value).

SI?
[FDTC:FACCH: or SACCH:USER:ORIG:PRESentation:SI?]
Returns current value of User Originating Address Screening Indicator (2 bit value).

REServed?
[FDTC:FACCH: or SACCH:USER:ORIG:PRESentation:REServed?]
Returns current value of User Originating Address Presentation Indicator reserved bits (4 bit value).

VMI:

VC?
[FDTC:FACCH: or SACCH:VMI:VC?]
Returns current value of Voice Mode Voice coder (3 bit value).

PM_V?
[FDTC:FACCH: or SACCH:VMI:PM_V?]
Returns current value of Voice Privacy Mode (3 bit value).

FDTC:

FACCH: or **SACCH:**

VPM?
[FDTC:FACCH: or SACCH:VPM?]
Returns Voice Privacy Mode (1 bit value).

9-6-3 FORWARD DIGITAL TRAFFIC CHANNEL RAW DATA

The Sp Tst contains a variable capacity data buffer to capture raw data (undecoded bit stream) received on the Forward Digital Traffic Channel. Prior to initiating FDTC raw data commands, set Sp Tst to initial FDTC setup (**FDTC:SET**). Obtain new data information by setting *n* from 0 to current **FDTC:RAW:DEPTH** setting minus one, when using raw data information queries. Refer to 10-4-2.

FDTC:RAW:

SELect:

FACCH
[FDTC:RAW:SELect:FACCH]
Selects Fast Associated Control Channel for raw data.

SACCH
[FDTC:RAW:SELect:SACCH]
Selects Slow Associated Control Channel for raw data.

DEPTH *n*
[FDTC:RAW:DEPTH n]
Selects size (number of data words) of data buffer. Range of *n* is 1 to 100.

START
[FDTC:RAW:START]
Starts raw data Capture.

STOP
[FDTC:RAW:STOP]
Stops raw data Capture.

CF? *n*
[FDTC:RAW:CF? n]
Returns Continuation Flag bit from selected data word. Range of *n* is 0 to 99.

COUNt?
[FDTC:RAW:COUNt?]
Returns number of data words received (increments with each new data word). Used to determine when to query for new data information.

DVCC? *n*
[FDTC:RAW:DVCC? n]
Returns Digital Verification Color Code from selected data word. Range of *n* is 0 to 99.

MESSage? *n,x*
[FDTC:RAW:MESSage? n,x]
Returns selected message byte from selected data word. Range of *n* is 0 to 99. Range of *x* (byte) is 0 to 5.

RSVD? *n*
[FDTC:RAW:RSVD? n]
Returns Reserved for Future Use bits from selected data word. Range of *n* is 0 to 99.

TIME? *n*
[FDTC:RAW:TIME? n]
Returns Time Stamp in ms of selected data word. Range of *n* is 0 to 99.

9-6-4 IS-54 RAW DATA

The Sp Tst contains a fixed capacity data buffer (100 data words) to capture raw timeslot data (undecoded bit streams) received on the Forward Digital Traffic Channel. Prior to initiating FDTC raw data commands, set Sp Tst to initial FDTC setup (**FDTC:SET**). Refer to 10-4-3.

FDTC:IS54:

START
[FDTC:IS54:START]
Starts IS-54 timeslot raw data Capture

STOP
[FDTC:IS54:STOP]
Stops IS-54 timeslot raw data Capture.

CDVCC? *n*
[FDTC:IS54:CDVCC? n]
Returns the 12 bit Coded Digital Color Code from selected data word. Range of *n* is 0 to 99.

COUNt?
[FDTC:IS54:COUNt?]
Returns number of data words received (increments with each new data word). Used to determine when to query for new data information.

DATA? *n,x*
[FDTC:IS54:DATA? n,x]
Returns selected character data from selected data word. Range of *n* is 0 to 99. Range of *x* (character) is 1 to 65.

SACCH? *n*
[FDTC:IS54:SACCH? n]
Returns 12 bits of the SACCH message in selected data word. Range of *n* is 0 to 99.

SYNC? *n*
[FDTC:IS54:SYNC? n]
Returns the 28 Synchronization bits from selected data word. Range of *n* is 0 to 99.

TIME? *n*
[FDTC:IS54:TIME? n]
Returns Time Stamp in ms of selected data word. Range of *n* is 0 to 99.

9-7 REVERSE CONTROL CHANNEL (RECC) MONITOR COMMANDS

9-7-1 REVERSE CONTROL CHANNEL CONTROL

RECC:

SETup
[RECC:SETup]
Sets up the Sp Tst as when entering the Reverse Control Channel screen (screen is not displayed). The HOST is forced into Duplex Mode through selection of Duplex screen.

CONFigure:

USER
[RECC:CONFigure:USER]
This command is identical to the **RECC:SETup** command except that the USER screen is selected.

NONE
[RECC:CONFigure:NONE]
This command is also identical to the **RECC:SETup** command except that the Test Set remains in the screen currently displayed.

CHANnel *n*
[RECC:CHANnel n]
Selects Reverse Control Channel to monitor.

FREQuency:BAND (See 9-3)	**RANGE OF** *n*
0	1 to 333
1	1 to 1023
2	1 to 1999

STARt
[RECC:STARt]
Starts background task which decodes Reverse Control Channel data. Decoded data is stored internally by the Sp Tst and is returned by the TMAC commands in 9-7-2.

STOP
[RECC:STOP]
Stops decoding Reverse Control Channel data.

9-7-2 REVERSE CONTROL CHANNEL DECODE DATA

- Each query command returns the last decoded value.
- If the specific data item is not available or has already been read, the query returns -1.

RECC:

TORDer?
[RECC:TORDer?]
Returns combination of the T and Order Fields (string):

AUDIT	BSCHAL	ORDER CONF
ORIGIN	ORIGIN W/SERVICE	PAGE RESP
PAGE RESP W/SERVICE	REG	UCHALCON

AUTHR?
[RECC:AUTHR?]
Returns AUTHR from Mobile Station Authentication Algorithms (18 bit value).

AUTHU?
[RECC:AUTHU?]
Returns AUTHU used in Unique Challenge Order Confirmation (18 bit value).

COUNt?
[RECC:COUNt?]
Returns modulo-64 count sent from Mobile Station.

CRC?
[RECC:CRC?]
Returns 16 bit CRC, 24 bit CRC or no CRC setting on data/fax call (2 bit value).

DATA:

ACKED?
[RECC:DATA:ACKED?]
Returns current state of Acked Data (1 bit value).

PART?
[RECC:DATA:PART?]
Returns current value of Data Part (3 bit value).

DCC?
[RECC:DCC?]
Returns Digital Color Code (seven bit value).

DIGITS1?
[RECC:DIGITS1?]
Returns up to 16 digits (string).

DIGITS2?
[RECC:DIGITS2?]
Returns up to 16 digits (string).

RECC:

E?
[RECC:E?]
Returns Extended Address (1 bit value).

EP?
[RECC:EP?]
Returns Extended Protocol (1 bit value).

ER?
[RECC:ER?]
Returns Extended Protocol Reverse Channel Indicator (1 bit value).

ESN?
[RECC:ESN?]
Returns Electronic Serial Number (32 bit value).

LOCAL_MT?
[RECC:LOCAL_MT?]
Returns Local Control (Local Control message)/Message Type (5 bit value).

LT?
[RECC:LT?]
Returns Last Try (1 bit value).

MIN?
[RECC:MIN?]
Returns Mobile Identification Number (string) of Mobile Station.

MPCI?
[RECC:MPCI?]
Returns Mobile Protocol Capability Indicator (1 bit value).

ORDERCD?
[RECC:ORDERCD?]
Returns Order Code (5 bit value).

ORDQ?
[RECC:ORDQ?]
Returns Order Qualifier (3 bit value).

PM_D?
[RECC:PM_D?]
Returns current value of Selected Privacy Mode (3 bit value).

RANDBS?
[RECC:RANDBS?]
Returns RANDBS used in Base Station Challenge Order (32 bit value).

RANDC?
[RECC:RANDC?]
Returns RANDC (eight bit value).

RECC:

RLP?
[RECC:RLP?]
Returns current value of Layer 2 Radio Link Protocol used for a data/fax call (2 bits value).

S?
[RECC:S?]
Returns Serial Number (1 bit value).

SAP?
[RECC:SAP?]
Returns current state of Service Access Point for data/fax call (1 bit value).

SCM?
[RECC:SCM?]
Returns Station Class Mark (4 bit value).

SDCC1?
[RECC:SDCC1?]
Returns Supplementary Digital Color Code 1 (2 bit value).

SDCC2?
[RECC:SDCC2?]
Returns Supplementary Digital Color Code 2 (2 bit value).

SERVice?
[RECC:SERVice?]
Returns current value of Service code (4 bit value).

9-8 REVERSE VOICE CHANNEL (RVC) MONITOR COMMANDS

9-8-1 REVERSE VOICE CHANNEL CONTROL

RVC:

SETup
[RVC:SETup]
Sets up the Sp Tst as when entering the Reverse Voice Channel screen (screen is not displayed). The HOST is forced into Duplex Mode through selection of Duplex screen.

CONFigure:

USER
[RVC:CONFigure:USER]
This command is identical to the **RVC:SETup** command except that the USER screen is selected.

NONE
[RVC:CONFigure:NONE]
This command is also identical to the **RVC:SETup** command except that the Test Set remains in the screen currently displayed.

CHANnel *n*
[RVC:CHANnel n]
Selects Reverse Voice Channel to monitor.

FREQuency:BAND (See 9-3)	**RANGE OF** *n*
0	1 to 333
1	1 to 1023
2	1 to 1999

STARt
[RVC:STARt]
Starts background task which decodes Reverse Voice Channel data. Decoded data is stored internally by the Sp Tst and is returned by the TMAC commands in 9-8-2.

STOP
[RVC:STOP]
Stops decoding Reverse Voice Channel data.

9-8-2 REVERSE VOICE CHANNEL DECODE DATA

- Each query command returns the last decoded value.
- If the specific data item is not available or has already been read, the query returns -1.

RVC:

TORDer?
[RVC:TORDer?]
Returns combination of the T and Order Fields (string):

BSCHAL	CALLED ADDR	ORDER CONFIRM
PAGE RESP	RELEASE	SN RESPONSE
UCHALCON		

AUTHu?
[RVC:AUTHu?]
Returns AUTHU used in Unique Challenge Order Confirmation (18 bit value).

DIGITS?
[RVC:DIGITS?]
Returns up to 32 digits (string).

ESN?
[RVC:ESN?]
Returns Electronic Serial Number (32 bit value).

LOCAL_MT?
[RVC:LOCAL_MT?]
Returns Local Control (Local Control message)/Message Type (5 bit value).

ORDERCD?
[RVC:ORDERCD?]
Returns Order Code (5 bit value).

ORDQ?
[RVC:ORDQ?]
Returns Order Qualifier (3 bit value).

RANDbs?
[RVC:RANDbs?]
Returns RANDBS used in Base Station Challenge Order (32 bit value).

9-9 REVERSE DIGITAL TRAFFIC CHANNEL (RDTC) MONITOR COMMANDS

9-9-1 REVERSE DIGITAL TRAFFIC CHANNEL CONTROL

RDTC:

SETup
[RDTC:SETup]
Sets up the Sp Tst as when entering the Reverse Digital Traffic Channel screen (screen is not displayed). The HOST is forced into Duplex Mode through selection of Duplex screen.

CONFigure:

USER
[RDTC:CONFigure:USER]
This command is identical to the **RDTC:SETup** command except that the USER screen is selected.

NONE
[RDTC:CONFigure:NONE]
This command is also identical to the **RDTC:SETup** command except that the Test Set remains in the screen currently displayed.

CHANnel *n*
[RDTC:CHANnel n]
Selects Reverse Digital Traffic Channel to monitor.

FREQuency:BAND (See 9-3)	**RANGE OF** *n*
0	1 to 333
1	1 to 1023
2	1 to 1999

SLOT *n*
[RDTC:SLOT n]
Selects Timeslot. Range of *n* is 1 to 3.

STARt
[RDTC:STARt]
Starts background task which decodes Reverse Digital Traffic Channel data. Decoded data is stored internally by the Sp Tst and is returned by the TMAC commands in 9-9-2.

STOP
[RDTC:STOP]
Stops decoding Reverse Digital Traffic Channel data.

RDTC:

VOCoder:

ACELP
[RDTC:VOCoder:ACELP]
Selects ACELP vocoder.

VSELP
[RDTC:VOCoder:VSELP]
Selects VSELP vocoder.

AUTO:ACKnowledge:

ENABle *n*
[RDTC:AUTO:ACKnowledge:ENABle n]
Enables (*n* = 1) or disables (*n* = 0) automatic message acknowledgment on the RDTC.

ENABle?
[RDTC:AUTO:ACKnowledge:ENABle?]
Returns current state of automatic message acknowledgment on the RDTC.

REMote:

STARt
[RDTC:REMote:STARt]
Stops monitoring RDTC, and VSELP data is redirected as ASCII characters out RS-232 Connector.

- Baud Rate should be set to 38400 prior to command execution to allow RS-232 to maintain pace with the data received.
- Each line contains 54 ASCII Characters representing 27 bytes, followed by a carriage return.
- Refer to Table 9-1.

STOP
[RDTC:REMote:STOP]
Stops redirection of VSELP data out RS-232 Connector.

RDTC:

R0?

[RDTC:R0?]

Returns the VSELP frame energy value (0 to 31).

BYTE		DESCRIPTION
#1	R0	Frame Energy
#2	PC1	1st Reflection Coefficient
#3	PC2	2nd Reflection Coefficient
#4	PC3	3rd Reflection Coefficient
#5	PC4	4th Reflection Coefficient
#6	PC5	5th Reflection Coefficient
#7	PC6	6th Reflection Coefficient
#8	PC7	7th Reflection Coefficient
#9	PC8	8th Reflection Coefficient
#10	LPC9	9th Reflection Coefficient
#11	LPC10	10th Reflection Coefficient
#12	LAG_1	Lag,1st Subframe
#13	LAG_2	Lag,2nd Subframe
#14	LAG_3	Lag,3rd Subframe

BYTE		DESCRIPTION
#15	LAG_4	Lag,4th Subframe
#16	CODE1_1	1st Code,I,1st Subframe
#17	CODE1_2	1st Code,I,2nd Subframe
#18	CODE1_3	1st Code,I,3rd Subframe
#19	LPC9	9th Reflection Coefficient
#20	LPC10	10th Reflection Coefficient
#21	LAG_1	Lag,1st Subframe
#22	LAG_2	Lag,2nd Subframe
#23	LAG_3	Lag,3rd Subframe
#24	LAG_4	Lag,4th Subframe
#25	CODE1_1	1st Code,I,1st Subframe
#26	CODE1_2	1st Code,I,2nd Subframe
#27	CODE1_3	1st Code,I,3rd Subframe

Table 9-1 Speech Parameter (27 bytes)

9-9-2 REVERSE DIGITAL TRAFFIC CHANNEL DECODE DATA

RDTC:FACCH: queries pertain to the blank and burst Fast Associated Control Channel (FACCH).
RDTC:SACCH: queries pertain to the continuous Slow Associated Control Channel (SACCH).

- Each query command returns the last decoded value.
- If the specific data item is not available or has already been read, the query returns -1.

RDTC:

FACCH: or **SACCH:**

MSGtype?
[RDTC:FACCH: or SACCH:MSGtype?]
Returns Message Type received from Mobile Station (string):

BSCHAL	BSMC	CAPABILITY REQ	CAPABILITY RESP
CHAN QUAL1	CHAN QUAL2	CHAN QUAL3	CHAN QUAL4
CONNECT	FLASH	FLASH ACK	HYPER MEAS ACK
MEAS ACK	MOBILE ACK	PLC ACK	PU ACK
R-DATA	R-DATA ACCEPT	R-DATA REJECT	REAUTH CONF
RELEASE	SBDTMF	SCDTMF	SERVICE REQ
SOC	SSD UP CON	STATUS	UCHALCON

AMT?
[RDTC:FACCH: or SACCH:AMT?]
Returns Acknowledge Message Type (string):

ALERT	AUDIT	DTC HANDOFF
HANDOFF	LOC CONT	MAINTNCE
RELEASE	STOP MEAS	

AUTHRA?
[RDTC:FACCH: or SACCH:AUTHRA?]
Returns the last decoded value of AUTHRA (18 bit value) used in Re-Authentication Order Confirmation. Returns -1 if already returned or not available.

AUTHU?
[RDTC:FACCH: or SACCH:AUTHU?]
Returns AUTHU used in Unique Challenge Order Confirmation (18 bit value).

BANDWidth?
[RDTC:FACCH: or SACCH:BANDWidth?]
Returns the last decoded value of Bandwidth (3 bit value). Returns -1 if already returned or not available.

RDTC:

FACCH: or **SACCH:**

BER?
[RDTC:FACCH: or SACCH:BER?]
Returns Bit Error Rate (3 bit value). Refer to Table 9-2.

BIT VALUE	BER INTERVAL (%)	BIT VALUE	BER INTERVAL (%)
0	0.00 to 0.01	4	1.0 to 2.0
1	0.01 to 0.1	5	2.0 to 4.0
2	0.1 to 0.5	6	4.0 to 8.0
3	0.5 to 1.0	7	≥8.0

Table 9-2 BER Bit Definition

BSMC?
[RDTC:FACCH: or SACCH:BSMC?]
Returns current value of BSMC (8 bit value).

CALLED:

TYpe?
[RDTC:FACCH: or SACCH:CALLED:TYpe?]
Returns Called Party Number Type (3 bit value).

PLANid?
[RDTC:FACCH: or SACCH:CALLED:PLANid?]
Returns Called Party Numbering Plan Identification (4 bit value).

SPare?
[RDTC:FACCH: or SACCH:CALLED:SPare?]
Returns value of Called Party Number spare bit (1 bit value).

NUM?
[RDTC:FACCH: or SACCH:CALLED:NUM?]
Returns number of Called Party (string).

RDTC:

FACCH: or **SACCH:**

CALLING:

TYpe?
[RDTC:FACCH: or SACCH:CALLING:TYpe?]
Returns Calling Party Number Type (3 bit value).

PLANid?
[RDTC:FACCH: or SACCH:CALLING:PLANid?]
Returns Calling Party Numbering Plan Identification (4 bit value).

SPare?
[RDTC:FACCH: or SACCH:CALLING:SPare?]
Returns value of Calling Party Number spare bits (5 bit value).

PI?
[RDTC:FACCH: or SACCH:CALLING:PI?]
Returns the value of Calling Party Number Presentation Indicator (2 bit value).

SI?
[RDTC:FACCH: or SACCH:CALLING:SI?]
Returns the value of Calling Party Number Screening Indicator (2 bit value).

NUM?
[RDTC:FACCH: or SACCH:CALLING:NUM?]
Returns number of Calling Party (string).

CM?
[RDTC:FACCH: or SACCH:CM?]
Returns Call Mode (5 bit value).

RDTC:

FACCH: or **SACCH:**

CUSTOM:

LENGth?
[RDTC:FACCH: or SACCH:CUSTOM:LENGth?]
Returns current value of Length of custom control in octets (8 bit value).

CONTrol? *n*
[RDTC:FACCH: or SACCH:CUSTOM:CONTrol? n]
Returns current value of Custom Control (8 bit value) indexed by *n*. Range of *n* is 0 to 255.

DIC?
[RDTC:FACCH: or SACCH:DIC?]
Returns the Delay Interval Compensation (1 bit value).

DIGits?
[RDTC:FACCH: or SACCH:DIGits?]
Returns up to 32 digits (string).

DMAC?
[RDTC:FACCH: or SACCH:DMAC?]
Returns Digital Mobile Attenuation Code (4 bit value).

DTX?
[RDTC:FACCH: or SACCH:DTX?]
Returns Discontinuous Transmission (1 bit value).

ESN?
[RDTC:FACCH: or SACCH:ESN?]
Returns Electronic Serial Number (32 bit value).

FI?
[RDTC:FACCH: or SACCH:FI?]
Returns Feature Indicator (4 bit value).

HYPERband:

NUMBer? -or- NUM?
[RDTC:FACCH: or SACCH:HYPERband:NUMBer?]
Returns current value of Number of Hyperband Channels (5 bit value).

BAND? *n*
[RDTC:FACCH: or SACCH:HYPERband:BAND? n]
Returns current value of Hyperband band (2 bit value) indexed by *n*. Range of *n* is 0 to 23.

CHANnel? *n*
[RDTC:FACCH: or SACCH:HYPERband:CHANnel? n]
Returns current value of Hyperband Channel (11 bit value) indexed by *n*. Range of *n* is 0 to 23.

RDTC:

FACCH: or **SACCH:**

KF?
[RDTC:FACCH: or SACCH:KF?]
Returns Keypad Facility (32 digits).

LDP?
[RDTC:FACCH: or SACCH:LDP?]
Returns Last Decoded Parameter (4 bit value).

MAP:

VPM?
[RDTC:FACCH: or SACCH:MAP:VPM?]
Returns current value of Voice Privacy Mode Map (4 bit value).

CODER?
[RDTC:FACCH: or SACCH:MAP:CODER?]
Returns current value of Voice Coder Map (6 bit value).

MEA:

DOMAIN?
[RDTC:FACCH: or SACCH:MAP:MEA:DOMAIN?]
Returns current value of Message Encryption Algorithm map domain (8 bit value).

ALGORithms? *n*
[RDTC:FACCH: or SACCH:MAP:MEA:ALGORithms? n]
Returns current value of Message Encryption Algorithms (4 bit value) indexed by *n*. Range of *n* is 0 to 7.

MEK?
[RDTC:FACCH: or SACCH:MAP:MEK?]
Returns current value of Message Encryption Key Map (4 bit value).

ARQ?
[RDTC:FACCH: or SACCH:MAP:ARQ?]
Returns current state of FACCH/SACCH ARQ Map (1 bit value).

SMS?
[RDTC:FACCH: or SACCH:MAP:SMS?]
Returns current value of SMS Map (2 bit value).

MEM?
[RDTC:FACCH: or SACCH:MEM?]
Returns Memory Encryption Mode (1 bit value).

RDTC:

FACCH: or **SACCH:**

MESSage:CENTer:

LENGth?
[RDTC:FACCH: or SACCH:MESSage:CENTer:LENGth?]
Returns current value of Message Center Address Extended Remaining Length (8 bit value).

TYPE?
[RDTC:FACCH: or SACCH:MESSage:CENTer:TYPE?]
Returns current value of Message Center Address Type of Number (3 bit value).

PLANid?
[RDTC:FACCH: or SACCH:MESSage:CENTer:PLANid?]
Returns current value of Message Center Address Number Plan Identification (4 bit value).

ENCoding?
[RDTC:FACCH: or SACCH:MESSage:CENTer:ENCoding?]
Returns current state of Message Center Address Encoding (1 bit value).

ADDRess?
[RDTC:FACCH: or SACCH:MESSage:CENTer:ADDRess?]
Returns current string value of Message Center Address (ASCII string).

MODe:

VOICe:

VC?
[RDTC:FACCH: or SACCH:MODe:VOICe:VC?]
Returns the last decoded value of VC (voice coder information) (3 bit value). Returns -1 if already returned or not available.

PM_V?
[RDTC:FACCH: or SACCH:MODe:VOICe:PM_V?]
Returns the last decoded value of PM_V (voice privacy mode information) (3 bit value). Returns -1 if already returned or not available.

RDTC:

FACCH: or **SACCH:**

MODe:

DATA:

PM?
[RDTC:FACCH: or SACCH:MODe:DATA:PM?]
Returns the last decoded value of PM_D (data privacy mode) (3 bit value). Returns -1 if already returned or not available.

SAP?
[RDTC:FACCH: or SACCH:MODe:DATA:SAP?]
Returns the last decoded state of SAP (1 bit value). Returns -1 if already returned or not available.

Indicates if the link layer provides one or two logical links.

ACKED?
[RDTC:FACCH: or SACCH:MODe:DATA:ACKED?]
Returns the last decoded state of Acked Data (1 bit value). Returns -1 if already returned or not available.

CRC?
[RDTC:FACCH: or SACCH:MODe:DATA:CRC?]
Returns the last decoded value of CRC (2 bit value). Returns -1 if already returned or not available.

Identifies if a 16 bit CRC, 24 bit CRC or no CRC is used.

PART?
[RDTC:FACCH: or SACCH:MODe:DATA:PART?]
Returns the last decoded value of Data Part (3 bit value). Returns -1 if already returned or not available.

RLP?
[RDTC:FACCH: or SACCH:MODe:DATA:RLP?]
Returns the last decoded value of RLP (radio link protocol) (2 bit value). Returns -1 if already returned or not available.

REServed
[RDTC:FACCH: or SACCH:MODe:DATA:REServed]
Returns the last decoded value of the Reserved field (4 bit value) of the Data Mode information element. Returns -1 if already returned or not available.

RDTC:

FACCH: or **SACCH:**

NV?
[RDTC:FACCH: or SACCH:NV?]
Returns Numbers of Values (string of numbers, one for each optional information element in the message, with each number derived from the corresponding six bit value).

PD?
[RDTC:FACCH: or SACCH:PD?]
Returns the Protocol Discriminator (2 bit value).

PT?
[RDTC:FACCH: or SACCH:PT?]
Returns Parameter Types (string of numbers, one for each optional information element in the message, with each number derived from the corresponding six bit value).

PV?
[RDTC:FACCH: or SACCH:PV?]
Returns current value of Protocol Version (8 bit value).

RANDBS?
[RDTC:FACCH: or SACCH:RANDBS?]
Returns RANDBS used in the Base Station Challenge Order (32 bit value).

CAUSe?
[RDTC:FACCH: or SACCH:RCAUSe?]
Returns current value of R-Cause (8 bit value).

RCAUSe:REServed?
[RDTC:FACCH: or SACCH:RCAUSe:REServed?]
Returns the last decoded value of the R-Cause Reserved field (1 bit value).

RDTC:

FACCH: or **SACCH:**

RDATA_UNIT:

LENGth?
[RDTC:FACCH: or SACCH:RDATA_UNIT:LENGth?]
Returns current value of R-Data Unit Extended Remaining Length (8 bit value).

HLP:

IDentifier?
[RDTC:FACCH: or SACCH:RDATA_UNIT:HLP:IDentifier?]
Returns current value of R-Data Unit Higher Layer Protocol Identifier (8 bit value).

DATA? *n*
[RDTC:FACCH: or SACCH:RDATA_UNIT:HLP:DATA? n]
Returns current value of R-Data Unit Higher Layer Protocol Data Unit (8 bit value) indexed by *n*. Range of *n* is 0 to 253.

RFCHAN? *n*
[RDTC:FACCH: or SACCH:RFCHAN? n]
Returns current value of RFCHAN (8 bit value) indexed by *n*. Range of *n* is 0 to 23.

RL?
[RDTC:FACCH: or SACCH:RL?]
Returns Remaining Length (six bit value).

RN?
[RDTC:FACCH: or SACCH:RN?]
Returns Request Number (4 bit value).

RR?
[RDTC:FACCH: or SACCH:RR?]
Returns Release Reason (4 bit value).

RSSI? *n*
[RDTC:FACCH: or SACCH:RSSI? n]
Returns Received Signal Strength Indicator (5 bit value) for selected index. (0 indicates -113 dBm and 31 indicates -51 dBm.) Range of *n* (index) is 0 to 11.

RSSIC?
[RDTC:FACCH: or SACCH:RSSIC?]
Returns Received Signal Strength Indicator (5 bit value) of Current RF Channel. (0 indicates -113 dBm and 31 indicates -51 dBm.)

RDTC:

FACCH: or **SACCH:**

RTRANSaction?
[RDTC:FACCH: or SACCH:RTRANSaction?]
Returns current value of R-Transaction Identifier (8 bit value).

SERVice:CODE?
[RDTC:FACCH: or SACCH:SERVice:CODE?]
Returns the last decoded value of Service Code (4 bit value). Returns -1 if already returned or not available.

SOC?
[RDTC:FACCH: or SACCH:SOC?]
Returns current value of SOC (12 bit value).

SSDUP?
[RDTC:FACCH: or SACCH:SSDUP?]
Returns Shared Secret Data Update (1 bit value).

SUPPort:

IRA?
[RDTC:FACCH: or SACCH:SUPPort:IRA?]
Returns current state of IRA Support (1 bit value).

FREQuency:BANDS?
[RDTC:FACCH: or SACCH:SUPPort:FREQuency:BANDS?]
Returns current value of Supported Frequency Bands (8 bit value).

ANAlog?
[RDTC:FACCH: or SACCH:SUPPort:ANAlog?]
Returns current state of 800 MHz Analog Speech Support (1 bit value).

TA?
[RDTC:FACCH: or SACCH:TA?]
Returns Time Alignment offset (5 bit value).

TASK?
[RDTC:FACCH: or SACCH:TASK?]
Returns current value of Task Status (3 bit value).

TERMinf?
[RDTC:FACCH: or SACCH:TERMinf?]
Returns Terminal Information of Mobile Station (32 bit value).

RDTC:

FACCH: or **SACCH:**

USER:

DEST:

LENGth?
[RDTC:FACCH: or SACCH:USER:DEST:LENGth?]
Returns current value of User Destination Address Extended Remaining Length (8 bit value).

TYPE?
[RDTC:FACCH: or SACCH:USER:DEST:TYPE?]
Returns current value of User Destination Address Type of Number (3 bit value).

PLANid?
[RDTC:FACCH: or SACCH:USER:DEST:PLANid?]
Returns current value of User Destination Address Number Plan Identification (4 bit value).

ENCoding?
[RDTC:FACCH: or SACCH:USER:DEST:ENCoding?]
Returns current state of User Destination Address Encoding (1 bit value).

ADDRess?
[RDTC:FACCH: or SACCH:USER:DEST:ADDRess?]
Returns current string value of User Destination Address (ASCII string).

SUBaddress:

LENGth?
[RDTC:FACCH: or SACCH:USER:DEST:SUBaddress:LENGth?]
Returns current value of User Destination Subaddress Extended Remaining length (8 bit value).

ODD_EVEN?
[RDTC:FACCH: or SACCH:USER:DEST:SUBaddress:ODD_EVEN?]
Returns current state of User Destination Subaddress Odd/Even Indicator (1 bit value).

TYPE?
[RDTC:FACCH: or SACCH:USER:DEST:SUBaddress:TYPE?]
Returns current value of User Destination Type of Subaddress (3 bit value).

REServed?
[RDTC:FACCH: or SACCH:USER:DEST:SUBaddress:REServed?]
Returns current value of User Destination Subaddress Reserved bits (4 bit value).

ADDRess? *n*
[RDTC:FACCH: or SACCH:USER:DEST:SUBaddress:ADDRess?]
Returns current value of User Destination Subaddress (8 bit value) indexed by *n*. Range of *n* is 0 to 19.

RDTC:

FACCH: or **SACCH:**

USER:

ORIG:

LENGth?
[RDTC:FACCH: or SACCH:USER:ORIG:LENGth?]
Returns current value of User Originating Address Extended Remaining Length (8 bit value).

TYPE?
[RDTC:FACCH: or SACCH:USER:ORIG:TYPE?]
Returns current value of User Originating Address Type of Number (3 bit value).

PLANid?
[RDTC:FACCH: or SACCH:USER:ORIG:PLANid?]
Returns current value of User Originating Address Number Plan Identification (4 bit value).

ENCoding?
[RDTC:FACCH: or SACCH:USER:ORIG:ENCoding?]
Returns current state of User Originating Address Encoding (1 bit value).

ADDRess?
[RDTC:FACCH: or SACCH:USER:ORIG:ADDRess?]
Returns current string value of User Originating Address (ASCII string).

SUBaddress:

LENGth?
[RDTC:FACCH: or SACCH:USER:ORIG:SUBaddress:LENGth?]
Returns current value of User Originating Subaddress Extended Remaining length (8 bit value).

ODD_EVEN?
[RDTC:FACCH: or SACCH:USER:ORIG:SUBaddress:ODD_EVEN?]
Returns current state of User Originating Subaddress Odd/Even Indicator (1 bit value).

TYPE?
[RDTC:FACCH: or SACCH:USER:ORIG:SUBaddress:TYPE?]
Returns current value of User Originating Type of Subaddress (3 bit value).

REServed?
[RDTC:FACCH: or SACCH:USER:ORIG:SUBaddress:REServed?]
Returns current value of User Originating Subaddress Reserved bits (4 bit value).

ADDRess? *n*
[RDTC:FACCH: or SACCH:USER:ORIG:SUBaddress:ADDRess?]
Returns current value of User Originating Subaddress (8 bit value) indexed by *n*. Range of *n* is 0 to 19.

RDTC:

FACCH: or **SACCH:**

USER:

ORIG:

PRESentation:

LENGth?
[RDTC:FACCH: or SACCH:USER:ORIG:PRESentation:LENGth?]
Returns current value of User Originating Address Presentation Indicator Extended Remaining Length (8 bit value).

PI?
[RDTC:FACCH: or SACCH:USER:ORIG:PRESentation:PI?]
Returns current value of User Originating Address Presentation Indicator (2 bit value).

SI?
[RDTC:FACCH: or SACCH:USER:ORIG:PRESentation:SI?]
Returns current value of User Originating Address Screening Indicator (2 bit value).

REServed?
[RDTC:FACCH: or SACCH:USER:ORIG:PRESentation:REServed?]
Returns current value of User Originating Address Presentation Indicator reserved bits (4 bit value).

VPM?
[RDTC:FACCH: or SACCH:VPM?]
Returns Voice Privacy Mode (1 bit value).

9-10 FDCCH DATA MONITOR

This section contains the TMAC commands to monitor the FDCCH. The FDCCH Data Monitor consists of the TMAC commands necessary to monitor the Forward Digital Control Channel.

9-10-1 SETUP COMMANDS

The FDCCH Setup commands configure the Sp Tst to receive and decode data on the FDCCH.

FDCCH:

SETup
[FDCCH:SETup]
Sets up the Sp Tst as when entering the Forward Digital Control Channel screen (screen is not displayed). The HOST is forced into Duplex Mode through selection of Duplex screen.

This command also sets the HOST to receive through the Antenna Connector.

CONFigure:

USER
[FDCCH:CONFigure:USER]
This command is identical to the **FDCCH:SETup** command except that the USER screen is selected.

NONE
[FDCCH:CONFigure:NONE]
This command is identical to the **FDCCH:SETup** command except that the Test Set remains in the screen currently displayed.

CHANnel *n*
[FDCCH:CHANnel n]
Selects the Forward channel to monitor.

FREQuency:BAND (See 9-3)	**RANGE OF** *n*
0	1 to 333
1	1 to 1023
2	1 to 1999

CHANnel?
[FDCCH:CHANnel?]
Returns current value of Channel.

DVCC *n*
[FDCCH:DVCC n]
Specifies Digital Verification Color Code. Range of *n* is 0 to 255.

DVCC?
[FDCCH:DVCC?]
Returns current value of DVCC.

DVCC must be specified for Real Time Data Monitor (9-10-6) to operate properly.

FDCCH:

RATE *n*
[FDCCH:RATE n]
Selects TDMA transmission rate: Full (*n* = 0) or Half (*n* = 1).

RATE?
[FDCCH:RATE?]
Return current setting of Rate.

SLOT *n*
[FDCCH:SLOT n]
Selects the full rate pair or half rate Slot in which to receive. Range of *n* is 1 to 3 (full) or 1 to 6 (half).

SLOT?
[FDCCH:SLOT?]
Returns current value of Slot.

9-10-2 CONTINUOUS REMOTE RAW TIMESLOT DATA

The following commands Start or Stop the transmission of data received in an IS-136 DCCH timeslot out the RS-232 Connector and specify if a Sync word is included. The data is retransmitted exactly as received without being de-interleaved, corrected for errors or formatted.

Before entering this mode of operation, the baud rate should be set 57600 (for the Sp Tst and remote terminal). Each Timeslot consists of 324 bits, which corresponds to 81 ASCII characters when displayed in hexadecimal. The 81 characters representing each Timeslot is separated by a newline character. If less than 80 characters/line is desirable, the sync portion of the data may be omitted (sync portion of data is redundant), reducing the bit count to 296 and the character count to 74. An extra character preceding the data indicates the Timeslot (75 total characters).

FDCCH:REMote:TIMEslot:

STARt
[FDCCH:REMote:TIMEslot:STARt]
Starts sending the received Timeslot data out the RS-232 Connector.

STOP
[FDCCH:REMote:TIMEslot:STOP]
Stops sending the received Timeslot data out the RS-232 Connector.

SYNC *n*
[FDCCH:REMote:TIMEslot:SYNC n]
Enables (*n* = 1) or disables (*n* = 0) sync word.

Directs that Sync word be transmitted with the data out the RS-232 Connector.

9-10-3 CONTINUOUS REMOTE RAW DATA

This mode differs from Section 9-10-2. This mode de-interleaves the data and performs forward error correction before presenting the data. Only slots that contain a valid CRC are displayed. The Timeslot is broken up into the various data fields and continuously transmitted out the RS-232 Connector. Following the data is a millisecond time stamp which provides relative time between slots of data.

The data is presented in hexadecimal out the RS-232 Connector with each frame of data being separated by a newline character. The data is formatted as follows:

- The first 7 characters represent the 28 bits of the SYNC word.
- The next 3 characters are the hexadecimal value of the 12 bits of the Coded Superframe Phase (CSFP).
- The next 6 characters are the hexadecimal value (left justified) of the 22 bits of the Shared Channel Feedback (SCF).
- The next 32 characters are the hexadecimal value (left justified) of the 125 bits of data.
- The data is followed by a CRC check flag, 1 = good, 0 = bad.
- The flag is followed by a millisecond time stamp.

The following TMAC commands are used to start and stop this operation.

FDCCH:REMote:RAW:

STARt
[FDCCH:REMote:RAW:STARt]
Starts sending the received, de-interleaved and decoded data out RS-232 Connector.

STOP
[FDCCH:REMote:RAW:STOP]
Stops sending the received data out RS-232 Connector.

DVCC *n*
[FDCCH:REMote:RAW:DVCC n]
Specifies Digital Verification Color Code. Range of *n* is 1 to 255.

A DVCC, which is used when calculating the CRC, must be specified to decode the message.

An embedded macro named FRAW initiates the START when executed and sends a STOP when any key on the RS-232 terminal is pressed. To use this macro, type in the command FRAW at the RS-232 terminal.

9-10-4 BUFFERED RAW DATA

The FDCCH Raw Data commands consist of the TMAC commands used for Layer 1 raw data buffering. Up to 100 frames of raw data can be captured. (Similar to FOCC raw data TMAC commands.) The following commands are used for this operation.

FDCCH:RAW:

STARt
[FDCCH:RAW:STARt]
Starts capturing raw data on FDCCH.

STOP
[FDCCH:RAW:STOP]
Stops capturing raw data on FDCCH.

STOP occurs automatically when the buffer is full.

FULL?
[FDCCH:RAW:FULL?]
Returns current state of raw buffer: 1 = full, 0 = not full.

SYNC? *n*
[FDCCH:RAW:SYNC? n]
Returns current value of Sync word (22 bit value) in selected raw data frame (*n*). Range of *n* is 0 to 99.

SCF? *n*
[FDCCH:RAW:SCF? n]
Returns current value of Shared Channel Feedback (22 bit value) in selected raw data frame. Range of *n* is 0 to 99.

CSFP? *n*
[FDCCH:RAW:CSFP? n]
Returns the Coded Super Frame Phase (12 bit value) in the selected raw data frame (*n*). Range of *n* is 0 to 99.

DATA? *n,x*
[FDCCH:RAW:DATA? n,x]
Returns the 16 bit value of the selected raw data byte (*x*) in the selected raw data frame (*n*). Range of *n* is 0 to 99; range of *x* is 0 to 15.

TS? *n*
[FDCCH:RAW:TS? n]
Returns the Time Stamp (in milliseconds) (32 bit value) of selected raw data frame (*n*). Range of *n* is 0 to 99.

9-10-5 LAYER 2 DATA MONITOR

The FDCCH Layer 2 Data Monitor consists of the TMAC commands necessary to decode a Layer 2 message. Up to 100 frames can be captured into a buffer for non real-time decoding into Layer 2 data fields.

The process of decoding FDCCH data into Layer 2 consists of two steps:

1. Use the FDCCH Buffered Raw Data commands defined in Section 9-10-4 to capture 100 words into the raw data buffer.
2. Select one frame of raw data from the Raw Buffer and decode the frame into Layer 2 fields.

FDCCH:LAYER2:

DECode *n*
[FDCCH:LAYER2:DECode n]
Decodes the frame of data in selected raw buffer (*n*). Range of *n* is 0 to 99.

TYPE?
[FDCCH:LAYER2:TYPE?]
Returns value of the type of data in the frame that had been previously decoded.

VALUE	TYPE
1	F-BCCH
2	E-BCCH
3	SPACH
4	S-BCCH
5	RESERVED

The specific commands used to access the Layer 2 data fields are determined by the TYPE of data.

The following commands are used to access the Layer 2 data fields when TYPE of data is FBCCH:

FDCCH:LAYER2:

FBCCH:

BC?
[FDCCH:LAYER2:FBCCH:BC?]
Returns current state of Begin/Continue (1 bit value). Returns -1 if not available.

BI? *n*
[FDCCH:LAYER2:FBCCH:BI? n]
Returns current state of Begin Indicator (1 bit value) selected by *n*. Returns -1 if not available. The range of *n* is 0 to 3.

A Begin Indicator may follow any of the four Layer 3 data fields.

CLI?
[FDCCH:LAYER2:FBCCH:CLI?]
Returns current value of Continuation Length Indicator (7 bit value). Returns -1 if not available.

CLI indicates length of first block of Layer 3 data in a continuation frame.

CRC?
[FDCCH:LAYER2:FBCCH:CRC?]
Returns current value of Cyclic Redundancy Code (16 bit value). Returns -1 if not available.

EC?
[FDCCH:LAYER2:FBCCH:EC?]
Returns current state of E-BCCH Change (1 bit value). Returns -1 if not available.

FC?
[FDCCH:LAYER2:FBCCH:FC?]
Returns current state of F-BCCH Change (1 bit value). Returns -1 if not available.

L3DATA? *n,x*
[FDCCH:LAYER2:FBCCH:L3DATA? n,x]
Returns the 8 bit value of the selected byte (*x*) of the selected Layer 3 data message (*n*). Returns -1 if not available. Range of *n* is 0 to 3; range of *x* is 0 to 15.

The number of Layer 3 data messages embedded within a Layer 2 frame can be anywhere from a portion of single data message to 4 full data messages. The maximum number of bytes in a Layer 2 frame is 16 bytes.

The L3LI and CLI may be used to determine the number of 8 bit "words" in a Layer 3 message.

FDCCH:LAYER2:

FBCCH:

L3LI? *n*
[FDCCH:LAYER2:FBCCH:L3LI? n]
Returns one of four Layer 3 Length Indicators (8 bit value). Returns -1 if not available. Range of *n* is 0 to 3.

If returned from a continuation frame, the range of *n* is 1 to 3 because the length of the first block of Layer 3 data is specified by CLI.

The following commands are used to access the Layer 2 data fields when TYPE of data is E-BCCH:

FDCCH:LAYER2:

EBCCH:

BC?
[FDCCH:LAYER2:EBCCH:BC?]
Returns current state of Begin/Continue (1 bit value). Returns -1 if not available.

BI? *n*
[FDCCH:LAYER2:EBCCH:BI? n]
Returns current state of Begin Indicator (1 bit value) selected by *n*. Returns -1 if not available. The range of *n* is 0 to 3.

A Begin Indicator may follow any of the four Layer 3 data fields.

CLI?
[FDCCH:LAYER2:EBCCH:CLI?]
Returns current value of Continuation Length Indicator (7 bit value). Returns -1 if not available.

CLI specifies length of first block of Layer 3 data in a continuation frame.

CRC?
[FDCCH:LAYER2:EBCCH:CRC?]
Returns current value of Cyclic Redundancy Code (16 bit value). Returns -1 if not available.

ECL?
[FDCCH:LAYER2:EBCCH:ECL?]
Returns current value of E-BCCH Cycle Length (8 bit value). Returns -1 if not available.

FDCCH:LAYER2:

EBCCH:

L3DATA? *n,x*
[FDCCH:LAYER2:EBCCH:L3DATA? n,x]
Returns the 8 bit value of the selected byte (*x*) of the selected Layer 3 data message (*n*). Returns -1 if not available. Range of *n* is 0 to 3; range of *x* is 0 to 15.

The number of Layer 3 data messages embedded within a Layer 2 frame can consist of a portion of a single data message on up to 4 full data messages. The maximum number of bytes in a Layer 2 frame is 16 bytes. The data returned is left justified.

The L3LI and CLI may be used to determine the number of 8 bit "words" in a Layer 3 message.

L3LI? *n*
[FDCCH:LAYER2:EBCCH:L3LI? n]
Returns one of four Layer 3 Length Indicators (8 bit value). Returns -1 if not available. Range of *n* is 0 to 3.

If returned from a continuation frame, the range of *n* is 1 to 3 because the length of the first block of Layer 3 data is specified by CLI.

RSVD?
[FDCCH:LAYER2:EBCCH:RSVD?]
Returns current state of E-BCCH Layer 2 Reserved (1 bit value). Returns -1 if not available.

The following commands are used to access the Layer 2 data fields when TYPE of data is SPACH:

FDCCH:LAYER2:

SPACH:

ARM?
[FDCCH:LAYER2:SPACH:ARM?]
Returns current state of ARQ Response Mode (1 bit value). Returns -1 if not available.

ARQ_RSVD?
[FDCCH:LAYER2:SPACH:ARQ_RSVD?]
Returns current value of ARQ Layer 2 frame RSVD (2 bit value). Returns -1 if not available.

BCN?
[FDCCH:LAYER2:SPACH:BCN?]
Returns current state of BCCH Change Notification (1 bit value). Returns -1 if not available.

BT?
[FDCCH:LAYER2:SPACH:BT?]
Returns current value of Burst Type (3 bit value). Returns -1 if not available.

BU?
[FDCCH:LAYER2:SPACH:BU?]
Returns current value of Burst Usage (3 bit value). Returns -1 if not available.

CRC?
[FDCCH:LAYER2:SPACH:CRC?]
Returns current value of Cyclic Redundancy Code (16 bit value). Returns -1 if not available.

EH_RSVD?
[FDCCH:LAYER2:SPACH:EH_RSVD?]
Returns current state of Extended Header RSVD (1 bit value). Returns -1 if not available.

FRNO?
[FDCCH:LAYER2:SPACH:FRNO?]
Returns current value of Frame Number (5 bit value). Returns -1 if not available.

GA?
[FDCCH:LAYER2:SPACH:GA?]
Returns current state of Go Away (1 bit value). Returns -1 if not available.

HA_RSVD?
[FDCCH:LAYER2:SPACH:HA_RSVD?]
Returns SPACH Header A_RSVD field setting (1 bit value). Returns -1 if not available.

IDT?
[FDCCH:LAYER2:SPACH:IDT?]
Returns current value of Identity Type (2 bit value). Returns -1 if not available.

FDCCH:LAYER2:

SPACH:

L3DATA? *n,x*
[FDCCH:LAYER2:SPACH:L3DATA? n,x]
Returns the 8 bit value of the selected byte (*x*) of the selected Layer 3 Data message (*n*). Returns -1 if not available. Range of *n* is 0 to 3; range of *x* is 0 to 15.

The number of Layer 3 data messages embedded within a Layer 2 frame can consist of a portion of a single data message on up to 4 full data messages. The maximum number of bytes in a Layer 2 frame is 16 bytes. The data returned is left justified.

The L3LENGTH command may be used to determine how many 8 bit "words" make up the Layer 3 data field in the frame currently being decoded.

L3LENGTH? *n*
[FDCCH:LAYER2:SPACH:L3LENGTH? n]
Returns current value of Layer 3 data field length (8 bit value) selected by *n*. Returns -1 if not available. Range of *n* is 0 to 3.

This is the length of the Layer 3 data field in the SPACH Layer 2 frame currently being decoded.

This is necessary because the L3LIs are all contained in the first frame of a multiframe SPACH message and subsequent frames do not have the information specifying the length of the Layer 3 data field.

L3LI? *n*
[FDCCH:LAYER2:SPACH:L3LI? n]
Returns current value of Layer 3 Length Indicator (8 bit value) selected by *n*. Returns -1 if not available. Range of *n* is 0 to 3.

A SPACH Layer 2 frame may contain up to four Layer 3 Length Indicators.

MEA?
[FDCCH:LAYER2:SPACH:MEA?]
Returns current value of Message Encryption Mode (2 bit value). Returns -1 if not available.

MEK?
[FDCCH:LAYER2:SPACH:MEK?]
Returns current value of Message Encryption Key (2 bit value). Returns -1 if not available.

MM?
[FDCCH:LAYER2:SPACH:MM?]
Returns current state of Message Mapping (1 bit value). Returns -1 if not available.

FDCCH:LAYER2:

SPACH:

MSID:

LS? *n*
[FDCCH:LAYER2:SPACH:MSID:LS? n]
Returns the 32 Least Significant bits of Mobile Station Identification selected by *n*. Range of *n* is 0 to 4.

MS? *n*
[FDCCH:LAYER2:SPACH:MSID:MS? n]
Returns the 18 Most Significant bits of Mobile Station Identification selected by *n*. Range of *n* is 0 to 4.

MSID? *n,x*
[FDCCH:LAYER2:SPACH:MSID? n,x]
Returns the 8 bit value of selected byte (*x*) of the selected Mobile Station Identity (*n*). Returns -1 if not available. Range of *n* is 0 to 4; range of *x* is 0 to 2, 4 or 6.

A Layer 2 frame may contain up to 5 mobile station identities. Each MSID is 20, 24, 34 or 50 bits long and is accessed 8 bits at a time with this command. The data returned is left justified.

PCON?
[FDCCH:LAYER2:SPACH:PCON?]
Returns current state of PCH Continuation (1 bit value). Returns -1 if not available.

PEA?
[FDCCH:LAYER2:SPACH:PEA?]
Returns current value of Partial Echo Assigned (7 bit value). Returns -1 if not available.

PFM?
[FDCCH:LAYER2:SPACH:PFM?]
Returns current state of Paging Frame Modifier (1 bit value). Returns -1 if not available.

PI?
[FDCCH:LAYER2:SPACH:PI?]
Returns current state of Polling Indicator (1 bit value). Returns -1 if not available.

SRM?
[FDCCH:LAYER2:SPACH:SRM?]
Returns current state of SPACH Response Mode (1 bit value). Returns -1 if not available.

FDCCH:LAYER2:

SPACH:

UGID:

LS?
[FDCCH:LAYER2:SPACH:UGID:LS?]
Returns the 32 Least Significant bits of User Group Identification.

MS?
[FDCCH:LAYER2:SPACH:UGID:MS?]
Returns the 18 Most Significant bits of User Group Identification.

UGID? *n,x*
[FDCCH:LAYER2:SPACH:UGID? n,x]
Returns the 8 bit value of the selected byte (*x*) of the selected User Group Identity (*n*). Returns -1 if not available. Range of n is 0 to 4; range of x is 0 to 2, 4 or 6.

Each UGID is 20, 24, 34 or 50 bits long and is accessed 8 bits at a time with this command. The data returned is left justified.

9-10-6 FDCCH REAL TIME DATA MONITOR

In this mode of operation, the data returned is the last data decoded for that data field. Once a data field item is returned, -1 is returned until a new value for that data field is decoded.

Issue setup commands (9-10-1) prior to utilizing the commands this section.

A. Layer 1 Data

With the exception of the first two, the following TMAC commands return the data fields defined on the physical layer.

FDCCH:

STARt
[FDCCH:STARt]
Starts background task which decodes Forward Digital Control Channel data. Decoded data is stored internally by the Sp Tst and returned by query commands in this section.

STOP
[FDCCH:STOP]
Stops decoding the FDCCH.

BRI?
[FDCCH:BRI?]
Returns the value of the last decoded Busy/Reserved/Idle (6 bit value). Returns -1 if already returned or not available.

CPE?
[FDCCH:CPE?]
Returns the value of the last decoded Coded Partial Echo (11 bit value). Returns -1 if already returned or not available.

CRC?
[FDCCH:CRC?]
Returns the value of the last decoded CRC (16 bit value). Returns -1 if already returned or not available.

CSFP?
[FDCCH:CSFP?]
Returns the value of the last decoded Coded Super Frame Phase (12 bit value). Returns -1 if already returned or not available.

R_N?
[FDCCH:R_N?]
Returns the value of the last decoded Received/Not received (5 bit value). Returns -1 if already returned or not available.

SCF?
[FDCCH:SCF?]
Returns the value of the last decoded Share Channel Feedback (22 bit value). Returns -1 if already returned or not available.

FDCCH:

SYNC?

[FDCCH:SYNC?]

Returns the value of the last decoded sync word (28 bit value). Returns -1 if already returned or not available.

TYPE?

[FDCCH:TYPE?]

Returns value of the type of data of the last decoded frame. Returns -1 if already returned or not available. This command returns the following values:

VALUE	TYPE
1	F-BCCH
2	E-BCCH
3	SPACH
4	S-BCCH
5	RESERVED

B. F-BCCH Frames

The next set of commands return data from the F-BCCH frames.

FDCCH:

FBCCH:

BC?
[FDCCH:FBCCH:BC?]
Returns the last decoded value of Begin/Continue (1 bit value). Returns -1 if already returned or not available.

FC?
[FDCCH:FBCCH:FC?]
Returns the last decoded value of F-BCCH Change (1 bit value). Returns -1 if already returned or not available.

EC?
[FDCCH:FBCCH:EC?]
Returns the last decoded value of E-BCCH Change (1 bit value). Returns-1 if already returned or not available.

CLI?
[FDCCH:FBCCH:CLI?]
Returns the last decoded value of Continuation Length Indicator (7 bit value). Returns -1 if already returned or not available.

L3LI?
[FDCCH:FBCCH:L3LI?]
Returns the last decoded value of Layer 3 Length Indicator (8 bit value). Returns -1 if already returned or not available.

BI?
[FDCCH:FBCCH:BI?]
Returns the last decoded value of Begin Indicator (1 bit value). Returns -1 if already returned or not available.

PD?
[FDCCH:FBCCH:PD?]
Returns the last decoded value of Protocol Discriminator (2 bit value). Returns -1 if already returned or not available.

MSGtype?
[FDCCH:FBCCH:MSGtype?]
Returns the last decoded Message Type. Returns -1 if already returned or not available. This command returns the following valid message types:

ACCESS PARAM	BSMC	DCCH STRUCT	MACA
MACA (MULTI)	OLC	REG PARAM	SELECT PARAM
SERVICE MENU	SOC	SOC BSMC ID	SYSID

FDCCH:

FBCCH:

NUMber:

FBCCH?
[FDCCH:FBCCH:NUMber:FBCCH?]
Returns the last decoded value of Number of F-BCCH (3 bit value). Returns -1 if already returned or not available.

EBCCH?
[FDCCH:FBCCH:NUMber:EBCCH?]
Returns the last decoded value of Number of E-BCCH (3 bit value). Returns -1 if already returned or not available.

SBCCH?
[FDCCH:FBCCH:NUMber:SBCCH?]
Returns the last decoded value of Number of S-BCCH (4 bit value). Returns -1 if already returned or not available.

REServed?
[FDCCH:FBCCH:NUMber:REServed?]
Returns the last decoded value of Number of Reserved Slots (3 bit value). Returns -1 if already returned or not available.

NON_PCH?
[FDCCH:FBCCH:NUMber:NON_PCH?]
Returns the last decoded value of Number of Non-PCH Subchannel Slots (2 bit value). Returns -1 if already returned or not available.

HYPERframe?
[FDCCH:FBCCH:HYPERframe?]
Returns the last decoded value of Hyperframe Counter (4 bit value). Returns -1 if already returned or not available.

EXTended:

PT?
[FDCCH:FBCCH:EXTended:PT?]
Returns the last decoded value of Extended Hyperframe Counter Parameter Type. Returns -1 if already returned or not available.

COUNt?
[FDCCH:FBCCH:EXTended:COUNt?]
Returns the last decoded value of Extended Hyperframe Counter (4 bit value). Returns -1 if already returned or not available.

SUPERframe?
[FDCCH:FBCCH:SUPERframe?]
Returns the last decoded value of Primary Superframe indicator (1 bit value). Returns -1 if already returned or not available.

FDCCH:

FBCCH:

CONfiguration?
[FDCCH:FBCCH:CONfiguration?]
Returns the last decoded value of Slot Configuration (2 bit value). Returns -1 if already returned or not available.

DVCC?
[FDCCH:FBCCH:DVCC?]
Returns the last decoded value of Digital Verification Color Code (8 bit value). Returns -1 if already returned or not available.

PFC?
[FDCCH:FBCCH:PFC?]
Returns the last decoded value of Maximum Supported PFC (Paging Frame Class) (3 bit value). Returns -1 if already returned or not available.

PCH?
[FDCCH:FBCCH:PCH?]
Returns the last decoded value of PCH (Paging Channel) Displacement (3 bit value). Returns -1 if already returned or not available.

PFM?
[FDCCH:FBCCH:PFM?]
Returns the last decoded value of PFM (Paging Frame Modifier) Direction (1 bit value). Returns -1 if already returned or not available.

CBN:

PT?
[FDCCH:FBCCH:CBN:PT?]
Returns the last decoded value of CBN_High Parameter Type (4 bit value). Returns -1 if already returned or not available.

HIGH?
[FDCCH:FBCCH:CBN:HIGH?]
Returns the last decoded value of CBN_High (16 bit value). Returns -1 if already returned or not available.

FDCCH:

FBCCH:

NONPublic:

PROBability:

PT?
[FDCCH:FBCCH:NONPublic:PROBability:PT?]
Returns the last decoded value of Non-Public Probability Block Parameter Type (4 bit value). Returns -1 if already returned or not available.

LENGth?
[FDCCH:FBCCH:NONPublic:PROBability:LENGth?]
Returns the last decoded value of Non-Public Map Length (4 bit value). Returns -1 if already returned or not available.

BLOCk?
[FDCCH:FBCCH:NONPublic:PROBability:BLOCk?]
Returns the last decoded value of Non-Public Block Map (1 to 16 bit value). Returns -1 if already returned or not available.

REGistration:

PT?
[FDCCH:FBCCH:NONPublic:REGistration:PT?]
Returns the last decoded value of Non-Public Registration Control Parameter Type (4 bit value). Returns -1 if already returned or not available.

CONTrol?
[FDCCH:FBCCH:NONPublic:REGistration:CONTrol?]
Returns the last decoded value of Non-Public Registration Control (2 bit value). Returns -1 if already returned or not available.

AUTH?
[FDCCH:FBCCH:AUTH?]
Returns the last decoded value of AUTH (1 bit value). Returns -1 if already returned or not available.

S?
[FDCCH:FBCCH:S?]
Returns the last decoded value of S (1 bit value). Returns -1 if already returned or not available.

RAND?
[FDCCH:FBCCH:RAND?]
Returns the last decoded value of RAND (32 bit value). Returns -1 if already returned or not available.

FDCCH:

FBCCH:

ACCess:

BURSTsize?
[FDCCH:FBCCH:ACCess:BURSTsize?]
Returns the last decoded value of Access Burst Size (1 bit value). Returns -1 if already returned or not available.

MS_PWR?
[FDCCH:FBCCH:ACCess:MS_PWR?]
Returns the last decoded value of MS_ACC_PWR (Mobile Station Access Power) (4 bit value). Returns -1 if already returned or not available.

RSS_MIN?
[FDCCH:FBCCH:ACCess:RSS_MIN?]
Returns the last decoded value of RSS_ACC_MIN (Minimum Access Received Signal Strength) (5 bit value). Returns -1 if already returned or not available.

MAX:

RETries?
[FDCCH:FBCCH:MAX:RETries?]
Returns the last decoded value of Max Retries (3 bit value). Returns -1 if already returned or not available.

BUSY?
[FDCCH:FBCCH:MAX:BUSY?]
Returns the last decoded value of Max Busy/Reserved (1 bit value). Returns -1 if already returned or not available.

REPetitions?
[FDCCH:FBCCH:MAX:REPetitions?]
Returns the last decoded value of Max Repetitions (2 bit value). Returns -1 if already returned or not available.

STOP?
[FDCCH:FBCCH:MAX:STOP?]
Returns the last decoded value of Max Stop Counter (1 bit value). Returns -1 if already returned or not available.

RDATA:LENGth?
[FDCCH:FBCCH:RDATA:LENGth?]
Returns the last decoded value of R-DATA Message Length (3 bit value). Returns -1 if already returned or not available.

BARred?
[FDCCH:FBCCH:BARred?]
Returns the last decoded value of Cell Barred (5 bit value). Returns -1 if already returned or not available.

FDCCH:

FBCCH:

SUBaddressing?
[FDCCH:FBCCH:SUBaddressing?]
Returns the last decoded value of Subaddressing Support (1 bit value). Returns -1 if already returned or not available.

DIC?
[FDCCH:FBCCH:DIC?]
Returns the last decoded value of Delay Interval Compensation Mode (1 bit value). Returns -1 if already returned or not available.

SS_SUFF?
[FDCCH:FBCCH:SS_SUFF?]
Returns the last decoded value of SS_SUFF (Signal Strength Sufficient) (5 bit value). Returns -1 if already returned or not available.

SCAN:

INTerval?
[FDCCH:FBCCH:SCAN:INTerval?]
Returns the last decoded value of SCANINTERVAL (4 bit value). Returns -1 if already returned or not available.

OPTion?
[FDCCH:FBCCH:SCAN:OPTion?]
Returns the last decoded value of Scanning Option Indicator (1 bit value). Returns -1 if already returned or not available.

INITial?
[FDCCH:FBCCH:INITial?]
Returns the last decoded value of Initial Selection Control (1 bit value). Returns -1 if already returned or not available.

DELay?
[FDCCH:FBCCH:DELay?]
Returns the last decoded value of DELAY (4 bit value). Returns -1 if already returned or not available.

ADDitional:

PT?
[FDCCH:FBCCH:ADDitional:PT?]
Returns the last decoded value of Additional DCCH Information Parameter Type (4 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:FBCCH:ADDitional:NUMBer?]
Returns the last decoded value of Number of Additional DCCH Channels (3 bit value). Returns -1 if already returned or not available.

FDCCH:

FBCCH:

ADDitional:

CHANnel? *n*
[FDCCH:FBCCH:ADDitional:CHANnel? n]
Returns the last decoded value of Additional DCCH Channel Information (11 bit value) selected by *n*. Up to 8 instances can be returned. Range of *n* is 0 to 7. Returns -1 if already returned or not available.

SLOT? *n*
[FDCCH:FBCCH:ADDitional:SLOT? n]
Returns the last decoded value of Additional Slot Information (2 bit value) selected by *n*. Up to 8 instances can be returned. Range of *n* is 0 to 7. Returns -1 if already returned or not available.

REGH?
[FDCCH:FBCCH:REGH?]
Returns the last decoded value of REGH (1 bit value). Returns -1 if already returned or not available.

REGR?
[FDCCH:FBCCH:REGR?]
Returns the last decoded value of REGR (1 bit value). Returns -1 if already returned or not available.

PUREG?
[FDCCH:FBCCH:PUREG?]
Returns the last decoded value of PUREG (1 bit value). Returns -1 if already returned or not available.

PDREG?
[FDCCH:FBCCH:PDREG?]
Returns the last decoded value of PDREG (1 bit value). Returns -1 if already returned or not available.

SYREG?
[FDCCH:FBCCH:SYREG?]
Returns the last decoded value of SYREG (1 bit value). Returns -1 if already returned or not available.

LAREG?
[FDCCH:FBCCH:LAREG?]
Returns the last decoded value of LAREG (1 bit value). Returns -1 if already returned or not available.

DEREG?
[FDCCH:FBCCH:DEREG?]
Returns the last decoded value of DEREG (1 bit value). Returns -1 if already returned or not available.

FDCCH:

FBCCH:

FOREG?
[FDCCH:FBCCH:FOREG?]
Returns the last decoded value of FOREG (1 bit value). Returns -1 if already returned or not available.

CAPability?
[FDCCH:FBCCH:CAPability?]
Returns the last decoded value of Capability Request (1 bit value). Returns -1 if already returned or not available.

RNUM:

PT?
[FDCCH:FBCCH:RNUM:PT?]
Returns the last decoded value of Present RNUM Parameter Type (4 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:FBCCH:RNUM:NUMBer?]
Returns the last decoded value of Present RNUM (10 bit value). Returns -1 if already returned or not available.

REGistration:

PT?
[FDCCH:FBCCH:REGistration:PT?]
Returns the last decoded value of Registration Period Parameter Type (4 bit value). Returns -1 if already returned or not available.

PERiod?
[FDCCH:FBCCH:REGistration:PERiod?]
Returns the last decoded value of REGPER (Registration Period) (9 bit value). Returns -1 if already returned or not available.

REGID:

PT?
[FDCCH:FBCCH:REGID:PT?]
Returns the last decoded value of REGID Parameter Type (4 bit value). Returns -1 if already returned or not available.

ID?
[FDCCH:FBCCH:REGID:ID?]
Returns the last decoded value of REGID (20 bit value). Returns -1 if already returned or not available.

PER?
[FDCCH:FBCCH:REGID:PER?]
Returns the last decoded value of REGID_PER (Registration ID Period) (4 bit value). Returns -1 if already returned or not available.

FDCCH:

FBCCH:

SID?
[FDCCH:FBCCH:SID?]
Returns the last decoded value of SID (System Identification) (15 bit value). Returns -1 if already returned or not available.

NETwork?
[FDCCH:FBCCH:NETwork?]
Returns the last decoded value of Network Type (3 bit value). Returns -1 if already returned or not available.

PROTocol?
[FDCCH:FBCCH:PROTocol?]
Returns the last decoded value of Protocol Version (4 bit value). Returns -1 if already returned or not available.

PSID_RSID:

PT?
[FDCCH:FBCCH:PSID_RSID:PT?]
Returns the last decoded value of PSID/RSID Set Parameter Type (4 bit value). Returns -1 if already returned or not available.

SOC?
[FDCCH:FBCCH:PSID_RSID:SOC?]
Returns the last decoded value of PSID/RSID SOC (12 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:FBCCH:PSID_RSID:NUMBer?]
Returns the last decoded value of Number of PSID/RSID (4 bit value). Returns -1 if already returned or not available.

TYPE? *n*
[FDCCH:FBCCH:PSID_RSID:TYPE? n]
Returns the last decoded state of TYPE (1 bit value) of PSID/RSID. Range of *n* is 0 to 15.

VALUE? *n*
[FDCCH:FBCCH:PSID_RSID:VALUE? n]
Returns the last decoded value of VALUE (16 bit value) of PSID/RSID. Range of *n* is 0 to 15.

FDCCH:

FBCCH:

MCC:

PT?
[FDCCH:FBCCH:MCC:PT?]
Returns the last decoded value of Mobile Country Code Parameter Type (4 bit value). Returns -1 if already returned or not available.

CODE?
[FDCCH:FBCCH:MCC:CODE?]
Returns the last decoded value of Mobile Country Code (10 bit value). Returns -1 if already returned or not available.

ALPHA:SID:

PT?
[FDCCH:FBCCH:ALPHA:SID:PT?]
Returns the last decoded value of Alphanumeric SID Parameter Type (4 bit value). Returns -1 if already returned or not available.

LENGth?
[FDCCH:FBCCH:ALPHA:SID:LENGth?]
Returns the last decoded value of Length of Alphanumeric System ID (8 bit value). Returns -1 if already returned or not available.

CHARacters?
[FDCCH:FBCCH:ALPHA:SID:CHARacters?]
Returns the selected last decoded value of Alphanumeric SID (ASCII String). Returns -1 if already returned or not available.

BSMC?
[FDCCH:FBCCH:BSMC?]
Returns the last decoded value of BSMC (Base Station Manufacture Code) (8 bit value). Returns -1 if already returned or not available.

CUSTOM:

LENGth?
[FDCCH:FBCCH:CUSTOM:LENGth?]
Returns the last decoded value of the Length of the Custom Control (8 bit value) in octets. Returns or -1 if already returned or not available.

CONTrol? *n*
[FDCCH:FBCCH:CUSTOM:CONTrol? n]
Returns the last decoded value of Custom Control (8 bit value) selected by *n*. Up to 256 instances can be returned. Range of *n* is 0 to 255,

Validity is determined by **FDCCH:FBCCH:CUSTOM:LENGth?.**

FDCCH:

FBCCH:

MACA:

STATus?
[FDCCH:FBCCH:MACA:STATus?]
Returns the last decoded value of MACA_STATUS (2 bit value). Returns -1 if already returned or not available.

TYPE?
[FDCCH:FBCCH:MACA:TYPE?]
Returns the last decoded value of MACA_TYPE (4 bit value). Returns -1 if already returned or not available.

EIGHT:

PT?
[FDCCH:FBCCH:MACA:EIGHT:PT?]
Returns the last decoded value of MACA_8_CONTROL Parameter Type (4 bit value). Returns -1 if already returned or not available.

CONTrol?
[FDCCH:FBCCH:MACA:EIGHT:CONTrol?]
Returns the last decoded value of MACA_8_CONTROL (1 bit value). Returns -1 if already returned or not available.

LIST:

PT?
[FDCCH:FBCCH:MACA:LIST:PT?]
Returns the last decoded value of MACA_LIST Parameter Type (4 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:FBCCH:MACA:LIST:NUMBer?]
Returns the last decoded value of Number of MACA Channels (4 bit value). Returns -1 if already returned or not available.

CHAN? *n*
[FDCCH:FBCCH:MACA:LIST:CHAN? n]
Returns the last decoded value of MACA_LIST CHAN (11 bit value) selected by *n*. Up to 16 instances can be returned. Range of *n* is 0 to 15.

Validity is determined by **FDCCH:FBCCH:MACA:LIST:NUMBer?**.

FDCCH:

FBCCH:

MACA:

LIST:

OTHER:

PT?
[FDCCH:FBCCH:MACA:LIST:OTHER:PT?]
Returns the last decoded value of MACA_LIST (Other Hyperband) Parameter Type (4 bit value). Returns -1 if already returned or not available.

HYPERband?
[FDCCH:FBCCH:MACA:LIST:OTHER:HYPERband?]
Returns the last decoded value of Hyperband (Other Hyperband) (2 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:FBCCH:MACA:LIST:OTHER:NUMBer?]
Returns the last decoded value of Number of MACA Channels (Other Hyperband) (4 bit value). Returns -1 if already returned or not available.

CHAN? *n*
[FDCCH:FBCCH:MACA:LIST:OTHER:CHAN? n]
Returns the selected last decoded value of MACA_LIST (Other Hyperband) CHAN (11 bit value) selected by *n*. Up to 16 instances can be returned. Range of *n* is 0 to 15.

Validity is determined by **FDCCH:FBCCH:MACA:LIST:OTHER:NUMBer?**.

OLC?
[FDCCH:FBCCH:OLC?]
Returns the last decoded value of Overload Control (16 bit value). Returns -1 if already returned or not available.

MAP:

AUTH?
[FDCCH:FBCCH:MAP:AUTH?]
Returns the last decoded value of AUTH Map (6 bit value). Returns -1 if already returned or not available.

VPM?
[FDCCH:FBCCH:MAP:VPM?]
Returns the last decoded value of Voice Privacy Mode Map (4 bit value). Returns -1 if already returned or not available.

FDCCH:

FBCCH:

MAP:

DPM?
[FDCCH:FBCCH:MAP:DPM?]
Returns the last decoded value of Data Privacy Mode Map (4 bit value). Returns -1 if already returned or not available.

CODER?
[FDCCH:FBCCH:MAP:CODER?]
Returns the last decoded value of Voice Coder Map (6 bit value). Returns -1 if already returned or not available.

MEA:

DOMAIN?
[FDCCH:FBCCH:MAP:MEA:DOMAIN?]
Returns the last decoded value of Message Encryption Algorithm Domain Map (8 bit value). Returns -1 if already returned or not available.

ALGORithms? *n*
[FDCCH:FBCCH:MAP:MEA:ALGORithms? n]
Returns the selected last decoded value of Message Encryption Algorithm (4 bit value) selected by *n*. Up to 8 instances can be returned. Range of *n* is 0 to 7.

Validity is determined by **FDCCH:FBCCH:MAP:MEA:DOMAIN?**.

MEK?
[FDCCH:FBCCH:MAP:MEK?]
Returns the last decoded value of Message Encryption Key Map (4 bit value). Returns -1 if already returned or not available.

MENU?
[FDCCH:FBCCH:MAP:MENU?]
Returns the last decoded value of Menu Map (10 bit value). Returns -1 if already returned or not available.

ARQ?
[FDCCH:FBCCH:MAP:ARQ?]
Returns the last decoded value of FACCH/SACCH ARQ Map (1 bit value). Returns -1 if already returned or not available.

USER?
[FDCCH:FBCCH:MAP:USER?]
Returns the last decoded value of User Group Map (1 bit value). Returns -1 if already returned or not available.

FDCCH:

FBCCH:

MAP:

SMS?
[FDCCH:FBCCH:MAP:SMS?]
Returns the last decoded value of SMS Map (2 bit value). Returns -1 if already returned or not available.

REG_INFO?
[FDCCH:FBCCH:MAP:REG_INFO?]
Return the last decoded value of Reg-Info Map (4 bit value). Returns -1 if already returned or not available.

IRA?
[FDCCH:FBCCH:IRA?]
Returns the last decoded state of IRA Support (1 bit value). Returns -1 if already returned or not available.

OATS?
[FDCCH:FBCCH:OATS?]
Returns the last decoded state of OATS Support (1 bit value). Returns -1 if already returned or not available.

SOC?
[FDCCH:FBCCH:SOC?]
Returns the last decoded value of SOC (System Operator Code) (12 bit value). Returns -1 if already returned or not available.

ALT_SOC:

NUMBer? -or- NUM?
[FDCCH:FBCCH:ALT_SOC:NUMBer?]
Returns the last decoded value of Number of Alternate SOCs (4 bit value). Returns -1 if already returned or not available.

SOC? *n*
[FDCCH:FBCCH:ALT_SOC:SOC? n]
Returns the last decoded value of SOC (12 bit value) indexed by *n*. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

MAP:PSID_RSID? *n*
[FDCCH:FBCCH:ALT_SOC:MAP:PSID_RSID? n]
Returns the last decoded value of the SOC PSID/RSID Map (16 bit value) indexed by *n*. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

C. E-BCCH Frames

The following set of commands return the data fields in E-BCCH Messages.

FDCCH:

EBCCH:

BC?
[FDCCH:EBCCH:BC?]
Returns the last decoded value of Begin/Continue (1 bit value). Returns -1 if already returned or not available.

CLI?
[FDCCH:EBCCH:CLI?]
Returns the last decoded value of Continuation Length Indicator (7 bit value). Returns -1 if already returned or not available.

L3LI?
[FDCCH:EBCCH:L3LI?]
Returns the last decoded value of Layer 3 Length Indicator (8 bit value). Returns -1 if already returned or not available.

BI?
[FDCCH:EBCCH:BI?]
Returns the last decoded value of Begin Indicator (1 bit value). Returns -1 if already returned or not available.

ECL?
[FDCCH:EBCCH:ECL?]
Returns the last decoded value of E-BCCH Cycle Length (8 bit value). Returns -1 if already returned or not available.

PD?
[FDCCH:EBCCH:PD?]
Returns the last decoded value of Protocol Discriminator (2 bit value). Returns -1 if already returned or not available.

MSGtype?
[FDCCH:EBCCH:MSGtype?]
Returns the last decoded value of Message Type. Returns -1 if already returned or not available. This command returns the following valid message types:

ALT RCI	BSMC	EMERG INFO	MACA
N CELL (MULTI)	N INFO (MULTI)	NEIGHBOR CELL	NEIGHBOR INFO
RCI	SERVICE MENU	SOC	SOC BSMC ID
TIME DATE			

SERV_SS?
[FDCCH:EBCCH:SERV_SS?]
Returns the last decoded value of SERV_SS (4 bit value). Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NONPublic:PROBability:

PT?
[FDCCH:EBCCH:NONPublic:PROBability:PT?]
Returns the last decoded value of Non-Public Probability Block Parameter Type (4 bit value). Returns -1 if already returned or not available.

LENGth?
[FDCCH:EBCCH:NONPublic:PROBability:LENGth?]
Returns the last decoded value of Non-Public Probability Block Length (4 bit value). Returns -1 if already returned or not available.

BLOCk?
[FDCCH:EBCCH:NONPublic:PROBability:BLOCk?]
Returns the last decoded value of Non-Public Probability Block (16 bit value). Returns -1 if already returned or not available.

NEIGHbor:

TDMA:

TDMA Neighbor Cells.

PT?
[FDCCH:EBCCH:NEIGHbor:TDMA:PT?]
Returns the last decoded value of Neighbor Cell List (TDMA) Parameter Type (4 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:EBCCH:NEIGHbor:TDMA:NUMBer?]
Returns the last decoded value of Number of TDMA Neighbor Cells (5 bit value). Returns -1 if already returned or not available.

CELL:

CHAN? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:CHAN? n]
Returns the last decoded value of TDMA Neighbor Cell CHAN (11 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

PROTocol? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:PROTocol? n]
Returns the last decoded value of TDMA Neighbor Cell Protocol Version (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

TDMA:

CELL:

DVCC? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:DVCC? n]
Returns the last decoded value of TDMA Neighbor Cell DVCC (8 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

OFFset? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:OFFset? n]
Returns the last decoded value of TDMA Neighbor Cell RESEL_OFFSET (7 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SS_SUFF? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:SS_SUFF? n]
Returns the last decoded value of TDMA Neighbor Cell SS_SUFF (5 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

DELay? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:DELay? n]
Returns the last decoded value of TDMA Neighbor Cell DELAY (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

HL_FREQ? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:HL_FREQ? n]
Returns the last decoded value of TDMA Neighbor Cell HL_FREQ (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SYNC? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:SYNC? n]
Returns the last decoded value of TDMA Neighbor Cell SYNC (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

TDMA:

CELL:

TYPE:

CELL? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:TYPE:CELL? n]
Returns the last decoded value of TDMA Neighbor Cell CELLTYPE (2 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

NETwork? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:TYPE:NETwork? n]
Returns the last decoded value of TDMA Neighbor Cell Network Type (3 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

RETRY? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:RETRY? n]
Returns the last decoded value of TDMA Neighbor Cell Directed Retry Channel (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

ACCess:

MS_PWR? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:ACCess:MS_PWR? n]
Returns the last decoded value of TDMA Neighbor Cell MS_ACC_PWR (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

RSS_MIN? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:ACCess:RSS_MIN? n]
Returns the last decoded value of TDMA Neighbor Cell RSS_ACC_MIN (5 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

TDMA:

CELL:

PSID_RSID:

INDicator? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:INDicator? n]
Returns the last decoded value of TDMA Neighbor Cell PSID/RSID Indicator (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

LENGth? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:LENGth? n]
Returns the last decoded value of TDMA Neighbor Cell PSID/RSID Support Length (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SUPport? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:SUPport? n]
Returns the last decoded value of TDMA Neighbor Cell PSID/RSID Support (16 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

ANAlog:

Analog Neighbor Cells.

PT?
[FDCCH:EBCCH:NEIGHbor:ANAlog:PT?]
Returns the last decoded value of Neighbor Cell List (Analog) Parameter Type (4 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:EBCCH:NEIGHbor:ANAlog:NUMBer?]
Returns the last decoded value of Number of Analog Neighbor Cells (5 bit value - 0 to 23). Returns -1 if already returned or not available.

CELL:

CHAN? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:CHAN? n]
Returns the last decoded value of Neighbor Cell List (Analog) CHAN (11 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

PROTocol? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:PROTocol? n]
Returns the last decoded value of Neighbor Cell List (Analog) Protocol Version (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

ANAlog:

CELL:

DCC? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:DCC? n]
Returns the last decoded value of Neighbor Cell List (Analog) DCC (2 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

OFFset? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:OFFset? n]
Returns the last decoded value of Neighbor Cell List (Analog) RESEL_OFFSET (7 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SS_SUFF? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:SS_SUFF? n]
Returns the last decoded value of Neighbor Cell List (Analog) SS_SUFF (5 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

DELay? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:DELay? n]
Returns the last decoded value of Neighbor Cell List (Analog) DELAY (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

HL_FREQ? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:HL_FREQ? n]
Returns the last decoded value of Neighbor Cell List (Analog) HL_FREQ (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

TYPE:

CELL? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:TYPE:CELL? n]
Returns the last decoded value of Neighbor Cell List (Analog) CELLTYPE (2 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

NETwork? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:TYPE:NETwork? n]
Returns the last decoded value of Neighbor Cell List (Analog) Network Type (3 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

ANAlog:

CELL:

RETRY? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:RETRY? n]
Returns the last decoded value of Neighbor Cell List (Analog) Directed Retry Channel (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

ACCess:

MS_PWR? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:ACCess:MS_PWR? n]
Returns the last decoded value of Neighbor Cell List (Analog) MS_ACC_PWR (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

RSS_MIN? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:ACCess:RSS_MIN? n]
Returns the last decoded value of Neighbor Cell List (Analog) RS_ACC_MIN (5 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

TDMA:

INFO:

PT?
[FDCCH:EBCCH:NEIGHbor:TDMA:INFO:PT?]
Returns the last decoded value of TDMA Service Info Parameter Type (4 bit value). Returns -1 if already returned or not available.

COUNt?
[FDCCH:EBCCH:NEIGHbor:TDMA:INFO:COUNt?]
Returns the last decoded value of TDMA Neighbor Count (5 bit value - 0 to 23). Returns -1 if already returned or not available.

SERVice:

INDicator? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:INFO:SERVice:INDicator? n]
Returns the last decoded value of TDMA Service Map Indicator (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

MAP? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:INFO:SERVice:MAP? n]
Returns the last decoded value of TDMA Service Map (10 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

TDMA:

MULti:

TDMA Neighbor Cells (Multi Hyperband).

PT?
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:PT?]
Returns the last decoded value of Neighbor Cell List (TDMA) Parameter Type (4 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:NUMBer?]
Returns the last decoded value of Number of TDMA Neighbor Cells (5 bit value). Returns -1 if already returned or not available.

CHAN? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:CHAN? n]
Returns the last decoded value of TDMA Neighbor Cell CHAN (11 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

PROTocol? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:PROTocol? n]
Returns the last decoded value of TDMA Neighbor Cell Protocol Version (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

TDMA:

MULti:

DVCC? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:DVCC? n]
Returns the last decoded value of TDMA Neighbor Cell DVCC (8 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

OFFset? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:OFFset? n]
Returns the last decoded value of TDMA Neighbor Cell RESEL_OFFSET (7 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SS_SUFF? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:SS_SUFF? n]
Returns the last decoded value of TDMA Neighbor Cell SS_SUFF (5 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

DELay? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:DELay? n]
Returns the last decoded value of TDMA Neighbor Cell DELAY (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

HL_FREQ? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:HL_FREQ? n]
Returns the last decoded value of TDMA Neighbor Cell HL_FREQ (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SYNC? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:SYNC? n]
Returns the last decoded value of TDMA Neighbor Cell SYNC (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

TDMA:

MULti:

TYPE:

CELL? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:TYPE:CELL? n]
Returns the last decoded value of TDMA Neighbor Cell CELLTYPE (2 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

NETwork? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:TYPE:NETwork? n]
Returns the last decoded value of TDMA Neighbor Cell Network Type (3 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

RETRY? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:RETRY? n]
Returns the last decoded value of TDMA Neighbor Cell Directed Retry Channel (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

ACCess:

MS_PWR? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:ACCess:MS_PWR? n]
Returns the last decoded value of TDMA Neighbor Cell MS_ACC_PWR (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

RSS_MIN? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:ACCess:RSS_MIN? n]
Returns the last decoded value of TDMA Neighbor Cell RSS_ACC_MIN (5 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

TDMA:

MULti:

PSID_RSID:

INDicator? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:INDicator? n]
Returns the last decoded value of TDMA Neighbor Cell PSID/RSID Indicator (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

LENGth? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:LENGth? n]
Returns the last decoded value of TDMA Neighbor Cell PSID/RSID Support Length (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SUPport? *n*
[FDCCH:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:SUPport? n]
Returns the last decoded value of TDMA Neighbor Cell PSID/RSID Support (16 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

ANAlog:

Analog Neighbor Cells

MULti:

Multi Hyperband

PT?
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:PT?]
Returns the last decoded value of Neighbor Cell List (Analog) Parameter Type (4 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:NUMBer?]
Returns the last decoded value of Number of Analog Neighbor Cells (5 bit value - 0 to 23). Returns -1 if already returned or not available.

CHAN? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:CHAN? n]
Returns the last decoded value of Neighbor Cell List (Analog) CHAN (11 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

PROTocol? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:PROTocol? n]
Returns the last decoded value of Neighbor Cell List (Analog) Protocol Version (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

ANAlog:

MULti:

DCC? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:DCC? n]
Returns the last decoded value of Neighbor Cell List (Analog) DCC (2 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

OFFset? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:OFFset? n]
Returns the last decoded value of Neighbor Cell List (Analog) RESEL_OFFSET (7 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SS_SUFF? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:SS_SUFF? n]
Returns the last decoded value of Neighbor Cell List (Analog) SS_SUFF (5 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

DELay? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:DELay? n]
Returns the last decoded value of Neighbor Cell List (Analog) DELAY (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

HL_FREQ? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:HL_FREQ? n]
Returns the last decoded value of Neighbor Cell List (Analog) HL_FREQ (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

TYPE:

CELL? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:TYPE:CELL? n]
Returns the last decoded value of Neighbor Cell List (Analog) CELLTYPE (2 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

NETwork? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:TYPE:NETwork? n]
Returns the last decoded value of Neighbor Cell List (Analog) Network Type (3 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

ANAlog:

MULti:

RETRY? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:RETRY? n]
Returns the last decoded value of Neighbor Cell List (Analog) Directed Retry Channel (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

ACCess:

MS_PWR? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:ACCess:MS_PWR? n]
Returns the last decoded value of Neighbor Cell List (Analog) MS_ACC_PWR (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

RSS_MIN? *n*
[FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:ACCess:RSS_MIN? n]
Returns the last decoded value of Neighbor Cell List (Analog) RS_ACC_MIN (5 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

OTHER:

Other Hyperband Neighbor Cells.

PT?
[FDCCH:EBCCH:NEIGHbor:OTHER:PT?]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) Parameter Type (4 bit value). Returns -1 if already returned or not available.

HYPERband?
[FDCCH:EBCCH:NEIGHbor:OTHER:HYPERband?]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) Hyperband (2 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:EBCCH:NEIGHbor:OTHER:NUMBer?]
Returns the last decoded value of Number of Neighbor Cells (Other Hyperband) (5 bit value - 0 to 23). Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

OTHER:

MULti:

Multi Hyperband

CHAN? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:CHAN? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) CHAN (11 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

PROTocol? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:PROTocol? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) Protocol Version (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

DVCC? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:DVCC? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) DVCC (8 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

OFFset? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:OFFset? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) RESEL_OFFSET (7 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SS_SUFF? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:SS_SUFF? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) SS_SUFF (5 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

DELay? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:DELay? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) DELAY (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

OTHER:

MULti:

HL_FREQ? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:HL_FREQ? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) HL_FREQ (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SYNC? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:SYNC? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) SYNC (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

TYPE:

CELL? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:TYPE:CELL? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) CELLTYPE (2 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

NETwork? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:TYPE:NETwork? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) Network Type (3 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

RETRY? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:RETRY? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) Directed Retry Channel (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

FDCCH:

EBCCH:

NEIGHbor:

OTHER:

MULti:

ACCess:

MS_PWR? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:ACCess:MS_PWR? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) MS_ACC_PWR (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

RSS_MIN? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:ACCess:RSS_MIN? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) RSS_ACC_MIN (5 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

PSID_RSID:

INDicator? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:INDicator? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) PSID/RSID Indicator (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

LENGth? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:LENGth? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) PSID/RSID Support Length (4 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

SUPport? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:SUPport? n]
Returns the last decoded value of Neighbor Cell List (Other Hyperband) PSID/RSID Support (16 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:LENGth?**.

FDCCH:

EBCCH:

NEIGHbor:

OTHER:

INFO:

PT?
[FDCCH:EBCCH:NEIGHbor:OTHER:INFO:PT?]
Returns the last decoded value of TDMA Service Info (Other Hyperband) Parameter Type (4 bit value). Returns -1 if already returned or not available.

HYPERband?
[FDCCH:EBCCH:NEIGHbor:OTHER:INFO:HYPERband?]
Returns the last decoded value of TDMA Service Info (Other Hyperband) (2 bit value). Returns -1 if already returned or not available.

COUNt?
[FDCCH:EBCCH:NEIGHbor:OTHER:INFO:COUNt?]
Returns the last decoded value of TDMA Service Info (Other Hyperband) Neighbor Count (5 bit value - 0 to 24). Returns -1 if already returned or not available.

SERVice:

INDicator? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:INFO:SERVice:INDicator? n]
Returns the last decoded value of TDMA Service Info (Other Hyperband) Service Map Indicator (1 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

MAP? *n*
[FDCCH:EBCCH:NEIGHbor:OTHER:INFO:SERVice:MAP? n]
Returns the last decoded value of TDMA Service Info (Other Hyperband) Service Map (10 bit value) selected by *n*. Up to 24 instances can be returned. Range of *n* is 0 to 23. Returns -1 if already returned or not available.

RCI?
[FDCCH:EBCCH:RCI?]
Returns the last decoded value of RCI (2 bit value). Returns -1 if already returned or not available.

FDCCH:

EBCCH:

CHANnel:

PT?
[FDCCH:EBCCH:CHANnel:PT?]
Returns the last decoded value of RF Channel Allocation Parameter Type (4 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:EBCCH:CHANnel:NUMBer?]
Returns the last decoded value of RF Channel Allocation Number of Channel Groups (6 bit value). Returns -1 if already returned or not available.

GROUP:

FIRST? *n*
[FDCCH:EBCCH:CHANnel:GROUP:FIRST? n]
Returns the last decoded value of RF Channel Allocation Channel Group First Channel (11 bit value) selected by *n*. Up to 64 instances can be returned. Range of *n* is 0 to 63. Returns -1 if already returned or not available.

LAST? *n*
[FDCCH:EBCCH:CHANnel:GROUP:LAST? n]
Returns the last decoded value of RF Channel Allocation Channel Group Last Channel (11 bit value) selected by *n*. Up to 64 instances can be returned. Range of *n* is 0 to 63. Returns -1 if already returned or not available.

BSMC?
[FDCCH:EBCCH:BSMC?]
Returns the last decoded value of BSMC (Base Station Manufacture Code) (8 bit value). Returns -1 if already returned or not available.

CUSTOM:

LENGth?
[FDCCH:EBCCH:CUSTOM:LENGth?]
Returns the last decoded value of Length of Custom Control in octets (8 bit value). Returns -1 if already returned or not available.

CONTrol? *n*
[FDCCH:EBCCH:CUSTOM:CONTrol? n]
Returns the last decoded value of Custom Control (8 bit value) selected by *n*. Up to 256 instances can be returned. Range of *n* is 0 to 255. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:EBCCH:CUSTOM:LENGth?**.

FDCCH:

EBCCH:

TEXT:

LENGth?
[FDCCH:EBCCH:TEXT:LENGth?]
Returns the last decoded value of Length of Text Message Data Unit in octets (8 bit value). Returns -1 if already returned or not available.

ENCoding?
[FDCCH:EBCCH:TEXT:ENCoding?]
Returns the last decoded value of Text Message Data Unit Encoding Identifier (5 bit value). Returns -1 if already returned or not available.

REServed?
[FDCCH:EBCCH:TEXT:REServed?]
Returns the last decoded value of Text Message Data Unit Reserved (3 bit value). Returns -1 if already returned or not available.

CHARacter? *n*
[FDCCH:EBCCH:TEXT:CHARacter? n]
Returns the last decoded value of Text Message Data Unit Short Message Character (8 bit value) selected by *n*. Up to 252 instances can be returned. Range of *n* is 0 to 251. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:EBCCH:TEXT:LENGth?**.

SIGnal:

PT?
[FDCCH:EBCCH:SIGnal:PT?]
Returns the last decoded value of Signal Parameter Type (4 bit value). Returns -1 if already returned or not available.

PITCH?
[FDCCH:EBCCH:SIGnal:PITCH?]
Returns the last decoded value of Signal Pitch (2 bit value). Returns -1 if already returned or not available.

CADence?
[FDCCH:EBCCH:SIGnal:CADence?]
Returns the last decoded value of Signal Cadence (6 bit value). Returns -1 if already returned or not available.

DURation?
[FDCCH:EBCCH:SIGnal:DURation?]
Returns the last decoded value of Signal Duration (4 bit value). Returns -1 if already returned or not available.

FDCCH:

EBCCH:

MACA:

STATus?
[FDCCH:EBCCH:MACA:STATus?]
Returns the last decoded value of MACA_STATUS (2 bit value). Returns -1 if already returned or not available.

TYPE?
[FDCCH:EBCCH:MACA:TYPE?]
Returns the last decoded value of MACA_TYPE (4 bit value). Returns -1 if already returned or not available.

EIGHT:

PT?
[FDCCH:EBCCH:MACA:EIGHT:PT?]
Returns the last decoded value of MACA_8_CONTROL Parameter Type (4 bit value). Returns -1 if already returned or not available.

CONTrol?
[FDCCH:EBCCH:MACA:EIGHT:CONTrol?]
Returns the last decoded value of MACA_8_CONTROL (1 bit value). Returns -1 if already returned or not available.

LIST:

PT?
[FDCCH:EBCCH:MACA:LIST:PT?]
Returns the last decoded value of MACA_LIST Parameter Type (4 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:EBCCH:MACA:LIST:NUMBer?]
Returns the last decoded value of Number of MACA Channels (4 bit value). Returns -1 if already returned or not available.

CHAN? *n*
[FDCCH:EBCCH:MACA:LIST:CHAN? n]
Returns the last decoded value of MACA_LIST CHAN (11 bit value) selected by *n*. Up to 16 instances can be returned. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:EBCCH:MACA:LIST:NUMBer?**.

FDCCH:

EBCCH:

MACA:

LIST:

OTHER:

PT?
[FDCCH:EBCCH:MACA:LIST:OTHER:PT?]
Returns the last decoded value of MACA_LIST (Other Hyperband) Parameter Type (4 bit value). Returns -1 if already returned or not available.

HYPERband?
[FDCCH:EBCCH:MACA:LIST:OTHER:HYPERband?]
Returns the last decoded value of Hyperband (2 bit value). Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:EBCCH:MACA:LIST:OTHER:NUMBer?]
Returns the last decoded value of Number of MACA Channels (4 bit value). Returns -1 if already returned or not available.

CHAN? *n*
[FDCCH:EBCCH:MACA:LIST:OTHER:CHAN? n]
Returns the last decoded value of MACA_LIST (Other Hyperband) CHAN (11 bit value) selected by *n*. Up to 16 instances can be returned. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:EBCCH:MACA:OTHER:NUMBer?**.

MAP:

VPM?
[FDCCH:EBCCH:MAP:VPM?]
Returns the last decoded value of Voice Privacy Mode Map (4 bit value). Returns -1 if already returned or not available.

DPM?
[FDCCH:EBCCH:MAP:DPM?]
Returns the last decoded value of Data Privacy Mode Map (4 bit value). Returns -1 if already returned or not available.

CODER?
[FDCCH:EBCCH:MAP:CODER?]
Returns the last decoded value of Voice Coder Map (6 bit value). Returns -1 if already returned or not available.

FDCCH:

EBCCH:

MAP:

MEA:

DOMAIN?
[FDCCH:EBCCH:MAP:MEA:DOMAIN?]
Returns the last decoded value of Message Encryption Algorithm Domain Map (8 bit value). Returns -1 if already returned or not available.

ALGORithms? *n*
[FDCCH:EBCCH:MAP:MEA:ALGORithms? n]
Returns the last decoded value of Message Encryption Algorithm (4 bit value) selected by *n*. Up to 8 instances can be returned. Range of *n* is 0 to 7. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:EBCCH:MAP:MEA:DOMAIN?**.

MEK?
[FDCCH:EBCCH:MAP:MEK?]
Returns the last decoded value of Message Encryption Key Map (4 bit value). Returns -1 if already returned or not available.

MENU?
[FDCCH:EBCCH:MAP:MENU?]
Returns the last decoded value of Menu Map (10 bit value). Returns -1 if already returned or not available.

ARQ?
[FDCCH:EBCCH:MAP:ARQ?]
Returns the last decoded value of FACCH/SACCH ARQ Map (1 bit value). Returns -1 if already returned or not available.

USER?
[FDCCH:EBCCH:MAP:USER?]
Returns the last decoded value of User Group Map (1 bit value). Returns -1 if already returned or not available.

SMS?
[FDCCH:EBCCH:MAP:SMS?]
Returns the last decoded value of SMS Map (2 bit value). Returns -1 if already returned or not available.

IRA?
[FDCCH:EBCCH:IRA?]
Returns the last decoded state of IRA Support (1 bit value). Returns -1 if already returned or not available.

OATS?
[FDCCH:EBCCH:OATS?]
Returns the last decoded state of OATS Support (1 bit value). Returns -1 if already returned or not available.

FDCCH:

EBCCH:

SOC?
[FDCCH:EBCCH:SOC?]
Returns the last decoded value of SOC (System Operator Code) (12 bit value). Returns -1 if already returned or not available.

ALT_SOC:

NUMBer? -or- NUM?
[FDCCH:EBCCH:ALT_SOC:NUMBer?]
Returns the last decoded value of Number of Alternate SOCs (4 bit value). Returns -1 if already returned or not available.

SOC? *n*
[FDCCH:EBCCH:ALT_SOC:SOC? n]
Returns the last decoded value of SOC (12 bit value) indexed by *n*. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

MAP:PSID_RSID? *n*
[FDCCH:EBCCH:ALT_SOC:MAP:PSID_RSID? n]
Returns the last decoded value of the SOC PSID/RSID Map (16 bit value) indexed by *n*. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

TIME?
[FDCCH:EBCCH:TIME?]
Returns the last decoded value of Time from Jan 1, 1980 (32 bit value). Returns -1 if already returned or not available.

ZONE:

DIRection?
[FDCCH:EBCCH:ZONE:DIRection?]
Returns the last decoded value of Time Zone Offset Direction (1 bit value). Returns -1 if already returned or not available.

MINutes?
[FDCCH:EBCCH:ZONE:MINutes?]
Returns the last decoded value of Time Zone Offset Minutes (10 bit value). Returns -1 if already returned or not available.

DST?
[FDCCH:EBCCH:ZONE:DST?]
Returns the last decoded value of Time Zone Offset Daylight Savings Indicator (1 bit value). Returns -1 if already returned or not available.

FDCCH:

EBCCH:

SID?
[FDCCH:EBCCH:SID?]
Returns the last decoded value of System Identification (15 bit value). Returns -1 if already returned or not available.

CHAN?
[FDCCH:EBCCH:CHAN?]
Returns the last decoded value of CHAN (11 bit value). Returns -1 if already returned or not available.

MCC:

CODE?
[FDCCH:EBCCH:MCC:CODE?]
Returns the last decoded value of Mobile Country Code (10 bit value). Returns -1 if already returned or not available.

PT?
[FDCCH:EBCCH:MCC:PT?]
Returns the last decoded value of Mobile Country Code Parameter Type (4 bit value). Returns -1 if already returned or not available.

HYPERband:

INFO?
[FDCCH:EBCCH:HYPERband:INFO?]
Returns the last decoded value of Hyperband Info (2 bit value). Returns -1 if already returned or not available.

PT?
[FDCCH:EBCCH:HYPERband:PT?]
Returns the last decoded value of Hyperband Info Parameter Type (4 bit value). Returns -1 if already returned or not available.

D. SPACH Frames

The next set of commands return data from SPACH frames.

FDCCH:

SPACH:

BU?
[FDCCH:SPACH:BU?]
Returns the last decoded value of Burst Usage (3 bit value). Returns -1 if already returned or not available.

PCON?
[FDCCH:SPACH:PCON?]
Returns the last decoded value of PCH Continuation (1 bit value). Returns -1 if already returned or not available.

BCN?
[FDCCH:SPACH:BCN?]
Returns the last decoded value of BCCH Change Notification (1 bit value). Returns -1 if already returned or not available.

PFM?
[FDCCH:SPACH:PFM?]
Returns the last decoded value of Paging Frame Modifier (1 bit value). Returns -1 if already returned or not available.

BT?
[FDCCH:SPACH:BT?]
Returns the last decoded value of Burst Type (3 bit value). Returns -1 if already returned or not available.

IDT?
[FDCCH:SPACH:IDT?]
Returns the last decoded value of Identity Type (2 bit value). Returns -1 if already returned or not available.

MSID:

PT?
[FDCCH:SPACH:MSID:PT?]
Returns the last decoded value of MSID Assignment Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

IDT?
[FDCCH:SPACH:MSID:IDT?]
Returns the last decoded value of MSID Assignment IDT (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ASSIGNment?
[FDCCH:SPACH:MSID:ASSIGNment?]
Returns the last decoded value of MSID Assignment (24 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

MSID:

MS? *n*
[FDCCH:SPACH:MSID:MS? n]
Returns the 18 Most Significant bits of MSID (Mobile Station Identification) selected by *n*. Range of *n* is 0 to 4.

LS? *n*
[FDCCH:SPACH:MSID:LS? n]
Returns the 32 Least Significant bits of MSID (Mobile Station Identification) selected by *n*. Range of *n* is 0 to 4.

MIN? *n*
[FDCCH:SPACH:MSID:MIN? n]
Returns the last decoded value of MIN (ASCII String) selected by *n*. Up to four instances can be returned. Range of *n* is 0 to 3. Returns -1 if already returned or not available.

If IDT indicates a 34 bit MSID then the value is also stored as a Mobile Identification Number.

MM?
[FDCCH:SPACH:MM?]
Returns the last decoded value of Message Mapping (1 bit value). Returns -1 if already returned or not available.

PEA?
[FDCCH:SPACH:PEA?]
Returns the last decoded value of Partial Echo Assigned (7 bit value). Returns -1 if already returned or not available.

PI?
[FDCCH:SPACH:PI?]
Returns the last decoded value of Polling Indicator (1 bit value). Returns -1 if already returned or not available.

SRM?
[FDCCH:SPACH:SRM?]
Returns the last decoded value of SPACH Response Mode (1 bit value). Returns -1 if already returned or not available.

UGID:

MS?
[FDCCH:SPACH:UGID:MS?]
Returns the 18 Most Significant bits of UGID (Mobile Station Identification).

LS?
[FDCCH:SPACH:UGID:LS?]
Returns 32 Least Significant bits of UGID (Mobile Station Identification).

FDCCH:

SPACH:

UGID:

MIN?
[FDCCH:SPACH:UGID:MIN?]
Returns the last decoded value of MIN (ASCII String). Returns -1 if already returned or not available.

If IDT indicates a 34 bit MSID, the value is also stored as a Mobile Identification Number.

EHI?
[FDCCH:SPACH:EHI?]
Returns the last decoded value of Extended Header Information (1 bit value). Returns -1 if already returned or not available.

MEA?
[FDCCH:SPACH:MEA?]
Returns the last decoded value of Message Encryption Algorithm (2 bit value). Returns -1 if already returned or not available.

MEK?
[FDCCH:SPACH:MEK?]
Returns the last decoded value of Message Encryption Key (2 bit value). Returns -1 if already returned or not available.

ARM?
[FDCCH:SPACH:ARM?]
Returns the last decoded value of ARQ Response Mode (1 bit value). Returns -1 if already returned or not available.

FRNO?
[FDCCH:SPACH:FRNO?]
Returns the last decoded value of Frame Number (5 bit value). Returns -1 if already returned or not available.

GA?
[FDCCH:SPACH:GA?]
Returns the last decoded value of Go Away (1 bit value). Returns -1 if already returned or not available.

SFP?
[FDCCH:SPACH:SFP?]
Returns the last decoded value of Superframe Phase (5 bit value). Returns -1 if already returned or not available.

L3LI?
[FDCCH:SPACH:L3LI?]
Returns the last decoded value of Layer 3 Length Indicator (8 bit value). Returns -1 if already returned or not available.

FDCCH:

SPACH:

L3DATA:

SELect *n*
[FDCCH:SPACH:L3DATA:SELect n]
Returns the last decoded value of MIN (ASCII String) selected by *n*. (There may be up to four L3DATA messages in a SPACH message.) Range of *n* is 0 to 3. Returns -1 if already returned or not available.

SELect?
[FDCCH:SPACH:L3DATA:SELect?]
Returns the number of the selected L3DATA Message (2 bit value).

MSGtype?
[FDCCH:SPACH:MSGtype?]
Returns the last decoded value of Message Type from the selected L3DATA Message. Returns -1 if already returned or not available. This command returns the following message types:

ANALOG	AUDIT	BSCHALCON
BSMC	CAPABILITY	DIGITAL
DRETRY	INVALID	MSGWTG
PAGE	PU	Q DISC ACK
Q UPDATE	R-DATA	R-DATA ACCEPT
R-DATA REJECT	REG ACCEPT	REG REJECT
RELEASE	REORDER/INTER	SOC
SPACH NOTIF	SSDUP	TEST REG
UCHAL	USER ALERT	

INVALID is returned if an illegal message code was decoded.

PD?
[FDCCH:SPACH:PD?]
Returns the last decoded value of Protocol Discriminator (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

MEM?
[FDCCH:SPACH:MEM?]
Returns the last decoded value of Message Encryption Mode (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

SCC?
[FDCCH:SPACH:SCC?]
Returns the last decoded value of SAT Color Code (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

VMAC?
[FDCCH:SPACH:VMAC?]
Returns the last decoded value of Voice Mobile Attenuation Code (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

CHAN?
[FDCCH:SPACH:CHAN?]
Returns the last decoded value of CHAN (11 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

PROTocol?
[FDCCH:SPACH:PROTocol?]
Returns the last decoded value of Protocol Version (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

SUBaddress:

PT?
[FDCCH:SPACH:SUBaddress:PT?]
Returns the last decoded value of Subaddress Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:SUBaddress:LENGth?]
Returns the last decoded value of Length of Subaddress Info content (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ODD_EVEN?
[FDCCH:SPACH:SUBaddress:ODD_EVEN?]
Returns the last decoded value of Subaddress Odd/Even indicator (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:SUBaddress:TYPE?]
Returns the last decoded value of Type of Subaddress (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

REServed?
[FDCCH:SPACH:SUBaddress:REServed?]
Returns the last decoded value of the combination of the two Subaddress Reserved fields (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess? *n*
[FDCCH:SPACH:SUBaddress:ADDRess? n]
Returns the last decoded value of Subaddress (8 bit value) selected by *n* from the selected L3DATA Message. Up to 20 instances can be returned. Range of *n* is 0 to 19. Returns -1 if already returned or not available.

FDCCH:

SPACH:

DTX:

PT?
[FDCCH:SPACH:DTX:PT?]
Returns the last decoded value of DTX Support Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

SUPport?
[FDCCH:SPACH:DTX:SUPport?]
Returns the last decoded value of DTX Support (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

DISPlay:

PT?
[FDCCH:SPACH:DISPlay:PT?]
Returns the last decoded value of Display Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:DISPlay:LENGth?]
Returns the last decoded value of Length of Display Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

CHARacter? *n*
[FDCCH:SPACH:DISPlay:CHARacter? n]
Returns the last decoded value Display Character (8 bit value) selected by *n* from the selected L3DATA Message. Up to 82 instances can be returned. Range of *n* is 0 to 81. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:SPACH:DISPlay:LENGth?**.

REREG?
[FDCCH:SPACH:REREG?]
Returns the last decoded value of Forced Re-registration (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

DEBUG?
[FDCCH:SPACH:DEBUG?]
Returns the last decoded value of Debug Display Allowed (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

AUTHBS?
[FDCCH:SPACH:AUTHBS?]
Returns the last decoded value of AUTHBS (18 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

BSMC?
[FDCCH:SPACH:BSMC?]
Returns the last decoded value of BSMC (Base Station Manufacture Code) (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

CUSTOM:

LENGth?
[FDCCH:SPACH:CUSTOM:LENGth?]
Returns the last decoded value of Length of Custom Control in octets (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

CONTrol? *n*
[FDCCH:SPACH:CUSTOM:CONTrol? n]
Returns the last decoded value of Custom Control (8 bit value) selected by *n* from the selected L3DATA Message. Up to 256 instances can be returned. Range of *n* is 0 to 255. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:SPACH:CUSTOM:LENGth?**.

DVCC?
[FDCCH:SPACH:DVCC?]
Returns the last decoded value of DVCC (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

DMAC?
[FDCCH:SPACH:DMAC?]
Returns the last decoded value of DMAC (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ATS?
[FDCCH:SPACH:ATS?]
Returns the last decoded value of ATS (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

SB?
[FDCCH:SPACH:SB?]
Returns the last decoded value of SB (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TA?
[FDCCH:SPACH:TA?]
Returns the last decoded value of Time Alignment (5 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

MODE:

DIC?
[FDCCH:SPACH:MODE:DIC?]
Returns the last decoded value of Delay Interval Compensation Mode (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

VOICE:

PT?
[FDCCH:SPACH:MODE:VOICE:PT?]
Returns the last decoded value of Voice Mode Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

VC?
[FDCCH:SPACH:MODE:VOICE:VC?]
Returns the last decoded value of Voice Coder (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

PM_V?
[FDCCH:SPACH:MODE:VOICE:PM_V?]
Returns the last decoded value of Voice Privacy Mode (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

MEM:

PT?
[FDCCH:SPACH:MODE:MEM:PT?]
Returns the last decoded value of Message Encryption Mode Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

MEA?
[FDCCH:SPACH:MODE:MEM:MEA?]
Returns the last decoded value of Message Encryption Algorithm (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

MED?
[FDCCH:SPACH:MODE:MEM:MED?]
Returns the last decoded value of Message Encryption Domain (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

MEK?
[FDCCH:SPACH:MODE:MEM:MEK?]
Returns the last decoded value of Message Encryption Key (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

HYPERband:

PT?
[FDCCH:SPACH:HYPERband:PT?]
Returns the last decoded value of Hyperband Info Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

INFO?
[FDCCH:SPACH:HYPERband:INFO?]
Returns the last decoded value of Hyperband Info (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LT?
[FDCCH:SPACH:LT?]
Returns the last decoded value of Last Try (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FLAG:

PT?
[FDCCH:SPACH:FLAG:PT?]
Returns the last decoded value of the RCF and AUTH flags Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

RCF?
[FDCCH:SPACH:FLAG:RCF?]
Returns the last decoded value of RCF flag (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

AUTH?
[FDCCH:SPACH:FLAG:AUTH?]
Returns the last decoded value of AUTH flag (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

RETRY:

NUMBer? -or- NUM?
[FDCCH:SPACH:RETRY:NUMBer?]
Returns the last decoded Number of instances (3 bit value - 0 to 5) of Retry Channel from the selected L3DATA Message. Returns -1 if already returned or not available.

HYPERband? *n*
[FDCCH:SPACH:RETRY:HYPERband? n]
Returns the last decoded value of Hyperband (2 bit value) for the designated instance (*n*) of Retry Channel from the selected L3DATA Message. Range of *n* is 0 to 5. Returns -1 if already returned or not available.

CHANnel? *n*
[FDCCH:SPACH:RETRY:CHANnel? n]
Returns the last decoded value of CHAN (11 bit value - 1 to 2047) for the designated instance (*n*) of Retry Channel from the selected L3DATA Message. Range of *n* is 0 to 5. Returns -1 if already returned or not available.

MSGWTG:

NV?
[FDCCH:SPACH:MSGWTG:NV?]
Returns the last decoded value of Message Waiting Info Number of Values (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE? *n*
[FDCCH:SPACH:MSGWTG:TYPE? n]
Returns the last decoded value of Type of Message Waiting (4 bit value) selected by *n* from the selected L3DATA Message. Up to 16 instances can be returned. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

NUMBer? *n* **-or- NUM?** *n*
[FDCCH:SPACH:MSGWTG:NUMBer? n]
Returns the last decoded value of Number of Messages Waiting (6 bit value) selected by *n* from the selected L3DATA Message. Up to 16 instances can be returned. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

SERVice?
[FDCCH:SPACH:SERVice?]
Returns the last decoded value of Service Code (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

SIGnal:

PT?
[FDCCH:SPACH:SIGnal:PT?]
Returns the last decoded value of Signal Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

PITCH?
[FDCCH:SPACH:SIGnal:PITCH?]
Returns the last decoded value of Signal Pitch (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

CADence?
[FDCCH:SPACH:SIGnal:CADence?]
Returns the last decoded value of Signal Cadence (6 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

DURation?
[FDCCH:SPACH:SIGnal:DURation?]
Returns the last decoded value of Signal Duration (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

CALLED:

PT?
[FDCCH:SPACH:CALLED:PT?]
Returns the last decoded value of Called Party Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:CALLED:LENGth?]
Returns the last decoded value of Called Party Length of Address Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:CALLED:TYPE?]
Returns the last decoded value of Called Party Type of Number (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

PLANid?
[FDCCH:SPACH:CALLED:PLANid?]
Returns the last decoded value of Called Party Numbering Plan Identification (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ENCoding?
[FDCCH:SPACH:CALLED:ENCoding?]
Returns the last decoded value of Called Party Address Encoding (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess?
[FDCCH:SPACH:CALLED:ADDRess?]
Returns the last decoded value of Called Party Address (ASCII String) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

CALLED:

SUBaddress:

PT?
[FDCCH:SPACH:CALLED:SUBaddress:PT?]
Returns the last decoded value of Called Party Subaddress Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:CALLED:SUBaddress:LENGth?]
Returns the last decoded value of Length of Called Party Subaddress Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ODD_EVEN?
[FDCCH:SPACH:CALLED:SUBaddress:ODD_EVEN?]
Returns the last decoded value of Called Party Subaddress Odd/Even Indicator (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:CALLED:SUBaddress:TYPE?]
Returns the last decoded value of Type of Called Party Subaddress (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

REServed?
[FDCCH:SPACH:CALLED:SUBaddress:REServed?]
Returns the last decoded value of the combination of the two Called Party Subaddress Reserved fields (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess? *n*
[FDCCH:SPACH:CALLED:SUBaddress:ADDRess? n]
Returns the last decoded value of Called Party Subaddress (8 bit value) selected by *n* from the selected L3DATA Message. Up to 20 instances can be returned. Range of *n* is 0 to 19. Returns -1 if already returned or not available.

FDCCH:

SPACH:

CALLING:

PT?
[FDCCH:SPACH:CALLING:PT?]
Returns the last decoded value of Calling Party Number Parameter Type available (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not.

LENGth?
[FDCCH:SPACH:CALLING:LENGth?]
Returns the last decoded value of Calling Party Length of Address Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:CALLING:TYPE?]
Returns the last decoded value of Type of Calling Party Number (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

PLANid?
[FDCCH:SPACH:CALLING:PLANid?]
Returns the last decoded value of Calling Party Number Plan Identification (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ENCoding?
[FDCCH:SPACH:CALLING:ENCoding?]
Returns the last decoded value of Calling Party Address Encoding (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess?
[FDCCH:SPACH:CALLING:ADDRess?]
Returns the last decoded value of Calling Party Number Address (ASCII String) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

CALLING:

SUBaddress:

PT?
[FDCCH:SPACH:CALLING:SUBaddress:PT?]
Returns the last decoded value of Calling Party Subaddress Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:CALLING:SUBaddress:LENGth?]
Returns the last decoded value of Calling Party Length of Subaddress Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ODD_EVEN?
[FDCCH:SPACH:CALLING:SUBaddress:ODD_EVEN?]
Returns the last decoded value of Calling Party Subaddress Odd/Even Indicator (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:CALLING:SUBaddress:TYPE?]
Returns the last decoded value of Calling Party Type of Subaddress (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

REServed?
[FDCCH:SPACH:CALLING:SUBaddress:REServed?]
Returns the last decoded value of the combination of the two Calling Party Subaddress Reserved fields (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess? *n*
[FDCCH:SPACH:CALLING:SUBaddress:ADDRess? n]
Returns the last decoded value of Calling Party Subaddress (8 bit value) selected by *n* from the selected L3DATA Message. Up to 20 instances can be returned. Range of *n* is 0 to 19. Returns -1 if already returned or not available.

FDCCH:

SPACH:

CALLING:

PRESentation:

PT?
[FDCCH:SPACH:CALLING:PRESentation:PT?]
Returns the last decoded value of Calling Party Presentation Indicator Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

PI?
[FDCCH:SPACH:CALLING:PRESentation:PI?]
Returns the last decoded value of Presentation Indicator (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

SI?
[FDCCH:SPACH:CALLING:PRESentation:SI?]
Returns the last decoded value of Screening Indicator (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

RN?
[FDCCH:SPACH:RN?]
Returns the last decoded value of Request Number (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

RTRANSaction?
[FDCCH:SPACH:RTRANSaction?]
Returns the last decoded value of R-Transaction Identifier (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

RDATA_UNIT:

LENGth?
[FDCCH:SPACH:RDATA_UNIT:LENGth?]
Returns the last decoded value of R-Data Unit Length (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

RDATA_UNIT:

HLP:

IDentifier?
[FDCCH:SPACH:RDATA_UNIT:HLP:IDentifier?]
Returns the last decoded value of R-Data Unit Higher Layer Protocol Identifier (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

DATA? *n*
[FDCCH:SPACH:RDATA_UNIT:HLP:DATA? n]
Returns the last decoded value of Higher Layer Protocol Data Unit (8 bit value) selected by *n* from the selected L3DATA Message. Up to 255 instances can be returned. Range of *n* is 0 to 254.

Validity is determined by **FDCCH:SPACH:RDATA_UNIT:LENGth?**.

MESSage:CENTer:

PT?
[FDCCH:SPACH:MESSage:CENTer:PT?]
Returns the last decoded value of Message Center Address Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:MESSage:CENTer:LENGth?]
Returns the last decoded value of Message Center Length of Address Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:MESSage:CENTer:TYPE?]
Returns the last decoded value of Message Center Address Type of Number (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

PLANid?
[FDCCH:SPACH:MESSage:CENTer:PLANid?]
Returns the last decoded value of Message Center Numbering Plan Identification (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ENCoding?
[FDCCH:SPACH:MESSage:CENTer:ENCoding?]
Returns the last decoded value of Message Center Address Encoding (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

MESSage:CENTer:

ADDRess?
[FDCCH:SPACH:MESSage:CENTer:ADDRess?]
Returns the last decoded value of Message Center Address (ASCII String) from the selected L3DATA Message. Returns -1 if already returned or not available.

USER:

DEST:

PT?
[FDCCH:SPACH:USER:DEST:PT?]
Returns the last decoded value of User Destination Address Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:USER:DEST:LENGth?]
Returns the last decoded value of User Destination Length of Address Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:USER:DEST:TYPE?]
Returns the last decoded value of User Destination Type of Number (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

PLANid?
[FDCCH:SPACH:USER:DEST:PLANid?]
Returns the last decoded value of User Destination Address Identification Plan (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ENCoding?
[FDCCH:SPACH:USER:DEST:ENCoding?]
Returns the last decoded value of User Destination Address Encoding (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess?
[FDCCH:SPACH:USER:DEST:ADDRess?]
Returns the last decoded value of User Destination Address (ASCII String) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

USER:

DEST:

SUBaddress:

PT?
[FDCCH:SPACH:USER:DEST:SUBaddress:PT?]
Returns the last decoded value of User Destination Subaddress Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:USER:DEST:SUBaddress:LENGth?]
Returns the last decoded value of User Destination Length of Subaddress Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ODD_EVEN?
[FDCCH:SPACH:USER:DEST:SUBaddress:ODD_EVEN?]
Returns the last decoded value of User Destination Subaddress Odd/Even Indicator (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:USER:DEST:SUBaddress:TYPE?]
Returns the last decoded value of User Destination Type of Subaddress (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

REServed?
[FDCCH:SPACH:USER:DEST:SUBaddress:REServed?]
Returns the last decoded value of the combination of the two User Destination Subaddress Reserved fields (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess? *n*
[FDCCH:SPACH:USER:DEST:SUBaddress:ADDRess? n]
Returns the last decoded value of User Destination Subaddress (8 bit value) selected by *n* from the selected L3DATA Message. Up to 20 instances can be returned. Range of *n* is 0 to 19. Returns -1 if already returned or not available.

FDCCH:

SPACH:

USER:

GROUP:

PT?
[FDCCH:SPACH:USER:GROUP:PT?]
Returns the last decoded value of User Group Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

STATus?
[FDCCH:SPACH:USER:GROUP:STATus?]
Returns the last decoded value of User Group Status (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:USER:GROUP:TYPE?]
Returns the last decoded value of User Group Type (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ID:

MS?
[FDCCH:SPACH:USER:GROUP:ID:MS?]
Returns the 18 Most Significant bits of User Group Identification. Returns -1 if already returned or not available.

LS?
[FDCCH:SPACH:USER:GROUP:ID:LS?]
Returns the 32 Least Significant bits of User Group Identification. Returns -1 if already returned or not available.

ORIG:

PT?
[FDCCH:SPACH:USER:ORIG:PT?]
Returns the last decoded value of User Originating Address Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:USER:ORIG:LENGth?]
Returns the last decoded value of User Originating Length of Address Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:USER:ORIG:TYPE?]
Returns the last decoded value of User Originating Type of Address (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

USER:

ORIG:

PLANid?
[FDCCH:SPACH:USER:ORIG:PLANid?]
Returns the last decoded value of User Originating Address Identification Plan (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ENCoding?
[FDCCH:SPACH:USER:ORIG:ENCoding?]
Returns the last decoded value of User Originating Address Encoding (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess?
[FDCCH:SPACH:USER:ORIG:ADDRess?]
Returns the last decoded value of User Originating Address (ASCII String) from the selected L3DATA Message. Returns -1 if already returned or not available.

PRESentation:

PI?
[FDCCH:SPACH:USER:ORIG:PRESentation:PI?]
Returns the last decoded value of Presentation Indicator (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

SI?
[FDCCH:SPACH:USER:ORIG:PRESentation:SI?]
Returns the last decoded value of Screening Indicator (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

USER:

ORIG:

SUBaddress:

PT?
[FDCCH:SPACH:USER:ORIG:SUBaddress:PT?]
Returns the last decoded value of User Originating Subaddress Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:USER:ORIG:SUBaddress:LENGth?]
Returns the last decoded value of User Originating Length of Subaddress Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ODD_EVEN?
[FDCCH:SPACH:USER:ORIG:SUBaddress:ODD_EVEN?]
Returns the last decoded value of User Originating Subaddress Odd/Even Indicator (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:USER:ORIG:SUBaddress:TYPE?]
Returns the last decoded value of User Originating Type of Subaddress (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

REServed?
[FDCCH:SPACH:USER:ORIG:SUBaddress:REServed?]
Returns the last decoded value of the combination of the two User Originating Subaddress Reserved fields (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess? *n*
[FDCCH:SPACH:USER:ORIG:SUBaddress:ADDRess? n]
Returns the last decoded value of User Originating Subaddress (8 bit value) selected by *n* from the selected L3DATA Message. Up to 20 instances can be returned. Range of *n* is 0 to 19. Returns -1 if already returned or not available.

FDCCH:

SPACH:

RDATA:DELAY?
[FDCCH:SPACH:RDATA:DELAY?]
Returns the last decoded value of R-DATA Delay (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

PFC:

PT?
[FDCCH:SPACH:PFC:PT?]
Returns the last decoded value of PFC Assignment Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ASSIGNment?
[FDCCH:SPACH:PFC:ASSIGNment?]
Returns the last decoded value of PFC Assignment (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

RNUM:

PT?
[FDCCH:SPACH:RNUM:PT?]
Returns the last decoded value of RNUM List Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:SPACH:RNUM:NUMBer?]
Returns the last decoded value of Number of RNUMs (6 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LIST? *n*
[FDCCH:SPACH:RNUM:LIST? n]
Returns the last decoded value of RNUM (10 bit value) selected by *n* from the selected L3DATA Message. Up to 50 instances can be returned. Range of *n* is 0 to 49. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:SPACH:RNUM:NUMBer?**.

FDCCH:

SPACH:

PSID_RSID:

AVAILable:

PT?
[FDCCH:SPACH:PSID_RSID:AVAILable:PT?]
Returns the last decoded value of PSID/RSID Available Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:SPACH:PSID_RSID:AVAILable:NUMBer?]
Returns the last decoded value of Number of PSID/RSID (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE? *n*
[FDCCH:SPACH:PSID_RSID:AVAILable:TYPE? n]
Returns the last decoded value of PSID/RSID Type Indicator (1 bit value) selected by *n* from the selected L3DATA Message. Up to 16 instances can be returned. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:SPACH:PSID_RSID:AVAILable:NUMBer?**.

VALUE? *n*
[FDCCH:SPACH:PSID_RSID:AVAILable:VALUE? n]
Returns the last decoded value of PSID/RSID Value (1 bit value) selected by *n* from the selected L3DATA Message. Up to 16 instances can be returned. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

Validity is determined by **FDCCH:SPACH:PSID_RSID:AVAILable:NUMBer?**.

MAP?
[FDCCH:SPACH:PSID_RSID:MAP?]
Returns the last decoded value of PSID/RSID Map (16 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

DIRectory:

PT?
[FDCCH:SPACH:DIRectory:PT?]
Returns the last decoded value of Directory Address Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:DIRectory:LENGth?]
Returns the last decoded value of Director Length of Address Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:DIRectory:TYPE?]
Returns the last decoded value of Directory Address Type of Number (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

PLANid?
[FDCCH:SPACH:DIRectory:PLANid?]
Returns the last decoded value of Directory Address Identification Plan (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ENCoding?
[FDCCH:SPACH:DIRectory:ENCoding?]
Returns the last decoded value of Directory Address Encoding (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess?
[FDCCH:SPACH:DIRectory:ADDRess?]
Returns the last decoded value of Directory Address (ASCII String) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

DIRectory:

SUBaddress:

PT?
[FDCCH:SPACH:DIRectory:SUBaddress:PT?]
Returns the last decoded value of Directory Subaddress Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:DIRectory:SUBaddress:LENGth?]
Returns the last decoded value of Directory Length of Subaddress Info (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ODD_EVEN?
[FDCCH:SPACH:DIRectory:SUBaddress:ODD_EVEN?]
Returns the last decoded value of Directory Subaddress Odd/Even Indicator (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TYPE?
[FDCCH:SPACH:DIRectory:SUBaddress:TYPE?]
Returns the last decoded value of Directory Type of Subaddress (3 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

REServed?
[FDCCH:SPACH:DIRectory:SUBaddress:REServed?]
Returns the last decoded value of the combination of the two Directory Subaddress Reserved fields (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

ADDRess? *n*
[FDCCH:SPACH:DIRectory:SUBaddress:ADDRess? n]
Returns the last decoded value of Directory Subaddress (8 bit value) selected by *n* from the selected L3DATA Message. Up to 20 instances can be returned. Range of *n* is 0 to 19. Returns -1 if already returned or not available.

FDCCH:

SPACH:

REJect:

REGistration:

CAUSE?
[FDCCH:SPACH:REJect:REGistration:CAUSE?]
Returns the last decoded value of Registration Reject Cause (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TIME:

PT?
[FDCCH:SPACH:REJect:REGistration:TIME:PT?]
Returns the last decoded value of Reject Time Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LOWer?
[FDCCH:SPACH:REJect:REGistration:TIME:LOWer?]
Returns the last decoded value of Reject Lower Time Boundary in 100 SF (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

UPPer?
[FDCCH:SPACH:REJect:REGistration:TIME:UPPer?]
Returns the last decoded value of Reject Upper Time Boundary in 100 SF (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

RDATA:

CAUSE?
[FDCCH:SPACH:REJect:RDATA:CAUSE?]
Returns the last decoded value of R-CAUSE (7 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

SPARE?
[FDCCH:SPACH:REJect:RDATA:SPARE?]
Returns the last decoded value of the R-Cause Reserved field (1 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

RELease:CAUSE?
[FDCCH:SPACH:RELease:CAUSE?]
Returns the last decoded value of Release Cause (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

REorder:

CAUSE?
[FDCCH:SPACH:REorder:CAUSE?]
Returns the last decoded value of Reorder/Intercept Cause (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

TONE?
[FDCCH:SPACH:REorder:TONE?]
Returns the last decoded value of Tone Indicator (2 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

SOC?
[FDCCH:SPACH:SOC?]
Returns the last decoded value of SOC (System Operator Code) (12 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

NOTification?
[FDCCH:SPACH:NOTification?]
Returns the last decoded value of SPACH Notification (6 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

RANDSSD1?
[FDCCH:SPACH:RANDSSD1?]
Returns the last decoded value of the 24 most significant bits of RANDSSD from the selected L3DATA Message. Returns -1 if already returned or not available.

RANDSSD2?
[FDCCH:SPACH:RANDSSD2?]
Returns the last decoded value of the 32 least significant bits of RANDSSD from the selected L3DATA Message. Returns -1 if already returned or not available.

FDCCH:

SPACH:

ALPHA:

SID:

PT?
[FDCCH:SPACH:ALPHA:SID:PT?]
Returns the last decoded value of Alphanumeric System ID Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:ALPHA:SID:LENGth?]
Returns the last decoded value of Length of Alphanumeric System ID (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

CHARacters?
[FDCCH:SPACH:ALPHA:SID:CHARacters?]
Returns the last decoded value of Alphanumeric System ID (ASCII String) from the selected L3DATA Message. Returns -1 if already returned or not available.

PSID_RSID:

PT?
[FDCCH:SPACH:ALPHA:PSID_RSID:PT?]
Returns the last decoded value of Alphanumeric PSID/RSID List Parameter Type (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

LENGth?
[FDCCH:SPACH:ALPHA:PSID_RSID:LENGth?]
Returns the last decoded value of Length of Alphanumeric PSID/RSID List (8 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

NAME:

LENGth? *n*
[FDCCH:SPACH:ALPHA:PSID_RSID:NAME:LENGth? n]
Returns the last decoded value of Length of PSID/RSID Alphanumeric Name (4 bit value) selected by *n* from the selected L3DATA Message. Up to 16 instances can be returned. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

CHARacters? *n*
[FDCCH:SPACH:ALPHA:PSID_RSID:NAME:CHARacters? n]
Returns the last decoded value of Alphanumeric PSID/RSID Display Characters (ASCII String) selected by *n* from the selected L3DATA Message. Up to 16 instances can be returned. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

FDCCH:

SPACH:

RANDU?
[FDCCH:SPACH:RANDU?]
Returns the last decoded value of RANDU (24 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

QUEue:POSition?
[FDCCH:SPACH:QUEue:POSition?]
Returns the last decoded value of Queue Position (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

MACA:LIST:

NUMBer? -or- NUM?
[FDCCH:SPACH:MACA:LIST:NUMBer?]
Returns the last decoded value of Number of MACA Channels (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

CHAN? *n*
[FDCCH:SPACH:MACA:LIST:CHAN? n]
Returns the last decoded value of CHAN (11 bit value - 1 to 2047) for designated MACA Channel (*n*) from the selected L3DATA Message. Up to 16 instances can be returned. Range of n is 0 to 15. Returns -1 if already returned or not available.

OTHER:

HYPERband?
[FDCCH:SPACH:MACA:LIST:OTHER:HYPERband?]
Returns the last decoded value of Hyperband (2 bit value) for MACA_LIST (Other Hyperband) from the selected L3DATA Message. Returns -1 if already returned or not available.

NUMBer? -or- NUM?
[FDCCH:SPACH:MACA:LIST:OTHER:NUMBer?]
Returns the last decoded value of Number of MACA Channels (4 bit value) for MACA_LIST (Other Hyperband) from the selected L3DATA Message. Returns -1 if already returned or not available.

CHAN? *n*
[FDCCH:SPACH:MACA:LIST:OTHER:CHAN? n]
Returns the last decoded value of CHAN (11 bit value - 1 to 2047) of designated MACA Channel for MACA_LIST (Other Hyperband) from the selected L3DATA Message. Range of *n* is 0 to 15. Returns -1 if already returned or not available.

9-11 RDCCH DATA MONITOR

9-11-1 SETUP COMMANDS

RDCCH:

SETup
[RDCCH:SETup]
Sets up the Sp Tst as when entering the Reverse Digital Control Channel screen (screen is not displayed). The HOST is forced into Duplex Mode through selection of Duplex screen.

CONFigure:

USER
[RDCCH:CONFigure:USER]
This command is identical to the **RDCCH:SETup** command except that the USER screen is selected.

NONE
[RDCCH:CONFigure:NONE]
This command is identical to the **RDCCH:SETup** command except that the Test Set remains in the screen currently displayed.

CHANnel *n*
[RDCCH:CHANnel n]
Specifies Reverse Channel to monitor.

FREQuency:BAND (See 9-3)	**RANGE OF** *n*
0	1 to 333
1	1 to 1023
2	1 to 1999

CHANnel?
[RDCCH:CHANnel?]
Returns current value of CHANnel.

RATE *n*
[RDCCH:RATE n]
Selects Transmission Rate: Full (*n* = 0) or Half (*n* = 1).

RATE?
[RDCCH:RATE?]
Returns current setting of RATE.

SLOT *n*
[RDCCH:SLOT n]
Specifies the full rate pair or half rate Slot in which to receive. Range of *n* is 1 to 3 (full) or 1 to 6 (half).

RDCCH:

LENGth:

ABBREViated
[RDCCH:LENGth:ABBREViated]
Configures the SP TST to decode abbreviated length bursts on the RDCCH.

NORMal
[RDCCH:LENGth:NORMal]
Configures the SP TST to decode normal length bursts on the RDCCH.

LENGth?
[RDCCH:LENGth?]
Returns current setting of LENGth: 0 = Normal, 1 = Abbreviated.

DVCC *n*
[RDCCH:DVCC n]
Specifies Digital Verification Color Code. Range of *n* is 0 to 255.

Digital Verification Color Code, which is used when calculating the CRC, must be specified to decode the message.

DVCC?
[RDCCH:DVCC?]
Returns current value of DVCC.

9-11-2 CONTINUOUS REMOTE RAW TIMESLOT DATA

The RDCCH timeslot data is presented exactly as received with no de-interleaving, error correction or formatting of data. The number of bits in a timeslot is 312 for a normal slot and 274 for an abbreviated slot, corresponding to 78 ASCII characters. The data on the RDCCH is present only when the mobile station is accessing the system. The baud rate should be set to 57600 for both the SP TST and the RS-232 terminal. The following TMAC commands are used to start and stop this operation:

RDCCH:REMote:TIMEslot:

STARt
[RDCCH:REMote:TIMEslot:STARt]
Starts sending the received data out the RS-232 Connector.

STOP
[RDCCH:REMote:TIMEslot:STOP]
Stops sending the received data out the RS-232 Connector.

9-11-3 CONTINUOUS REMOTE RAW DATA

This mode differs from Continuous Remote Raw Timeslot Data in Section 9-11-2. This mode de-interleaves the data and performs forward error correction before presenting the data. The timeslot is broken into the various data fields and continuously transmitted out the RS-232 Connector. Following the data is a millisecond time stamp which provides relative time between slots of data.

The RDCCH data is presented in hexadecimal out the RS-232 Connector with each frame of data being separated by a newline character. The data is formatted as follows:

- The first 7 characters represent the 28 bits of the SYNC word.
- The next 6 characters are the hexadecimal value of the 24 bits of SYNC+.
- The next 30 characters are the hexadecimal value (left justified) of the 117 bits of data.
- The flag is followed by a millisecond time stamp.

The following TMAC commands are used to set up and start and stop this operation:

RDCCH:REMote:RAW:

DVCC *n*
[RDCCH:REMote:RAW:DVCC n]
Specifies Digital Verification Color Code. Range of *n* is 1 to 255.

A DVCC, which is used when calculating the CRC, must be specified to decode the message.

LENGth:

ABBREViated
[RDCCH:REMote:RAW:LENGth:ABBREViated]
Configures the SP TST to decode abbreviated length bursts on the RDCCH.

NORMal
[RDCCH:REMote:RAW:LENGth:NORMal]
Configures the SP TST to decode normal length bursts on the RDCCH.

STARt
[RDCCH:REMote:RAW:STARt]
Starts sending the received, de-interleaved and decoded data out the RS-232 Connector.

STOP
[RDCCH:REMote:RAW:STOP]
Stops sending the received data out the RS-232 Connector.

An embedded macro named RRAW initiates the START when executed and sends a STOP when any key on the RS-232 Terminal is pressed. To use this macro, type in the command RRAW at the RS-232 terminal.

9-11-4 BUFFERED RAW DATA

The RDCCH Buffered Raw Data commands consist of the TMAC commands used for Layer 1 raw data buffering. Up to 100 frames of raw data can be captured (similar to FOCC raw data TMAC commands). The following commands are used for this operation:

RDCCH:RAW:

DEPTH *n*
[RDCCH:RAW:DEPTH n]
Specifies depth of the raw buffer. Range of *n* is 0 to 99.

STARt
[RDCCH:RAW:STARt]
Starts capturing raw data on the RDCCH.

STOP
[RDCCH:RAW:STOP]
Stops capturing raw data on the RDCCH.

STOP occurs automatically when the buffer is full.

COUNT?
[RDCCH:RAW:COUNT?]
Returns current number of frames (0 to 100 bit value) received and stored into the raw buffer.

When COUNT is equal to DEPTH, the raw buffer is full. Allows the user to access or decode the raw data as it is received instead of waiting until the raw buffer is completely full.

TS? *n*
[RDCCH:RAW:TS? n]
Returns Time Stamp (in milliseconds) of selected raw data frame (*n*). Range of *n* is 0 to 99.

PREAMble? *n*
[RDCCH:RAW:PREAMble? n]
Returns current value of Preamble (16 bit value) in selected raw data frame (*n*). Range of *n* is 0 to 99.

SYNC? *n*
[RDCCH:RAW:SYNC? n]
Returns current value of SYNC (28 bit value) in selected raw data frame (*n*). Range of *n* is 0 to 99.

DATA? *n,x*
[RDCCH:RAW:DATA? n,x]
Returns current raw data byte (8 bit value) (indexed by *x*) in selected raw data frame (*n*). Range of *n* is 0 to 99; range of *x* is 0 to 15.

SYNCPLUS? *n*
[RDCCH:RAW:SYNCPLUS? n]
Returns current value of SYNC+ (24 bit value) in selected raw data frame (*n*). Range of *n* is 0 to 99.

9-11-5 LAYER 2 DATA MONITOR

The Layer 2 Data Monitor is made up of the TMAC commands necessary to decode a Layer 2 message.

The process involves the following steps:

1. Capture 1 to 100 words into the raw data buffer for non real-time decoding into Layer 2 data fields. Use the RDCCH Buffered Raw data commands described in Section 9-11-4.
2. Select one frame of raw data from the raw buffer and decode the frame into Layer 2 fields:

RDCCH:LAYER2:DECode *n*
[RDCCH:LAYER2:DECode n]
Decodes selected frame of data (*n*) in the raw buffer. Range of *n* is 0 to 99.

The decoded Layer 2 data (after issuing the **RDCCH:LAYER2:DECode** command) is accessed with the following commands:

RDCCH:LAYER2:RACH:

ARQ_RSVD?
[RDCCH:LAYER2:RACH:ARQ_RSVD?]
Returns current value of Automatic Retransmission Request RSVD (2 bit value). Returns -1 if not available.

BT?
[RDCCH:LAYER2:RACH:BT?]
Returns current value of Burst Type (3 bit value). Returns -1 if not available.

CI?
[RDCCH:LAYER2:RACH:CI?]
Returns current state of Change Indicator (1 bit value). Returns -1 if not available.

EH_RSVD?
[RDCCH:LAYER2:RACH:EH_RSVD?]
Returns current state of Extended Header RSVD (1 bit value). Returns -1 if not available.

EHI?
[RDCCH:LAYER2:RACH:EHI?]
Returns current state of Extension Header Indicator (1 bit value). Returns -1 if not available.

END_RSVD?
[RDCCH:LAYER2:RACH:END_RSVD?]
Returns current state of END frame RSVD (1 bit value). Returns -1 if not available.

FRNO_MAP?
[RDCCH:LAYER2:RACH:FRNO_MAP?]
Returns current value of Frame Number Map (32 bit value). Returns -1 if not available.

IDT?
[RDCCH:LAYER2:RACH:IDT?]
Returns current value of Identity Type (2 bit value). Returns -1 if not available.

RDCCH:LAYER2:RACH:

L3DATA? *n,x*
[RDCCH:LAYER2:RACH:L3DATA? n,x]
Returns current 8 bit word (indexed by *x*) of selected Layer 3 Data message (*n*). Returns -1 if not available. Range of *n* is 0 to 7; range of *x* is 0 to 15.

The number of Layer 3 data messages embedded within a Layer 2 frame can be just a portion of single data message on up to 8 full data messages. The maximum number of bytes in a Layer 2 frame is 16 bytes. The data returned is left justified.

The L3LENGTH command may be used to determine how many 8 bit "words" make up the Layer 3 data field in the frame currently being decoded.

L3LENGTH? *n*
[RDCCH:LAYER2:RACH:L3LENGTH? n]
Returns current 8 bit value of Length (indexed by *n*) in Layer 3 data field. Returns -1 if not available. Range of *n* is 0 to 7.

Length of the Layer 3 data field in the RACH Layer 2 frame currently being decoded. This is necessary because the L3LIs are all contained in the first frame of a multiframe RACH message and subsequent frames do not contain the information specifying the length of the Layer 3 data field.

L3LI? *n*
[RDCCH:LAYER2:RACH:L3LI? n]
Returns current 8 bit value of Layer 3 Length Indicator indexed by *n*. Returns -1 if not available. Range of *n* is 0 to 7.

A RACH Layer 2 frame may contain up to eight Layer 3 Length Indicators.

MEA?
[RDCCH:LAYER2:RACH:MEA?]
Returns current value of Message Encryption Algorithm (2 bit value). Returns -1 if not available.

MEK?
[RDCCH:LAYER2:RACH:MEK?]
Returns current value of Message Encryption Key (2 bit value). Returns -1 if not available.

MIN?
[RDCCH:LAYER2:RACH:MIN?]
Returns current value of Mobile Identification Number (ASCII string). Returns -1 if not available.

This command is associated with a 34 bit Mobile Station Identity.

RDCCH:LAYER2:RACH:

MSID? *n*

[RDCCH:LAYER2:RACH:MSID? n]

Returns the selected 8 bit word of the Mobile Station I.D. Range of *n* is 0 to 6. (0 = Least significant byte, 6 = Most significant byte.) Returns -1 if not available.

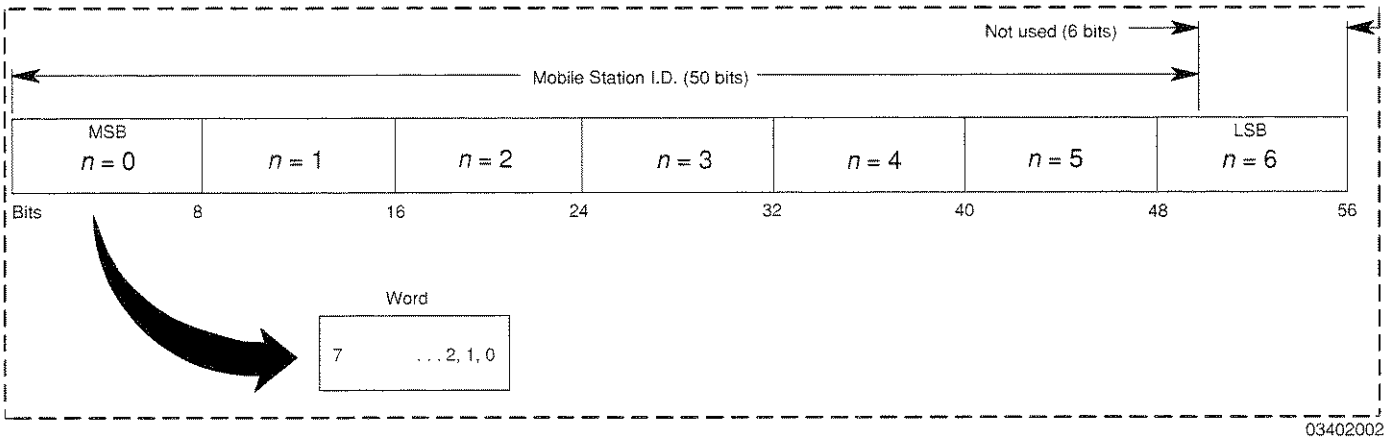

Figure 9-1 Mobile Station MSID

NL3M?

[RDCCH:LAYER2:RACH:NL3M?]

Returns current value of Number of Layer 3 Messages (3 bit value). Returns -1 if not available.

PEA?

[RDCCH:LAYER2:RACH:PEA?]

Returns current value of Partial Echo Assigned (7 bit value). Returns -1 if not available.

9-11-6 RDCCH REAL TIME DATA MONITOR

RDCCH:

START
[RDCCH:START]
Starts a background task running that decodes the RDCCH message information elements. The decoded information elements are returned with corresponding query commands.

STOP
[RDCCH:STOP]
Stops the RDCCH decode background task.

SYNC?
[RDCCH:SYNC?]
Returns the last decoded value of the RDCCH sync word (28 bit value). Returns -1 if not available.

SYNCPlus?
[RDCCH:SYNCPlus?]
Returns the last decoded value of the RDCCH sync plus word (24 bit value). Returns -1 if not available.

BT?
[RDCCH:BT?]
Returns current value of Burst Type (3 bit value). Returns -1 if not available.

CI?
[RDCCH:CI?]
Returns current state of Change Indicator (1 bit value). Returns -1 if not available.

EHI?
[RDCCH:EHI?]
Returns current state of Extension Header Indicator (1 bit value). Returns -1 if not available.

IDT?
[RDCCH:IDT?]
Returns current value of Identity Type (2 bit value). Returns -1 if not available.

MSID:

MS?
[RDCCH:MSID:MS?]
Returns the 18 Most Significant bits of Mobile Station Identification. Returns -1 if not available.

LS?
[RDCCH:MSID:LS?]
Returns the 32 Least Significant bits of Mobile Station Identification. Returns -1 if not available.

MIN?
[RDCCH:MIN?]
Returns current Mobile Identification Number (ASCII String) associated with a 34 bit Mobile Station Identity. Returns -1 if not available.

RDCCH:

NL3M?
[RDCCH:NL3M?]
Returns current value of Number of Layer 3 Messages (3 bit value). Returns -1 if not available.

L3LI? *n*
[RDCCH:L3LI? n]
Returns current 8 bit value of Layer 3 Length Indicator indexed by *n*. Returns -1 if not available. Range of *n* is 0 to 7.

A RACH layer 2 frame may contain up to eight layer 3 length indicators.

L3DATA:

SELect *n*
[RDCCH:L3DATA:SELect n]
Specifies Layer 3 data message from which to access data. Range of *n* is 0 to 7.

Up to eight Layer 3 messages can be included in one RDCCH message. Each message is decoded and stored. The following commands access the information elements from the selected layer 3 message.

SELect?
[RDCCH:L3DATA:SELect?]
Returns current value of SELect.

Returns the last selection of eight Layer 3 messages.

PEA?
[RDCCH:PEA?]
Returns current value of Partial Echo Assigned (7 bit value). Returns -1 if not available.

MEA?
[RDCCH:MEA?]
Returns current value of Message Encryption Algorithm (2 bit value). Returns -1 if not available.

MEK?
[RDCCH:MEK?]
Returns current value of Message Encryption Key (2 bit value). Returns -1 if not available.

FRNO_MAP?
[RDCCH:FRNO_MAP?]
Returns current value of Frame Number Map (26 bit value). Returns -1 if not available.

RDCCH:

RSVD:

EHI?
[RDCCH:RSVD:EHI?]
Returns current state of Extended Header Indicator RSVD (1 bit value). Returns -1 if not available.

ARQ?
[RDCCH:RSVD:ARQ?]
Returns current value of ARQ RSVD field (2 bit value). Returns -1 if not available.

END?
[RDCCH:RSVD:END?]
Returns current state of END frame RSVD field (1 bit value). Returns -1 if not available.

CRC?
[RDCCH:CRC?]
Returns current value of Cyclic Redundancy Code (16 bit value). Returns -1 if not available.

PD?
[RDCCH:PD?]
Returns current value of Protocol Discriminator (2 bit value). Returns -1 if not available.

MSGtype?
[RDCCH:MSGtype?]
Returns current Message Type.

The following are possible message types:

AUDITCON	AUTHENTICATION	BSCHAL	BSMC
CAPABILITY	MACA	ORIGINATION	PAGE RESPONSE
QDISC	R-DATA	R-DATA ACCEPT	RDATA REJECT
REGISTRATION	SERIAL NUMBER	SOC	SPACHCON
SSD UPDATE	TEST	UCHAL	

PFC_1?
[RDCCH:PFC_1?]
Returns current value of Paging Frame Class (3 bit value). Returns -1 if not available.

PSID_RSID:

SELect?
[RDCCH:PSID_RSID:SELect?]
Returns current value of Selected PSID/RSID (4 bit value). Returns -1 if not available.

MAP?
[RDCCH:PSID_RSID:MAP?]
Returns current value of PSID/RSID Map (16 bit value). Returns -1 if not available.

RDCCH:

SUBaddress:

LENGth?
[RDCCH:SUBaddress:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

ODD_EVEN?
[RDCCH:SUBaddress:ODD_EVEN?]
Returns current value of ODD_EVEN (1 bit value). Returns -1 if not available.

TYPE?
[RDCCH:SUBaddress:TYPE?]
Returns current value of TYPE (3 bit value). Returns -1 if not available.

REServed?
[RDCCH:SUBaddress:REServed?]
Returns the last decoded value of the Subaddress Reserved fields (4 bit value). Returns -1 if already returned or not available.

ADDRess? *n*
[RDCCH:SUBaddress:ADDRess? n]
Returns last decoded 8 bit value of Subaddress from selected L3DATA Message (*n*). Range of *n* is 0 to 19. Returns -1 if not available.

DISPlay:

LENGth?
[RDCCH:DISPlay:LENGth?]
Returns current value of Length of Display Information (8 bit value). Returns -1 if not available.

CHARacter? *n*
[RDCCH:DISPlay:CHARacter? n]
Returns current 8 bit value of Display Character indexed by *n*. Range of *n* is 0 to 81.

COUNt?
[RDCCH:COUNt?]
Returns current value of COUNt (6 bit value). Returns -1 if not available.

RANDC?
[RDCCH:RANDC?]
Returns current value of RANDC (8 bit value). Returns -1 if not available.

AUTHR?
[RDCCH:AUTHR?]
Returns current value of AUTHR (18 bit value). Returns -1 if not available.

RANDBS?
[RDCCH:RANDBS?]
Returns current value of RANDBS (32 bit value). Returns -1 if not available.

RDCCH:

BSMC?
[RDCCH:BSMC?]
Returns current value of Base Station Manufacture Code (8 bit value). Returns -1 if not available.

CUSTom:

LENGth?
[RDCCH:CUSTom:LENGth?]
Returns current value of Custom Control Length (8 bit value). Returns -1 if not available.

CONTrol? *n*
[RDCCH:CUSTom:CONTrol? n]
Returns current 8 bit value of Custom Control indexed by *n*. Range of *n* is 0 to 252. Returns -1 if not available.

PROTocol:VERsion?
[RDCCH:PROTocol:VERsion?]
Returns current value of Protocol Version (4 bit value). Returns -1 if not available.

SCM?
[RDCCH:SCM?]
Returns current value of Station Class Mark (5 bit value). Returns -1 if not available.

VINtage:

SOFTware?
[RDCCH:VINtage:SOFTware?]
Returns current value of Software Vintage (6 bit value). Returns -1 if not available.

FIRMware?
[RDCCH:VINtage:FIRMware?]
Returns current value of Firmware Vintage (6 bit value). Returns -1 if not available.

MODEL?
[RDCCH:MODEL?]
Returns current value of Model Number (4 bit value). Returns -1 if not available.

MANufacture?
[RDCCH:MANufacture?]
Returns current value of Manufacture Code (8 bit value). Returns -1 if not available.

SUPPort:

MAX:PFC?
[RDCCH:SUPPort:MAX:PFC?]
Returns current value of MAX_SUPPORTED_PFC (3 bit value). Returns -1 if not available.

SOC?
[RDCCH:SUPPort:SOC?]
Returns current value of SOC Support (1 bit value). Returns -1 if not available.

RDCCH:

SUPPort:

BSMC?
[RDCCH:SUPPort:BSMC?]
Returns current value of BSMC Support (1 bit value). Returns -1 if not available.

ASYNC?
[RDCCH:SUPPort:ASYNC?]
Returns current value of Async Data Support (1 bit value). Returns -1 if not available.

G3fax?
[RDCCH:SUPPort:G3fax?]
Returns current value of G3-Fax Support (1 bit value). Returns -1 if not available.

SMS?
[RDCCH:SUPPort:SMS?]
Returns current value of SMS Broadcast Support (1 bit value). Returns -1 if not available.

SUBaddress?
[RDCCH:SUPPort:SUBaddress?]
Returns current value of Subaddressing Support (1 bit value). Returns -1 if not available.

FREQuency:BANDS?
[RDCCH:SUPPort:FREQuency:BANDS?]
Returns current value of Supported Frequency Bands (8 bit value). Returns -1 if not available.

IRA?
[RDCCH:SUPPort:IRA?]
Returns current value of IRA Support (1 bit value). Returns -1 if not available.

USER?
[RDCCH:SUPPort:USER?]
Returns current value of User Group Support (1 bit value). Returns -1 if not available.

ANA800?
[RDCCH:SUPPort:ANA800?]
Returns current value of 800 MHz Analog Speech Support (1 bit value). Returns -1 if not available.

HALF?
[RDCCH:SUPPort:HALF?]
Returns current value of Half-Rate DTC Support (1 bit value). Returns -1 if not available.

DOUBle?
[RDCCH:SUPPort:DOUBle?]
Returns current value of Double Rate DTC Support (1 bit value). Returns -1 if not available.

TRIPle?
[RDCCH:SUPPort:TRIPle?]
Returns current value of Triple Rate DTC Support (1 bit value). Returns -1 if not available.

RDCCH:

SUPPort:

STU_III?
[RDCCH:SUPPort:STU_III?]
Returns current state of STU-III Support (1 bit value). Returns -1 if already returned or not available.

ALT_SOC?
[RDCCH:SUPPort:ALT_SOC?]
Returns current value of ALT_SOC_Support (12 bit value). Returns -1 if already returned or not available.

VC_MAP?
[RDCCH:VC_MAP?]
Returns current value of Voice Coder Map Info (6 bit value). Returns -1 if already returned or not available.

MEASurement:

LTM:

WER?
[RDCCH:MEASurement:LTM:WER?]
Returns current value of Word Error Rate (3 bit value). Returns -1 if not available.

BER?
[RDCCH:MEASurement:LTM:BER?]
Returns current value of LTM Measurement Bit Error Rate (3 bit value). Returns -1 if not available.

RSS?
[RDCCH:MEASurement:LTM:RSS?]
Returns current value of LTM Measurement Receive Signal Strength (5 bit value). Returns -1 if not available.

FULL?
[RDCCH:MEASurement:LTM:FULL?]
Returns current value of LTM Measurement Full Measurement Indicator (1 bit value). Returns -1 if not available.

STM:

NV?
[RDCCH:MEASurement:STM:NV?]
Returns current value of STM Measurement Number of Values (4 bit value). Returns -1 if not available.

RSS? *n*
[RDCCH:MEASurement:STM:RSS? n]
Returns current 5 bit value of STM Measurement Receive Signal Strength indexed by *n*. Range of *n* is 0 to 15. Returns -1 if not available.

RDCCH:

MEASurement:

OTHER:STM:

LENGth?
[RDCCH:MEASurement:OTHER:STM:LENGth?]
Returns last decoded value of STM Measurement (Other Hyperband) Report Map Length (4 bit value - 1 to 15). Returns -1 if already returned or not available.

REPort?
[RDCCH:MEASurement:OTHER:STM:REPort?]
Returns last decoded value of STM Measurement (Other Hyperband) Report Map (15 bit value - 1 to #h7FFF). Returns -1 if already returned or not available.

RSS? *n*
[RDCCH:MEASurement:OTHER:STM:RSS? n]
Returns last decoded value of STM Measurement (Other Hyperband) ST_RSS (5 bit value) of designated bit position (*n*). Range of *n* is 0 to 14. Returns -1 if already returned or not available.

EMERgency?
[RDCCH:EMERgency?]
Returns current value of Emergency Call (1 bit value). Returns -1 if not available.

LT?
[RDCCH:LT?]
Returns current value of Last Try (1 bit value). Returns -1 if not available.

SERVice?
[RDCCH:SERVice?]
Returns current value of Service Code (4 bit value). Returns -1 if not available.

MODE:

VOICe:

VC?
[RDCCH:MODE:VOICe:VC?]
Returns current value of Voice Mode VC (3 bit value). Returns -1 if not available.

PM?
[RDCCH:MODE:VOICe:PM?]
Returns current value of Voice Mode PM_V (3 bit value). Returns -1 if not available.

RDCCH:

MODE:

DATA:

PM?
[RDCCH:MODE:DATA:PM?]
Returns current value of Data Mode PM_D (3 bit value). Returns -1 if not available.

SAP?
[RDCCH:MODE:DATA:SAP?]
Returns current value of Data Mode SAP (1 bit value). Returns -1 if not available.

ACKED?
[RDCCH:MODE:DATA:ACKED?]
Returns current value of Data Mode Acked Data (1 bit value). Returns -1 if not available.

CRC?
[RDCCH:MODE:DATA:CRC?]
Returns current value of Data Mode CRC (2 bit value). Returns -1 if not available.

PART?
[RDCCH:MODE:DATA:PART?]
Returns current value of Data Mode Data Part (3 bit value). Returns -1 if not available.

RLP?
[RDCCH:MODE:DATA:RLP?]
Returns current value of Data Mode RLP (2 bit value). Returns -1 if not available.

VOICEMode:

NUMBer? -or- NUM?
[RDCCH:VOICEMode:NUMBer?]
Returns the last decoded Number of instances of Voice Mode (3 bit value) in the selected L3DATA Message. Returns -1 if already returned or not available.

VC? *n*
[RDCCH:VOICEMode:VC? n]
Returns the last decoded value of VC from the designated instance of Voice Mode in the selected L3DATA Message. Range of *n* is 0 to 7. Returns -1 if already returned or not available.

PM? *n*
[RDCCH:VOICEMode:PM? n]
Returns the last decoded value of PM_V from the designated instance of Voice Mode in the selected L3DATA Message. Range of *n* is 0 to 7. Returns -1 if already returned or not available.

RDCCH:

MEM:

Message Encryption Mode. Identifies the selected message encryption algorithm, key and domain.

MEA?
[RDCCH:MEM:MEA?]
Returns current value of Message Encryption Algorithm (3 bit value). Returns -1 if not available.

MED?
[RDCCH:MEM:MED?]
Returns current value of Message Encryption Domain (3 bit value). Returns -1 if not available.

MEK?
[RDCCH:MEM:MEK?]
Returns current value of Message Encryption Key (3 bit value). Returns -1 if not available.

BANDWidth?
[RDCCH:BANDWidth?]
Returns current value of Bandwidth (3 bit value). Returns -1 if not available.

CALLED:

Called Party - Identifies the called party associated with a mobile station.

LENGth?
[RDCCH:CALLED:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

TYPE?
[RDCCH:CALLED:TYPE?]
Returns current value of TYPE (3 bit value). Returns -1 if not available.

PLANid?
[RDCCH:CALLED:PLANid?]
Returns current value of PLANid (4 bit value). Returns -1 if not available.

ENCoding?
[RDCCH:CALLED:ENCoding?]
Returns current value of ENCoding (1 bit value). Returns -1 if not available.

ADDRess?
[RDCCH:CALLED:ADDRess?]
Returns current string value of ADDRess (ASCII string). Returns -1 if not available.

RDCCH:

CALLED:

SUBaddress:

Identifies the address of a called or calling party.

LENGth?
[RDCCH:CALLED:SUBaddress:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

ODD_EVEN?
[RDCCH:CALLED:SUBaddress:ODD_EVEN?]
Returns current value of ODD_EVEN (1 bit value). Returns -1 if not available.

TYPE?
[RDCCH:CALLED:SUBaddress:TYPE?]
Returns current value of TYPE (3 bit value). Returns -1 if not available.

REServed?
[RDCCH:CALLED:SUBaddress:REServed?]
Returns the last decoded value of the Called Party Subaddress Reserved fields (4 bit value). Returns -1 if already returned or not available.

ADDRess? *n*
[RDCCH:CALLED:SUBaddress:ADDRess? n]
Returns last decoded 8 bit value of Called Subaddress from selected L3DATA Message (*n*). Range of *n* is 0 to 19. Returns -1 if not available.

CALLING:

Calling Party - Identifies the calling party associated with a mobile station.

LENGth?
[RDCCH:CALLING:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

TYPE?
[RDCCH:CALLING:TYPE?]
Returns current value of TYPE (3 bit value). Returns -1 if not available.

PLANid?
[RDCCH:CALLING:PLANid?]
Returns current value of PLANid (4 bit value). Returns -1 if not available.

ENCoding?
[RDCCH:CALLING:ENCoding?]
Returns current value of ENCoding (1 bit value). Returns -1 if not available.

ADDRess?
[RDCCH:CALLING:ADDRess?]
Returns current string value of ADDRess (ASCII string). Returns -1 if not available.

RDCCH:

CALLING:

PRESentation:

Identifies the presentation restrictions and screening related to the Calling Party information element.

PI?
[RDCCH:CALLING:PRESentation:PI?]
Returns current value of Presentation Indicator (2 bit value). Returns -1 if not available.

SI?
[RDCCH:CALLING:PRESentation:SI?]
Returns current value of Screening Indicator (2 bit value). Returns -1 if not available.

SUBaddress:

Identifies the address of a called or calling party.

LENGth?
[RDCCH:CALLING:SUBaddress:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

ODD_EVEN?
[RDCCH:CALLING:SUBaddress:ODD_EVEN?]
Returns current value of ODD_EVEN (1 bit value). Returns -1 if not available.

TYPE?
[RDCCH:CALLING:SUBaddress:TYPE?]
Returns current value of TYPE (3 bit value). Returns -1 if not available.

REServed?
[RDCCH:CALLING:SUBaddress:REServed?]
Returns the last decoded value of the Calling Party Subaddress Reserved fields (4 bit value). Returns -1 if already returned or not available.

ADDRess? *n*
[RDCCH:CALLING:SUBaddress:ADDRess? n]
Returns last decoded 8 bit value of Calling Subaddress from selected L3DATA Message (*n*). Range of *n* is 0 to 19. Returns -1 if not available.

RDCCH:

RTRANSaction?
[RDCCH:RTRANSaction?]
Returns current value of RTRANSaction (8 bit value). Returns -1 if not available.

RDATA_UNIT:

Contains the Higher Layer Protocol Data Unit and is mandatory in an R-DATA message.

LENGth?
[RDCCH:RDATA_UNIT:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

HLP:

IDentifier?
[RDCCH:RDATA_UNIT:HLP:IDentifier?]
Returns current value of Higher Layer Protocol IDentifier (8 bit value). Returns -1 if not available.

DATA? *n*
[RDCCH:RDATA_UNIT:HLP:DATA? n]
Returns current 8 bit value of Higher Layer Protocol DATA unit indexed by *n*. Range of *n* is 0 to 255. Returns -1 if not available.

MESSage:CENTer:

Identifies the Message Center Address for the message being sent.

LENGth?
[RDCCH:MESSage:CENTer:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

TYPE?
[RDCCH:MESSage:CENTer:TYPE?]
Returns current value of TYPE (3 bit value). Returns -1 if not available.

PLANid?
[RDCCH:MESSage:CENTer:PLANid?]
Returns current value of PLANid (4 bit value). Returns -1 if not available.

ENCoding?
[RDCCH:MESSage:CENTer:ENCoding?]
Returns current value of ENCoding (1 bit value). Returns -1 if not available.

ADDRess?
[RDCCH:MESSage:CENTer:ADDRess?]
Returns current string value of ADDRess (ASCII string). Returns -1 if not available.

RDCCH:

USER:

GROUP:

Identifies the User Group ID that a mobile station has requested or has been allocated.

STATus?
[RDCCH:USER:GROUP:STATUS?]
Returns current value of STATUS (2 bit value). Returns -1 if not available.

TYPE?
[RDCCH:USER:GROUP:TYPE?]
Returns current value of TYPE (2 bit value). Returns -1 if not available.

UGID:

MS?
[RDCCH:USER:GROUP:UGID:MS?]
Returns the 18 Most Significant Bits of User Group Identification.

LS?
[RDCCH:USER:GROUP:UGID:LS?]
Returns the 32 Least Significant Bits of User Group Identification.

DEST:

LENGth?
[RDCCH:USER:DEST:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

TYPE?
[RDCCH:USER:DEST:TYPE?]
Returns current value of TYPE (3 bit value). Returns -1 if not available.

PLANid?
[RDCCH:USER:DEST:PLANid?]
Returns current value of PLANid (4 bit value). Returns -1 if not available.

ENCoding?
[RDCCH:USER:DEST:ENCoding?]
Returns current value of ENCoding (1 bit value). Returns -1 if not available.

ADDRess?
[RDCCH:USER:DEST:ADDRess?]
Returns current string value of ADDRess (ASCII string). Returns -1 if not available.

RDCCH:

USER:

DEST:

SUBaddress:

Identifies the address of a called or calling party.

LENGth?
[RDCCH:USER:DEST:SUBaddress:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

ODD_EVEN?
[RDCCH:USER:DEST:SUBaddress:ODD_EVEN?]
Returns current value of ODD_EVEN (1 bit value). Returns -1 if not available.

TYPE?
[RDCCH:USER:DEST:SUBaddress:TYPE?]
Returns current value of TYPE (3 bit value). Returns -1 if not available.

REServed?
[RDCCH:USER:DEST:SUBaddress:REServed?]
Returns the last decoded value of the User Destination Subaddress Reserved fields (4 bit value). Returns -1 if already returned or not available.

ADDRess? *n*
[RDCCH:USER:DEST:SUBaddress:ADDRess? n]
Returns last decoded 8 bit value of User Destination Subaddress from selected L3DATA Message (*n*). Range of *n* is 0 to 19. Returns -1 if not available.

ORIG:

LENGth?
[RDCCH:USER:ORIG:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

TYPE?
[RDCCH:USER:ORIG:TYPE?]
Returns current value of TYPE (3 bit value). Returns -1 if not available.

PLANid?
[RDCCH:USER:ORIG:PLANid?]
Returns current value of PLANid (4 bit value). Returns -1 if not available.

ENCoding?
[RDCCH:USER:ORIG:ENCoding?]
Returns current value of ENCoding (1 bit value). Returns -1 if not available.

ADDRess?
[RDCCH:USER:ORIG:ADDRess?]
Returns current string value of ADDRess (ASCII string). Returns -1 if not available.

RDCCH:

USER:

ORIG:

PRESentation:

PI?
[RDCCH:USER:ORIG:PRESentation:PI?]
Returns current value of Presentation Indicator (2 bit value). Returns -1 if not available.

SI?
[RDCCH:USER:ORIG:PRESentation:SI?]
Returns current value of Screening Indicator (2 bit value). Returns -1 if not available.

SUBaddress:

Identifies the address of a called or calling party.

LENGth?
[RDCCH:USER:ORIG:SUBaddress:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

ODD_EVEN?
[RDCCH:USER:ORIG:SUBaddress:ODD_EVEN?]
Returns current value of ODD_EVEN (1 bit value). Returns -1 if not available.

TYPE?
[RDCCH:USER:ORIG:SUBaddress:TYPE?]
Returns current value of TYPE (3 bit value). Returns -1 if not available.

REServed?
[RDCCH:USER:ORIG:SUBaddress:REServed?]
Returns the last decoded value of the User Originating Subaddress Reserved fields (4 bit value). Returns -1 if already returned or not available.

ADDRess? *n*
[RDCCH:USER:ORIG:SUBaddress:ADDRess? n]
Returns last decoded 8 bit value of User Origination Subaddress from selected L3DATA Message (*n*). Range of *n* is 0 to 19. Returns -1 if not available.

RDCCH:

RDATA:DELay?
[RDCCH:RDATA:DELay?]
Returns the last decoded value of R-DATA Delay (4 bit value) from the selected L3DATA Message. Returns -1 if already returned or not available.

RCAUSe?
[RDCCH:RCAUSe?]
Returns current value of R-Cause (7 bit value - 1 to 127) from the selected L3DATA Message. Returns -1 if already returned or not available.

RCAUSe:REServed?
[RDCCH:RCAUSe:REServed?]
Returns current value of the Reserved field (1 bit value) of R-Cause from the selected L3DATA Message. Returns -1 if already returned or not available.

REG:TYPE?
[RDCCH:REG:TYPE?]
Returns current value of Registration Type (4 bit value). Returns -1 if not available.

CNUMBer:

LENGth?
[RDCCH:CNUMBer:LENGth?]
Returns current value of LENGth (8 bit value). Returns -1 if not available.

TYPE?
[RDCCH:CNUMBer:TYPE?]
Returns current value of C-Number Type of Number (3 bit value). Returns -1 if not available.

PLANid?
[RDCCH:CNUMBer:PLANid?]
Returns current value of C-Number Identification Plan (4 bit value). Returns -1 if not available.

ENCoding?
[RDCCH:CNUMBer:ENCoding?]
Returns current value of C-Number Address Encoding (1 bit value). Returns -1 if not available.

ADDRess?
[RDCCH:CNUMBer:ADDRess?]
Returns current string value of C-Number Address (ASCII string). Returns -1 if not available.

RDCCH:

PFC:REQuest?
[RDCCH:PFC:REQuest?]

Returns current value of Paging Frame Class Request (3 bit value). Returns -1 if not available.

SID_REPort?
[RDCCH:SID_REPort?]

Returns the last decoded value of SIDs-p (15 bit value). Returns -1 if already returned or not available.

SOC?
[RDCCH:SOC?]

Returns current value of SOC (12 bit value). Returns -1 if not available.

ESN?
[RDCCH:ESN?]

Returns current value of Electronic Serial Number (32 bit value). Returns -1 if not available.

CONFIRMed:MSGtype?
[RDCCH:CONFIRMed:MSGtype?]

Returns current value of Confirmed Message Type (6 bit value). Returns -1 if not available.

SSDUP:STATus?
[RDCCH:SSDUP:STATus?]

Returns current value of SSD Update Status (2 bit value). Returns -1 if not available.

AUTHU?
[RDCCH:AUTHU?]

Returns current value of AUTHU (18 bit value). Returns -1 if not available.

9-12 CELL SITE SIMULATION COMMANDS

Refer to 10-8 for command guidelines and programming examples.

9-12-1 GENERAL

CSS:

SETup
[CSS:SETup]
Sets up the Sp Tst as when entering the first Cell Site Simulation screen (screen is not displayed). The Sp Tst is set up to transmit on Forward channels and receive on Reverse channels. The HOST is forced into Duplex Mode through selection of Duplex screen. (The HOST is not transmitting at this point.)

Sets up the following default settings:

- No secondary cycles (equivalent command: **CSS:FOCC:OVER:NUMBer 0**).
- Length of primary cycle to 16 words (equivalent command: **CSS:FOCC:OVER:LENGth 0,16**).
- Select primary cycle (equivalent command: **CSS:FOCC:OVER:SELect 0**).

CONFigure:

USER
[CSS:CONFigure:USER]
This command is identical to the **CSS:SETup** command except that the USER screen is selected.

NONE
[CSS:CONFigure:NONE]
This command is identical to the **CSS:SETup** command except that the Test Set remains in the screen currently displayed.

CHANnel *n*
[CSS:CHANnel n]
Selects Forward Control Channel for sending Overhead Messages.

FREQuency:BAND (See 9-3)	**RANGE OF** *n*
0	1 to 333
1	1 to 1023
2	1 to 1999

CHANnel?
[CSS:CHANnel?]
Returns current value of CHANnel.

RATE *n*
[CSS:RATE n]
Selects Rate: full (*n* = 0) or half (*n* = 1).

RATE?
[CSS:RATE?]
Returns current state of RATE.

CSS:

RFLVL *n*
[CSS:RFLVL n]
Specifies RF output level in dBm at which to transmit. Range of *n* is -127.0 to -20.0.

RFLVL?
[CSS:RFLVL?]
Returns current value of RF Level.

SLOT *n*
[CSS:SLOT n]
Specifies the full rate pair or half rate slot in which to transmit. Range of *n* is 1 to 3 (full) or 1 to 6 (half).

SLOT?
[CSS:SLOT?]
Returns current value of SLOT.

STARt
[CSS:STARt]
Starts Cell Site Simulation transmission (Overhead Message on FOCC).

STOP
[CSS:STOP]
Stops Cell Site Simulation transmission.

9-12-2 FOCC OVERHEAD MESSAGE PARAMETERS

A. DEFINITIONS

Cycle: Time or all words between the beginning of a Overhead Message Train (OMT) to the beginning of the next OMT.

OMT: Portion of cycle containing system parameter words, global action words, Registration ID word and/or DCCH information word.

Control Fillers: Words that occupy the unused portion of a cycle.

B. PROGRAMMING PROCEDURE FOR FOCC

- The Overhead Message parameters are transmitted within 11 to 21 word cycles. Each word is 463 bits long. The data rate is 10 kilobaud, making the length of each word 46.3 ms long.
- The length of an Overhead Message Train may be less than the length of the associated cycle. Control Fillers make up the difference.
- Up to five programmable cycles may be sent: 1 Primary and 4 Secondary (optional).

  Each *secondary* cycle is sent at a independently specified ratio to the primary cycle. The range of the programmable ratio is 1:1 to 1:65535. (Example: Given that the ratio of a selected secondary cycle is 1:3, then the secondary cycle is sent along with every third Primary cycle.) See the examples in Figure 9-2. A Global Action message may be sent once or repeatedly in the primary cycle.

- Each cycle consists of the following:

  1. Two System Parameter words. (The System Parameter words and Control Fillers are standard with each cycle.)
  2. Enabled DCCH Information word.
  3. Enabled Global Action messages.
  4. Enabled Registration ID word.
  5. Mobile Station Control Messages.

  OMT building blocks

  6. Control Fillers take the place of unused words.
  7. RAW words. (After building an OMT, any word may be replaced with a RAW word. Rebuilding an OMT erases the RAW word.)

- The user builds an OMT using TMAC commands. To build an overhead message train use the following steps (refer to Section 10-8 for programming examples):

Set up

1. Select the number of secondary cycles.
2. Select the ratio of each of the secondary cycles to the primary cycle.
3. Select the Length, in words, for each cycle.
4. Select the primary cycle.

Select Contents and Build

5. Enable/disable DCCH Information word.
6. Enable/disable Registration ID word.
7. Program the data fields associated with the Overhead Messages.
8. Build the OMT.

Secondary Cycles

9. Select each secondary OMT, then select the contents and build, as desired.

Example #1

Given: 3 Secondary Cycles have been selected and built.

Secondary Cycle #1 (S1) has a specified ratio to the Primary Cycle (P) of 2:1.
Secondary Cycle #2 (S2) has a ratio of 3:1.
Secondary Cycle #3 (S3) has a ratio of 4:1.

Therefore, the FOCC Cell Site simulated transmission is as follows:

# of Occurrences of Primary Cycle	1	2		3		4			5	6			7	8			9		10			•••
Cycle	P	P	S1	P	S2	P	S1	S3	P	P	S1	S2	P	P	S1	S3	P	S2	P	S1	S3	

Example #2:

Given: 4 Secondary Cycles have been selected and built.

S1 ratio is 1:1.
S2 ratio is 2:1.
S3 ratio is 5:1.
S4 ratio is 10:1.

Therefore:

1		2			3		4			5			6			7		8			9		continued below
P	S1	P	S1	S2	P	S1	P	S1	S2	P	S1	S3	P	S1	S2	P	S1	P	S1	S2	P	S1	

→

10					11		12			13		14			15			16			17		continued below
P	S1	S2	S3	S4	P	S1	P	S1	S2	P	S1	P	S1	S2	P	S1	S3	P	S1	S2	P	S1	

→

18			19		20					21		22			23		24			25				•••
P	S1	S2	P	S1	P	S1	S2	S3	S4	P	S1	P	S1	S2	P	S1	P	S1	S2	P	S1	S2	S3	

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Figure 9-2 Examples of Primary and Secondary Cycles

CSS:

FOCC:

ASYNC *n*
[CSS:FOCC:ASYNC n]
Sets ASYNC bit in the DCCH information word. (0 indicates ASYNC data is not supported; 1 indicates ASYNC data is supported.)

ASYNC?
[CSS:FOCC:ASYNC?]
Returns ASYNC setting (1 bit value) in the DCCH information word.

AUTH *n*
[CSS:FOCC:AUTH n]
Enables (*n* = 1) or disables (*n* = 0) Authentication.

AUTH?
[CSS:FOCC:AUTH?]
Returns current state of Authentication.

B_I *n*
[CSS:FOCC:B_I n]
Enables (*n* = 1) or disables (*n* = 0) Busy-Idle.

CMAC *n*
[CSS:FOCC:CMAC n]
Sets Control Mobile Attenuation Code. Range of *n* is 0 to 7.

CMAC?
[CSS:FOCC:CMAC?]
Returns Control Mobile Attenuation Code setting.

CMAX *n*
[CSS:FOCC:CMAX n]
Sets maximum Number of Channels to be scanned by Mobile Station when accessing a system. Range of *n* is 1 to 32.

CMAX?
[CSS:FOCC:CMAX?]
Returns maximum Number of Channels to be scanned by Mobile Station setting.

DCC *n*
[CSS:FOCC:DCC n]
Sets Digital Color Code. Range of *n* is 0 to 3.

DCC?
[CSS:FOCC:DCC?]
Returns Digital Color Code setting.

CSS:

FOCC:

DCCHan *n*
[CSS:FOCC:DCCHan n]
Sets Channel Number in the DCCH information word. Range of *n* is 1 to 1023.

DCCHan?
[CSS:FOCC:DCCHan?]
Returns Channel Number setting (9 bit value) in the DCCH information word.

DPRIVacy *n*
[CSS:FOCC:DPRIVacy n]
Sets Data Privacy bit in the DCCH information word. (0 indicates data privacy not supported; 1 indicates data privacy supported.)

DPRIVacy?
[CSS:FOCC:DPRIVacy?]
Returns DPRIVacy bit setting (1 bit value) in the DCCH information word.

E *n*
[CSS:FOCC:E n]
Enables (*n* = 1) or disables (*n* = 0) Extended Address.

E?
[CSS:FOCC:E?]
Returns current state of Extended Address.

EP *n*
[CSS:FOCC:EP n]
Enables (*n* = 1) or disables (*n* = 0) Extended Protocol.

EP?
[CSS:FOCC:EP?]
Returns current state of Extended Protocol.

G3FAX *n*
[CSS:FOCC:G3FAX n]
Sets G3 Fax bit in the DCCH information word. (0 indicates G3 Fax not supported; 1 indicates G3 Fax is supported.)

G3FAX?
[CSS:FOCC:G3FAX?]
Returns G3FAX setting (1 bit value) in the DCCH information word.

HYPERband *n*
[CSS:FOCC:HYPERband n]
Sets Hyperband field in the DCCH information word. (Indicates Hyperband: 00 = 800 MHz; 01 = 1900 MHz.)

HYPERband?
[CSS:FOCC:HYPERband?]
Returns Hyperband setting (2 bit value) in the DCCH information word.

CSS:

FOCC:

N *n*
[CSS:FOCC:N n]
Sets Number of Paging Channels to be scanned by Mobile Station. Range of *n* is 1 to 32.

N?
[CSS:FOCC:N?]
Returns Number of Paging Channels to be scanned by Mobile Station setting.

OVER:

BUILD
[CSS:FOCC:OVER:BUILD]
This command is used to construct Primary and Secondary cycles. This command is required to construct the Primary cycle only when Secondary cycles are used.

Two System Parameter words are always present in the OMT. The DCCH information word, Global Action messages and/or a Registration ID message are optional in the OMT.

The build process first checks to see which of the optional overhead message types have been enabled.

- The optional Global Action messages are enabled by the **CSS:GLACT:ACTion:** *(action name) n* command.
- The optional Registration ID message is enabled by the **CSS:ENABLE:REGID** *n* command.
- The optional DCCH information word is enabled by the **CSS:ENABLE:DCCH** *n* command.

After the enable messages are determined, the OMT can be built. The unused words in the cycle are filled with Control Filler words.

Any RAW words previously programmed in the OMT are overwritten by the **BUILD** command.

NUMBer *n* **-or- NUM** *n*
[CSS:FOCC:OVER:NUMBer n]
Selects the number of secondary cycles to be programmed. Range of *n* is 0 to 4.

CSS:

FOCC:

OVER:

LENGth *n,m*
[CSS:FOCC:OVER:LENGth n,m]
Specifies the length (*m*), in word slots, of the selected cycle (*n*). Range of *n* is 0 to 4; range of *m* is 11 to 21.

RATio *n,m*
[CSS:FOCC:OVER:RATio n,m]
Specifies the number (*m*) of primary cycles to transmit for the selected secondary cycle (*n*). Range of *n* is 1 to 4; range of *m* is 1 to 65535.

SELect *n*
[CSS:FOCC:OVER:SELect n]
Selects the cycle to be built.

n = 0, Primary cycle is selected.
n = 1, 1st Secondary cycle is selected.
n = 2, 2nd Secondary cycle is selected.
n = 3, 3rd Secondary cycle is selected.
n = 4, 4th Secondary cycle is selected.

PCI *n*
[CSS:FOCC:PCI n]
Enables (*n* = 1) or disables (*n* = 0) Protocol Capability Indicator.

PCI?
[CSS:FOCC:PCI?]
Returns current state of Protocol Capability Indicator.

RAW *n,x*
[CSS:FOCC:RAW n,x]
Programs a RAW word (*x*) into the selected word slot (*n*) in the selected cycle. Range of *n* is 0 to 21; range of *x* is 0 to FFFFFFF (hexadecimal). (FFFFFFF [hexadecimal] is entered as #hFFFFFFF.)

The cycle is selected by the **CSS:FOCC:OVER:SELect** *n* command.

RCF *n*
[CSS:FOCC:RCF n]
Enables (*n* = 1) or disables (*n* = 0) Read Control Filler.

RCF?
[CSS:FOCC:RCF?]
Returns current state Read Control Filler.

CSS:

FOCC:

REGH *n*
[CSS:FOCC:REGH n]
Enables (*n* = 1) or disables (*n* = 0) Home Registration.

REGH?
[CSS:FOCC:REGH?]
Returns current state of Home Registration.

REGID *n*
[CSS:FOCC:REGID n]
Sets the REGID field in the Registration ID message. Range of n is 0 to #hFFFFF.

REGID?
[CSS:FOCC:REGID?]
Returns REGID setting (20 bit value) in the Registration ID message.

REGR *n*
[CSS:FOCC:REGR n]
Enables (*n* = 1) or disables (*n* = 0) Roaming Registration.

REGR?
[CSS:FOCC:REGR?]
Returns current state of Roaming Registration.

S *n*
[CSS:FOCC:S n]
Enables (*n* = 1) or disables (*n* = 0) Serial Number.

S?
[CSS:FOCC:S?]
Returns current state of Serial Number.

SDCC1 *n*
[CSS:FOCC:SDCC1 n]
Sets Supplementary Digital Color Code 1. Range of *n* is 0 to 3.

SDCC1?
[CSS:FOCC:SDCC1?]
Returns Supplementary Digital Color Code 1 setting.

SDCC2 *n*
[CSS:FOCC:SDCC2 n]
Sets Supplementary Digital Color Code 2. Range of *n* is 0 to 3.

SDCC2?
[CSS:FOCC:SDCC2?]
Returns Supplementary Digital Color Code 2 setting.

CSS:

FOCC:

SID *n*
[CSS:FOCC:SID n]
Sets System Identification Number (14 most significant digits). Range of *n* is 0 to 32767.

SID?
[CSS:FOCC:SID?]
Returns System Identification Number setting.

WFOM *n*
[CSS:FOCC:WFOM n]
Enables (*n* = 1) or disables (*n* = 0) Wait For Overhead Message.

WFOM?
[CSS:FOCC:WFOM?]
Returns current state of Wait For Overhead Message.

9-12-3 CALLING SETUP

CSS:CALL:

CHANnel *n*
[CSS:CALL:CHANnel n]
Selects Digital Traffic Channel or Voice Channel the call to which the Mobile Station is assigned. Range of *n* is 1 to 1023.

CHANnel?
[CSS:CALL:CHANnel?]
Returns Digital Traffic Channel or Voice Channel the call to which the Mobile Station is assigned (1 to 1023).

DEViation *n*
[CSS:CALL:DEViation n]
Sets SAT Deviation in kHz. Range of *n* is 0.0 to 4.0.

DEViation?
[CSS:CALL:DEViation?]
Returns SAT Deviation in kHz setting.

DMAC *n*
[CSS:CALL:DMAC n]
Selects Digital Mobile Attenuation Code. Range of *n* is 0 to 7.

DMAC?
[CSS:CALL:DMAC?]
Returns Digital Mobile Attenuation Code setting.

DVCC *n*
[CSS:CALL:DVCC n]
Selects Digital Verification Color Code. Range of *n* is 0 to 255.

DVCC?
[CSS:CALL:DVCC?]
Returns Digital Verification Color Code setting.

EF *n*
[CSS:CALL:EF n]
Sets Extended Protocol Forward Channel Indicator (1 or 0).

EF?
[CSS:CALL:EF?]
Returns Extended Protocol Forward Channel Indicator setting.

MEM *n*
[CSS:CALL:MEM n]
Sets Message Encryption Mode (1 or 0).

MEM?
[CSS:CALL:MEM?]
Returns Message Encryption Mode setting.

CSS:CALL:

MIN *"n"*
[CSS:CALL:MIN "n"]
Selects Mobile Identification Number to call. The Mobile Identification Number (*n*) is entered as a string, with quotation marks.

Example: `CSS:CALL:MIN "316/522-4981"`

MIN?
[CSS:CALL:MIN?]
Returns MIN currently selected.

PM *n*
[CSS:CALL:PM n]
Sets Privacy Mode bit (1 or 0).

PM?
[CSS:CALL:PM?]
Returns Privacy Mode bit setting.

SAT *n*
[CSS:CALL:SAT n]
Sets Supervisory Audio Tone in Hz. Range of *n* is 5965 to 6035.

SAT?
[CSS:CALL:SAT?]
Returns Supervisory Audio Tone setting.

SLOT *n*
[CSS:CALL:SLOT n]
Selects Timeslot. Range of *n* is 1 to 3.

SLOT?
[CSS:CALL:SLOT?]
Returns Timeslot setting.

TYPE *n*
[CSS:CALL:TYPE n]
Selects channel type. Valid selections: 0 = Analog, 1 = IS-54, 2 = IS136.

TYPE?
[CSS:CALL:TYPE?]
Returns current value of channel type.

VC *n*
[CSS:CALL:VC n]
Selects Vocoder type. Valid selections: 1 = VSELP, 2 = ACELP

VC?
[CSS:CALL:VC?]
Returns current value of Vocoder type.

VMAC *n*
[CSS:CALL:VMAC n]
Selects Voice Mobile Attenuation Code. Range of *n* is 0 to 7.

VMAC?
[CSS:CALL:VMAC?]
Returns Voice Mobile Attenuation Code setting.

9-12-4 PROCESS AND HANDOFF

CSS:

CALL:PROCess:

ASSIGNment
[CSS:CALL:PROCess:ASSIGNment]
Sends an initial channel designation command to the Mobile Station. After sending the channel designation, the SP TST changes the channel and mode to transmit and receive on the assigned channel.

The voice or traffic channel designation message is placed into the selected primary or secondary cycle. The user needs to be careful that the secondary cycle chosen is transmitted often enough to meet the timing requirements of the mobile system being tested. If the secondary cycle that is chosen is programmed to be transmitted at a very low ratio to the primary, the mobile system may time out before the message is sent.

This command times out if the message can not be sent out in less than 7 seconds.

MOBINIT
[CSS:CALL:PROCess:MOBINIT]
Sets up the SP TST for a call initiated by the Mobile Station. The Busy-Idle bit changes from a 1 to a 0 at the correct time to enable the access to occur. An access sends an SRQ=1 on the GPIB (if **GPIB:MASK 1** had been initiated before the **CSS:CALL:PROCess:MOBINIT**) and sets the status bit returned by the **CSS:RECC:STATus?** query.

PAGE
[CSS:CALL:PROCess:PAGE]
Simulates a Base Station (Cell Site) initiated call.

The Page is placed into the selected primary or secondary cycle. The Page remains as a permanent part of the selected cycle until the cycle is rebuilt. The cycle is rebuilt with the **CSS:FOCC:OVER:BUILD** command.

CSS:

CALL:PROCess:

REGistration
[CSS:CALL:PROCess:REGistration]
Causes the Mobile Station to send a Registration message. An access by the Mobile Station sends an SRQ=1 on the GPIB (if **GPIB:MASK 1** had been initiated before the **CSS:CALL:PROCess:REGistration**) and sets the status bit returned by the **CSS:RECC:STATus?** query. The **RECC:TORDer?** query verifies the registration order was or was not received.

The selected cycle is rebuilt to contain an Overhead Message Train (OMT) that causes the phone to auto register. To change back to the previous OMT, use the **CSS:FOCC:OVER:BUILD** command.

FVC:

HANDoff
[CSS:CALL:PROCess:FVC:HANDoff]
Sends an analog to analog handoff order to the Mobile Station. The **CSS:FVC:HAND:CHAN** *n* command specifies the new analog Voice Channel. After the handoff order, the SP TST changes to the specified Voice Channel.

SLOT1
[CSS:CALL:PROCess:FVC:SLOT1]
Sends an analog to digital handoff order (to Timeslot 1) to the Mobile Station. The **CSS:FVC:HAND:CHAN** *n* command specifies the new Digital Traffic Channel. After the handoff order, the SP TST changes to the specified Digital Traffic Channel.

SLOT2
[CSS:CALL:PROCess:FVC:SLOT2]
Sends an analog to digital handoff order (to Timeslot 2) to the Mobile Station. The **CSS:FVC:HAND:CHAN** *n* command specifies the new Digital Traffic Channel. After the handoff order, the SP TST changes to the specified Digital Traffic Channel.

SLOT3
[CSS:CALL:PROCess:FVC:SLOT3]
Sends an analog to digital handoff order (to Timeslot 3) to the Mobile Station. The **CSS:FVC:HAND:CHAN** *n* command specifies the new Digital Traffic Channel. After the handoff order, the SP TST changes to the specified Digital Traffic Channel.

FDTC:HANDoff?
[CSS:CALL:PROCess:FDTC:HANDoff?]
Performs a digital to digital (**CSS:FDTC:TI?** ≠ 0), or digital to analog (**CSS:FDTC:TI?** = 0) handoff and returns a 1 if successful or a 0 if not successful. If successful, the SP TST changes to the channel specified by the **CSS:FDTC:HAND:CHAN** *n* command.

RECC:

STATus?
[CSS:RECC:STATus?]
Returns access with the Mobile Station status (0 indicates no access has occurred; 1 indicates an access has occurred).

9-12-5 FORWARD VOICE CHANNEL (FVC)

CSS:FVC:

STARt
[CSS:FVC:STARt]
Starts the SP TST transmitting on the Forward Voice Channel.

STOP
[CSS:FVC:STOP]
Stops the Forward Voice Channel.

Data commands set the data in the messages and order commands send the orders (messages).

A. FVC ORDERS

CSS:FVC:

ORDER:

ALERT
[CSS:FVC:ORDER:ALERT]
Sends the Alert message.

ALERTWinfo
[CSS:FVC:ORDER:ALERTWinfo]
Sends the Alert with Information message.

ASYNC_PAGE
[CSS:FVC:ORDER:ASYNC_PAGE]
Sends the Page message (Async Data).

AUDIT
[CSS:FVC:ORDER:AUDIT]
Sends the Audit order.

BSCHALCON
[CSS:FVC:ORDER:BSCHALCON]
Sends the Base Station Challenge Confirmation message.

CALLMODEACK
[CSS:FVC:ORDER:CALLMODEACK]
Sends the Call Mode Acknowledgment message.

DISDTMF
[CSS:FVC:ORDER:DISDTMF]
Sends the Disable DTMF message.

DISMEM
[CSS:FVC:ORDER:DISMEM]
Sends the Message Encryption Mode order with disable indication.

ENAMEM
[CSS:FVC:ORDER:ENAMEM]
Sends the Message Encryption Mode order with enable indication.

CSS:FVC:

ORDER:

FLASHWinfo
[CSS:FVC:ORDER:FLASHWinfo]
Sends the Flash with Information message.

G3_MSG_WTG
[CSS:FVC:ORDER:G3_MSG_WTG]
Sends the G3-Fax Message Waiting message.

G3_PAGE
[CSS:FVC:ORDER:G3_PAGE]
Sends the Page message (Group 3 Fax).

HANDoff
[CSS:FVC:ORDER:HANDoff]
Sends the Handoff message. (For complete handoff testing, use the **CSS:CALL:PROCess** commands.)

IS136:

SLOT1
[CSS:FVC:ORDER:IS136:SLOT1]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 1, Full-Rate message type (VSELP).

SLOT2
[CSS:FVC:ORDER:IS136:SLOT2]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 2, Full-Rate message type (VSELP).

SLOT3
[CSS:FVC:ORDER:IS136:SLOT3]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 3, Full-Rate message type (VSELP).

IS641:

SLOT1
[CSS:FVC:ORDER:IS136:IS641:SLOT1]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 1, Full-Rate message type (ACELP).

SLOT2
[CSS:FVC:ORDER:IS136:IS641:SLOT2]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 2, Full-Rate message type (ACELP).

SLOT3
[CSS:FVC:ORDER:IS136:IS641:SLOT3]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 3, Full-Rate message type (ACELP).

CSS:FVC:

ORDER:

LC
CSS:FVC:ORDER:LC
Sends the Local Control message.

MAINTenance
[CSS:FVC:ORDER:MAINTenance]
Sends the Maintenance message.

MSGWTG
[CSS:FVC:ORDER:MSGWTG]
Sends the Message Waiting message.

PAGE
[CSS:FVC:ORDER:PAGE]
Sends the Page order.

PU
[CSS:FVC:ORDER:PU]
Sends the Parameter Update message.

PWRLVL
[CSS:FVC:ORDER:PWRLVL]
Sends the Power Level message.

RELease
[CSS:FVC:ORDER:RELease]
Sends the Release message.

RELEASE_COMPlete
[CSS:FVC:ORDER:RELEASE_COMPlete]
Send a Release Complete with Information message.

RELEASE_Winfo
[CSS:FVC:ORDER:RELEASE_Winfo]
Sends the Release with DCCH Information message.

SALERT
[CSS:FVC:ORDER:SALERT]
Sends the Stop Alert message.

CSS:FVC:

ORDER:

SLOT1
[CSS:FVC:ORDER:SLOT1]
Sends the Handoff to Digital Traffic Channel on Timeslot 1 message. (For complete handoff testing, use the **CSS:CALL:PROCess** commands.)

SLOT2
[CSS:FVC:ORDER:SLOT2]
Sends the Handoff to Digital Traffic Channel on Timeslot 2 message. (For complete handoff testing, use the **CSS:CALL:PROCess** commands.)

SLOT3
[CSS:FVC:ORDER:SLOT3]
Sends the Handoff to Digital Traffic Channel on Timeslot 3 message. (For complete handoff testing, use the **CSS:CALL:PROCess** commands.)

SMS_MSG_WTG
[CSS:FVC:ORDER:SMS_MSG_WTG]
Sends the SMS Message Waiting message.

SNDAddr
[CSS:FVC:ORDER:SNDAddr]
Sends the Send Called Address message.

SNRreq
[CSS:FVC:ORDER:SNRreq]
Sends the Serial Number Request message.

SSDUP
[CSS:FVC:ORDER:SSDUP]
Sends the Shared Secret Data Update message.

UCHAL
[CSS:FVC:ORDER:UCHAL]
Sends the Unique Challenge message.

VOICE_MSG_WTG
[CSS:FVC:ORDER:VOICE_MSG_WTG]
Sends the Voice Message Waiting message.

B. FVC DATA FIELDS

CSS:FVC:

AUTHBS *n*
[CSS:FVC:AUTHBS n]
Sets the AUTHBS value. Range of *n* is 0 to 262143.

AUTHBS?
[CSS:FVC:AUTHBS?]
Returns AUTHBS value setting.

CALLING:

NUM *"n"*
[CSS:FVC:CALLING:NUM "n"]
Sets Calling Party Number. The number *n* is entered as a string, with quotation marks (i.e., "316/522-4981").

NUM?
[CSS:FVC:CALLING:NUM?]
Returns Calling Party Number setting (string).

PI *n*
[CSS:FVC:CALLING:PI n]
Sets Calling Party Number Presentation Indicator. Range of *n* is 0 to 3.

PI?
[CSS:FVC:CALLING:PI?]
Returns Calling Party Number Presentation Indicator setting.

SI *n*
[CSS:FVC:CALLING:SI n]
Sets Calling Party Screening Indicator. Range of *n* is 0 to 3.

SI?
[CSS:FVC:CALLING:SI?]
Returns Calling Party Screening Indicator setting.

DMAC *n*
[CSS:FVC:DMAC n]
Sets Digital Mobile Attenuation Code. Range of *n* is 0 to 10.

DMAC?
[CSS:FVC:DMAC?]
Returns Digital Mobile Attenuation Code setting.

DVCC *n*
[CSS:FVC:DVCC n]
Sets Digital Verification Color Code. Range of *n* is 1 to 255.

DVCC?
[CSS:FVC:DVCC?]
Returns Digital Verification Color Code setting.

CSS:FVC:

EF *n*
[CSS:FVC:EF n]
Enables (*n* = 1) or disables (*n* = 0) Extended Protocol Forward Channel Indicator.

EF?
[CSS:FVC:EF?]
Returns current state of Extended Protocol Forward Channel Indicator.

ENABLE:

VOICEPrivacy *n*
[CSS:FVC:ENABLE:VOICEPrivacy n]
Enables (*n* = 1) or disables (*n* = 0) the Voice Privacy in the Call Mode Acknowledgment message.

VOICEPrivacy?
[CSS:FVC:ENABLE:VOICEPrivacy?]
Returns current state of Voice Privacy.

HANDoff:

CHANnel *n*
[CSS:FVC:HANDoff:CHANnel n]
Sets analog Voice or Digital Traffic Channel for Handoff. Range of *n* is 0 to 2047. (Use the **CSS:CALL:PROCess** commands to initiate Handoff.)

CHANnel?
[CSS:FVC:HANDoff:CHANnel?]
Returns Channel for Handoff setting.

HYPERband *n*
[CSS:FVC:HYPERband n]
Specifies Hyperband. Range of *n* is 0 to 3.

HYPERband?
[CSS:FVC:HYPERband?]
Returns current value of Hyperband.

LOCAL *n*
[CSS:FVC:LOCAL n]
Sets the Local Control field used in the Local Control message. Range of *n* is 0 to 31.

LOCAL?
[CSS:FVC:LOCAL?]
Returns the Local Control field setting.

MEM *n*
[CSS:FVC:MEM n]
Enables (*n* = 1) or disables (*n* = 0) Message Encryption Mode.

MEM?
[CSS:FVC:MEM?]
Returns current state of Message Encryption Mode.

CSS:FVC:

MT *n*
[CSS:FVC:MT n]
Sets the Message Type field. Range of *n* is 0 to 31.

MT?
[CSS:FVC:MT?]
Returns the Message Type field setting.

PM *n*
[CSS:FVC:PM n]
Enables (*n* = 1) or disables (*n* = 0) Privacy Mode.

PM?
[CSS:FVC:PM?]
Returns current state of Privacy Mode.

PSCC *n*
[CSS:FVC:PSCC n]
Sets Present SAT Color Code. Range of *n* is 0 to 2.

PSCC?
[CSS:FVC:PSCC?]
Returns Present SAT Color Code setting.

PVI *n*
[CSS:FVC:PVI n]
Enables (*n* = 1) or disables (*n* = 0) Protocol Version Indicator.

PVI?
[CSS:FVC:PVI?]
Returns current state of PVI.

PWRLVL *n*
[CSS:FVC:PWRLVL n]
Sets Power Level requested of Mobile Station in the Power Level message. Range of *n* is 0 to 7.

PWRLVL?
[CSS:FVC:PWRLVL?]
Returns requested Power Level setting.

RANDSSD *"n"*
[CSS:FVC:RANDSSD "n"]
Sets the 56 bit Random Number sent in the Shared Secret Data Update message. The number *n* is entered in hexadecimal as a string, with quotation marks (i.e., "4A59BE232F9C26").

RANDSSD?
[CSS:FVC:RANDSSD?]
Returns the Shared Secret Data 56 bit Random Number setting (string).

CSS:FVC:

RANDU *n*
[CSS:FVC:RANDU n]
Sets the 24 bit Random Number sent in the Unique Challenge message. Range of *n* is 0 to 16777215.

RANDU?
[CSS:FVC:RANDU?]
Returns the Unique Challenge 24 bit Random Number setting.

SAT *n*
[CSS:FVC:SAT n]
Specifies the SAT frequency on the FVC. Range of *n* is 0 or 5965 to 6035.

SAT?
[CSS:FVC:SAT?]
Returns current value of SAT.

SBI *n*
[CSS:FVC:SBI n]
Sets Shortened Burst Indicator. Range of *n* is 0 to 3.

SBI?
[CSS:FVC:SBI?]
Returns Shortened Burst Indicator setting.

SCC *n*
[CSS:FVC:SCC n]
Sets Supervisory Audio Tone Color Code. Range of *n* is 0 to 2.

SCC?
[CSS:FVC:SCC?]
Returns Supervisory Audio Tone Color Code setting.

SIGNAL:

PITCH *n*
[CSS:FVC:SIGNAL:PITCH n]
Sets the pitch of the Alert tone. Range of *n* is 0 to 3.

PITCH?
[CSS:FVC:SIGNAL:PITCH?]
Returns Alert tone pitch setting.

CADENCE *n*
[CSS:FVC:SIGNAL:CADENCE n]
Sets the on, off pattern of the Alert tone. Range of *n* is 0 to 63.

CADENCE?
[CSS:FVC:SIGNAL:CADENCE?]
Returns the Alert tone on-off pattern setting.

CSS:FVC:

TA *n*
[CSS:FVC:TA n]
Sets Time Alignment. Range of *n* is 0 to 31.

TA?
[CSS:FVC:TA?]
Returns Time Alignment setting.

VMAC *n*
[CSS:FVC:VMAC n]
Sets Voice Mobile Attenuation Code. Range of *n* is 0 to 7.

VMAC?
[CSS:FVC:VMAC?]
Returns Voice Mobile Attenuation Code setting.

9-12-6 FORWARD DIGITAL TRAFFIC CHANNEL (FDTC)

CSS:FDTC:

STARt
[CSS:FDTC:STARt]
Starts the SP TST transmitting on the Forward Digital Traffic Channel.

STOP
[CSS:FDTC:STOP]
Stops the Forward Digital Traffic Channel.

SET:TA *n*
[CSS:FDTC:SET:TA n]
Specifies time alignment adjustment from Standard Offset Reference (SOR) in half symbols. Range of *n* is 0 to 60.

Used to match the time alignment of the Mobile Station.

Data commands set the data in the messages and order commands send the orders (messages). **CSS:FDTC:ENABLE** commands enable or disable optional fields. **CSS:FDTC:FACCH:** commands pertain to the blank and burst Fast Associated Control Channel (FACCH). **CSS:FDTC:SACCH:** commands pertain to the continuous Slow Associated Control Channel (SACCH).

A. FDTC ORDERS

CSS:FDTC:

FACCH: or **SACCH:**

ALERT
[CSS:FDTC:FACCH: or SACCH:ALERT]
Sends the Alert with Information message.

AUDIT
[CSS:FDTC:FACCH: or SACCH:AUDIT]
Sends the Audit message.

BSACK
[CSS:FDTC:FACCH: or SACCH:BSACK]
Sends the Base Station Acknowledgment message.

BSCHALCON
[CSS:FDTC:FACCH: or SACCH:BSCHALCON]
Sends the Base Station Challenge Confirmation message.

BSMC
[CSS:FDTC:FACCH: or SACCH:BSMC]
Sends BSMC Message Delivery message.

CSS:FDTC:

FACCH: or **SACCH:**

CAPability:

REQuest
[CSS:FDTC:FACCH: or SACCH:CAPability:REQuest]
Sends Capability Update Request message.

RESPonse
[CSS:FDTC:FACCH: or SACCH:CAPability:RESPonse]
Sends Capability Update Response message.

DEDicated:HANDoff
[CSS:FDTC:FACCH: or SACCH:DEDicated:HANDoff]
Sends Dedicated DTC Handoff message.

FLASH
[CSS:FDTC:FACCH: or SACCH:FLASH]
Sends the Flash with Information message.

FLASHACK
[CSS:FDTC:FACCH: or SACCH:FLASHACK]
Sends the Flash Acknowledgment message.

HANDoff
[CSS:FDTC:FACCH: or SACCH:HANDoff]
Sends the Handoff message. (For complete handoff testing, use the **CSS:CALL:PROCess** commands.)

HYPERband:MEASure
[CSS:FDTC:FACCH: or SACCH:HYPERband:MEASure]
Sends Hyperband Measurement message.

LC
[CSS:FDTC:FACCH: or SACCH:LC]
Sends the Local Control message.

MAINTenance
[CSS:FDTC:FACCH: or SACCH:MAINTenance]
Sends the Maintenance message.

MEASure
[CSS:FDTC:FACCH: or SACCH:MEASure]
Sends the Measurement message.

PLC
[CSS:FDTC:FACCH: or SACCH:PLC]
Sends the Physical Layer Control.

PU
[CSS:FDTC:FACCH: or SACCH:PU]
Sends the Parameter Update message.

CSS:FDTC:

FACCH: or **SACCH:**

RAW $x_1,x_2,x_3,x_4,x_5,x_6,\ldots,x_n$
[CSS:FDTC:FACCH: or SACCH:RAW $x_1,x_2,x_3,x_4,x_5,x_6,\ldots,x_n$]
Generates a user defined message. Each of the parameters used with this command make up 8 bits of the message. Since each word of a FACCH or SACCH message consists of 48 bits, 6 parameters are required to make 1 word, 12 to make 2 words,.. etc. Therefore, the number of parameters used with this message is variable, but must be a multiple of 6.

RDATA:

MESSage
[CSS:FDTC:FACCH: or SACCH:RDATA:MESSage]
Sends R-DATA message.

ACCept
[CSS:FDTC:FACCH: or SACCH:RDATA:ACCept]
Sends R-DATA ACCEPT message.

REJect
[CSS:FDTC:FACCH: or SACCH:RDATA:REJect]
Sends R-DATA REJECT message.

REAUTHentication
[CSS:FDTC:FACCH: or SACCH:REAUTHentication]
Sends the Re-Authentication message.

The Re-Authentication message causes the mobile station to execute the Auth_Signature procedure.

RELease
[CSS:FDTC:FACCH: or SACCH:RELease]
Sends the Release message.

SBDA
[CSS:FDTC:FACCH: or SACCH:SBDA]
Sends the Send Burst DTMF Acknowledge message.

SCDA
[CSS:FDTC:FACCH: or SACCH:SCDA]
Sends the Send Continuous DTMF Acknowledge message.

SERVice:RESPonse
[CSS:FDTC:FACCH: or SACCH:SERVice:RESPonse]
Sends the Service Response message.

SMEASure
[CSS:FDTC:FACCH: or SACCH:SMEASure]
Sends the Stop Measurement message.

CSS:FDTC:

FACCH: or **SACCH:**

SOC
[CSS:FDTC:FACCH: or SACCH:SOC]
Sends SOC Message Delivery message.

SR
[CSS:FDTC:FACCH: or SACCH:SR]
Sends the Status Request message.

SSDUP
[CSS:FDTC:FACCH: or SACCH:SSDUP]
Sends the Shared Secret Data Update message.

UCHAL
[CSS:FDTC:FACCH: or SACCH:UCHAL]
Sends the Unique Challenge message.

B. FDTC DATA FIELDS

CSS:FDTC:

AMT:

CONNect
[CSS:FDTC:AMT:CONNect]
Acknowledges a Connect message from the Mobile Station.

RELease
[CSS:FDTC:AMT:RELease]
Acknowledges a Release message from the Mobile Station.

SERVice:REQuest
[CSS:FDTC:AMT:SERVice:REQuest]
Acknowledges a Service Request message from the Mobile Station.

STATus
[CSS:FDTC:AMT:STATus]
Acknowledges a Status message from the Mobile Station.

AMT?
[CSS:FDTC:AMT?]
Returns Acknowledge Message Type setting (string).

ATS *n*
[CSS:FDTC:ATS n]
Specifies Assigned Time Slot. Range of *n* is 0 to 15.

ATS?
[CSS:FDTC:ATS?]
Returns current value of ATS.

CSS:FDTC:

AUTHBS *n*
[CSS:FDTC:AUTHBS n]
Sets the AUTHBS value. Range of *n* is 0 to 262143.

AUTHBS?
[CSS:FDTC:AUTHBS?]
Returns AUTHBS value setting.

BSMC *n*
[CSS:FDTC:BSMC n]
Sets Base Station Manufacturer Code. Range of *n* is 0 to 255.

Identifies the assigned manufacture code. The BSMC value of 0 is reserved. A reserved BSMC value shall be considered an unknown base station manufacture code by the receiving mobile station.

BSMC?
[CSS:FDTC:BSMC?]
Returns current value of BSMC.

CALLING:

TYpe *n*
[CSS:FDTC:CALLING:TYpe n]
Sets Calling Party Type. Range of *n* is 0 to 7.

TYpe?
[CSS:FDTC:CALLING:TYpe?]
Returns Calling Party Type setting.

PLANid *n*
[CSS:FDTC:CALLING:PLANid n]
Sets Calling Party Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[CSS:FDTC:CALLING:PLANid?]
Returns Calling Party Numbering Plan Identification setting.

REServed *n*
[CSS:FDTC:CALLING:REServed n]
Specifies value of Calling Party Number Reserved field. Range of *n* is 0 to 31.

REServed?
[CSS:FDTC:CALLING:REServed?]
Returns current value of Calling Party Number Reserved field.

NUM *"n"*
[CSS:FDTC:CALLING:NUM "n"]
Sets Calling Party Number. The number *n* is entered as a string, with quotation marks (i.e., "316/522-4981").

NUM?
[CSS:FDTC:CALLING:NUM?]
Returns Calling Party Number setting (string).

CSS:FDTC:

CALLING:

PI *n*
[CSS:FDTC:CALLING:PI n]
Sets Calling Party Number Presentation Indicator. Range of *n* is 0 to 3.

PI?
[CSS:FDTC:CALLING:PI?]
Returns Calling Party Number Presentation Indicator setting.

SI *n*
[CSS:FDTC:CALLING:SI n]
Sets Calling Party Screening Indicator. Range of *n* is 0 to 3.

SI?
[CSS:FDTC:CALLING:SI?]
Returns Calling Party Screening Indicator setting.

NAMe "*string*"
[CSS:FDTC:CALLING:NAMe "string"]
Sets string of Calling Party Name Characters.

- String of 0 to 62 characters may be used.
- Example: **css:fdtc:calling:nam "Happy Anniversary"**
- This command is used with the following **CSS:FDTC:CALLING:NAMe:*xxx*** commands.

NAMe?
[CSS:FDTC:CALLING:NAMe?]
Returns current string of Calling Party Name Characters.

NAMe:

REServed *n*
[CSS:FDTC:CALLING:NAMe:REServed n]
Specifies value of Calling Party Name Reserved field. Range of *n* is 0 to 15.

REServed?
[CSS:FDTC:CALLING:NAMe:REServed?]
Returns current value of Calling Party Name Reserved field.

PI *n*
[CSS:FDTC:CALLING:NAMe:PI n]
Specifies value of Calling Party Name Presentation Indicator. Range of *n* is 0 to 3.

PI?
[CSS:FDTC:CALLING:NAMe:PI?]
Returns current value of Calling Party Name Presentation Indicator.

CSS:FDTC:

CALLING:

NAMe:

SI *n*
[CSS:FDTC:CALLING:NAMe:SI n]
Specifies value of Calling Party Name Screening Indicator. Range of *n* is 0 to 3.

SI?
[CSS:FDTC:CALLING:NAMe:SI?]
Returns current value of Calling Party Name Screening Indicator.

CDL?
[CSS:FDTC:CDL?]
Returns the value of CDL (Coded Digital Control Channel Locator) (11 bit value).

The value of CDL cannot be set. However, CDL is equal to the value set for DL (DCCH Locator) plus the 4 bit CRC. See **CSS:FDTC:DL**.

CHANGE:

SOC *n*
[CSS:FDTC:CHANGE:SOC n]
Enables (*n* = 1) or disables (*n* = 0) System Operator Code Change Indicator.

Indicates if the SOC associated with the current digital traffic channel is different from the BSMC associated with the digital traffic channel being assigned.

SOC?
[CSS:FDTC:CHANGE:SOC?]
Returns the value of SOC.

BSMC *n*
[CSS:FDTC:CHANGE:BSMC n]
Enables (*n* = 1) or disables (*n* = 0) Base Station Manufacturer Code Change Indicator.

Indicates if the BSMC associated with the current digital traffic channel is different from the BSMC associated with the digital traffic channel being assigned.

BSMC?
[CSS:FDTC:CHANGE:BSMC?]
Returns current state of BSMC.

CONTROL *n*
[CSS:FDTC:CONTROL n]
Sets the Local Control field used in the Local Control message. Range of *n* is 0 to 31.

CONTROL?
[CSS:FDTC:CONTROL?]
Returns the Local Control field setting.

CSS:FDTC:

CUSTOM:

LENGth *n*
[CSS:FDTC:CUSTOM:LENGth n]
Specifies Length of Custom Control in octets. Range of *n* is 1 to 255.

LENGth?
[CSS:FDTC:CUSTOM:LENGth?]
Returns current value of LENGth.

CONTrol *n,m*
[CSS:FDTC:CUSTOM:CONTrol n,m]
Specifies Custom Control (*m*) indexed by *n*. Range of *n* is 0 to 255; range of *m* is 0 to 255.

CONTrol? *n*
[CSS:FDTC:CUSTOM:CONTrol? n]
Returns current value of CONTrol indexed by *n*. Range of *n* is 0 to 255.

DCCHinfo:

Digital Control Channel Information.

CHANnel *n,m*
[CSS:FDTC:DCCHinfo:CHANnel n,m]
Specifies Digital Control Channel Information (*m*) indexed by *n*. Range of *n* is 0 to 2; range of *m* is 0 to 2047.

CHANnel? *n*
[CSS:FDTC:DCCHinfo:CHANnel? n]
Returns current value of CHANnel indexed by *n*. Range of *n* is 0 to 2.

DVCC *n,m*
[CSS:FDTC:DCCHinfo:DVCC n,m]
Specifies Digital Verification Color Code (*m*) indexed by *n*. Range of *n* is 0 to 2; range of *m* is 0 to 255.

DVCC? *n*
[CSS:FDTC:DCCHinfo:DVCC? n]
Returns current value of DVCC indexed by *n*. Range of *n* is 0 to 2.

HYPERband *n,m*
[CSS:FDTC:DCCHinfo:HYPERband n,m]
Specifies Hyperband (*m*) indexed by *n*. Range of *n* is 0 to 2; range of *m* is 0 to 3.

HYPERband? *n*
[CSS:FDTC:DCCHinfo:HYPERband? n]
Returns current value of HYPERband indexed by *n*. Range of *n* is 0 to 2.

CSS:FDTC:

DCCHinfo:

NUMBer *n* **-or- NUM** *n*
[CSS:FDTC:DCCHinfo:NUMBer n]
Specifies Length of DCCH info content. Range of *n* is 0 to 2.

NUMBer? -or- NUM?
[CSS:FDTC:DCCHinfo:NUMBer?]
Returns current value of NUMBer.

DELTA:

TIME *n*
[CSS:FDTC:DELTA:TIME n]
Specifies Delta Time. Range of *n* is 0 to 2047.

Indicates timing advance in half symbols that shall be applied, relative to the current mobile station transmit time, on the assigned digital traffic channel.

TIME?
[CSS:FDTC:DELTA:TIME?]
Returns current value of TIME.

DIC *n*
[CSS:FDTC:DIC n]
Enables (*n* = 1) or disables (*n* = 0) Delay Interval Compensation bit.

DIC?
[CSS:FDTC:DIC?]
Returns state of Delay Interval Compensation bit.

DL *n*
[CSS:FDTC:DL n]
Specifies the value of DCCH Locator used on the FDTC. Range of *n* is 0 to 127.

The 4 bit CRC is calculated by the SP TST.

DL?
[CSS:FDTC:DL?]
Returns the value of DCCH Locator used on the FDTC.

DMAC *n*
[CSS:FDTC:DMAC n]
Sets Digital Mobile Attenuation Code. Range of *n* is 0 to 10.

DMAC?
[CSS:FDTC:DMAC?]
Returns Digital Mobile Attenuation Code setting.

CSS:FDTC:

DPM *n*
[CSS:FDTC:DPM n]
Enables (*n* = 1) or disables (*n* = 0) Data Privacy Mode.

DPM?
[CSS:FDTC:DPM?]
Returns current state of DPM.

DTX *n*
[CSS:FDTC:DTX n]
Enables (*n* = 1) or disables (*n* = 0) Discontinuous Transmission bit.

DTX?
[CSS:FDTC:DTX?]
Returns Discontinuous Transmission bit setting.

DTXControl *n*
[CSS:FDTC:DTXControl n]
Enables (*n* = 1) or disables (*n* = 0) DTX Control.

Indicates the DTX mode supported on the channel to which a handoff is occurring.

DTXControl?
[CSS:FDTC:DTXControl?]
Returns current state of DTXControl.

DVCC *n*
[CSS:FDTC:DVCC n]
Sets Digital Verification Color Code. Range of *n* is 0 to 255.

DVCC?
[CSS:FDTC:DVCC?]
Returns Digital Verification Color Code setting.

CSS:FDTC:

ENABLE:

The following commands enable or disable the optional Information Elements.

CALLING:

NAMe *n*
[CSS:FDTC:ENABLE:CALLING:NAMe n]
Enables (*n* = 1) or disables (*n* = 0) Calling Party Name.

NAMe?
[CSS:FDTC:ENABLE:CALLING:NAMe?]
Returns current Calling Party Name enable setting.

NUM *n*
[CSS:FDTC:ENABLE:CALLING:NUM n]
Enables (*n* = 1) or disables (*n* = 0) Calling Party Number.

NUM?
[CSS:FDTC:ENABLE:CALLING:NUM?]
Returns the Calling Party Number enable setting.

CAUSe *n*
[CSS:FDTC:ENABLE:CAUSe n]
Enables (*n* = 1) or disables (*n* = 0) Cause. (This information element identifies the cause for rejecting a service request.)

CAUSe?
[CSS:FDTC:ENABLE:CAUSe?]
Returns current Cause enable setting.

DCCHinfo *n*
[CSS:FDTC:ENABLE:DCCHinfo n]
Enables (*n* = 1) or disables (*n* = 0) Digital Control Channel Information.

DCCHinfo?
[CSS:FDTC:ENABLE:DCCHinfo n]
Returns current state of DCCHinfo.

DELTA:

TIME *n*
[CSS:FDTC:ENABLE:DELTA:TIME n]
Enables (*n* = 1) or disables (*n* = 0) Delta Time.

TIME?
[CSS:FDTC:ENABLE:DELTA:TIME?]
Returns current state of TIME.

CSS:FDTC:

ENABLE:

DIC *n*
[CSS:FDTC:ENABLE:DIC n]
Enables (*n* = 1) or disables (*n* = 0) Delay Interval Compensation bit.

DIC?
[CSS:FDTC:ENABLE:DIC?]
Returns current state of Delay Interval Compensation.

DMAC *n*
[CSS:FDTC:ENABLE:DMAC n]
Enables (*n* = 1) or disables (*n* = 0) Digital Mobile Attenuation Code.

DMAC?
[CSS:FDTC:ENABLE:DMAC?]
Returns current state of Digital Mobile Attenuation Code Enable.

DPM *n*
[CSS:FDTC:ENABLE:DPM n]
Enables (*n* = 1) or disables (*n* = 0) Data Privacy Mode.

DPM?
[CSS:FDTC:ENABLE:DPM?]
Returns current state of DPM.

DTX *n*
[CSS:FDTC:ENABLE:DTX n]
Enables (*n* = 1) or disables (*n* = 0) Discontinuous Transmission bit.

DTX?
[CSS:FDTC:ENABLE:DTX?]
Returns current state of Discontinuous Transmission bit Enable.

HYPERband:

TARGet *n*
[CSS:FDTC:ENABLE:HYPERband:TARGet n]
Enables (*n* = 1) or disables (*n* = 0) Target Hyperband.

TARGet?
[CSS:FDTC:ENABLE:HYPERband:TARGet?]
Returns current state of TARGet.

LDP:

BSACK *n*
[CSS:FDTC:ENABLE:LDP:BSACK n]
Enables (*n* = 1) or disables (*n* = 0) Last Decoded Parameter in Base Station Acknowledgment message.

BSACK?
[CSS:FDTC:ENABLE:LDP:BSACK?]
Returns Last Decoded Parameter Enable setting for BSACK message.

CSS:FDTC:

ENABLE:

LDP:

FLASHACK *n*
[CSS:FDTC:ENABLE:LDP:FLASHACK n]
Enables (*n* = 1) or disables (*n* = 0) Last Decoded Parameter in Flash Acknowledgment message.

FLASHACK?
[CSS:FDTC:ENABLE:LDP:FLASHACK?]
Returns Last Decoded Parameter Enable setting for FLASHACK message.

SBDA *n*
[CSS:FDTC:ENABLE:LDP:SBDA n]
Enables (*n* = 1) or disables (*n* = 0) Last Decoded Parameter in Send Burst DTMF Acknowledge message.

SBDA?
[CSS:FDTC:ENABLE:LDP:SBDA?]
Returns Last Decoded Parameter Enable setting for SBDA message.

MEMC *n*
[CSS:FDTC:ENABLE:MEMC n]
Enables (*n* = 1) or disables (*n* = 0) Message Encryption Mode C.

MEMC?
[CSS:FDTC:ENABLE:MEMC?]
Returns current state of MEMC.

MESSage:CENTer:

ADDRess *n*
[CSS:FDTC:ENABLE:MESSage:CENTer:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) Message Center Address.

ADDRess?
[CSS:FDTC:ENABLE:MESSage:CENTer:ADDRess?]
Returns current state of ADDRess.

MSGWTG *n*
[CSS:FDTC:ENABLE:MSGWTG n]
Enables (*n* = 1) or disables (*n* = 0) Other Messages Waiting Info.

MSGWTG?
[CSS:FDTC:ENABLE:MSGWTG?]
Returns current state of MSGWTG.

CSS:FDTC:

ENABLE:

NOMW *n*
[CSS:FDTC:ENABLE:NOMW n]
Enables (*n* = 1) or disables (*n* = 0) Number of Messages Waiting field.

NOMW?
[CSS:FDTC:ENABLE:NOMW?]
Returns Number of Messages Waiting field Enable setting.

RFCHAN *n,x*
[CSS:FDTC:ENABLE:RFCHAN n,x]
Enables (*n* = 1) or disables (*n* = 0) selected RF Channel index. Range of *n* is 0 to 11 (index).

RFCHAN? *n*
[CSS:FDTC:ENABLE:RFCHAN? n]
Returns selected RF Channel index Enable setting. Range of *n* is 0 to 11.

SIGNAL *n*
[CSS:FDTC:ENABLE:SIGNAL n]
Enables (*n* = 1) or disables (*n* = 0) Signal field.

SIGNAL?
[CSS:FDTC:ENABLE:SIGNAL?]
Returns Signal field Enable setting.

STATUS:

CMODE *n*
[CSS:FDTC:ENABLE:STATUS:CMODE n]
Enables (*n* = 1) or disables (*n* = 0) Call Mode field in Status Request message.

CMODE?
[CSS:FDTC:ENABLE:STATUS:CMODE?]
Returns Call Mode field Enable setting.

ESN *n*
[CSS:FDTC:ENABLE:STATUS:ESN n]
Enables (*n* = 1) or disables (*n* = 0) Electronic Serial Number field in Status Request message.

ESN?
[CSS:FDTC:ENABLE:STATUS:ESN?]
Returns Electronic Serial Number field Enable setting.

MEM *n*
[CSS:FDTC:ENABLE:STATUS:MEM n]
Enables (*n* = 1) or disables (*n* = 0) Message Encryption Mode field.

MEM?
[CSS:FDTC:ENABLE:STATUS:MEM?]
Returns Message Encryption Mode field Enable setting.

CSS:FDTC:

ENABLE:

STATUS:

TASK *n*
[CSS:FDTC:ENABLE:STATUS:TASK n]
Enables (*n* = 1) or disables (*n* = 0) Task Status.

TASK?
[CSS:FDTC:ENABLE:STATUS:TASK?]
Returns current state of TASK.

TI *n*
[CSS:FDTC:ENABLE:STATUS:TI n]
Enables (*n* = 1) or disables (*n* = 0) Terminal Information field.

TI?
[CSS:FDTC:ENABLE:STATUS:TI?]
Returns Terminal Information field Enable setting.

VPM *n*
[CSS:FDTC:ENABLE:STATUS:VPM n]
Enables (*n* = 1) or disables (*n* = 0) Voice Privacy Mode bit.

VPM?
[CSS:FDTC:ENABLE:STATUS:VPM?]
Returns Voice Privacy Mode bit Enable setting.

TA *n*
[CSS:FDTC:ENABLE:TA n]
Enables (*n* = 1) or disables (*n* = 0) Time Alignment field.

TA?
[CSS:FDTC:ENABLE:TA?]
Returns Time Alignment field Enable setting.

USER:

DEST:

ADDRess *n*
[CSS:FDTC:ENABLE:USER:DEST:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) User Destination Address.

ADDRess?
[CSS:FDTC:ENABLE:USER:DEST:ADDRess?]
Returns current state of ADDRess.

SUBaddress *n*
[CSS:FDTC:ENABLE:USER:DEST:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) User Destination Subaddress.

SUBaddress?
[CSS:FDTC:ENABLE:USER:DEST:SUBaddress?]
Returns current state of SUBaddress.

CSS:FDTC:

ENABLE:

USER:

ORIG:

ADDRess *n*
[CSS:FDTC:ENABLE:USER:ORIG:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Address.

ADDRess?
[CSS:FDTC:ENABLE:USER:ORIG:ADDRess?]
Returns current state of ADDRess.

PRESentation *n*
[CSS:FDTC:ENABLE:USER:ORIG:PRESentation n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Address Presentation Indicator.

PRESentation?
[CSS:FDTC:ENABLE:USER:ORIG:PRESentation?]
Returns current state of PRESentation.

SUBaddress *n*
[CSS:FDTC:ENABLE:USER:ORIG:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Subaddress.

SUBaddress?
[CSS:FDTC:ENABLE:USER:ORIG:SUBaddress?]
Returns current state of SUBaddress.

VMI *n*
[CSS:FDTC:ENABLE:VMI n]
Enables (*n* = 1) or disables (*n* = 0) Voice Mode.

VMI?
[CSS:FDTC:ENABLE:VMI?]
Returns current state of VMI.

HANDoff:

CHANnel *n*
[CSS:FDTC:HANDoff:CHANnel n]
Sets analog Voice or Digital Traffic Channel for Handoff. Range of *n* is 0 to 2047. (Use the **CSS:CALL:PROCess** commands to initiate Handoff.)

CHANnel?
[CSS:FDTC:HANDoff:CHANnel?]
Returns Channel for Handoff setting.

CSS:FDTC:

HYPERband:

BAND *n,m*
[CSS:FDTC:HYPERband:BAND n,m]
Specifies the Hyperband (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 3.

BAND? *n*
[CSS:FDTC:HYPERband:BAND? n]
Returns current value of BAND.

CHANnel *n,m*
[CSS:FDTC:HYPERband:CHANnel n,m]
Specifies Hyperband channels (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 2047.

CHANnel? *n*
[CSS:FDTC:HYPERband:CHANnel? n]
Returns current value of CHANnel indexed by *n*. Range of *n* is 0 to 23.

NUMBer *n* **-or- NUM** *n*
[CSS:FDTC:HYPERband:NUMBer n]
Specifies Number of Hyperband channels. Range of *n* is 0 to 24.

NUMBer? -or- NUM?
[CSS:FDTC:HYPERband:NUMBer?]
Returns current value of NUMBer.

TARGet *n*
[CSS:FDTC:HYPERband:TARGet n]
Specifies Target Hyperband. Range of *n* is 0 to 3.

Specifies the hyperband to which handoff is occurring.

TARGet?
[CSS:FDTC:HYPERband:TARGet?]
Returns current value of TARGet.

LDP *n*
[CSS:FDTC:LDP n]
Sets Last Decoded Parameter. Range of *n* is 0 to 15.

LDP?
[CSS:FDTC:LDP?]
Returns Last Decoded Parameter setting.

CSS:FDTC:

MAP:

Identifies the forms of voice privacy supported by the BMI.

VPM *n*
[CSS:FDTC:MAP:VPM n]
Specifies Voice Privacy Mode Map. Range of *n* is 0 to 15.

VPM?
[CSS:FDTC:MAP:VPM?]
Returns current value of VPM.

CODER *n*
[CSS:FDTC:MAP:CODER n]
Specifies Voice Coder Map. Range of *n* is 0 to 63.

CODER?
[CSS:FDTC:MAP:CODER?]
Returns current value of CODER.

MEA:

DOMAIN *n*
[CSS:FDTC:MAP:MEA:DOMAIN n]
Specifies Message Encryption Algorithm Map Domain. Range of *n* is 0 to 255.

DOMAIN?
[CSS:FDTC:MAP:MEA:DOMAIN?]
Returns current value of DOMAIN.

ALGORithms *n,m*
[CSS:FDTC:MAP:MEA:ALGORithms n,m]
Specifies Message Encryption Algorithm Map (*m*) indexed by *n*. Range of *n* is 0 to 7; range of *m* is 0 to 15.

ALGORithms? *n*
[CSS:FDTC:MAP:MEA:ALGORithms? n]
Returns current value of ALGORithms.

MEK *n*
[CSS:FDTC:MAP:MEK n]
Specifies Message Encryption Key Map. Range of *n* is 0 to 15.

MEK?
[CSS:FDTC:MAP:MEK?]
Returns current value of MEK.

CSS:FDTC:

MAP:

ARQ *n*
[CSS:FDTC:MAP:ARQ n]
Enables (*n* = 1) or disables (*n* = 0) FACCH/SACCH ARQ Map.

ARQ?
[CSS:FDTC:MAP:ARQ?]
Returns current state of ARQ.

SMS *n*
[CSS:FDTC:MAP:SMS n]
Specifies SMS Map. Range of *n* is 0 to 3.

SMS?
[CSS:FDTC:MAP:SMS?]
Returns current value of SMS.

MEM *n*
[CSS:FDTC:MEM n]
Enables (*n* = 1) or disables (*n* = 0) Message Encryption Mode.

MEM?
[CSS:FDTC:MEM?]
Returns current state of Message Encryption Mode.

MEMC:

Identifies the message encryption mode of a mobile station.

MEA *n*
[CSS:FDTC:MEMC:MEA n]
Specifies Message Encryption Mode C Algorithm. Range of *n* is 0 to 3.

MEA?
[CSS:FDTC:MEMC:MEA?]
Returns current value of MEA.

MED *n*
[CSS:FDTC:MEMC:MED n]
Specifies Message Encryption Mode C Domain. Range of *n* is 0 to 3.

MED?
[CSS:FDTC:MEMC:MED?]
Returns current value of MED.

MEK *n*
[CSS:FDTC:MEMC:MEK n]
Specifies Message Encryption Mode C Key. Range of *n* is 0 to 3.

MEK?
[CSS:FDTC:MEMC:MEK?]
Returns current value of MEK.

CSS:FDTC:

MESSage:CENTer:

TYPE *n*
[CSS:FDTC:MESSage:CENTer:TYPE n]
Specifies Type of Number. Range of *n* is 0 to 7.

TYPE?
[CSS:FDTC:MESSage:CENTer:TYPE?]
Returns current value of TYPE.

PLANid *n*
[CSS:FDTC:MESSage:CENTer:PLANid n]
Specifies Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[CSS:FDTC:MESSage:CENTer:PLANid?]
Returns current value of PLANid.

ENCoding *n*
[CSS:FDTC:MESSage:CENTer:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Address Encoding.

ENCoding?
[CSS:FDTC:MESSage:CENTer:ENCoding?]
Returns current state of ENCoding.

ADDRess "*n*"
[CSS:FDTC:MESSage:CENTer:ADDRess "n"]
Specifies Address (ASCII string).

Up to 60 characters in this field.

ADDRess?
[CSS:FDTC:MESSage:CENTer:ADDRess?]
Returns current string value of ADDRess.

MSGWTG:

MESSage:

NUMBer *n,m* **-or- NUM** *n,m*
[CSS:FDTC:MSGWTG:MESSage:NUMBer n,m]
Specifies Number of Messages Waiting (*m*) indexed by *n*. Range of *n* is 0 to 15; range of *m* is 0 to 63.

Indicates the number of messages associated to the Message Waiting Type.

NUMBer? *n* **-or- NUM?** *n*
[CSS:FDTC:MSGWTG:MESSage:NUMBer? n]
Returns current value of NUMBer indexed by *n*. Range of *n* is 0 to 15.

CSS:FDTC:

MSGWTG:

MESSage:

TYPE *n,m*
[CSS:FDTC:MSGWTG:MESSage:TYPE n,m]
Specifies Messages Waiting Type (*m*) indexed by *n*. Range of *n* is 0 to 15; range of *m* is 0 to 15.

Indicates the type of messages that are waiting.

TYPE? *n*
[CSS:FDTC:MSGWTG:MESSage:TYPE? n]
Returns current value of TYPE indexed by *n*. Range of *n* is 0 to 15.

NUMBer *n* **-or- NUM** *n*
[CSS:FDTC:MSGWTG:NUMBer n]
Specifies Length of Message Waiting info content. Range of *n* is 1 to 16.

NUMBer? -or- NUM?
[CSS:FDTC:MSGWTG:NUMBer?]
Returns current value of NUMBer.

NOMW *n*
[CSS:FDTC:NOMW n]
Sets Number of Messages Waiting field. Range of *n* is 0 to 63.

NOMW?
[CSS:FDTC:NOMW?]
Returns Number of Messages Waiting field setting.

PV *n*
[CSS:FDTC:PV n]
Specifies Protocol Version. Range of *n* is 0 to 15.

PV?
[CSS:FDTC:PV?]
Returns current value of PV.

PVI *n*
[CSS:FDTC:PVI n]
Enables (*n* = 1) or disables (*n* = 0) Protocol Version Indicator.

PVI?
[CSS:FDTC:PVI?]
Returns current state of PVI.

CSS:FDTC:

RANDSSD *"n"*
[CSS:FDTC:RANDSSD "n"]
Sets the 56 bit Random Number sent in the Shared Secret Data Update message. The number *n* is entered in hexadecimal as a string, with quotation marks (i.e., "4A59BE232F9C26").

RANDSSD?
[CSS:FDTC:RANDSSD?]
Returns the Shared Secret Data 56 bit Random Number setting (string).

RANDRA *n*
[CSS:FDTC:RANDRA n]
Specifies RANDRA. Range of *n* is 0 to #hFFFFFFFF (4294967295).

Used in conjunction with Re-Authentication message (see **CSS:FDTC:FACCH: or SACCH:REAUTHentication**).

RANDRA?
[CSS:FDTC:RANDRA?]
Returns current value of RANDRA.

RANDU *n*
[CSS:FDTC:RANDU n]
Sets the 24 bit Random Number sent in the Unique Challenge message. Range of *n* is 0 to 16777215.

RANDU?
[CSS:FDTC:RANDU?]
Returns the Unique Challenge 24 bit Random Number setting.

RATe *n*
[CSS:FDTC:RATe n]
Sets Channel Rate (0 [Full-Rate] or 1 [Half-Rate]).

RATe?
[CSS:FDTC:RATe?]
Returns Channel Rate setting.

CSS:FDTC:

RCAUSe *n*
[CSS:FDTC:RCAUSe n]
Specifies R-Cause. Range of *n* is 1 to 127.

Used to qualify an R-DATA REJECT message.

RCAUSe?
[CSS:FDTC:RCAUSe?]
Returns current value of R-Cause.

RCAUSe:

REServed *n*
[CSS:FDTC:RCAUSe:REServed n]
Specifies value of R-Cause Reserved field. Range of *n* is 0 to 1.

REServed?
[CSS:FDTC:RCAUSe:REServed?]
Returns current value of R-Cause Reserved field.

RDATA_UNIT:

Used to carry the Higher Layer SMS protocol data unit.

LENGth *n*
[CSS:FDTC:RDATA_UNIT:LENGth n]
Specifies Length (*n*) of the R-Data Unit info content. Range of *n* is 1 to 255.

LENGth?
[CSS:FDTC:RDATA_UNIT:LENGth?]
Returns current value of LENGth.

HLP:

IDentifier *n*
[CSS:FDTC:RDATA_UNIT:HLP:IDentifier n]
Specifies Higher Layer Protocol Identifier. Range of *n* is 0 to 255.

IDentifier?
[CSS:FDTC:RDATA_UNIT:HLP:IDentifier?]
Returns current value of IDentifier.

DATA *n,m*
[CSS:FDTC:RDATA_UNIT:HLP:DATA n,m]
Specifies Higher Layer Protocol Data Unit (*m*) indexed by *n*. Range of *n* is 0 to 253; range of *m* is 0 to 253.

DATA? *n*
[CSS:FDTC:RDATA_UNIT:HLP:DATA? n]
Returns current value of DATA. Range of *n* is 0 to 253.

CSS:FDTC:

RFCHAN *n,m*
[CSS:FDTC:RFCHAN n,m]
Specifies RF Channel Number (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 2047.

RFCHAN? *n*
[CSS:FDTC:RFCHAN? n]
Returns current value of RFCHAN indexed by *n*. Range of *n* is 0 to 23.

RN *n*
[CSS:FDTC:RN n]
Sets Request Number. Range of *n* is 0 to 15.

RN?
[CSS:FDTC:RN?]
Returns Request Number setting.

RTRANSaction *n*
[CSS:FDTC:RTRANSaction n]
Specifies R-Transaction Identifier. Range of *n* is 0 to 255.

Used to uniquely associate a R-DATA ACCEPT or a R-DATA REJECT message with a specific R-DATA message.

RTRANSaction?
[CSS:FDTC:RTRANSaction?]
Returns current value of RTRANSaction.

SBI *n*
[CSS:FDTC:SBI n]
Sets Shortened Burst Indicator. Range of *n* is 0 to 3.

SBI?
[CSS:FDTC:SBI?]
Returns Shortened Burst Indicator setting.

CSS:FDTC:

SERVice:

CAUSe *n,m*
[CSS:FDTC:SERVice:CAUSe n,m]
Specifies Cause (*m*) for the designated instance (*n*). Range of *n* is 0 to 9; range of *m* is 0 to 255.

See CSS:FDTC:SERVice:CAUSe:NUMBer *n* to specify number of instances of Cause.

CAUSe? *n*
[CSS:FDTC:SERVice:CAUSe? n]
Returns current value of Cause for the designated instance (*n*). Range of *n* is 0 to 9.

CAUSe:

NUMBer *n* **-or- NUM** *n*
[CSS:FDTC:SERVice:CAUSe:NUMBer n]
Specifies the number of instances (Remaining Length) of Cause (see **CSS:FDTC:SERVice:CAUSe**). Range of *n* is 0 to 10.

When *n* is set to 0, Cause (see **CSS:FDTC:SERVice:CAUSe**) is **not** sent.

NUMBer? -or- NUM?
[CSS:FDTC:SERVice:CAUSe:NUMBer?]
Returns the current number of instances of Cause.

CODE *n*
[CSS:FDTC:SERVice:CODE n]
Specifies Service Code. Range of *n* is 0 to 15.

Indicates the requested service.

CODE?
[CSS:FDTC:SERVice:CODE?]
Returns the current value of Service Code.

CSS:FDTC:

SIGNAL:

PITCH *n*
[CSS:FDTC:SIGNAL:PITCH n]
Sets the pitch of the Alert tone. Range of *n* is 0 to 3.

PITCH?
[CSS:FDTC:SIGNAL:PITCH?]
Returns Alert tone pitch setting.

CADENCE *n*
[CSS:FDTC:SIGNAL:CADENCE n]
Sets the on-off pattern of the Alert tone. Range of *n* is 0 to 63.

CADENCE?
[CSS:FDTC:SIGNAL:CADENCE?]
Returns the Alert tone on-off pattern setting.

SLOT *n*
[CSS:FDTC:SLOT n]
Sets Timeslot. Range of *n* is 1 to 3.

SLOT?
[CSS:FDTC:SLOT?]
Returns Timeslot setting.

SOC *n*
[CSS:FDTC:SOC n]
Sets System Operator Code. Range of *n* is 0 to 4095.

Identifies what operator is providing service. A reserved SOC value shall be considered an unknown system operator code by a receiving mobile station.

SOC?
[CSS:FDTC:SOC?]
Returns current value of SOC.

SUPPort:

IRA *n*
[CSS:FDTC:SUPPort:IRA n]
Enables (*n* = 1) or disables (*n* = 0) IRA Support.

Indicates if a mobile station or BMI supports IRA address encoding in the address field in the Message Center Address.

IRA?
[CSS:FDTC:SUPPort:IRA?]
Returns current state of IRA.

CSS:FDTC:

TA *n*
[CSS:FDTC:TA n]
Sets Time Alignment. Range of *n* is 0 to 31.

TA?
[CSS:FDTC:TA?]
Returns Time Alignment setting.

TASK *n*
[CSS:FDTC:TASK n]
Specifies Task Status. Range of *n* is 0 to 7.

TASK?
[CSS:FDTC:TASK?]
Returns current value of TASK.

TI *n*
[CSS:FDTC:TI n]
Sets Timeslot Indicator. Range of *n* is 0 to 6. (0 is analog.)

TI?
[CSS:FDTC:TI?]
Returns Timeslot Indicator setting.

CSS:FDTC:

USER:

DEST:

Used to identify the user destination address of a MS originated short message.

TYPE *n*
[CSS:FDTC:USER:DEST:TYPE n]
Specifies Type of Number. Range of *n* is 0 to 7.

TYPE?
[CSS:FDTC:USER:DEST:TYPE?]
Returns current value of TYPE.

PLANid *n*
[CSS:FDTC:USER:DEST:PLANid n]
Specifies Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[CSS:FDTC:USER:DEST:PLANid?]
Returns current value of PLANid.

ENCoding *n*
[CSS:FDTC:USER:DEST:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Address Encoding.

ENCoding?
[CSS:FDTC:USER:DEST:ENCoding?]
Returns current state of ENCoding.

ADDRess *"n"*
[CSS:FDTC:USER:DEST:ADDRess "n"]
Specifies Address (ASCII string).

Up to 60 characters may be sent.

ADDRess?
[CSS:FDTC:USER:DEST:ADDRess?]
Returns current string value of ADDRess.

CSS:FDTC:

USER:

DEST:

SUBaddress:

Used to identify the subaddress of the destination user of a short message.

LENGth *n*
[CSS:FDTC:USER:DEST:SUBaddress:LENGth n]
Specifies Length of subaddress info content. Range of *n* is 0 to 21.

LENGth?
[CSS:FDTC:USER:DEST:SUBaddress:LENGth?]
Returns current value of LENGth.

ODD_EVEN *n*
[CSS:FDTC:USER:DEST:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Odd/Even Indicator.

ODD_EVEN?
[CSS:FDTC:USER:DEST:SUBaddress:ODD_EVEN?]
Returns current state of ODD_EVEN.

TYPE *n*
[CSS:FDTC:USER:DEST:SUBaddress:TYPE n]
Specifies Type of subaddress. Range of *n* is 0 to 7.

TYPE?
[CSS:FDTC:USER:DEST:SUBaddress:TYPE?]
Returns current value of TYPE.

REServed *n*
[CSS:FDTC:USER:DEST:SUBaddress:REServed n]
Specifies number of subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[CSS:FDTC:USER:DEST:SUBaddress:REServed?]
Returns number of subaddress Reserved fields.

ADDRess *n,m*
[CSS:FDTC:USER:DEST:SUBaddress:ADDRess n,m]
Specifies User Destination Subaddress (*m*) indexed by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[CSS:FDTC:USER:DEST:SUBaddress:ADDRess? n]
Returns current value of User Destination Subaddress indexed by *n*. Range of *n* is 0 to 19.

CSS:FDTC:

USER:

ORIG:

Used to identify the originating address of a short message.

TYPE *n*
[CSS:FDTC:USER:ORIG:TYPE n]
Specifies Type of Number. Range of *n* is 0 to 7.

TYPE?
[CSS:FDTC:USER:ORIG:TYPE?]
Returns current value of TYPE.

PLANid *n*
[CSS:FDTC:USER:ORIG:PLANid n]
Specifies Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[CSS:FDTC:USER:ORIG:PLANid?]
Returns current value of PLANid.

ENCoding *n*
[CSS:FDTC:USER:ORIG:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Address Encoding.

ENCoding?
[CSS:FDTC:USER:ORIG:ENCoding?]
Returns current state of ENCoding.

ADDRess *"n"*
[CSS:FDTC:USER:ORIG:ADDRess "n"]
Specifies Address (ASCII string).

Up to 60 characters may be sent.

ADDRess?
[CSS:FDTC:USER:ORIG:ADDRess?]
Returns current string value of ADDRess.

PRESentation:

PI *n*
[CSS:FDTC:USER:ORIG:PRESentation:PI n]
Specifies Presentation Indicator. Range of *n* is 0 to 3.

PI?
[CSS:FDTC:USER:ORIG:PRESentation:PI?]
Returns current value of PI.

CSS:FDTC:

USER:

ORIG:

PRESentation:

SI *n*
[CSS:FDTC:USER:ORIG:PRESentation:SI n]
Specifies Screening Indicator. Range of *n* is 0 to 3.

SI?
[CSS:FDTC:USER:ORIG:PRESentation:SI?]
Returns current value of SI.

REServed *n*
[CSS:FDTC:USER:ORIG:PRESentation:REServed n]
Specifies number of Reserved fields. Range of *n* is 0 to 15.

REServed?
[CSS:FDTC:USER:ORIG:PRESentation:REServed?]
Returns number of Reserved fields.

SUBaddress:

Used to identify the subaddress of the originating user of a short message.

LENGth *n*
[CSS:FDTC:USER:ORIG:SUBaddress:LENGth n]
Specifies Length of User Originating subaddress info content. Range of *n* is 0 to 21.

LENGth?
[CSS:FDTC:USER:ORIG:SUBaddress:LENGth?]
Returns current value of LENGth.

ODD_EVEN *n*
[CSS:FDTC:USER:ORIG:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Odd/Even Indicator.

ODD_EVEN?
[CSS:FDTC:USER:ORIG:SUBaddress:ODD_EVEN?]
Returns current state of ODD_EVEN.

TYPE *n*
[CSS:FDTC:USER:ORIG:SUBaddress:TYPE n]
Specifies Type of subaddress. Range of *n* is 0 to 7.

TYPE?
[CSS:FDTC:USER:ORIG:SUBaddress:TYPE?]
Returns the value of TYPE.

CSS:FDTC:

USER:

ORIG:

SUBaddress:

REServed *n*
[CSS:FDTC:USER:ORIG:SUBaddress:REServed n]
Specifies number of subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[CSS:FDTC:USER:ORIG:SUBaddress:REServed?]
Returns number of subaddress Reserved fields.

ADDRess *n,m*
[CSS:FDTC:USER:ORIG:SUBaddress:ADDRess n,m]
Specifies User Originating Subaddress (*m*) indexed by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[CSS:FDTC:USER:ORIG:SUBaddress:ADDRess? n]
Returns current value of User Originating Subaddress indexed by *n*. Range of *n* is 0 to 19.

VMI:

Used to provide voice mode operation information for the assigned digital traffic channel.

VC *n*
[CSS:FDTC:VMI:VC n]
Specifies Voice Code. Range of *n* is 0 to 7.

VC?
[CSS:FDTC:VMI:VC?]
Returns current value of VC.

PM_V *n*
[CSS:FDTC:VMI:PM_V n]
Specifies Voice Privacy Mode. Range of *n* is 0 to 7.

PM_V?
[CSS:FDTC:VMI:PM_V?]
Returns current value of PM_V.

VPM *n*
[CSS:FDTC:VPM n]
Enables (*n* = 1) or disables (*n* = 0) Voice Privacy Mode bit.

VPM?
[CSS:FDTC:VPM?]
Returns current state of Voice Privacy Mode.

9-12-7 TALKBACK

Talkback commands put data received on the RDTC into data fields of the FDTC. Data including VSELP loops back to the Mobile Station. The SP TST performs no decoding or error correction with this operation.

CSS:FDTC:TALK:

DELAY *n*
[CSS:FDTC:TALK:DELAY n]
Adds delay between receiving and transmitting in 20 ms intervals. Range of *n* is 0 to 250.

START
[CSS:FDTC:TALK:START]
Starts Talkback operation.

STOP
[CSS:FDTC:TALK:STOP]
Stops Talkback operation.

9-12-8 GLOBAL ACTION OVERHEAD MESSAGES

Global Action Overhead Messages are appended to the System Parameter Overhead message increasing the length of the overhead message train. Action (**CSS:GLACT:ACTion**) commands enable specific Global Action messages. Other commands define data and control operation.

CSS:GLACT:

SEND
[CSS:GLACT:SEND]
Starts Sending the Global Action as part of the primary Overhead Message Train (OMT).

Any selected secondary OMTs that are to contain enabled Global Actions require the **CSS:FOCC:OVER:BUILD** command.

STOP
[CSS:GLACT:STOP]
Stops sending the Global Action as part of the primary Overhead Message Train.

REPEAT:

OFF
[CSS:GLACT:REPEAT:OFF]
Sends the Global Action Overhead message in the primary OMT once after starting (**CSS:GLACT:SEND**).

ON
[CSS:GLACT:REPEAT:ON]
Sends the Global Action Overhead message in the primary OMT continuously after starting (**CSS:GLACT:SEND**) and stops when the **CSS:GLACT:STOP** command is initiated.

CSS:GLACT:

ACTion:

ACCess *n*
[CSS:GLACT:ACTion:ACCess n]
Enables or disables Access Attempt Parameters message (1 or 0).

ACCess?
[CSS:GLACT:ACTion:ACCess?]
Returns Access Attempt Parameters message Enable setting.

BIS *n*
[CSS:GLACT:ACTion:BIS n]
Enables or disables Access Type Parameters message (1 or 0). The Access Type Parameters message contains the BIS bit.

BIS?
[CSS:GLACT:ACTion:BIS?]
Returns Access Type Parameters message Enable setting.

LOCAID *n*
[CSS:GLACT:ACTion:LOCAID n]
Enables or disables Location Area message (1 or 0).

LOCAID?
[CSS:GLACT:ACTion:LOCAID?]
Returns Location Area message Enable setting.

LOCAL1 *n*
[CSS:GLACT:ACTion:LOCAL1 n]
Enables or disables Local Control 1 message (1 or 0).

LOCAL1?
[CSS:GLACT:ACTion:LOCAL1?]
Returns Local Control 1 message Enable setting.

LOCAL2 *n*
[CSS:GLACT:ACTion:LOCAL2 n]
Enables or disables Local Control 2 message (1 or 0).

LOCAL2?
[CSS:GLACT:ACTion:LOCAL2?]
Returns Local Control 2 message Enable setting.

NEWACC *n*
[CSS:GLACT:ACTion:NEWACC n]
Enables or disables New Access Channel Set message (1 or 0).

NEWACC?
[CSS:GLACT:ACTion:NEWACC?]
Returns New Access Channel Set message Enable setting.

CSS:GLACT:

ACTion:

OLC *n*
[CSS:GLACT:ACTion:OLC n]
Enables or disables Overload Control message (1 or 0).

OLC?
[CSS:GLACT:ACTion:OLC?]
Returns Overload Control message Enable setting.

RANDA *n*
[CSS:GLACT:ACTion:RANDA n]
Enables or disables Random Challenge A message (1 or 0).

RANDA?
[CSS:GLACT:ACTion:RANDA?]
Returns Random Challenge A message Enable setting.

RANDB *n*
[CSS:GLACT:ACTion:RANDB n]
Enables or disables Random Challenge B message (1 or 0).

RANDB?
[CSS:GLACT:ACTion:RANDB?]
Returns Random Challenge B message Enable setting.

REGINCR *n*
[CSS:GLACT:ACTion:REGINCR n]
Enables or disables Registration Increment message (1 or 0).

REGINCR?
[CSS:GLACT:ACTion:REGINCR?]
Returns Registration Increment message Enable setting.

RESCAN *n*
[CSS:GLACT:ACTion:RESCAN n]
Enables or disables Rescan message (1 or 0).

RESCAN?
[CSS:GLACT:ACTion:RESCAN?]
Returns Rescan message Enable setting.

BIS *n*
[CSS:GLACT:BIS n]
Enables (*n* = 1) or disables (*n* = 0) Busy-Idle Status.

BIS?
[CSS:GLACT:BIS?]
Returns current state of Busy-Idle Status.

CSS:GLACT:

LOCAID *n*
[CSS:GLACT:LOCAID n]
Sets Cell Site Location Area Identification. Range of *n* is 0 to 4095.

LOCAID?
[CSS:GLACT:LOCAID?]
Returns Cell Site Location Area Identification setting.

LOCALcntl *n*
[CSS:GLACT:LOCALcntl n]
Sets Local Control bits. Range of *n* is 0 to 65535.

LOCALcntl?
[CSS:GLACT:LOCALcntl?]
Returns value set for the Local Control bits.

LREG *n*
[CSS:GLACT:LREG n]
Enables (*n* = 1) or disables (*n* = 0) Local Area Identification Registration.

LREG?
[CSS:GLACT:LREG?]
Returns current state of Local Area Identification Registration.

MAXBusy:

OTHer *n*
[CSS:GLACT:MAXBusy:OTHer n]
Sets field indicating Maximum number of Busy occurrences allowed for Other than Page responses. Range of *n* is 0 to 15.

OTHer?
[CSS:GLACT:MAXBusy:OTHer?]
Returns Maximum number of Busy occurrences allowed for Other than Page responses setting.

PGR *n*
[CSS:GLACT:MAXBusy:PGR n]
Sets field indicating Maximum number of Busy occurrences allowed for Page responses. Range of *n* is 0 to 15.

PGR?
[CSS:GLACT:MAXBusy:PGR?]
Returns Maximum number of Busy occurrences allowed for Page responses field setting.

CSS:GLACT:

MAXSztr:

OTHer *n*
[CSS:GLACT:MAXSztr:OTHer n]
Sets field indicating Maximum number of Seizure Tries allowed for Other than Page responses. Range of *n* is 0 to 15.

OTHer?
[CSS:GLACT:MAXSztr:OTHer?]
Returns Maximum number of Seizure Tries allowed for Other than Page responses field setting.

PGR *n*
[CSS:GLACT:MAXSztr:PGR n]
Sets field indicating Maximum number of Seizure Tries for Page responses. Range of *n* is 0 to 15.

PGR?
[CSS:GLACT:MAXSztr:PGR?]
Returns Maximum number of Busy occurrences allowed for Page responses field setting.

NEWACC *n*
[CSS:GLACT:NEWACC n]
Sets New Access Channel starting point field. Range of *n* is 0 to 2047.

NEWACC?
[CSS:GLACT:NEWACC?]
Returns New Access Channel starting point field setting.

OLC *n*
[CSS:GLACT:OLC n]
Sets Overhead Class field. Range of *n* is 0 to 32767.

OLC?
[CSS:GLACT:OLC?]
Returns Overhead Class field setting.

PDREG *n*
[CSS:GLACT:PDREG n]
Enables (*n* = 1) or disables (*n* = 0) Power Down Registration.

PDREG?
[CSS:GLACT:PDREG?]
Returns current state of Power Down Registration.

PUREG *n*
[CSS:GLACT:PUREG n]
Enables (*n* = 1) or disables (*n* = 0) Power Up Registration.

PUREG?
[CSS:GLACT:PUREG?]
Returns current state of Power Up Registration.

CSS:GLACT:

RAND1_A *n*
[CSS:GLACT:RAND1_A n]
Sets 16 most significant bits of RAND. Range of *n* is 0 to 32767.

RAND1_A?
[CSS:GLACT:RAND1_A?]
Returns value set for the 16 most significant bits of RAND.

RAND1_B *n*
[CSS:GLACT:RAND1_B n]
Sets 16 least significant bits of RAND. Range of *n* is 0 to 32767.

RAND1_B?
[CSS:GLACT:RAND1_B?]
Returns value set for the 16 least significant bits of RAND.

REGINCR *n*
[CSS:GLACT:REGINCR n]
Sets Registration Increment field. Range of *n* is 0 to 4095.

REGINCR?
[CSS:GLACT:REGINCR?]
Returns Registration Increment field setting.

9-12-9 MOBILE STATION CONTROL MESSAGES

Mobile Station Control messages, sent on the Forward Control Channel, replace the Overhead Message Train. **CSS:MSCM:ORDER:** commands select the Mobile Station Control Message.

CSS:MSCM:

SEND
[CSS:MSCM:SEND]
Starts sending the Mobile Station Control message in the selected Overhead Message Train (OMT) (primary or one of the four secondary OMTs).

If repeat is turned OFF, this command times out if the message cannot be sent out in 7 sec. This could happen if the message was sent as part of a secondary cycle that was repeated no more than every 7 sec.

STOP
[CSS:MSCM:STOP]
Stops sending the Mobile Station Control message.

REPEAT:

OFF
[CSS:MSCM:REPEAT:OFF]
Sends the Mobile Station Control message in the selected OMTs (primary or one of the four secondary OMTs) once after starting (**CSS:MSCM:SEND**).

ON
[CSS:MSCM:REPEAT:ON]
Sends the Mobile Station Control Message continuously in the selected OMTs (primary or one of the four secondary OMTs) after the **CSS:MSCM:SEND** command and stops when **CSS:MSCM:STOP** command is initiated.

ORDER:

The following commands select a specific Mobile Station Control Message to be sent in the selected OMT. The selected messages may be sent in the OMT with the **CSS:MSCM:SEND** command.

A_ALERT
[CSS:MSCM:ORDER:A_ALERT]
Selects Abbreviated Alert message.

ANA_VC_DES
[CSS:MSCM:ORDER:ANA_VC_DES]
Selects Analog Voice Channel Assignment message.

ASYNC_PAGE
[CSS:MSCM:ORDER:ASYNC_PAGE]
Selects Page (Async Data) message.

AUDIT
[CSS:MSCM:ORDER:AUDIT]
Selects Audit message.

CSS:MSCM:

ORDER:

BSCHALCON
[CSS:MSCM:ORDER:BSCHALCON]
Selects Base Station Challenge Confirmation message.

DIR_RTRY
[CSS:MSCM:ORDER:DIR_RTRY]
Selects Directed-Retry message.

G3_MSG_WTG
[CSS:MSCM:ORDER:G3_MSG_WTG]
Selects G3-Fax Message Waiting message.

G3_PAGE
[CSS:MSCM:ORDER:G3_PAGE]
Selects Page (Group 3 Fax) message.

INTRCPT
[CSS:MSCM:ORDER:INTRCPT]
Selects Intercept message.

IS136:

SLOT1
[CSS:MSCM:ORDER:IS136:SLOT1]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 1, Full-Rate message type (VSELP).

SLOT2
[CSS:MSCM:ORDER:IS136:SLOT2]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 2, Full-Rate message type (VSELP).

SLOT3
[CSS:MSCM:ORDER:IS136:SLOT3]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 3, Full-Rate message type (VSELP).

CSS:MSCM:

ORDER:

IS136:

IS641:

SLOT1
[CSS:MSCM:ORDER:IS136:IS641:SLOT1]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 1, Full-Rate message type (ACELP).

SLOT2
[CSS:MSCM:ORDER:IS136:IS641:SLOT2]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 2, Full-Rate message type (ACELP).

SLOT3
[CSS:MSCM:ORDER:IS136:IS641:SLOT3]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 3, Full-Rate message type (ACELP).

FAXdata:

SLOT1
[CSS:MSCM:ORDER:IS136:FAXdata:SLOT1]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 1, full-rate order (Fax/Data).

SLOT2
[CSS:MSCM:ORDER:IS136:FAXdata:SLOT2]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 2, full-rate (Fax/Data) message type.

SLOT3
[CSS:MSCM:ORDER:IS136:FAXdata:SLOT3]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslot 3, full-rate (Fax/Data) message type.

SLOT1_2
[CSS:MSCM:ORDER:IS136:FAXdata:SLOT1_2]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslots 1 & 2, double rate (Fax/Data) message type.

SLOT1_3
[CSS:MSCM:ORDER:IS136:FAXdata:SLOT1_3]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslots 1 & 3, double rate (Fax/Data) message type.

SLOT2_3
[CSS:MSCM:ORDER:IS136:FAXdata:SLOT2_3]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslots 2 & 3, double rate (Fax/Data) message type.

CSS:MSCM:

ORDER:

IS136:

FAXdata:

SLOT1_2_3
[CSS:MSCM:ORDER:IS136:FAXdata:SLOT1_2_3]
Sends a DTC Assignment for IS-136 order with Assigned to Timeslots 1, 2 & 3, triple rate (Fax/Data) message type.

LC
[CSS:MSCM:ORDER:LC]
Selects Local Control message.

MSG_WTG
[CSS:MSCM:ORDER:MSG_WTG]
Selects Message Waiting message.

PAGE
[CSS:MSCM:ORDER:PAGE]
Selects Page message.

REG_AUTH_CNF
[CSS:MSCM:ORDER:REG_AUTH_CNF]
Selects Autonomous Registration (with Authentication Word C) Confirmation message.

REG_CNF
[CSS:MSCM:ORDER:REG_CNF]
Selects Registration Confirmation message.

RELease
[CSS:MSCM:ORDER:RELease]
Selects Release message.

REORDER
[CSS:MSCM:ORDER:REORDER]
Selects Reorder message.

SLOT1
[CSS:MSCM:ORDER:SLOT1]
Selects Digital Channel Assignment to Timeslot 1 message.

SLOT2
[CSS:MSCM:ORDER:SLOT2]
Selects Digital Channel Assignment to Timeslot 2 message.

SLOT3
[CSS:MSCM:ORDER:SLOT3]
Selects Digital Channel Assignment to Timeslot 3 message.

CSS:MSCM:

ORDER:

SMS_MSG_WTG
[CSS:MSCM:ORDER:SMS_MSG_WTG]
Selects SMS Message Waiting message.

SSD_UP
[CSS:MSCM:ORDER:SSD_UP]
Selects Shared Secret Data Update message.

UCHAL
[CSS:MSCM:ORDER:UCHAL]
Selects Unique Challenge message.

VC_DES
[CSS:MSCM:ORDER:VC_DES]
Selects Voice Channel Designation message.

VOICE_MSG_WTG
[CSS:MSCM:ORDER:VOICE_MSG_WTG]
Selects Voice Message Waiting message.

AUTHBS *n*
[CSS:MSCM:AUTHBS n]
Sets AUTHBS value. Range of *n* is 0 to 262143.

AUTHBS?
[CSS:MSCM:AUTHBS?]
Returns AUTHBS value setting.

CHAN *n*
[CSS:MSCM:CHAN n]
Selects RF Channel. Range of *n* is 0 to 2047.

CHAN?
[CSS:MSCM:CHAN?]
Returns RF Channel setting.

CHANPos *n,x*
[CSS:MSCM:CHANPos n,x]
Sets selected Channel Position field sent in Directed-Retry message. Range of *n* is 0 to 5 (indicating Channel Positions 1 to 6). Range of *x* is 0 to 127.

CHANPos? *n*
[CSS:MSCM:CHANPos? n]
Returns selected Channel Position field setting. Range of *n* is 0 to 5.

CSS:MSCM:

DMAC *n*
[CSS:MSCM:DMAC n]
Sets Digital Mobile Attenuation Code. Range of *n* is 0 to 10.

DMAC?
[CSS:MSCM:DMAC?]
Returns Digital Mobile Attenuation Code setting.

DVCC *n*
[CSS:MSCM:DVCC n]
Sets Digital Verification Color Code. Range of *n* is 0 to 255.

DVCC?
[CSS:MSCM:DVCC?]
Returns Digital Verification Color Code setting.

EF *n*
[CSS:MSCM:EF n]
Enables (*n* = 1) or disables (*n* = 0) Extended Protocol Forward Channel Indicator.

EF?
[CSS:MSCM:EF?]
Returns current state of Extended Protocol Forward Channel Indicator.

LOCAL *n*
[CSS:MSCM:LOCAL n]
Sets the Local Control (Local Control message)/Message Type field. Range of *n* is 0 to 31.

LOCAL?
[CSS:MSCM:LOCAL?]
Returns the Local Control/Message Type field setting.

MEM *n*
[CSS:MSCM:MEM n]
Enables (*n* = 1) or disables (*n* = 0) Message Encryption Mode.

MEM?
[CSS:MSCM:MEM?]
Returns current state of Message Encryption Mode.

CSS:MSCM:

MIN *"n"*
[CSS:MSCM:MIN "n"]
Selects Mobile Identification Number. The Mobile Identification Number (*n*) is entered as a string, with quotation marks (i.e., "316/522-4981").

MIN?
[CSS:MSCM:MIN?]
Returns Mobile Identification Number string setting.

ORDQ *n*
[CSS:MSCM:ORDQ n]
Sets Order Qualifier field. Range of *n* is 0 to 7.

ORDQ?
[CSS:MSCM:ORDQ?]
Returns Order Qualifier field setting.

PM *n*
[CSS:MSCM:PM n]
Enables (*n* = 1) or disables (*n* = 0) Privacy Mode Indicator.

PM?
[CSS:MSCM:PM?]
Returns current state of Privacy Mode Indicator.

PVI *n*
[CSS:MSCM:PVI n]
Enables (*n* = 1) or disables (*n* = 0) Protocol Version Indicator.

PVI?
[CSS:MSCM:PVI?]
Returns current state of PVI.

RANDSSD1 *n*
[CSS:MSCM:RANDSSD1 n]
Sets the 24 most significant bits of the Random Number sent in the SSD Update message (first order word). Range of *n* is 0 to 16777215.

RANDSSD1?
[CSS:MSCM:RANDSSD1?]
Returns the value set for the 24 most significant bits of the Random Number sent in the SSD Update message.

CSS:MSCM:

RANDSSD2 *n*
[CSS:MSCM:RANDSSD2 n]
Sets the 24 intermediate bits of the Random Number sent in the SSD Update message (second order word). Range of *n* is 0 to 16777215.

RANDSSD2?
[CSS:MSCM:RANDSSD2?]
Returns the value set for the 24 intermediate bits of the Random Number sent in the SSD Update message.

RANDSSD3 *n*
[CSS:MSCM:RANDSSD3 n]
Sets the eight least significant bits of the Random Number sent in the SSD Update message (third order word). Range of *n* is 0 to 255.

RANDSSD3?
[CSS:MSCM:RANDSSD3?]
Returns the value set for the eight least significant bits of the Random Number sent in the SSD Update message.

RANDU *n*
[CSS:MSCM:RANDU n]
Sets the 24 bit Random Number sent in the Unique Challenge message. Range of *n* is 0 to 16777215.

RANDU?
[CSS:MSCM:RANDU?]
Returns the Unique Challenge 24 bit Random Number setting.

SCC *n*
[CSS:MSCM:SCC n]
Sets Supervisory Audio Tone Color Code. Range of *n* is 0 to 2.

SCC?
[CSS:MSCM:SCC?]
Returns Supervisory Audio Tone Color Code setting.

VMAC *n*
[CSS:MSCM:VMAC n]
Sets Voice Mobile Attenuation Code. Range of *n* is 0 to 7.

VMAC?
[CSS:MSCM:VMAC?]
Returns Voice Mobile Attenuation Code setting.

9-12-10 OVERHEAD ENABLE COMMANDS

CSS:ENABLE:

DCCH *n*
[CSS:ENABLE:DCCH n]
Enables (*n* = 1) or disables (*n* = 0) DCCH information word.

REGID *n*
[CSS:ENABLE:REGID n]
Enables (*n* = 1) or disables (*n* = 0) Registration ID word.

The remaining portion of this section (9-12) contains the TMAC commands necessary to simulate the Forward Digital Control Channel (FDCCH) being transmitted from a Base Station.

9-12-11 SUPERFRAME SETUP

The FDCCH Generator has all the TMAC commands and operations needed to build and maintain a Superframe. Each phase of the Superframe can be changed as the Superframe is being transmitted. A TMAC command returns the Superframe phase currently being transmitted. This enables a TMAC program, that changes the data, to become synchronized with the Superframe cycle.

CSS:FDCCH:SUPERframe:

SFP *n,m*
[CSS:FDCCH:SUPERframe:SFP n,m]
Selects a Super Frame Phase (*m*) within a Superframe slot (*n*) being programmed. Range of *n* is 0 to 31; range of *m* is 0 to 255.

The CRC is performed by the Sp Tst.

SFP? *n*
[CSS:FDCCH:SUPERframe:SFP? n]
Returns current value of SFP indexed by *n*. Range of *n* is 0 to 31.

BRI *n,m*
[CSS:FDCCH:SUPERframe:BRI n,m]
Specifies Busy/Idle/Reserved (*m*) within a selected Superframe slot (*n*) being programmed. Range of *n* is 0 to 31; range of *m* is 0 to 63.

BRI? *n*
[CSS:FDCCH:SUPERframe:BRI? n]
Returns current value of BRI indexed by *n*. Range of *n* is 0 to 31.

CSS:FDCCH:SUPERframe:

PE *n,m*
[CSS:FDCCH:SUPERframe:PE n,m]
Specifies Partial Echo (*m*) within a Superframe slot (*n*) being programmed. Range of *n* is 0 to 31; range of *m* is 0 to 127.

The CRC is performed by the Sp Tst.

PE? *n*
[CSS:FDCCH:SUPERframe:PE? n]
Returns current value of PE indexed by *n*. Range of *n* is 0 to 31.

RN *n,m*
[CSS:FDCCH:SUPERframe:RN n,m]
Specifies Received/Not Received (*m*) within a Superframe slot (*n*) being programmed. Range of *n* is 0 to 31; range of *m* is 0 to 31.

RN? *n*
[CSS:FDCCH:SUPERframe:RN? n]
Returns current value of RN indexed by *n*. Range of *n* is 0 to 31.

DATA *n,x,word*
[CSS:FDCCH:SUPERframe:DATA n,x,word]
Specifies one of the 7 words (indexed by *x*) that comprise the data transmitted per selected Superframe slot (*n*). Range of *n* is 0 to 31; range of *x* is 0 to 6; range of *word* is 0 to #hFFFF.

The data transmitted in a Superframe slot consists of 109 bits. The data is divided into seven 16 bit words. *x* = 0 selects the most significant word. *x* = 6 selects the least significant word.

The CRC, convolutional encoding and interleaving processes are performed by the Sp Tst.

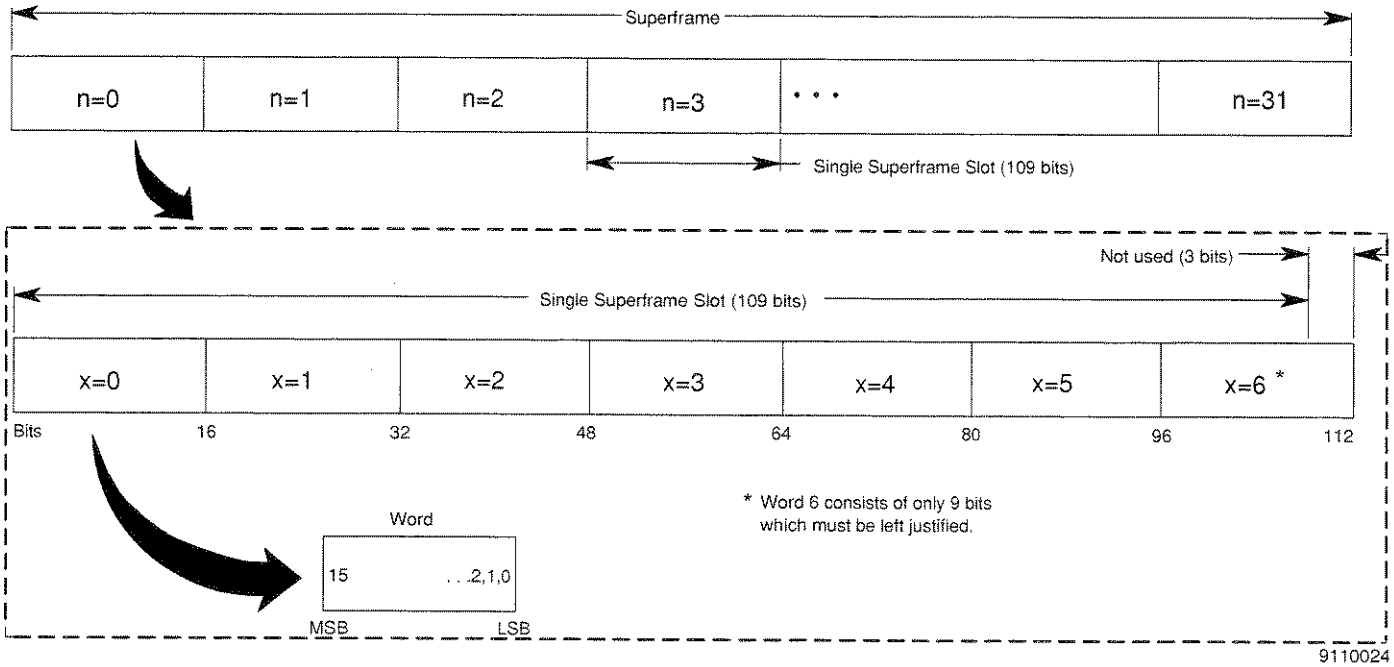

Figure 9-3 Superframe Data Message

CSS:FDCCH:SUPERframe:

DATA? *n,m*
[CSS:FDCCH:SUPERframe:DATA? n,x]
Returns current value of DATA indexed by *n*. Range of *n* is 0 to 31; range of *x* is 0 to 6.

TYPE *n,m*
[CSS:FDCCH:SUPERframe:TYPE n,m]
Specifies Type (*m*) of data in Superframe slot (*n*). Range of *n* is 0 to 31, range of *m* is 0 to 4.

m	TYPE
0	F-BCCH
1	E-BCCH
2	S-BCCH
3	SPACH
4	RESERVED

TYPE? *n*
[CSS:FDCCH:SUPERframe:TYPE? n]
Returns current value of TYPE indexed by *n*. Range of *n* is 0 to 31.

DVCC *n*
[CSS:FDCCH:SUPERframe:DVCC n]
Specifies Digital Verification Color Code. Range of *n* is 0 to 255.

DVCC must be specified in order to calculate the CRC for each type except F-BCCH.

DVCC?
[CSS:FDCCH:SUPERframe:DVCC?]
Returns current value of DVCC. Range of *n* is 0 to 31.

STARt
[CSS:FDCCH:SUPERframe:STARt]
Starts the superframe generating task.

STOP
[CSS:FDCCH:SUPERframe:STOP]
Stops the superframe generating task.

CSS:FDCCH:SUPERframe:

ACCess:

TYPE:

RANDom
[CSS:FDCCH:SUPERframe:ACCess:TYPE:RANDom]
Programs the Sp Tst to allow a mobile station to make a Random access.

This command performs the following:

1. Sets BRI to Idle in all frames.
2. After an access from a Mobile Station, the following occurs in the frame corresponding to the RACH subchannel:
   - BRI = Busy.
   - R/N = Received.
   - CPE = 7 Least Significant Bits of the MIN of Mobile Station which made the access ***plus*** the 4 bit CRC.

The values that make up the SCF (Shared Channel Feedback) (**CSS:FDCCH:SUPER:PE**, **CSS:FDCCH:SUPER:BRI** and **CSS:FDCCH:SUPER:RN**) are overwritten when an access occurs.

REServed
[CSS:FDCCH:SUPERframe:ACCess:TYPE:REServed]
Programs the Sp Tst to allow a mobile station to make a Reserved access.

This command performs the following:

1. Sets BRI to Reserved in all frames.
2. Sets CPE to value set by **CSS:FDCCH:SUPER:ACCESS:PE** ***plus*** the 4 bit CRC.
3. After an access from a Mobile Station, the following occurs in the frame corresponding to the RACH subchannel:
   - BRI = Busy.
   - R/N = Received.
   - CPE remains unchanged.

The values that make up the SCF (Shared Channel Feedback) (**CSS:FDCCH:SUPER:PE**, **CSS:FDCCH:SUPER:BRI** and **CSS:FDCCH:SUPER:RN**) are overwritten when an access occurs.

CSS:FDCCH:SUPERframe:

ACCess:

TYPE:

PROGram
[CSS:FDCCH:SUPERframe:ACCess:TYPE:PROGram]
Configures the values of SCF as pre-programmed by **CSS:FDCCH:SUPERframe: ACCess:SCF**.

After each frame of the access from a Mobile Station, the following occurs in the frame corresponding to the RACH subchannel:

1. Sets R/N and BRI are set according to the selection of **CSS:FDCCH:SUPER: ACCESS:SCF**.
2. Sets CPE to value determined by **CSS:FDCCH:SUPER:ACCESS:PE *plus*** the 4 bit CRC.

NONE
[CSS:FDCCH:SUPERframe:ACCess:TYPE:NONE]
The values that make up the SCF do not change when an access occurs.

TYPE?
[CSS:FDCCH:SUPERframe:ACCess:TYPE?]
Returns current value of TYPE.

PE *n*
[CSS:FDCCH:SUPERframe:ACCess:PE n]
Programs the Partial Echo used during a Program or Reserved access. Range of *n* is 0 to 127.

The CRC is performed by the Sp Tst.

PE?
[CSS:FDCCH:SUPERframe:ACCess:PE?]
Returns current value of PE.

CSS:FDCCH:SUPERframe:

ACCess:

SCF *n,m*
[CSS:FDCCH:SUPERframe:ACCess:SCF n,m]
Pre-program the Shared Channel Feedback response (*m*) in the selected frame (*n*) of a RACH. Range of *n* is 0 to 79; range of *m* is 0, 2, 4, 6, 8 or 10.

m	R/N	BRI
0	R	B
2	R	R
4	R	I
6	N	B
8	N	R
10	N	I

LEGEND	
R	Received
N	Not Received
B	Busy
R	Reserved
I	Idle

Table 9-3 Shared Channel Feedback Response

SCF? *n*
[CSS:FDCCH:SUPERframe:ACCess:SCF? n]
Returns current value of SCF indexed by *n*. Range of *n* is 0 to 31.

INCrement *n*
[CSS:FDCCH:SUPERframe:INCrement n]
Enables (*n* = 1) or disables (*n* = 0) the auto-incrementing of the hyperframe counter and the toggling of the superframe indicator.

The Extended hyperframe counter and/or CBN_High are also auto-incremented if enabled.

NUMBer? -or- NUM?
[CSS:FDCCH:SUPERframe:NUMBer?]
Returns the current number of the selected slot in the superframe being transmitted.

The returned value of this command indicates which slot of the superframe is currently being transmitted. Using this information, a program or macro can change the data in the superframe without disturbing the slot currently being transmitted.

ZERO
[CSS:FDCCH:SUPERframe:ZERO]
Removes all data from the current superframe.

9-12-12 F-BCCH COMMANDS

The F-BCCH commands are used to build data into the F-BCCH slots of the superframe. These commands enable the user to construct the F-BCCH by specifying the Layer 3 BCCH message types and data fields. The F-BCCH slots can be built and then, with the aid of the **CSS:FDCCH:SUPERframe:NUMBer?** command, be placed at the start of the superframe while the E-BCCH slots or SPACH slots are being transmitted. This enables the F-BCCH to be constantly updated, even as the superframe is being transmitted. In addition, any slot of the F-BCCH can be manually modified or distorted by the **CSS:FDCCH:SUPERframe:DATA** command.

CSS:FBCCH:

BUILD
[CSS:FBCCH:BUILD]
This command builds the data that makes up the F-BCCH. This data can then be returned by the **CSS:FBCCH:DATA?** command defined below. Before executing this command, the message types and data fields that make up the F-BCCH should be programmed. This command then, takes that information and generates all the data that makes up the data field in each slot of the F-BCCH section of the superframe. The superframe can then be programmed with the **CSS:FBCCH:PROGram** command defined below. Perform the following steps to build an F-BCCH:

1. Enable the desired Message Types.
2. Enable the desired optional fields associated with the selected message types.
3. Program the data fields associated with the enabled message types.
4. Build the F-BCCH.
5. Program the superframe.

LENGth?
[CSS:FBCCH:LENGth?]
After the **CSS:FBCCH:BUILD** command has been executed, the Length of the F-BCCH in slots, can be returned. Knowing the length of the F-BCCH aids the user in setting up the number of F-BCCH data fields in the DCCH Structure.

DATA? *n,m*
[CSS:FBCCH:DATA? n,m]
This command returns the F-BCCH data that has been built. Returns the 16 bit word indexed by *m* from slot (*n*). Range of *n* is 0 to 10; range of *m* is 0 to 6.

Each slots consist of 109 bits. The 16 most significant bits of the data are returned when *m* = 0; the 13 least significant bits of data are returned when *m* = 6. The data returned is left justified.

The above data format correlates with the data format used in the **CSS:FDCCH:SUPER:DATA *n,x,word*** command.

PROGram
[CSS:FBCCH:PROGram]
Programs the F-BCCH slots in the superframe with the data constructed by the **CSS:FBCCH:BUILD** command.

CSS:FBCCH:

EC *n*
[CSS:FBCCH:EC n]
Enables (*n* = 1) or disables (*n* = 0) Extended Broadcast Control Channel Change Flag.

EC?
[CSS:FBCCH:EC?]
Returns current state of EC.

FC *n*
[CSS:FBCCH:FC n]
Enables (*n* = 1) or disables (*n* = 0) Fast Broadcast Control Channel Change Flag.

FC?
[CSS:FBCCH:FC?]
Returns current state of FC.

PD *n*
[CSS:FBCCH:PD n]
Specifies the value of Protocol Discriminator. Range of *n* is 0 to 3.

PD?
[CSS:FBCCH:PD?]
Returns the current value of Protocol Discriminator.

MSGtype:

STRUCTure *n*
[CSS:FBCCH:MSGtype:STRUCTure n]
Enables (*n* = 1) or disables (*n* = 0) DCCH Structure message.

This message must always be sent first.

STRUCTure?
[CSS:FBCCH:MSGtype:STRUCTure?]
Returns current state of the DCCH Structure message enable.

ACCess *n*
[CSS:FBCCH:MSGtype:ACCess n]
Enables (*n* = 1) or disables (*n* = 0) Access Parameters message.

ACCess?
[CSS:FBCCH:MSGtype:ACCess?]
Returns current state of the Access Parameters message enable.

SELection *n*
[CSS:FBCCH:MSGtype:SELection n]
Enables (*n* = 1) or disables (*n* = 0) Control Channel Selection Parameters message.

SELection?
[CSS:FBCCH:MSGtype:SELection?]
Returns current state of the Control Channel Selection Parameters message enable.

CSS:FBCCH:

MSGtype:

REGistration *n*
[CSS:FBCCH:MSGtype:REGistration n]
Enables (*n* = 1) or disables (*n* = 0) Registration parameters message.

REGistration?
[CSS:FBCCH:MSGtype:REGistration?]
Returns current state of the Registration parameters message enable.

SYSID *n*
[CSS:FBCCH:MSGtype:SYSID n]
Enables (*n* = 1) or disables (*n* = 0) System Identification message.

SYSID?
[CSS:FBCCH:MSGtype:SYSID?]
Returns current state of the System Identification message enable.

BSMC *n*
[CSS:FBCCH:MSGtype:BSMC n]
Enables (*n* = 1) or disables (*n* = 0) Base Station Manufacture Code message.

BSMC?
[CSS:FBCCH:MSGtype:BSMC?]
Returns current state of the Base Station Manufacture Code message enable.

MACA *n*
[CSS:FBCCH:MSGtype:MACA n]
Enables (*n* = 1) or disables (*n* = 0) Mobile Assisted Channel Allocation message.

When enabled, orders the mobile station to report radio measurements on certain channels. Order consists of instructions regarding the channels the mobile station shall measure and when to report the measurements for the Mobile Assisted Channel Allocation.

MACA?
[CSS:FBCCH:MSGtype:MACA?]
Returns current state of the Mobile Assisted Channel Allocation message enable.

OLC *n*
[CSS:FBCCH:MSGtype:OLC n]
Enables (*n* = 1) or disables (*n* = 0) Overload Class message.

Used to regulate originations and registrations on the RACH.

OLC?
[CSS:FBCCH:MSGtype:OLC?]
Returns current state of the Overload Class message enable.

CSS:FBCCH:

MSGtype:

SERVice *n*
[CSS:FBCCH:MSGtype:SERVice n]
Enables (*n* = 1) or disables (*n* = 0) Service Menu message.

Provides a list of services supported by the BMI.

SERVice?
[CSS:FBCCH:MSGtype:SERVice?]
Returns current state of the Service Menu message enable.

SOC_BSMC *n*
[CSS:FBCCH:MSGtype:SOC_BSMC n]
Enables (*n* = 1) or disables (*n* = 0) System Operator Code/Base Station Manufacture Code message.

SOC and BSMC value associated with the BMI.

SOC_BSMC?
[CSS:FBCCH:MSGtype:SOC_BSMC?]
Returns current state of the System Operator Code/Base Station Manufacture Code message enable.

SOC *n*
[CSS:FBCCH:MSGtype:SOC n]
Enables (*n* = 1) or disables (*n* = 0) Message Delivery message.

SOC?
[CSS:FBCCH:MSGtype:SOC?]
Returns current state of the Message Delivery message enable.

MACA_MULti *n*
[CSS:FBCCH:MSGtype:MACA_MULti n]
Enables (*n* = 1) or disables (*n* = 0) Mobile Assisted Channel Allocation (Multi Hyperband) message.

MACA_MULti?
[CSS:FBCCH:MSGtype:MACA_MULti?]
Returns current state of the Mobile Assisted Channel Allocation (Multi Hyperband) message enable.

CSS:FBCCH:

NUMber:

FBCCH *n*
[CSS:FBCCH:NUMber:FBCCH n]
Specifies Number of FBCCH. Range of *n* is 0 to 7.

FBCCH?
[CSS:FBCCH:NUMber:FBCCH?]
Returns current value of FBCCH.

EBCCH *n*
[CSS:FBCCH:NUMber:EBCCH n]
Specifies Number of EBCCH. Range of *n* is 0 to 7.

EBCCH?
[CSS:FBCCH:NUMber:EBCCH?]
Returns current value of EBCCH.

SBCCH *n*
[CSS:FBCCH:NUMber:SBCCH n]
Specifies Number of SBCCH. Range of *n* is 0 to 15.

SBCCH?
[CSS:FBCCH:NUMber:SBCCH?]
Returns current value of SBCCH.

REServed *n*
[CSS:FBCCH:NUMber:REServed n]
Specifies Number of Reserved Slots. Range of *n* is 0 to 7.

REServed?
[CSS:FBCCH:NUMber:REServed?]
Returns current value of REServed.

NON_PCH *n*
[CSS:FBCCH:NUMber:NON_PCH n]
Specifies Number of Non-Paging Channel Subchannel Slots. Range of *n* is 0 to 3.

NON_PCH?
[CSS:FBCCH:NUMber:NON_PCH?]
Returns current value of NON_PCH.

HYPERframe *n*
[CSS:FBCCH:HYPERframe n]
Specifies Hyperframe Counter. Range of *n* is 0 to 15.

HYPERframe?
[CSS:FBCCH:HYPERframe?]
Returns current value of HYPERframe.

CSS:FBCCH:

EXTended *n*
[CSS:FBCCH:EXTended n]
Specifies Extended Hyperframe Counter. Range of *n* is 0 to 7.

EXTended?
[CSS:FBCCH:EXTended?]
Returns current value of EXTended.

SUPERframe *n*
[CSS:FBCCH:SUPERframe n]
Enables (*n* = 1) or disables (*n* = 0) Primary Superframe Indicator.

SUPERframe?
[CSS:FBCCH:SUPERframe?]
Returns current state of SUPERframe.

CONfiguration *n*
[CSS:FBCCH:CONfiguration n]
Specifies Slot Configuration. Range of *n* is 0 to 3.

CONfiguration?
[CSS:FBCCH:CONfiguration?]
Returns current value of CONfiguration.

DVCC *n*
[CSS:FBCCH:DVCC n]
Specifies Digital Verification Color Code. Range of *n* is 0 to 255.

DVCC?
[CSS:FBCCH:DVCC?]
Returns current value of DVCC.

PFC *n*
[CSS:FBCCH:PFC n]
Specifies MAX_SUPPORTED_PFC. Range of *n* is 0 to 7.

Maximum paging frame class supported by a DCCH or a mobile station.

PFC?
[CSS:FBCCH:PFC?]
Returns current value of PFC.

PCH *n*
[CSS:FBCCH:PCH n]
Specifies PCH_DISPLACEMENT (Paging Channel Displacement). Range of *n* is 0 to 7.

Number of additional SPACH Slots the mobile station reads when PCON (page continuation) is enabled.

PCH?
[CSS:FBCCH:PCH?]
Returns the value of PCH.

CSS:FBCCH:

PFM *n*
[CSS:FBCCH:PFM n]
Enables (*n* = 1) or disables (*n* = 0) PFM_DIRECTION.

Paging Frame Modifier defines whether the Layer 2 PFM flag is a pull-in (reduce the Paging Frame Class by one) or a push-out (increment by one) flag.

PFM?
[CSS:FBCCH:PFM?]
Returns current state of PFM.

CBN:

HIGH *n*
[CSS:FBCCH:CBN:HIGH n]
Specifies CBN_High. Range of *n* is 0 to #hFFFF.

Contains information to support message encryption on the forward and reverse DCCH and DTC.

HIGH?
[CSS:FBCCH:CBN:HIGH?]
Returns the value of HIGH.

NONPublic:

PROBability:

Can be used to determine if each channel probability block for a given system configuration contains a DCCH for a non-public system in the current service area.

LENGth *n*
[CSS:FBCCH:NONPublic:PROBability:LENGth n]
Specifies Non-Public Map Length. Range of *n* is 0 to 15.

LENGth?
[CSS:FBCCH:NONPublic:PROBability:LENGth?]
Returns current value of LENGth.

BLOCK *n*
[CSS:FBCCH:NONPublic:PROBability:BLOCK n]
Specifies Non-Public Block Map. Range of *n* is 0 to #hFFFF.

BLOCk?
[CSS:FBCCH:NONPublic:PROBability:BLOCk?]
Returns current value of BLOCk.

CSS:FBCCH:

NONPublic:

REGistration:

CONTrol *n*
[CSS:FBCCH:NONPublic:REGistration:CONTrol n]
Specifies Non-Public Registration Control. Range of *n* is 0 to 3.

CONTrol?
[CSS:FBCCH:NONPublic:REGistration:CONTrol?]
Returns current value of CONTrol.

AUTH *n*
[CSS:FBCCH:AUTH n]
Enables (*n* = 1) or disables (*n* = 0) AUTH.

When enabled, mobile station sends the Authentication message along with a Registration, Origination, Page Response or SPACH Confirmation message due to SPACH Notification indicating R-DATA.

AUTH?
[CSS:FBCCH:AUTH?]
Returns current state of AUTH.

S *n*
[CSS:FBCCH:S n]
Enables (*n* = 1) or disables (*n* = 0) Serial number.

When enabled, the mobile station sends the Serial Number message along with a Registration, Origination, Page Response or SPACH Confirmation message due to SPACH Notification indicating R-DATA, Base Station Challenge Order or Unique Challenge Order Confirmation.

S?
[CSS:FBCCH:S?]
Returns current state of S.

RAND *n*
[CSS:FBCCH:RAND n]
Specifies RAND. Range of *n* is 0 to #hFFFFFFFF.

Random number stored by a mobile station is used for selected authentication processes.

RAND?
[CSS:FBCCH:RAND?]
Returns current value of RAND.

CSS:FBCCH:

ACCess:

MS_PWR *n*
[CSS:FBCCH:ACCess:MS_PWR n]
Specifies MS_ACC_PWR (Mobile Station Analog Control Channel Power). Range of *n* is 0 to 15.

Maximum nominal output power that the mobile station shall use when accessing the BMI (Base Station, MSC and Interworking Function). MS_ACC_PWR is also used when determining criteria for control channel selection and reselection.

MS_PWR?
[CSS:FBCCH:ACCess:MS_PWR?]
Returns current value of MS_PWR.

RSS_MIN *n*
[CSS:FBCCH:ACCess:RSS_MIN n]
RSS_ACC_MIN (Received Signal Strength Analog Control Channel Minimum). Range of *n* is 0 to 31.

Used for the cell (re)selection process. RSS_ACC_MIN is the minimum received signal strength required to access the cell.

RSS_MIN?
[CSS:FBCCH:ACCess:RSS_MIN?]
Returns current value of RSS_MIN.

BURSTsize *n*
[CSS:FBCCH:ACCess:BURSTsize n]
Enables (*n* = 1) or disables (*n* = 0) Access Burst Size.

Informs the mobile station of which burst size to use on the RACH (Random Access Control Channel).

BURSTsize?
[CSS:FBCCH:ACCess:BURSTsize?]
Returns current state of BURSTsize.

CSS:FBCCH:

MAX:

RETries *n*
[CSS:FBCCH:MAX:RETries n]
Specifies Max Retries. Range of *n* is 0 to 7.

Maximum number of access attempts that Layer 2 can make before declaring the access to have failed.

RETries?
[CSS:FBCCH:MAX:RETries?]
Returns current value of RETries.

BUSY *n*
[CSS:FBCCH:MAX:BUSY n]
Enables (*n* = 1) or disables (*n* = 0) Max Busy/Reserved.

Maximum number of times that BRI (Busy Reserved Idle) ≠ Idle can be detected during any given access attempt before Layer 2 declares an access attempt failure.

BUSY?
[CSS:FBCCH:MAX:BUSY?]
Returns current state of BUSY.

REPetitions *n*
[CSS:FBCCH:MAX:REPetitions n]
Specifies Max Repetitions. Range of *n* is 0 to 3.

Maximum number of times a specific burst within any given access attempt may be sent to the RACH before Layer 2 declares an access attempt failure.

REPetitions?
[CSS:FBCCH:MAX:REPetitions?]
Returns current value of REPetitions.

STOP *n*
[CSS:FBCCH:MAX:STOP n]
Enables (*n* = 1) or disables (*n* = 0) Max Stop Counter.

Max Stop Counter identifies the maximum number of times either of the following conditions can be detected for any given access attempt before Layer 2 declares an access attempt failure:

- BRI set to Reserved or Idle after sending an intermediate burst of an access attempt.
- R/N set to Not Received along with BRI set to Reserved or Idle after sending the last burst of an access attempt.

STOP?
[CSS:FBCCH:MAX:STOP?]
Returns current value of STOP.

CSS:FBCCH:

RDATA:

LENGth *n*
[CSS:FBCCH:RDATA:LENGth n]
Specifies R-DATA Message Length. Range of *n* is 0 to 7.

LENGth?
[CSS:FBCCH:RDATA:LENGth?]
Returns current value of LENGth.

BARred *n*
[CSS:FBCCH:BARred n]
Specifies Cell Barred. Range of *n* is 0 to 31.

BARred?
[CSS:FBCCH:BARred?]
Returns current value of BARred.

SUBaddressing *n*
[CSS:FBCCH:SUBaddressing n]
Enables (*n* = 1) or disables (*n* = 0) Subaddressing Support.

SUBaddressing?
[CSS:FBCCH:SUBaddressing?]
Returns current state of SUBaddressing.

DIC *n*
[CSS:FBCCH:DIC n]
Enables (*n* = 1) or disables (*n* = 0) Delay Interval Compensation Mode.

Controls the DIC mode application in the mobile station. When received in the access parameters message, the domain of DIC application shall be the DCCH. When received in the Digital Traffic Channel Designation message, the domain of DIC application shall be the DTC.

DIC?
[CSS:FBCCH:DIC?]
Returns current value of DIC.

SS_SUFF *n*
[CSS:FBCCH:SS_SUFF n]
Specifies Signal Strength Sufficient. Range of *n* is 0 to 31.

Minimum Signal Strength Sufficient for a candidate control channel to be considered for control channel reselection. SS_SUFF is used, in some instances, to control cell reselection using an absolute threshold.

SS_SUFF?
[CSS:FBCCH:SS_SUFF?]
Returns current value of SS_SUFF.

CSS:FBCCH:

SCAN:

INTerval *n*
[CSS:FBCCH:SCAN:INTerval n]
Specifies SCANINTERVAL. Range of *n* is 0 to 15.

Basic interval, in Hyperframes, between consecutive signal strength measurements. The basic interval is set to 1 plus the value of the field.

INTerval?
[CSS:FBCCH:SCAN:INTerval?]
Returns current value of INTerval.

OPTION *n*
[CSS:FBCCH:SCAN:OPTION n]
Enables (*n* = 1) or disables (*n* = 0) Scanning Option Indicator.

When enabled, mobile station can apply the optional enhancements to the signal strength measurement interval applicable to NL entries.

OPTION?
[CSS:FBCCH:SCAN:OPTION?]
Returns current state of OPTION.

INITial *n*
[CSS:FBCCH:INITial n]
Enables (*n* = 1) or disables (*n* = 0) Initial Selection Control.

Used to discourage a mobile station executing the Control Channel Selection procedure (initial selection) from selecting a DCCH for camping purposes.

INITial?
[CSS:FBCCH:INITial?]
Returns current state of INITial.

DELay *n*
[CSS:FBCCH:DELay n]
Specifies Delay. Range of *n* is 0 to 15.

Used for Control Channel reselection purposes.

DELay?
[CSS:FBCCH:DELay?]
Returns current value of DELay.

CSS:FBCCH:

ADDitional:

NUMBer *n* **-or- NUM** *n*
[CSS:FBCCH:ADDitional:NUMBer n]
Specifies Number of additional DCCH Channels. Range of *n* is 0 to 7.

NUMBer? -or- NUM?
[CSS:FBCCH:ADDitional:NUMBer?]
Returns current value of NUMBer.

DCCH:

CHANnel *n,m*
[CSS:FBCCH:ADDitional:DCCH:CHANnel n,m]
Specifies DCCH Channel (*m*) indexed by *n*. Range of *n* is 0 to 7; range of *m* is 0 to 2047.

CHANnel? *n*
[CSS:FBCCH:ADDitional:DCCH:CHANnel? n]
Returns current value of CHANnel indexed by *n*. Range of *n* is 0 to 7.

SLOT *n,m*
[CSS:FBCCH:ADDitional:DCCH:SLOT n,m]
Specifies Slot Configuration (*m*) indexed by *n*. Range of *n* is 0 to 7; range of *m* is 0 to 3.

Indicates the number of slots assigned to DCCHs on the channel in the DCCH Channel field.

SLOT? *n*
[CSS:FBCCH:ADDitional:DCCH:SLOT? n]
Returns current value of SLOT indexed by *n*. Range of *n* is 0 to 7.

REGH *n*
[CSS:FBCCH:REGH n]
Enables (*n* = 1) or disables (*n* = 0) REGH.

When enabled, a home mobile station is allowed to register.

REGH?
[CSS:FBCCH:REGH?]
Returns current state of REGH.

REGR *n*
[CSS:FBCCH:REGR n]
Enables (*n* = 1) or disables (*n* = 0) REGR.

When enabled, a roaming mobile station is allowed to register.

REGR?
[CSS:FBCCH:REGR?]
Returns current state of REGR.

CSS:FBCCH:

PUREG *n*
[CSS:FBCCH:PUREG n]
Enables (*n* = 1) or disables (*n* = 0) Power Up Registration.

PUREG?
[CSS:FBCCH:PUREG?]
Returns current state of PUREG.

PDREG *n*
[CSS:FBCCH:PDREG n]
Enables (*n* = 1) or disables (*n* = 0) Power Down Registration.

PDREG?
[CSS:FBCCH:PDREG?]
Returns current state of PDREG.

SYREG *n*
[CSS:FBCCH:SYREG n]
Enables (*n* = 1) or disables (*n* = 0) SYREG.

When enabled, a mobile station is to register when it enters a new system identification area.

SYREG?
[CSS:FBCCH:SYREG?]
Returns current state of SYREG.

LAREG *n*
[CSS:FBCCH:LAREG n]
Enables (*n* = 1) or disables (*n* = 0) LAREG.

When enabled, a mobile station is to register when the registration number of the current DCCH is not a part of its registration number list used to define its location area.

LAREG?
[CSS:FBCCH:LAREG?]
Returns current state of LAREG.

DEREG *n*
[CSS:FBCCH:DEREG n]
Enables (*n* = 1) or disables (*n* = 0) De-Registration.

DEREG?
[CSS:FBCCH:DEREG?]
Returns current state of DEREG.

FOREG *n*
[CSS:FBCCH:FOREG n]
Enables (*n* = 1) or disables (*n* = 0) forced registration.

FOREG?
[CSS:FBCCH:FOREG?]
Returns current state of FOREG.

CSS:FBCCH:

CAPability *n*
[CSS:FBCCH:CAPability n]
Enables (*n* = 1) or disables (*n* = 0) Capability Request.

When enabled, a mobile station shall include a Capability Report message when sending a New System registration, Forced registration or Power-Up registration.

CAPability?
[CSS:FBCCH:CAPability?]
Returns current state of CAPability.

RNUM *n*
[CSS:FBCCH:RNUM n]
Specifies Present RNUM. Range of *n* is 0 to 1023.

Registration number that is used to define a particular mobile station's VMLA (Virtual Mobile Location Area).

RNUM?
[CSS:FBCCH:RNUM?]
Returns current value of RNUM.

REGPER *n*
[CSS:FBCCH:REGPER n]
Specifies REG Period. Range of *n* is 0 to 511.

Identifies the registration periodically in number of 94 superframes. REGPER values are coded from 0 to 511 indicating 94 to 48128 superframes (approximately 1 minute to 8.5 hours).

REGPER?
[CSS:FBCCH:REGPER?]
Returns current value of REGPER.

REGID:

ID *n*
[CSS:FBCCH:REGID:ID n]
Specifies System clock. Range of *n* is 0 to #hFFFFF.

ID?
[CSS:FBCCH:REGID:ID?]
Returns current value of ID.

PER *n*
[CSS:FBCCH:REGID:PER n]
Specifies how often ID is incremented. Range of *n* is 0 to 15.

PER?
[CSS:FBCCH:REGID:PER?]
Returns current value of PER.

CSS:FBCCH:

SID *n*
[CSS:FBCCH:SID n]
Specifies System Identification. Range of *n* is 0 to 32767.

Digital identification associated with a cellular system where each system is assigned a unique number.

SID?
[CSS:FBCCH:SID?]
Returns current value of SID.

NETwork *n*
[CSS:FBCCH:NETwork n]
Specifies which Network Types are supported on a control channel. Range of *n* is 0 to 7.

NETwork?
[CSS:FBCCH:NETwork?]
Returns current value of NETwork.

PROTocol *n*
[CSS:FBCCH:PROTocol n]
Specifies Protocol Version supported. Range of *n* is 0 to 15.

PROTocol?
[CSS:FBCCH:PROTocol?]
Returns current value of PROTocol.

PSID_RSID:

Private/Residential System Identification.

SOC *n*
[CSS:FBCCH:PSID_RSID:SOC n]
Specifies System Operator Code. Range of *n* is 0 to 4095.

Identifies which operator is providing service. If the mobile station receives a reserved SOC value, the value shall be considered an unknown system operator code.

SOC?
[CSS:FBCCH:PSID_RSID:SOC?]
Returns current value of SOC.

NUMBer *n* **-or- NUM** *n*
[CSS:FBCCH:PSID_RSID:NUMBer n]
Specifies Number of PSID/RSID. Range of *n* is 0 to 15.

NUMBer? -or- NUM?
[CSS:FBCCH:PSID_RSID:NUMBer?]
Returns current value of NUMBer.

CSS:FBCCH:

PSID_RSID:

TYPE *n,m*
[CSS:FBCCH:PSID_RSID:TYPE n,m]
Enables (*m* = 1) or disables (*m* = 0) PSID/RSID Type Indicator indexed by *n*. Range of *n* is 0 to 15.

TYPE? *n*
[CSS:FBCCH:PSID_RSID:TYPE? n]
Returns current state of TYPE indexed by *n*. Range of *n* is 0 to 15.

VALUE *n,m*
[CSS:FBCCH:PSID_RSID:VALUE n,m]
Specifies PSID/RSID Value (*m*) indexed by *n*. Range of *n* is 0 to 15; range of *m* is 0 to #hFFFF.

VALUE? *n*
[CSS:FBCCH:PSID_RSID:VALUE? n]
Returns current value of VALUE indexed by *n*. Range of *n* is 0 to 15.

COUNTRY:

CODE *n*
[CSS:FBCCH:COUNTRY:CODE n]
Specifies Mobile Country Code of the current DCCH. Range of *n* is 0 to 1023.

CODE?
[CSS:FBCCH:COUNTRY:CODE?]
Returns current value of CODE.

ALPHA:

SID *"n"*
[CSS:FBCCH:ALPHA:SID "n"]
Specifies Alphanumeric System Identification. *n* is ASCII string.

SID?
[CSS:FBCCH:ALPHA:SID?]
Returns current value of SID.

BSMC *n*
[CSS:FBCCH:BSMC n]
Specifies assigned manufacturers code (Base Station Manufacture Code). Range of *n* is 0 to 255.

The value of 0 is reserved and shall be considered an unknown base station manufacturer code by the receiving mobile station.

BSMC?
[CSS:FBCCH:BSMC?]
Returns current value of BSMC.

CSS:FBCCH:

CUSTOM:

LENGth *n*
[CSS:FBCCH:CUSTOM:LENGth n]
Specifies Length. Range of *n* is 0 to 64.

LENGth?
[CSS:FBCCH:CUSTOM:LENGth?]
Returns current value of LENGth.

CONTrol *n,m*
[CSS:FBCCH:CUSTOM:CONTrol n,m]
Specifies Custom Control (*m*) indexed by *n*. Range of *n* is 0 to 63; range of *m* is 0 to 255.

CONTrol? *n*
[CSS:FBCCH:CUSTOM:CONTrol? n]
Returns current value of CONTrol indexed by *n*. Range of *n* is 0 to 63.

MACA:

Mobile Assisted Channel Allocation.

STATus *n*
[CSS:FBCCH:MACA:STATus n]
Specifies which MACA function combinations are enabled (MACA_STATUS). Range of *n* is 0 to 3.

STATus?
[CSS:FBCCH:MACA:STATus?]
Returns current value of STATus.

TYPE *n*
[CSS:FBCCH:MACA:TYPE n]
Specifies when MACA reporting is to take place (MACA_TYPE). Range of *n* is 0 to 15.

TYPE?
[CSS:FBCCH:MACA:TYPE?]
Returns current value of TYPE.

EIGHT:

CONTrol *n*
[CSS:FBCCH:MACA:EIGHT:CONTrol n]
Enables (*n* = 1) or disables (*n* = 0) MACA_8_CONTROL.

This information element, together with MACA_TYPE and MACA_STATUS, determines the number of channels reported.

CONTrol?
[CSS:FBCCH:MACA:EIGHT:CONTrol?]
Returns current value of CONTrol.

CSS:FBCCH:

MACA:

LIST:

Contains information regarding the channels, other than the current DCCH, the mobile station shall measure for mobile assisted channel allocation.

NUMBer *n* **-or- NUM** *n*
[CSS:FBCCH:MACA:LIST:NUMBer n]
Specifies Number of MACA Channels. Range of *n* is 0 to 14.

NUMBer? -or- NUM?
[CSS:FBCCH:MACA:LIST:NUMBer?]
Returns current value of NUMBer.

CHAN *n,m*
[CSS:FBCCH:MACA:LIST:CHAN n,m]
Specifies Channel (*m*) indexed by *n*. Range of *n* is 0 to 14; range of *m* is 0 to 2047.

CHAN? *n*
[CSS:FBCCH:MACA:LIST:CHAN? n]
Returns current value of CHAN indexed by *n*. Range of *n* is 0 to 14.

OTHER:

Contains information regarding the channels other than the current DCCH. A mobile station that is not capable of performing measurements on a channel specified in this list shall report a RSS value of 00000 for that channel.

HYPERband *n*
[CSS:FBCCH:MACA:LIST:OTHER:HYPERband n]
Specifies Frequency band information. Range of *n* is 0 to 3.

HYPERband?
[CSS:FBCCH:MACA:LIST:OTHER:HYPERband?]
Returns current value of HYPERband.

NUMBer *n* **-or- NUM** *n*
[CSS:FBCCH:MACA:LIST:OTHER:NUMBer n]
Specifies Number of MACA Channels. Range of *n* is 0 to 14.

NUMBer? -or- NUM?
[CSS:FBCCH:MACA:LIST:OTHER:NUMBer?]
Returns current value of NUMBer.

CHAN *n,m*
[CSS:FBCCH:MACA:LIST:OTHER:CHAN n,m]
Specifies Channel (*m*) indexed by *n*. Range of *n* is 0 to 14; range of *m* is 0 to 2047.

CHAN? *n*
[CSS:FBCCH:MACA:LIST:OTHER:CHAN? n]
Returns current value of CHAN indexed by *n*. Range of *n* is 0 to 14.

CSS:FBCCH:

OLC *n*
[CSS:FBCCH:OLC n]
Specifies Overload Class. Range of *n* is 0 to #hFFFF.

Determines whether or not a mobile station can make an Origination, Registration or Originated Point-to-Point Teleservice. The mobile station must examine the value of the OLC bit map corresponding to internally stored access overload class assignment. If the bit in the OLC bit map is enabled, the mobile station shall continue with its access attempt. Otherwise, it shall not make an access attempt.

OLC?
[CSS:FBCCH:OLC?]
Returns current value of OLC.

MAP:

VPM *n*
[CSS:FBCCH:MAP:VPM n]
Specifies the forms of voice privacy supported by the BMI (Voice Privacy Mode Map). Range of *n* is 0 to 15.

VPM?
[CSS:FBCCH:MAP:VPM?]
Returns current value of VPM.

DPM *n*
[CSS:FBCCH:MAP:DPM n]
Specifies the forms of data privacy supported by the BMI (Data Privacy Mode Map). Range of *n* is 0 to 15.

DPM?
[CSS:FBCCH:MAP:DPM?]
Returns current value of DPM.

CODER *n*
[CSS:FBCCH:MAP:CODER n]
Specifies the types of voice coders supported by the BMI (Voice Coder Map). Range of *n* is 0 to 63.

CODER?
[CSS:FBCCH:MAP:CODER?]
Returns current value of CODER.

CSS:FBCCH:

MAP:

AUTH *n*
[CSS:FBCCH:MAP:AUTH n]
Specifies AUTH Map. Range of *n* is 00 to #h3F (0 to 63).

Specifies for which conditions a Mobile Station must include the Authentication message as part of the access attempt by the Mobile Station.

AUTH?
[CSS:FBCCH:MAP:AUTH?]
Returns current value of AUTH Map.

REG_INFO *n*
[CSS:FBCCH:MAP:REG_INFO n]
Reg-Info Map. Specifies additional information to be used in the registration process. Range of *n* is 0 to 15.

REG_INFO?
[CSS:FBCCH:MAP:REG_INFO?]
Returns current value of Reg-Info Map.

MEA:

Message Encryption Algorithm Map - Identifies the message encryption algorithms, domain and keys supported by a DCCH or a DTC.

DOMAIN *n*
[CSS:FBCCH:MAP:MEA:DOMAIN n]
Specifies the number of instances and ordering of the Encryption Algorithms field (Domain Map). Range of *n* is 0 to 255.

DOMAIN?
[CSS:FBCCH:MAP:MEA:DOMAIN?]
Returns current value of DOMAIN.

ALGORithms *n,m*
[CSS:FBCCH:MAP:MEA:ALGORithms n,m]
Specifies Encryption Algorithms (*m*) indexed by *n*. Range of *n* is 0 to 7; range of *m* is 0 to 15.

ALGORithms? *n*
[CSS:FBCCH:MAP:MEA:ALGORithms? n]
Returns current value of ALGORithms indexed by *n*. Range of *n* is 0 to 7.

MEK *n*
[CSS:FBCCH:MAP:MEK n]
Specifies the message encryption keys supported by the BMI (Message Encryption Key Map). Range of *n* is 0 to 15.

MEK?
[CSS:FBCCH:MAP:MEK?]
Returns current value of MEK.

CSS:FBCCH:

MAP:

MENU *n*
[CSS:FBCCH:MAP:MENU n]
Specifies the services supported by the BMI (Menu Map). Range of *n* is 0 to #h3FF.

MENU?
[CSS:FBCCH:MAP:MENU?]
Returns current value of MENU.

ARQ *n*
[CSS:FBCCH:MAP:ARQ n]
Enables (*n* = 1) or disables (*n* = 0) FACCH/SACCH ARQ (Automatic Retransmission Request) Map.

When enabled, the BMI supports FACCH/SACCH ARQ mode on the IS-136 digital traffic channels.

ARQ?
[CSS:FBCCH:MAP:ARQ?]
Returns current state of ARQ.

USER *n*
[CSS:FBCCH:MAP:USER n]
Enables (*n* = 1) or disables (*n* = 0) User Group Map.

When enabled, the BMI supports User Group operation.

USER?
[CSS:FBCCH:MAP:USER?]
Returns current state of USER.

SMS *n*
[CSS:FBCCH:MAP:SMS n]
Specifies the extent to which the BMI supports the CMT teleservice (Short Message Service Map). Range of *n* is 0 to 3.

SMS?
[CSS:FBCCH:MAP:SMS?]
Returns current value of SMS.

IRA *n*
[CSS:FBCCH:IRA n]
Enables (*n* = 1) or disables (*n* = 0) International Reference Alphabet.

When enabled, mobile station or BMI supports IRA address encoding in the Address Info information element.

IRA?
[CSS:FBCCH:IRA?]
Returns current state of IRA.

CSS:FBCCH:

OATS *n*
[CSS:FBCCH:OATS n]
Enables (*n* = 1) or disables (*n* = 0) OATS Support. When enabled, this flag indicates support for the Over-the-Air Activation Teleservice (OATS).

OATS?
[CSS:FBCCH:OATS?]
Returns current state of the OAT Support flag.

SOC *n*
[CSS:FBCCH:SOC n]
Specifies which operator is providing service (System Operator Code). Range of *n* is 0 to 4095.

A received reserved SOC value shall be considered an unknown system operator code by the receiving mobile station.

SOC?
[CSS:FBCCH:SOC?]
Returns current value of SOC.

ALT_SOC:

NUMBer *n* **-or- NUM** *n*
[CSS:FBCCH:ALT_SOC:NUMBer n]
Specifies Number of Alternate SOCs. Range of *n* is 0 to 15.

NUMBer? -or- NUM?
[CSS:FBCCH:ALT_SOC:NUMBer?]
Returns current value of Number of Alternate SOCs.

SOC *n,m*
[CSS:FBCCH:ALT_SOC:SOC n,m]
Specifies SOC (*m*) for 16 instances. Range of *n* is 0 to 15; range of m is 0 to #hFFF.

SOC? *n*
[CSS:FBCCH:ALT_SOC:SOC? n]
Returns current value of indexed SOC. Range of *n* is 0 to 15.

MAP:

PSID_RSID *n,m*
[CSS:FBCCH:ALT_SOC:MAP:PSID_RSID n,m]
Specifies SOC PSID/RSID Map (*m*) which indicates the PSID/RSIDs associated with the indexed SOC value (*n*). Range of *n* is 0 to 15; range of *m* is 0 to #hFFFF.

PSID_RSID? *n*
[CSS:FBCCH:ALT_SOC:MAP:PSID_RSID? n]
Returns current value of SOC PSID/RSID Map of the indexed SOC. Range of *n* is 0 to 15.

CSS:FBCCH:

ENABLE:

ADDitional:

DCCH *n*
[CSS:FBCCH:ENABLE:ADDitional:DCCH n]
Enables (*n* = 1) or disables (*n* = 0) Additional DCCH information.

DCCH?
[CSS:FBCCH:ENABLE:ADDitional:DCCH?]
Returns current state of DCCH.

ALPHA:

SID *n*
[CSS:FBCCH:ENABLE:ALPHA:SID n]
Enables (*n* = 1) or disables (*n* = 0) Alphanumeric System Identification.

SID?
[CSS:FBCCH:ENABLE:ALPHA:SID?]
Returns current state of SID.

ALT_SOC_LIST *n*
[CSS:FBCCH:ENABLE:ALT_SOC_LIST n]
Enables (*n* = 1) or disables (*n* = 0) alternate SOC information.

ALT_SOC_LIST?
[CSS:FBCCH:ENABLE:ALT_SOC_LIST?]
Returns current state of alternate SOC information.

CBN:

HIGH *n*
[CSS:FBCCH:ENABLE:CBN:HIGH n]
Enables (*n* = 1) or disables (*n* = 0) CBN_High.

HIGH?
[CSS:FBCCH:ENABLE:CBN:HIGH?]
Returns current state of HIGH.

COUNTRY:

CODE *n*
[CSS:FBCCH:ENABLE:COUNTRY:CODE n]
Enables (*n* = 1) or disables (*n* = 0) Mobile Country Code.

CODE?
[CSS:FBCCH:ENABLE:COUNTRY:CODE?]
Returns current state of CODE.

CSS:FBCCH:

ENABLE:

EXTENDED *n*
[CSS:FBCCH:ENABLE:EXTENDED n]
Enables (*n* = 1) or disables (*n* = 0) Extended Hyperframe Counter.

EXTENDED?
[CSS:FBCCH:ENABLE:EXTENDED?]
Returns current state of EXTENDED.

MACA:

Mobile Assisted Channel Allocation.

EIGHT:

CONTrol *n*
[CSS:FBCCH:ENABLE:MACA:EIGHT:CONTrol n]
Enables (*n* = 1) or disables (*n* = 0) MACA_8_CONTROL.

CONTrol?
[CSS:FBCCH:ENABLE:MACA:EIGHT:CONTrol?]
Returns current state of CONTrol.

LIST *n*
[CSS:FBCCH:ENABLE:MACA:LIST n]
Enables (*n* = 1) or disables (*n* = 0) MACA_LIST.

LIST?
[CSS:FBCCH:ENABLE:MACA:LIST?]
Returns current state of LIST.

LIST:

OTHER *n*
[CSS:FBCCH:ENABLE:MACA:LIST:OTHER n]
Enables (*n* = 1) or disables (*n* = 0) MACA_LIST (Other Hyperband).

OTHER?
[CSS:FBCCH:ENABLE:MACA:LIST:OTHER?]
Returns current state of OTHER.

CSS:FBCCH:

ENABLE:

MAP:

AUTH *n*
[CSS:FBCCH:ENABLE:MAP:AUTH n]
Enables (*n* = 1) or disables (*n* = 0) AUTH Map.

AUTH?
[CSS:FBCCH:ENABLE:MAP:AUTH?]
Returns current state of AUTH Map enable.

REG_INFO *n*
[CSS:FBCCH:ENABLE:MAP:REG_INFO n]
Enables (*n* = 1) or disables (*n* = 0) Reg-Info Map.

REG_INFO?
[CSS:FBCCH:ENABLE:MAP:REG_INFO?]
Returns current state of Reg-Info Map enable.

NONPublic:

PROBability *n*
[CSS:FBCCH:ENABLE:NONPublic:PROBability n]
Enables (*n* = 1) or disables (*n* = 0) Non-Public Probability Blocks.

PROBability?
[CSS:FBCCH:ENABLE:NONPublic:PROBability?]
Returns current state of PROBability.

REGistration *n*
[CSS:FBCCH:ENABLE:NONPublic:REGistration n]
Enables (*n* = 1) or disables (*n* = 0) Non-Public Registration Control.

REGistration?
[CSS:FBCCH:ENABLE:NONPublic:REGistration?]
Returns current state of REGistration.

CSS:FBCCH:

ENABLE:

PSID_RSID *n*
[CSS:FBCCH:ENABLE:PSID_RSID n]
Enables (*n* = 1) or disables (*n* = 0) Private/Residential System Identification.

PSID_RSID?
[CSS:FBCCH:ENABLE:PSID_RSID?]
Returns current state of PSID_RSID.

REGID *n*
[CSS:FBCCH:ENABLE:REGID n]
Enables (*n* = 1) or disables (*n* = 0) REGID Parameters.

REGID?
[CSS:FBCCH:ENABLE:REGID?]
Returns current state of REGID.

REGPER *n*
[CSS:FBCCH:ENABLE:REGPER n]
Enables (*n* = 1) or disables (*n* = 0) REG Period.

REGPER?
[CSS:FBCCH:ENABLE:REGPER?]
Returns current state of REGPER.

RNUM *n*
[CSS:FBCCH:ENABLE:RNUM n]
Enables (*n* = 1) or disables (*n* = 0) Present Registration Number.

RNUM?
[CSS:FBCCH:ENABLE:RNUM?]
Returns current state of RNUM.

9-12-13 E-BCCH COMMANDS

CSS:EBCCH:

BUILD
[CSS:EBCCH:BUILD]
This command builds the data that makes up the E-BCCH.

Before executing this command, the message types and data fields that make up the E-BCCH should be programmed. This command takes that information and generates all of the slots in the E-BCCH cycle. Since an E-BCCH cycle may continue through several superframes, the length of the E-BCCH built may be longer than Number of E-BCCH allocated to a superframe. Therefore, each time after the E-BCCH slots have been sent, the **CSS:EBCCH:PROGram *n*** command, defined below, can be used to transfer the appropriate number of slots of data into the superframe. The following, outlines the process involved in building a E-BCCH:

1. Enable the desired message types.
2. Enable the desired optional fields associated with the selected message types.
3. Program the data fields associated with the enabled message types.
4. Build the E-BCCH.
5. Program the superframe with the next section of the E-BCCH cycle.

The data built to make up the E-BCCH can be returned by the **CSS:EBCCH:DATA? *n,m*** command defined below.

LENGth?
[CSS:EBCCH:LENGth?]
Returns current length of the E-BCCH in slots after the **CSS:EBCCH:BUILD** command has been executed.

This value is useful in programming the ECL Layer 2 field.

DATA? *n,m*
[CSS:EBCCH:DATA? n,m]
Returns the E-BCCH data that has been built.

Returns current 16 bit word (indexed by *m*) in slot (*n*). Range of *n* is 0 to 255; range of *m* is 0 to 6.

Each slot consists of 109 bits of data. The 16 most significant bits of the data are returned when *m* = 0, and the 13 least significant bits of data are returned when *m* = 6. All returned data is left justified.

This data format correlates with the data format used in the **CSS:FDCCH:SUPER:DATA *n,x,word*** command.

CSS:EBCCH:

PROGram *dest,source,length*
[CSS:EBCCH:PROGram dest,source,length]
Programs the slots in the superframe with the data constructed by **CSS:EBCCH:BUILD** command. *dest* is the location in the superframe; *source* is the start location in the EBCCH buffer; *length* is the number of frames of data moved from the EBCCH buffer to the superframe. Range of *dest* is 0 to 31; range of *source* is 0 to 255; range of *length* is 0 to 8.

AUTO:PROGRAM *n*
[CSS:EBCCH:AUTO:PROGRAM n]
Enables (*n* = 1) or disables (*n* = 0) auto program of the EBCCH portion of the superframe. When auto-programming is enabled, the auto-programming uses the information elements ECL and Number of EBCCH to determine how to program the EBCCH portion of the superframe. The ECL value indicates how long the EBCCH message is and the number of EBCCH indicates how much of the message is included in each superframe.

To use this command, perform the following steps:

1. Build the EBCCH Message.
2. Program the ECL to the length of the EBCCH.
3. Rebuild the EBCCH.
4. Set up the Number of EBCCH information element.
5. Build the FBCCH message.
6. Enable the auto-programming of the EBCCH.

ECL *n*
[CSS:EBCCH:ECL n]
Specifies the total number of Layer 2 frames required for the current E-BCCH Cycle (Extended Broadcast Control Channel Cycle Length). Range of *n* is 0 to 255.

ECL?
[CSS:EBCCH:ECL?]
Returns current value of ECL.

PD *n*
[CSS:EBCCH:PD n]
Specifies the value of Protocol Discriminator. Range of *n* is 0 to 3.

PD?
[CSS:EBCCH:PD?]
Returns the current value of Protocol Discriminator.

CSS:EBCCH:

MSGtype:

NEIGHbor:

CELL *n*
[CSS:EBCCH:MSGtype:NEIGHbor:CELL n]
Enables (*n* = 1) or disables (*n* = 0) Neighbor Cell message.

CELL?
[CSS:EBCCH:MSGtype:NEIGHbor:CELL?]
Returns current state of the Neighbor Cell message enable.

CELL:

MULti *n*
[CSS:EBCCH:MSGtype:NEIGHbor:CELL:MULti n]
Enables (*n* = 1) or disables (*n* = 0) the Neighbor Cell (Multi Hyperband) message.

MULti?
[CSS:EBCCH:MSGtype:NEIGHbor:CELL:MULti?]
Returns current state of the Neighbor Cell (Multi Hyperband) message enable.

SERVice *n*
[CSS:EBCCH:MSGtype:NEIGHbor:SERVice n]
Enables (*n* = 1) or disables (*n* = 0) Neighbor Service Info message.

Provides information regarding services support by a TDMA Neighbor.

SERVice?
[CSS:EBCCH:MSGtype:NEIGHbor:SERVice?]
Returns current state of the Neighbor Service Info message enable.

SERVice:

MULti *n*
[CSS:EBCCH:MSGtype:NEIGHbor:SERVice:MULti n]
Enables (*n* = 1) or disables (*n* = 0) Neighbor Service Info (Multi Hyperband) message.

MULti?
[CSS:EBCCH:MSGtype:NEIGHbor:SERVice:MULti?]
Returns current state of the Neighbor Service Info (Multi Hyperband) message enable.

RCI *n*
[CSS:EBCCH:MSGtype:RCI n]
Enables (*n* = 1) or disables (*n* = 0) Regulatory Configuration message.

RCI?
[CSS:EBCCH:MSGtype:RCI?]
Returns current state of the Regulatory Configuration message enable.

CSS:EBCCH:

MSGtype:

BSMC *n*
[CSS:EBCCH:MSGtype:BSMC n]
Enables (*n* = 1) or disables (*n* = 0) Base Station Manufacture Code Message Delivery message.

Used to carry BSMC specific signaling information, the content of which is beyond the scope of this specification.

BSMC?
[CSS:EBCCH:MSGtype:BSMC?]
Returns current state of the Base Station Manufacture Code Message Delivery message enable.

EMERGency *n*
[CSS:EBCCH:MSGtype:EMERGency n]
Enables (*n* = 1) or disables (*n* = 0) Emergency Information Broadcast message.

Provides emergency information to all mobile stations.

EMERGency?
[CSS:EBCCH:MSGtype:EMERGency?]
Returns current state of the Emergency Information Broadcast message enable.

MACA *n*
[CSS:EBCCH:MSGtype:MACA n]
Enables (*n* = 1) or disables (*n* = 0) Mobile Assisted Channel Allocation message.

Used to order the mobile station to report radio measurements on certain channels. Contains information regarding the channels the mobile station shall measure and when to report the measurements for the mobile assisted channel allocation.

MACA?
[CSS:EBCCH:MSGtype:MACA?]
Returns current state of the Mobile Assisted Channel Allocation message enable.

MACA_MULti *n*
[CSS:EBCCH:MSGtype:MACA_MULti n]
Enables (*n* = 1) or disables (*n* = 0) Mobile Assisted Channel Allocation (Multi Hyperband) message.

MACA_MULti?
[CSS:EBCCH:MSGtype:MACA_MULti?]
Returns current state of the Mobile Assisted Channel Allocation (Multi Hyperband) message enable.

CSS:EBCCH:

MSGtype:

SERVice *n*
[CSS:EBCCH:MSGtype:SERVice n]
Enables (*n* = 1) or disables (*n* = 0) Service Menu message.

Provides a list of services supported by the BMI.

SERVice?
[CSS:EBCCH:MSGtype:SERVice?]
Returns current state of the Service Menu message enable.

SOC_BSMC *n*
[CSS:EBCCH:MSGtype:SOC_BSMC n]
Enables (*n* = 1) or disables (*n* = 0) System Operator Code/Base Station Manufacture Code Message Delivery message.

Used to identify the SOC and BSMC value associated with the BMI.

SOC_BSMC?
[CSS:EBCCH:MSGtype:SOC_BSMC?]
Returns current state of the System Operator Code/Base Station Manufacture Code Message Delivery message enable.

SOC *n*
[CSS:EBCCH:MSGtype:SOC n]
Enables (*n* = 1) or disables (*n* = 0) System Operator Code Message Delivery message.

Used to carry SOC specific signaling information, the content of which is beyond the scope of this specification.

SOC?
[CSS:EBCCH:MSGtype:SOC?]
Returns current state of the System Operator Code Message Delivery message enable.

TIME *n*
[CSS:EBCCH:MSGtype:TIME n]
Enables (*n* = 1) or disables (*n* = 0) Time and Date message.

TIME?
[CSS:EBCCH:MSGtype:TIME?]
Returns current state of the Time and Date message enable.

CSS:EBCCH:

MSGtype:

ALTrci *n*
[CSS:EBCCH:MSGtype:ALTrci n]
Enables (*n* = 1) or disables (*n* = 0) Alternate Regulatory Configuration Information message.

Provides information regarding a DCCH associated with a regulatory configuration different from that of the current DCCH.

ALTrci?
[CSS:EBCCH:MSGtype:ALTrci?]
Returns current state of the Alternate Regulatory Configuration Information message enable.

SERV_SS *n*
[CSS:EBCCH:SERV_SS n]
Specifies SERV_SS. Range of *n* is 0 to 15.

Used in the control channel reselection process.

SERV_SS?
[CSS:EBCCH:SERV_SS?]
Returns current value of SERV_SS.

NONPublic:

LENGth *n*
[CSS:EBCCH:NONPublic:LENGth n]
Specifies Non-Public Map Length. Range of *n* is 0 to 15.

LENGth?
[CSS:EBCCH:NONPublic:LENGth?]
Returns current value of LENGth.

BLOCK *n*
[CSS:EBCCH:NONPublic:BLOCK n]
Specifies Non-Public Block Map. Range of *n* is 0 to #hFFFF.

BLOCK?
[CSS:EBCCH:NONPublic:BLOCK?]
Returns current value of BLOCK.

CSS:EBCCH:

NEIGHbor:

TDMA:

Time Division Multiple Access. This optional information element specifies the digital channels the mobile station shall measure with regard to the Control Channel Selection and Reselection procedures.

NUMBer *n* **-or- NUM** *n*
[CSS:EBCCH:NEIGHbor:TDMA:NUMBer n]
Specifies Number of TDMA Neighbor Cells. Range of *n* is 0 to 24.

NUMBer? -or- NUM?
[CSS:EBCCH:NEIGHbor:TDMA:NUMBer?]
Returns current Number of TDMA Neighbor Cells.

CELL:

Provides neighbor DCCH specific information.

CHAN *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:CHAN n,m]
Specifies CHAN (m) select by index (*n*). Range of *n* is 0 to 23; range of *m* is 0 to 2047.

CHAN? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:CHAN? n]
Returns current value of CHAN indexed by n. Range of *n* is 0 to 23.

PROTocol *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:PROTocol n,m]
Specifies Version (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Identifies the protocol version supported.

PROTocol? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:PROTocol? n]
Returns current value of PROTocol indexed by *n*. Range of *n* is 0 to 23.

DVCC *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:DVCC n,m]
Specifies Digital Verification Color Code (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 255.

DVCC? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:DVCC? n]
Returns current value of DVCC indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

CELL:

OFFset *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:OFFset n,m]
Specifies RESEL_OFFSET (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 127.

Used to increase/decrease the preference of a new candidate cell being considered for control channel reselection.

OFFset? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:OFFset? n]
Returns current value of RESEL_OFFSET indexed by *n*. Range of *n* is 0 to 23.

SS_SUFF *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:SS_SUFF n,m]
Specifies SS_SUFF (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 31.

Identifies the minimum signal strength sufficient for a candidate control channel to be considered for control channel reselection. SS_SUFF is used, in some instances, to control cell reselection using an absolute threshold.

SS_SUFF? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:SS_SUFF? n]
Returns current value of SS_SUFF indexed by *n*. Range of *n* is 0 to 23.

DELAY *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:DELAY n,m]
Specifies DELAY (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Used for Control Channel Reselection purposes.

DELAY? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:DELAY? n]
Returns current value of DELAY indexed by *n*. Range of *n* is 0 to 23.

HL_FREQ *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:HL_FREQ n,m]
Specifies HL_FREQ (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 or 1.

Used to determine the frequency of channel measurements.

HL_FREQ? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:HL_FREQ? n]
Returns current state of HL_FREQ indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

CELL:

SYNC *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:SYNC n,m]
Enables (*m* = 1) or disables (*m* = 0) CELL_SYNC indexed by *n*. Range of *n* is 0 to 23.

When enabled, a candidate DCCH is superframe-synchronized with the current DCCH. If this flag is enabled, the maximum time offset between superframes sent on the candidate DCCH and current DCCH shall be no more than 7.5 symbols, i.e., a mobile station shall expect to find synchronization on a candidate DCCH within +/- 7.5 symbols relative to its current DCCH superframe.

SYNC? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:SYNC? n]
Returns current state of SYNC indexed by *n*. Range of *n* is 0 to 23.

TYPE:

CELL *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:TYPE:CELL n,m]
Specifies CELLTYPE (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 3.

Provides a relative distinction by an operator to bias mobile station control channel reselection decisions in order to insure traffic flows according to an operator's desires.

CELL? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:TYPE:CELL? n]
Returns current value of CELL indexed by *n*. Range of *n* is 0 to 23.

NETwork *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:TYPE:NETwork n,m]
Specifies Network Type (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 7.

Identifies which Network Types are supported on a control channel.

NETwork? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:TYPE:NETwork? n]
Returns current value of NETwork indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

CELL:

RETRY *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:RETRY n,m]
Enables (*m* = 1) or disables (*m* = 0) Directed Retry Channel indexed by *n*. Range of *n* is 0 to 23.

Used to determine if the neighbor list is to be considered for Directed Retry purposes.

RETRY? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:RETRY? n]
Returns current state of RETRY indexed by *n*. Range of *n* is 0 to 23.

ACCess:

MS_PWR *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:ACCess:MS_PWR n,m]
Specifies MS_ACC_PWR (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Mobile Station/Analog Control Channel Power. Identifies the maximum nominal output power that the mobile station shall use when accessing the BMI (Base Station, MSC and Interworking Function). MS_ACC_PWR is also used when determining criteria for control channel selection and reselection.

MS_PWR? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:ACCess:MS_PWR? n]
Returns current value of MS_PWR indexed by *n*. Range of *n* is 0 to 23.

RSS_MIN *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:ACCess:RSS_MIN n,m]
Specifies RSS_ACC_MIN (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 31.

Received Signal Strength/Analog Control Channel Minimum. Used for the cell (re)selection process. RSS_ACC_MIN is the minimum received signal strength required to access the cell.

RSS_MIN? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:ACCess:RSS_MIN? n]
Returns current value of RSS_MIN indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

CELL:

PSID_RSID:

Private/Residential System Identification.

INDicator *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:INDicator n,m]
Enables (*m* = 1) or disables (*m* = 0) PSID/RSID Indicator indexed by *n*. Range of *n* is 0 to 23.

Indicates whether or not the PSID/RSID related mapping fields are present for the associated DCCH neighbor. Specifically, if the PSID/RSID Indicator value is set to 1, the PSID/RSID Support Length and PSID/RSID Support fields are present, otherwise, not present.

INDicator? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:INDicator? n]
Returns current state of INDicator indexed by *n*. Range of *n* is 0 to 23.

LENGth *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:LENGth n,m]
Specifies PSID/RSID Support Length (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

The PSID/RSID Support Length field is only present when the PSID/RSID Indicator field is set to 1. When present, this field is always 4 bits long and is used to determine the length of the PSID/RSID Support field. The value of PSID/RSID Support Length is 0 if not present.

LENGth? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:LENGth? n]
Returns current value of LENGth indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

CELL:

PSID_RSID:

SUPport *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:SUPport n,m]
Specifies PSID/RSID Support (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 1 to #hFFFF.

The PSID/RSID Support field is only present when the PSID/RSID Indicator field is set to 1. When present, the length of this is determined by adding 1 to the value of the PSID/RSID Support Length field. The value of PSID/RSID Support is 0 if not present.

The PSID/RSID Support field indicates which PSID/RSID values identified in the PSID/RSID Set information element of the System Identity message of the current DCCH are supported by the DCCH neighbor under consideration. The ordering of the bits in this field reflects the ordering of the PSID/RSID Set sent in the System Identity message in that the least significant bit is corresponds to the first PSID/RSID listed in the PSID/RSID Set. If a bit in this field is set to 1, then the corresponding PSID/RSID entry in the PSID/RSID Set is supported by the neighbor cell under consideration. On the other hand, if a bit in this field is set to 0, then the corresponding PSID/RSID entry in the PSID/RSID Set is ***not*** supported by the neighbor cell under consideration.

For example, if 16 PSID/RSIDs are listed in the System Identity message and the neighbor cell supports the 1st, 2nd, 3rd, and 5th PSID/RSIDs in the PSID/RSID Set, the values of PSID/RSID Support Length and PSID/RSID Support shall be:

PSID/RSID Support length = 0100
PSID/RSID Support = 10111

If 16 PSID/RSIDs are listed in the System Identity message and the neighbor cell supports 3rd and 16th PSID/RSID Set, the values of PSID/RSID Support Length and PSID/RSID Support shall be:

PSID/RSID Support length = 1111
PSID/RSID Support = 1000000000000100

SUPport? *n*
[CSS:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:SUPport? n]
Returns current value of SUPport indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

ANAlog:

This optional information element contains information regarding the analog channels the mobile station shall measure with regard to the Control Channel Selection and Reselection procedures. This information element always specifies analog neighbors in the 800 MHz hyperband.

NUMBer *n* **-or- NUM** *n*
[CSS:EBCCH:NEIGHbor:ANAlog:NUMBer n]
Specifies Number of Analog Neighbor Cells. Range of *n* is 0 to 24.

NUMBer? -or- NUM?
[CSS:EBCCH:NEIGHbor:ANAlog:NUMBer?]
Returns current value of NUMBer.

CELL:

CHAN *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:CHAN n,m]
Specifies CHAN (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 2047.

CHAN? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:CHAN? n]
Returns current value of CHAN indexed by *n*. Range of *n* is 0 to 23.

PROTocol *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:PROTocol n,m]
Specifies Protocol Version (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* in 0 to 15.

Identifies the protocol version supported.

PROTocol? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:PROTocol? n]
Returns current value of PROTocol indexed by *n*. Range of *n* is 0 to 23.

DCC *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:DCC n,m]
Specifies Digital Color Code (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 3.

DCC? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:DCC? n]
Returns current value of DCC indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

ANAlog:

CELL:

OFFset *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:OFFset n,m]
Specifies RESEL_OFFSET (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 127.

Used to increase or decrease the preference of a new candidate cell being considered for control channel reselection.

OFFset? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:OFFset? n]
Returns current value of OFFset indexed by *n*. Range of *n* is 0 to 23.

SS_SUFF *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:SS_SUFF n,m]
Specifies SS_SUFF (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 31.

Identifies the minimum signal strength sufficient for a candidate control channel to be considered for control channel reselection. SS_SUFF is used, in some instances, to control cell reselection using an absolute threshold.

SS_SUFF? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:SS_SUFF? n]
Returns current value of SS_SUFF indexed by *n*. Range of *n* is 0 to 23.

DELAY *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:DELAY n,m]
Specifies DELAY (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Used for Control Channel Reselection purposes.

DELAY? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:DELAY? n]
Returns current value of DELAY indexed by *n*. Range of *n* is 0 to 23.

HL_FREQ *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:HL_FREQ n,m]
Enables (*m* = 1) or disables (*m* = 0) HL_FREQ indexed by *n*. Range of *n* is 0 to 23.

Used to determine the frequency of channel measurements.

HL_FREQ? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:HL_FREQ? n]
Returns current state of HL_FREQ indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

ANAlog:

CELL:

TYPE:

CELL *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:TYPE:CELL n,m]
Specifies CELLTYPE (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 3.

Provides a relative distinction by an operator to bias mobile station control channel reselection decisions in order to insure traffic flows according to an operator's desires.

CELL? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:TYPE:CELL? n]
Returns current value of CELL indexed by n. Range of *n* is 0 to 23.

NETwork *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:TYPE:NETwork n,m]
Specifies Network Type (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 7.

Identifies which Network Types are supported on a control channel.

NETwork? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:TYPE:NETwork? n]
Returns current value of NETwork indexed by *n*. Range of *n* is 0 to 23.

RETRY *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:RETRY n,m]
Enables (*m* = 1) or disables (*m* = 0) Directed Retry Channel indexed by *n*. Range of *n* is 0 to 23.

When enabled, the neighbor list is to be considered for Directed Retry purposes.

RETRY? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:RETRY? n]
Returns current state of RETRY indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

ANAlog:

CELL:

ACCess:

MS_PWR *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:ACCess:MS_PWR n,m]
Specifies MS_ACC_PWR (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Mobile Station/Analog Control Channel Power. Identifies the maximum nominal output power that the mobile station shall use when accessing the BMI (Base Station, MSC and Interworking Function). MS_ACC_PWR is also used when determining criteria for control channel selection and reselection.

MS_PWR? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:ACCess:MS_PWR? n]
Returns current value of MS_PWR indexed by *n*. Range of *n* is 0 to 23.

RSS_MIN *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:ACCess:RSS_MIN n,m]
Specifies RSS_ACC_MIN (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 31.

Received Signal Strength/Analog Control Channel Minimum. Used for the cell (re)selection process. RSS_ACC_MIN is the minimum received signal strength required to access the cell.

RSS_MIN? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:CELL:ACCess:RSS_MIN? n]
Returns current value of RSS_MIN indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

MULti:

Provides neighbor DCCH specific information for Multi Hyperband.

NUMBer *n* **-or- NUM** *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:NUMBer n]
Specifies Number of TDMA Neighbor Cells. Range of *n* is 0 to 24.

NUMBer? -or- NUM?
[CSS:EBCCH:NEIGHbor:TDMA:MULti:NUMBer?]
Returns current value of TDMA Neighbor Cells.

CHAN *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:CHAN n,m]
Specifies CHAN (*m*) select by index (*n*). Range of *n* is 0 to 23; range of *m* is 0 to 2047.

CHAN? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:CHAN? n]
Returns current value of CHAN indexed by n. Range of *n* is 0 to 23.

PROTocol *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:PROTocol n,m]
Specifies Protocol Version (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Identifies the protocol version supported.

PROTocol? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:PROTocol? n]
Returns current value of PROTocol indexed by *n*. Range of *n* is 0 to 23.

DVCC *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:DVCC n,m]
Specifies Digital Verification Color Code (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 255.

DVCC? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:DVCC? n]
Returns current value of DVCC indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

MULti:

OFFset *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:OFFset n,m]
Specifies RESEL_OFFSET (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 127.

Used to increase/decrease the preference of a new candidate cell being considered for control channel reselection.

OFFset? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:OFFset? n]
Returns current value of RESEL_OFFSET indexed by *n*. Range of *n* is 0 to 23.

SS_SUFF *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:SS_SUFF n,m]
Specifies SS_SUFF (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 31.

Identifies the minimum signal strength sufficient for a candidate control channel to be considered for control channel reselection. SS_SUFF is used, in some instances, to control cell reselection using an absolute threshold.

SS_SUFF? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:SS_SUFF? n]
Returns current value of SS_SUFF indexed by *n*. Range of *n* is 0 to 23.

DELAY *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:DELAY n,m]
Specifies DELAY (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Used for Control Channel Reselection purposes.

DELAY? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:DELAY? n]
Returns current value of DELAY indexed by *n*. Range of *n* is 0 to 23.

HL_FREQ *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:HL_FREQ n,m]
Specifies HL_FREQ (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 or 1.

Used to determine the frequency of channel measurements.

HL_FREQ? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:HL_FREQ? n]
Returns current state of HL_FREQ indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

MULti:

SYNC *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:SYNC n,m]
Enables (*m* = 1) or disables (*m* = 0) CELL_SYNC indexed by *n*. Range of *n* is 0 to 23.

When enabled, a candidate DCCH is superframe-synchronized with the current DCCH. If this flag is enabled, the maximum time offset between superframes sent on the candidate DCCH and current DCCH shall be no more than 7.5 symbols, i.e., a mobile station shall expect to find synchronization on a candidate DCCH within +/- 7.5 symbols relative to its current DCCH superframe.

SYNC? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:SYNC? n]
Returns current state of SYNC indexed by *n*. Range of *n* is 0 to 23.

TYPE:

CELL *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:TYPE:CELL n,m]
Specifies CELLTYPE (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 3.

Provides a relative distinction by an operator to bias mobile station control channel reselection decisions in order to insure traffic flows according to an operator's desires.

CELL? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:TYPE:CELL? n]
Returns current value of CELL indexed by *n*. Range of *n* is 0 to 23.

NETwork *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:TYPE:NETwork n,m]
Specifies Network Type (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 7.

Identifies which Network Types are supported on a control channel.

NETwork? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:TYPE:NETwork? n]
Returns current value of NETwork indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

MULti:

RETRY *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:RETRY n,m]
Enables (*m* = 1) or disables (*m* = 0) Directed Retry Channel indexed by *n*. Range of *n* is 0 to 23.

Used to determine if the neighbor list is to be considered for Directed Retry purposes.

RETRY? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:RETRY? n]
Returns current state of RETRY indexed by *n*. Range of *n* is 0 to 23.

ACCess:

MS_PWR *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:ACCess:MS_PWR n,m]
Specifies MS_ACC_PWR (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Mobile Station/Analog Control Channel Power. Identifies the maximum nominal output power that the mobile station shall use when accessing the BMI (Base Station, MSC and Interworking Function). MS_ACC_PWR is also used when determining criteria for control channel selection and reselection.

MS_PWR? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:ACCess:MS_PWR? n]
Returns current value of MS_PWR indexed by *n*. Range of *n* is 0 to 23.

RSS_MIN *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:ACCess:RSS_MIN n,m]
Specifies RSS_ACC_MIN (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 31.

Received Signal Strength/Analog Control Channel Minimum. Used for the cell (re)selection process. RSS_ACC_MIN is the minimum received signal strength required to access the cell.

RSS_MIN? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:ACCess:RSS_MIN? n]
Returns current value of RSS_MIN indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

MULti:

PSID_RSID:

Private/Residential System Identification.

INDicator *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:INDicator n,m]
Enables (*m* = 1) or disables (*m* = 0) PSID/RSID Indicator indexed by *n*. Range of *n* is 0 to 23.

Indicates whether or not the PSID/RSID related mapping fields are present for the associated DCCH neighbor. Specifically, if the PSID/RSID Indicator value is set to 1, the PSID/RSID Support Length and PSID/RSID Support fields are present, otherwise, not present.

INDicator? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:INDicator? n]
Returns current state of INDicator indexed by *n*. Range of *n* is 0 to 23.

LENGth *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:LENGth n,m]
Specifies PSID/RSID Support Length (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

The PSID/RSID Support Length field is only present when the PSID/RSID Indicator field is set to 1. When present, this field is always 4 bits long and is used to determine the length of the PSID/RSID Support field. The value of PSID/RSID Support Length is 0 if not present.

LENGth? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:LENGth? n]
Returns current value of LENGth indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

MULti:

PSID_RSID:

SUPport *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:SUPport n,m]
Specifies PSID/RSID Support (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 1 to #hFFFF.

The PSID/RSID Support field is only present when the PSID/RSID Indicator field is set to 1. When present, the length of this is determined by adding 1 to the value of the PSID/RSID Support Length field. The value of PSID/RSID Support is 0 if not present.

The PSID/RSID Support field indicates which PSID/RSID values identified in the PSID/RSID Set information element of the System Identity message of the current DCCH are supported by the DCCH neighbor under consideration. The ordering of the bits in this field reflects the ordering of the PSID/RSID Set sent in the System Identity message in that the least significant bit is corresponds to the first PSID/RSID listed in the PSID/RSID Set. If a bit in this field is set to 1, then the corresponding PSID/RSID entry in the PSID/RSID Set is supported by the neighbor cell under consideration. On the other hand, if a bit in this field is set to 0, then the corresponding PSID/RSID entry in the PSID/RSID Set is ***not*** supported by the neighbor cell under consideration.

For example, if 16 PSID/RSIDs are listed in the System Identity message and the neighbor cell supports the 1st, 2nd, 3rd, and 5th PSID/RSIDs in the PSID/RSID Set, the values of PSID/RSID Support Length and PSID/RSID Support shall be:

PSID/RSID Support length = 0100
PSID/RSID Support = 10111

If 16 PSID/RSIDs are listed in the System Identity message and the neighbor cell supports 3rd and 16th PSID/RSID Set, the values of PSID/RSID Support Length and PSID/RSID Support shall be:

PSID/RSID Support length = 1111
PSID/RSID Support = 1000000000000100

SUPport? *n*
[CSS:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:SUPport? n]
Returns current value of SUPport indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

ANAlog:

This optional information element contains information regarding the analog channels the mobile station shall measure with regard to the Control Channel Selection and Reselection procedures.

MULti:

Provides neighbor DCCH specific information for Multi Hyperband.

NUMBer *n* **-or- NUM** *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:NUMBer n]
Specifies Number of Analog Neighbor Cells. Range of *n* is 0 to 24.

NUMBer? -or- NUM?
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:NUMBer?]
Returns current value of NUMBer.

CHAN *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:CHAN n,m]
Specifies CHAN (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 2047.

CHAN? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:CHAN? n]
Returns current value of CHAN indexed by *n*. Range of *n* is 0 to 23.

PROTocol *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:PROTocol n,m]
Specifies Protocol Version (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* in 0 to 15.

Identifies the protocol version supported.

PROTocol? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:PROTocol? n]
Returns current value of PROTocol indexed by *n*. Range of *n* is 0 to 23.

DCC *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:DCC n,m]
Specifies Digital Color Code (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 3.

DCC? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:DCC? n]
Returns current value of DCC indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

ANAlog:

MULti:

OFFset *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:OFFset n,m]
Specifies RESEL_OFFSET (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 127.

Used to increase or decrease the preference of a new candidate cell being considered for control channel reselection.

OFFset? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:OFFset? n]
Returns current value of OFFset indexed by *n*. Range of *n* is 0 to 23.

SS_SUFF *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:SS_SUFF n,m]
Specifies SS_SUFF (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 31.

Identifies the minimum signal strength sufficient for a candidate control channel to be considered for control channel reselection. SS_SUFF is used, in some instances, to control cell reselection using an absolute threshold.

SS_SUFF? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:SS_SUFF? n]
Returns current value of SS_SUFF indexed by *n*. Range of *n* is 0 to 23.

DELAY *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:DELAY n,m]
Specifies DELAY (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Used for Control Channel Reselection purposes.

DELAY? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:DELAY? n]
Returns current value of DELAY indexed by *n*. Range of *n* is 0 to 23.

HL_FREQ *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:HL_FREQ n,m]
Enables (*m* = 1) or disables (*m* = 0) HL_FREQ indexed by *n*. Range of *n* is 0 to 23.

Used to determine the frequency of channel measurements.

HL_FREQ? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:HL_FREQ? n]
Returns current state of HL_FREQ indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

ANAlog:

MULti:

TYPE:

CELL *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:TYPE:CELL n,m]
Specifies CELLTYPE (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 3.

Provides a relative distinction by an operator to bias mobile station control channel reselection decisions in order to insure traffic flows according to an operator's desires.

CELL? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:TYPE:CELL? n]
Returns current value of CELL indexed by n. Range of *n* is 0 to 23.

NETwork *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:TYPE:NETwork n,m]
Specifies Network Type (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 7.

Identifies which Network Types are supported on a control channel.

NETwork? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:TYPE:NETwork? n]
Returns current value of NETwork indexed by *n*. Range of *n* is 0 to 23.

RETRY *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:RETRY n,m]
Enables (*m* = 1) or disables (*m* = 0) Directed Retry Channel indexed by *n*. Range of *n* is 0 to 23.

When enabled, the neighbor list is to be considered for Directed Retry purposes.

RETRY? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:RETRY? n]
Returns current state of RETRY indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

ANAlog:

MULti:

ACCess:

MS_PWR *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:ACCess:MS_PWR n,m]
Specifies MS_ACC_PWR (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Mobile Station/Analog Control Channel Power. Identifies the maximum nominal output power that the mobile station shall use when accessing the BMI (Base Station, MSC and Interworking Function). MS_ACC_PWR is also used when determining criteria for control channel selection and reselection.

MS_PWR? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:ACCess:MS_PWR? n]
Returns current value of MS_PWR indexed by *n*. Range of *n* is 0 to 23.

RSS_MIN *n,m*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:ACCess:RSS_MIN n,m]
Specifies RSS_ACC_MIN (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 31.

Received Signal Strength/Analog Control Channel Minimum. Used for the cell (re)selection process. RSS_ACC_MIN is the minimum received signal strength required to access the cell.

RSS_MIN? *n*
[CSS:EBCCH:NEIGHbor:ANAlog:MULti:ACCess:RSS_MIN? n]
Returns current value of RSS_MIN indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

TDMA:

INFO:

Service Info - Provides service attribute information for TDMA neighbors.

COUNt *n*
[CSS:EBCCH:NEIGHbor:TDMA:INFO:COUNt n]
Specifies number of TDMA Service Map instances present in the Neighbor Service Info message (TDMA Neighbor Count). Range of *n* is 0 to 23.

Set to 1 plus the value in this field.

COUNt?
[CSS:EBCCH:NEIGHbor:TDMA:INFO:COUNt?]
Returns current value of COUNt.

SERVice:

Provides service information for one or more TDMA neighbors.

INDicator *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:INFO:SERVice:INDicator n,m]
Enables (*m* = 1) or disables (*m* = 0) Service Map Indicator indexed by *n*. Range of *n* is 0 to 23.

Indicates, when enabled, that Service Map field is present.

INDicator? *n*
[CSS:EBCCH:NEIGHbor:TDMA:INFO:SERVice:INDicator? n]
Returns current state of INDicator indexed by *n*. Range of *n* is 0 to 23.

MAP *n,m*
[CSS:EBCCH:NEIGHbor:TDMA:INFO:SERVice:MAP n,m]
Specifies Service Map (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 1023.

This field, when present, provides service information.

MAP? *n*
[CSS:EBCCH:NEIGHbor:TDMA:INFO:SERVice:MAP? n]
Returns the value of MAP indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

OTHER:

Other Hyperband - This optional information element contains information specifying the digital channels the mobile station may measure in order to acquire service in an alternate frequency band.

HYPERband *n*
[CSS:EBCCH:NEIGHbor:OTHER:HYPERband n]
Specifies Hyperband. Range of *n* is 0 to 3.

HYPERband?
[CSS:EBCCH:NEIGHbor:OTHER:HYPERband?]
Returns current value of HYPERband.

NUMBer *n* **-or- NUM** *n*
[CSS:EBCCH:NEIGHbor:OTHER:NUMBer n]
Specifies Number of Neighbor Cells. Range of *n* is 0 to 24.

NUMBer? -or- NUM?
[CSS:EBCCH:NEIGHbor:OTHER:NUMBer?]
Returns current value of NUMBer.

CSS:EBCCH:

NEIGHbor:

OTHER:

MULti:

CHAN *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:CHAN n,m]
Specifies channel (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 2047.

CHAN? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:CHAN? n]
Returns current value of CHAN indexed by *n*. Range of *n* is 0 to 23.

PROTocol *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:PROTocol n,m]
Specifies Protocol Version (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Identifies the protocol version supported.

PROTocol? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:PROTocol? n]
Returns current value of PROTocol indexed by *n*. Range of *n* is 0 to 23.

DVCC *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:DVCC n,m]
Specifies Digital Verification Color Code (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 255.

DVCC? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:DVCC? n]
Returns current value of DVCC indexed by *n*. Range of *n* is 0 to 23.

OFFset *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:OFFset n,m]
Specifies RESEL_OFFSET (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 127.

Used to increase or decrease the preference of a new candidate cell being considered for control channel reselection.

OFFset? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:OFFset? n]
Returns current value of OFFset indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

OTHER:

MULti:

SS_SUFF *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:SS_SUFF n,m]
Specifies SS_SUFF (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 31.

Identifies the minimum signal strength sufficient for a candidate control channel to be considered for control channel reselection. SS_SUFF is used, in some instances, to control cell reselection using an absolute threshold.

SS_SUFF? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:SS_SUFF? n]
Returns current value of SS_SUFF indexed by *n*. Range of *n* is 0 to 23.

DELAY *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:DELAY n,m]
Specifies DELAY (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Used for Control Channel Reselection purposes.

DELAY? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:DELAY? n]
Returns current value of DELAY indexed by *n*. Range of *n* is 0 to 23.

HL_FREQ *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:HL_FREQ n,m]
Enables (*m* = 1) or disables (*m* = 0) HL_FREQ indexed by *n*. Range of *n* is 0 to 23.

Used to determine the frequency of channel measurements.

HL_FREQ? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:HL_FREQ? n]
Returns current state of HL_FREQ indexed by *n*. Range of *n* is 0 to 23.

SYNC *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:SYNC n,m]
Enables (*m* = 1) or disables (*m* = 0) CELL_SYNC indexed by *n*. Range of *n* is 0 to 23.

Indicates if a candidate DCCH is superframe-synchronized with the current DCCH. If this flag is enabled, the maximum time offset between superframes sent on the candidate DCCH and current DCCH shall be no more than 7.5 symbols, i.e., a mobile station shall expect to find synchronization on a candidate DCCH within ±7.5 symbols relative to its current DCCH superframe.

SYNC? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:SYNC? n]
Returns current state of SYNC indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

OTHER:

MULti:

TYPE:

CELL *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:TYPE:CELL n,m]
Specifies CELLTYPE (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 3.

Provides a relative distinction by an operator to bias mobile station control channel reselection decisions in order to insure traffic flows according to an operator's desires.

CELL? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:TYPE:CELL? n]
Returns current value of CELL indexed by *n*. Range of *n* is 0 to 23.

NETwork *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:TYPE:NETwork n,m]
Specifies Network Type (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 7.

Identifies which Network Types are supported on a control channel.

NETwork? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:TYPE:NETwork? n]
Returns current value of NETwork indexed by *n*. Range of *n* is 0 to 23.

RETRY *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:RETRY n,m]
Enables (*m* = 1) or disables (*m* = 0) Directed Retry Channel indexed by *n*. Range of *n* is 0 to 23.

When enabled, the neighbor list is to be considered for Directed Retry purposes.

RETRY? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:RETRY? n]
Returns current state of RETRY indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

OTHER:

MULti:

ACCess:

MS_PWR *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:ACCess:MS_PWR n,m]
Specifies MS_ACC_PWR (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 15.

Mobile Station/Analog Control Channel Power. Identifies the maximum nominal output power that the mobile station shall use when accessing the BMI (Base Station, MSC and Interworking Function). MS_ACC_PWR is also used when determining criteria for control channel selection and reselection.

MS_PWR? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:ACCess:MS_PWR? n]
Returns current value of MS_PWR indexed by *n*. Range of *n* is 0 to 23.

RSS_MIN *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:ACCess:RSS_MIN n,m]
Specifies RSS_ACC_MIN (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 31.

Received Signal Strength/Analog Control Channel Minimum. Used for the cell (re)selection process. RSS_ACC_MIN is the minimum received signal strength required to access the cell.

RSS_MIN? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:ACCess:RSS_MIN? n]
Returns current value of RSS_MIN indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

OTHER:

MULti:

PSID_RSID:

Private/Residential System Identification.

INDicator *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:INDicator n,m]
Enables (*m* = 1) or disables (*m* = 0) PSID/RSID Indicator indexed by *n*. Range of *n* is 0 to 23.

Indicates if the PSID/RSID related mapping fields are present for the associated DCCH neighbor. Specifically, if the PSID/RSID Indicator value is set to 1, the PSID/RSID Support Length and PSID/RSID Support fields are present. If the PSID/RSID Indicator value is set to 0, the PSID/RSID Support Length and PSID/RSID Support fields are **not** present.

INDicator? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:INDicator? n]
Returns current state of INDicator indexed by *n*. Range of *n* is 0 to 23.

LENGth *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:LENGth n,m]
Specifies PSID/RSID Support Length (*m*) indexed by *n*. Range of *n* is 0 to 23; range *m* is 0 to 15 (1 to 15 if present, 0 if not present).

The PSID/RSID Support Length field is only present when the PSID/RSID Indicator field is set to 1. When present, this field is always 4 bits long and is used to determine the length of the PSID/RSID Support field.

LENGth? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:LENGth? n]
Returns current value of LENGth indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

OTHER:

MULti:

PSID_RSID:

SUPport *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:SUPport n,m]
Specifies PSID/RSID Support (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to #hFFFF (1 to #hFFFF if present, 0 if not present).

The PSID/RSID Support field is only present when the PSID/RSID Indicator field is set to 1. When present, the length is determined by adding 1 to the value of the PSID/RSID Support Length field.

The PSID/RSID Support field indicates which PSID/RSID values identified in the PSID/RSID Set information element of the System Identity message of the current DCCH are supported by the DCCH neighbor under consideration. The ordering of the bits in this field reflects the ordering of the PSID/RSID Set sent in the System Identity message in that the least significant bit is corresponds with the first PSID/RSID listed in the PSID/RSID Set. If a bit in this field is set to 1, then the corresponding PSID/RSID entry in the PSID/RSID Set is supported by the neighbor cell under consideration. If a bit in this field is set to 0, then the corresponding PSID/RSID entry in the PSID/RSID Set is **not** supported by the neighbor cell under consideration..

For example if 16 PSID/RSIDs are listed in the System Identity message and the neighbor cell supports the 1st, 2nd, 3rd, and 5th PSID/RSIDs in the PSID/RSID Set, the values of PSID/RSID Support Length and PSID/RSID Support shall be:

PSID/RSID Support length = 0100
PSID/RSID Support = 10111

If 16 PSID/RSIDs are listed in the System Identity message and the neighbor cell supports 3rd and 16th PSID/RSID Set, the values of PSID/RSID Support Length and PSID/RSID Support shall be:

PSID/RSID Support length = 1111
PSID/RSID Support = 1000000000000100

SUPport? *n*
[CSS:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:SUPport? n]
Returns current value of SUPport indexed by *n*. Range of *n* is 0 to 23.

CSS:EBCCH:

NEIGHbor:

OTHER:

INFO:

Service Info - Provides service attribute information for TDMA neighbors.

HYPERband *n*
[CSS:EBCCH:NEIGHbor:OTHER:INFO:HYPERband n]
Specifies HYPERband. Range of *n* is 0 to 3.

Provides service attribute information for Other Hyperband TDMA neighbors.

HYPERband?
[CSS:EBCCH:NEIGHbor:OTHER:INFO:HYPERband?]
Returns current value of HYPERband.

COUNt *n*
[CSS:EBCCH:NEIGHbor:OTHER:INFO:COUNt n]
Specifies TDMA Neighbor Count. Range of *n* is 0 to 23.

Identifies the number of TDMA Service Map instances present in the Neighbor Service Info message. Set to 1 plus the value in this field.

COUNt?
[CSS:EBCCH:NEIGHbor:OTHER:INFO:COUNt?]
Returns current value of COUNt.

SERVice:

Provides service information for one or more TDMA neighbors.

INDicator *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:INFO:SERVice:INDicator n,m]
Enables (*m* = 1) or disables (*m* = 0) Service Map Indicator indexed by *n*. Range of *n* is 0 to 23.

When enabled, indicates the Service Map field is present.

INDicator? *n*
[CSS:EBCCH:NEIGHbor:OTHER:INFO:SERVice:INDicator? n]
Returns current state of INDicator.

CSS:EBCCH:

NEIGHbor:

OTHER:

INFO:

SERVice:

MAP *n,m*
[CSS:EBCCH:NEIGHbor:OTHER:INFO:SERVice:MAP n,m]
Specifies Service Map (*m*) indexed by *n*. Range of *n* is 0 to 23; range of *m* is 0 to 1023 (if present, 0 if not present).

This field, when present, provides service information.

MAP? *n*
[CSS:EBCCH:NEIGHbor:OTHER:INFO:SERVice:MAP? n]
Returns current value of MAP indexed by *n*. Range of *n* is 0 to 23.

RCI *n*
[CSS:EBCCH:RCI n]
Specifies Regulatory Configuration. Range of *n* is 0 to 3.

RCI?
[CSS:EBCCH:RCI?]
Returns current value of RCI.

CHANnel:

RF Channel Allocation - Indicates an RF channel allocation for system configurations that are not described in this standard.

NUMBer *n* **-or- NUM** *n*
[CSS:EBCCH:CHANnel:NUMBer n]
Specifies Number of Channel Groups. Range of *n* is 0 to 63.

NUMBer? -or- NUM?
[CSS:EBCCH:CHANnel:NUMBer?]
Returns current value of NUMBer.

CSS:EBCCH:

CHANnel:

GROUP:

Channel Group is an ordered pair indicating the first/last RF Channel Numbers assigned to the Channel Group.

FIRST *n,m*
[CSS:EBCCH:CHANnel:GROUP:FIRST n,m]
Specifies First Channel (*m*) indexed by *n*. Range of *n* is 0 to 63; range of *m* is 0 to 2047.

FIRST? *n*
[CSS:EBCCH:CHANnel:GROUP:FIRST? n]
Returns current value of FIRST indexed by *n*. Range of *n* is 0 to 63.

LAST *n,m*
[CSS:EBCCH:CHANnel:GROUP:LAST n,m]
Specifies Last Channel (*m*) indexed by *n*. Range of *n* is 0 to 63; range of *m* is 0 to 2047.

LAST? *n*
[CSS:EBCCH:CHANnel:GROUP:LAST? n]
Returns current value of LAST indexed by *n*. Range of *n* is 0 to 63.

BSMC *n*
[CSS:EBCCH:BSMC n]
Specifies Base Station Manufacture Code. Range of *n* is 0 to 255.

Identifies the assigned manufacture code. The BSMC value of 0 is reserved. A reserved BSMC value shall be considered an unknown base station manufacture code by the receiving mobile station.

BSMC?
[CSS:EBCCH:BSMC?]
Returns current value of BSMC.

CUSTOM:

LENGth *n*
[CSS:EBCCH:CUSTOM:LENGth n]
Specifies Length of Custom Control in octets. Range of *n* is 1 to 253.

LENGth?
[CSS:EBCCH:CUSTOM:LENGth?]
Returns current value of LENGth.

CSS:EBCCH:

CUSTOM:

CONTrol *n,m*
[CSS:EBCCH:CUSTOM:CONTrol n,m]
Specifies CONTrol (*m*) indexed by *n*. Range of *n* is 0 to 252; range of *m* is 0 to 255.

CONTrol? *n*
[CSS:EBCCH:CUSTOM:CONTrol? n]
Returns current value of CONTrol indexed by *n*. Range of *n* is 0 to 252.

TEXT:

Text Message Data Unit - Contains the message to be broadcast.

LENGth *n*
[CSS:EBCCH:TEXT:LENGth n]
Specifies Length Indicator. Range of *n* is 0 to 255.

LENGth?
[CSS:EBCCH:TEXT:LENGth?]
Returns current value of LENGth.

ENCoding *n*
[CSS:EBCCH:TEXT:ENCoding n]
Specifies Encoding Identifier. Range of *n* is 0 to 31.

ENCoding?
[CSS:EBCCH:TEXT:ENCoding?]
Returns current value of ENCoding.

REServed *n*
[CSS:EBCCH:TEXT:REServed n]
Specifies Reserved. Range of *n* is 0 to 7.

REServed?
[CSS:EBCCH:TEXT:REServed?]
Returns current value of REServed.

CHARacter *n,m*
[CSS:EBCCH:TEXT:CHARacter n,m]
Specifies Short Message Character (*m*) indexed by *n*. Range of *n* is 0 to 255; range of *m* is 0 to 255.

CHARacter? *n*
[CSS:EBCCH:TEXT:CHARacter? n]
Returns current value of CHARacter indexed by *n*. Range of *n* is 0 to 255.

CSS:EBCCH:

SIGnal:

Conveys alerting information to a mobile station.

PITCH *n*
[CSS:EBCCH:SIGnal:PITCH n]
Specifies Signal Pitch. Range of *n* is 0 to 3.

PITCH?
[CSS:EBCCH:SIGnal:PITCH?]
Returns current value of PITCH.

CADence *n*
[CSS:EBCCH:SIGnal:CADence n]
Specifies Signal Cadence. Range of *n* is 0 to 63.

CADence?
[CSS:EBCCH:SIGnal:CADence?]
Returns current value of CADence.

DURation *n*
[CSS:EBCCH:SIGnal:DURation n]
Specifies Signal Duration. Range of *n* is 0 to 15.

DURation?
[CSS:EBCCH:SIGnal:DURation?]
Returns current value of DURation.

MACA:

Mobile Assisted Channel Allocation.

STATus *n*
[CSS:EBCCH:MACA:STATus n]
Specifies MACA_STATUS. Range of *n* is 0 to 3.

Determines which MACA function combinations are enabled.

STATus?
[CSS:EBCCH:MACA:STATus?]
Returns current value of STATus.

TYPE *n*
[CSS:EBCCH:MACA:TYPE n]
Specifies MACA_TYPE. Range of *n* is 0 to 15.

Determines when MACA reporting is to take place.

TYPE?
[CSS:EBCCH:MACA:TYPE?]
Returns current value of TYPE.

CSS:EBCCH:

MACA:

EIGHT:

CONTrol *n*
[CSS:EBCCH:MACA:EIGHT:CONTrol n]
Enables (*n* = 1) or disables (*n* = 0) CONTrol.

This information element, together with MACA_TYPE and MACA_STATUS, determines the number of channels reported.

CONTrol?
[CSS:EBCCH:MACA:EIGHT:CONTrol?]
Returns current state of CONTrol.

LIST:

Contains information regarding the channels (other than the current DCCH) the mobile station shall measure for mobile assisted channel allocation.

NUMBer *n* **-or- NUM** *n*
[CSS:EBCCH:MACA:LIST:NUMBer n]
Specifies Number of MACA Channels. Range of *n* is 0 to 15.

NUMBer? -or- NUM?
[CSS:EBCCH:MACA:LIST:NUMBer?]
Returns current value of NUMBer.

CHAN *n,m*
[CSS:EBCCH:MACA:LIST:CHAN n,m]
Specifies Channel (m) indexed by *n*. Range of *n* is 0 to 15; range of *m* is 0 to 2047.

CHAN? *n*
[CSS:EBCCH:MACA:LIST:CHAN? n]
Returns current value of CHAN indexed by *n*. Range of *n* is 0 to 15.

OTHER:

Contains information regarding the channels other than the current DCCH. A mobile station that is not capable of performing measurements on a channel specified in this list shall report an RSS value of 00000 for that channel.

HYPERband *n*
[CSS:EBCCH:MACA:LIST:OTHER:HYPERband n]
Specifies Frequency band information. Range of *n* is 0 to 3.

HYPERband?
[CSS:EBCCH:MACA:LIST:OTHER:HYPERband?]
Returns current value of HYPERband.

CSS:EBCCH:

MACA:

LIST:

OTHER:

NUMBer *n* **-or- NUM** *n*
[CSS:EBCCH:MACA:LIST:OTHER:NUMBer n]
Specifies Number of MACA Channels. Range of *n* is 0 to 15.

NUMBer? -or- NUM?
[CSS:EBCCH:MACA:LIST:OTHER:NUMBer?]
Returns current value of NUMBer.

CHAN *n,m*
[CSS:EBCCH:MACA:LIST:OTHER:CHAN n,m]
Specifies Channel (*m*) indexed by *n*. Range of *n* is 0 to 15; range of *m* is 0 to 2047.

CHAN? *n*
[CSS:EBCCH:MACA:LIST:OTHER:CHAN? n]
Returns current value of CHAN indexed by *n*. Range of *n* is 0 to 15.

MAP:

VPM *n*
[CSS:EBCCH:MAP:VPM n]
Specifies Voice Privacy Mode Map. Range of *n* is 0 to 15.

Identifies the forms of voice privacy supported by the BMI.

VPM?
[CSS:EBCCH:MAP:VPM?]
Returns current value of VPM.

DPM *n*
[CSS:EBCCH:MAP:DPM n]
Specifies Data Privacy Mode Map. Range of *n* is 0 to 15.

Identifies the forms of data privacy supported by the BMI.

DPM?
[CSS:EBCCH:MAP:DPM?]
Returns current value of DPM.

CODER *n*
[CSS:EBCCH:MAP:CODER n]
Specifies Voice Coder Map. Range of *n* is 0 to 63.

Identifies the types of voice coders supported by the BMI.

CODER?
[CSS:EBCCH:MAP:CODER?]
Returns current value of CODER.

CSS:EBCCH:

MAP:

MEA:

Message Encryption Algorithm Map - Identifies the message encryption algorithms, domain and keys supported by a DCCH or a DTC.

DOMAIN *n*
[CSS:EBCCH:MAP:MEA:DOMAIN n]
Specifies Domain Map. Range of *n* is 0 to 255.

Identifies the number of instances and ordering of the Encryption Algorithms field.

DOMAIN?
[CSS:EBCCH:MAP:MEA:DOMAIN?]
Returns current value of DOMAIN.

ALGORithms *n,m*
[CSS:EBCCH:MAP:MEA:ALGORithms n,m]
Specifies Encryption Algorithms (*m*) indexed by *n*. Range of *n* is 0 to 7; range of *m* is 0 to 15.

ALGORithms? *n*
[CSS:EBCCH:MAP:MEA:ALGORithms? n]
Returns current value of ALGORithms indexed by *n*. Range of *n* is 0 to 7.

MEK *n*
[CSS:EBCCH:MAP:MEK n]
Specifies Message Encryption Key Map. Range of *n* is 0 to 15.

Identifies the message encryption keys supported by the BMI.

MEK?
[CSS:EBCCH:MAP:MEK?]
Returns current value of MEK.

MENU *n*
[CSS:EBCCH:MAP:MENU n]
Specifies Menu Map. Range of *n* is 0 to #h3FF.

Identifies the services supported by the BMI.

MENU?
[CSS:EBCCH:MAP:MENU?]
Returns current value of MENU.

CSS:EBCCH:

MAP:

ARQ *n*
[CSS:EBCCH:MAP:ARQ n]
Enables (*n* = 1) or disables (*n* = 0) FACCH/SACCH ARQ (Automatic Retransmission Request) Map.

Identifies if the BMI supports FACCH/SACCH ARQ mode on its IS-136 digital traffic channels.

ARQ?
[CSS:EBCCH:MAP:ARQ?]
Returns current state of ARQ.

USER *n*
[CSS:EBCCH:MAP:USER n]
Enables (*n* = 1) or disables (*n* = 0) User Group Map.

Identifies whether or not the BMI supports User Group operation.

USER?
[CSS:EBCCH:MAP:USER?]
Returns current state of USER.

SMS *n*
[CSS:EBCCH:MAP:SMS n]
Specifies Short Message Service Map. Range of *n* is 0 to 3.

Identifies the extent to which the BMI supports the CMT teleservice.

SMS?
[CSS:EBCCH:MAP:SMS?]
Returns current value of SMS.

IRA *n*
*[CSS:EBCCH:IRA **n]***
Enables (*n* = 1) or disables (*n* = 0) support for International Reference Alphabet.

When enabled, mobile station or BMI supports IRA address encoding in the Address Info information element.

IRA?
[CSS:EBCCH:IRA?]
Returns current state of IRA.

OATS *n*
[CSS:EBCCH:OATS n]
Enables (*n* = 1) or disables (*n* = 0) OATS Support. When enabled, this flag indicates support for the Over-the-Air Activation Teleservice (OATS).

OATS?
[CSS:EBCCH:OATS?]
Returns current state of the OAT Support flag.

CSS:EBCCH:

SOC *n*
[CSS:EBCCH:SOC n]
Specifies System Operator Code. Range of *n* is 0 to 4095.

Identifies which operator is providing service. A reserved SOC value shall be considered an unknown system operator code by a receiving mobile station.

SOC?
[CSS:EBCCH:SOC?]
Returns current value of SOC.

ALT_SOC:

NUMBer *n* **-or- NUM** *n*
[CSS:EBCCH:ALT_SOC:NUMBer n]
Specifies Number of Alternate SOCs. Range of *n* is 0 to 15.

NUMBer? -or- NUM?
[CSS:EBCCH:ALT_SOC:NUMBer?]
Returns current value of Number of Alternate SOCs.

SOC *n,m*
[CSS:EBCCH:ALT_SOC:SOC n,m]
Specifies SOC (*m*) for 16 instances. Range of *n* is 0 to 15; range of m is 0 to #hFFF.

SOC? *n*
[CSS:EBCCH:ALT_SOC:SOC? n]
Returns current value of indexed SOC. Range of *n* is 0 to 15.

MAP:

PSID_RSID *n,m*
[CSS:EBCCH:ALT_SOC:MAP:PSID_RSID n,m]
Specifies SOC PSID/RSID Map (*m*) which indicates the PSID/RSIDs associated with the indexed SOC value (*n*). Range of *n* is 0 to 15; range of *m* is 0 to #hFFFF.

PSID_RSID? *n*
[CSS:EBCCH:ALT_SOC:MAP:PSID_RSID? n]
Returns current value of SOC PSID/RSID Map of the indexed SOC. Range of *n* is 0 to 15.

TIME *n*
[CSS:EBCCH:TIME n]
Specifies TIME. Range of *n* is 0 to #hFFFFFFFF.

Time from Jan 1, 1980 - This information element is a non-critical sequential time counter in seconds elapsed since January 1, 1980, 00:00 hour, 0 seconds using Greenwich Mean Time as the reference point.

TIME?
[CSS:EBCCH:TIME?]
Returns current value of TIME.

CSS:EBCCH:

ZONE:

Time Zone Offset - Used to identify the time zone offset in minutes relative to Greenwich Mean Time (GMT).

DIRection *n*
[CSS:EBCCH:ZONE:DIRection n]
Enables (*n* = 1) or disables (*n* = 0) Time Zone Offset Direction.

Specifies whether to add or subtract minutes from the GMT.

DIRection?
[CSS:EBCCH:ZONE:DIRection?]
Returns current state of DIRection.

MINutes *n*
[CSS:EBCCH:ZONE:MINutes n]
Specifies Minutes. Range of *n* is 0 to 1023.

Specifies the number of minutes.

MINutes?
[CSS:EBCCH:ZONE:MINutes?]
Returns currents value of MINutes.

DST *n*
[CSS:EBCCH:ZONE:DST n]
Enables (*n* = 1) or disables (*n* = 0) Time Zone Offset Daylight Savings Indicator.

Indicates Standard or Daylight Savings Time.

DST?
[CSS:EBCCH:ZONE:DST?]
Returns current state of DST.

CSS:EBCCH:

SID *n*
[CSS:EBCCH:SID n]
Specifies System Identification. Range of *n* is 0 to 32767.

Provides a digital identification associated with a cellular system where each system is assigned a unique number.

SID?
[CSS:EBCCH:SID?]
Returns current value of SID.

CHAN *n*
[CSS:EBCCH:CHAN n]
Specifies E-BCCH CHAN. Range of *n* is 0 to 2047.

CHAN?
[CSS:EBCCH:CHAN?]
Returns current value of CHAN.

MCC *n*
[CSS:EBCCH:MCC n]
Specifies Mobile Country Code. Range of *n* is 0 to 1023.

Indicates the Mobile Country Code of the current DCCH.

MCC?
[CSS:EBCCH:MCC?]
Returns current value of MCC.

HYPERband:

INFO *n*
[CSS:EBCCH:HYPERband:INFO n]
Specifies INFO. Range of *n* is 0 to 3.

Used to specify the Hyperband associated with the specified channel.

INFO?
[CSS:EBCCH:HYPERband:INFO?]
Returns current value of INFO.

CSS:EBCCH:

ENABLE:

NONPublic *n*
[CSS:EBCCH:ENABLE:NONPublic n]
Enables (*n* = 1) or disables (*n* = 0) Non-Public Probability Blocks.

NONPublic?
[CSS:EBCCH:ENABLE:NONPublic?]
Returns current state of NONPublic.

NEIGHbor:

TDMA *n*
[CSS:EBCCH:ENABLE:NEIGHbor:TDMA n]
Enables (*n* = 1) or disables (*n* = 0) TDMA Neighbor Cell List.

TDMA?
[CSS:EBCCH:ENABLE:NEIGHbor:TDMA?]
Returns current state of TDMA.

TDMA:

INFO *n*
[CSS:EBCCH:ENABLE:NEIGHbor:TDMA:INFO n]
Enables (*n* = 1) or disables (*n* = 0) TDMA Service Info.

INFO?
[CSS:EBCCH:ENABLE:NEIGHbor:TDMA:INFO?]
Returns current state of INFO.

ANALOG *n*
[CSS:EBCCH:ENABLE:NEIGHbor:ANALOG n]
Enables (*n* = 1) or disables (*n* = 0) Analog Neighbor Cell List.

ANALOG?
[CSS:EBCCH:ENABLE:NEIGHbor:ANALOG?]
Returns current state of ANALOG.

CSS:EBCCH:

ENABLE:

NEIGHbor:

MULti:

TDMA *n*
[CSS:EBCCH:ENABLE:NEIGHbor:MULti:TDMA n]
Enables (*n* = 1) or disables (*n* = 0) Neighbor Cell List (TDMA) (Multi Hyperband).

TDMA?
[CSS:EBCCH:ENABLE:NEIGHbor:MULti:TDMA?]
Returns current state of Neighbor Cell List (TDMA) (Multi Hyperband) enable.

ANALOG *n*
[CSS:EBCCH:ENABLE:NEIGHbor:MULti:ANALOG n]
Enables (*n* = 1) or disables (*n* = 0) Analog Neighbor Cell List (Multi Hyperband).

ANALOG?
[CSS:EBCCH:ENABLE:NEIGHbor:MULti:ANALOG?]
Returns current state of Analog Neighbor Cell List (Multi Hyperband) enable.

OTHER *n*
[CSS:EBCCH:ENABLE:NEIGHbor:MULti:OTHER n]
Enables (*n* = 1) or disables (*n* = 0) Other Hyperband Neighbor Cell List (Multi Hyperband).

OTHER?
[CSS:EBCCH:ENABLE:NEIGHbor:MULti:OTHER?]
Returns current state of Other Hyperband Neighbor Cell List (Multi Hyperband) enable.

OTHER:

INFO *n*
[CSS:EBCCH:ENABLE:NEIGHbor:OTHER:INFO n]
Enables (*n* = 1) or disables (*n* = 0) Other Hyperband TDMA Service Info.

INFO?
[CSS:EBCCH:ENABLE:NEIGHbor:OTHER:INFO?]
Returns current state of INFO.

CSS:EBCCH:

ENABLE:

CHANnel *n*
[CSS:EBCCH:ENABLE:CHANnel n]
Enables (*n* = 1) or disables (*n* = 0) RF Channel Allocation.

CHANnel?
[CSS:EBCCH:ENABLE:CHANnel?]
Returns current state of CHANnel.

SIGnal *n*
[CSS:EBCCH:ENABLE:SIGnal n]
Enables (*n* = 1) or disables (*n* = 0) alerting information to a mobile station user.

SIGnal?
[CSS:EBCCH:ENABLE:SIGnal?]
Returns current state of SIGnal.

MACA:

EIGHT:

CONTrol *n*
[CSS:EBCCH:ENABLE:MACA:EIGHT:CONTrol n]
Enables (*n* = 1) or disables (*n* = 0) MACA_8_CONTROL.

CONTrol?
[CSS:EBCCH:ENABLE:MACA:EIGHT:CONTrol?]
Returns current state of CONTrol.

LIST *n*
[CSS:EBCCH:ENABLE:MACA:LIST n]
Enables (*n* = 1) or disables (*n* = 0) MACA_LIST.

LIST?
[CSS:EBCCH:ENABLE:MACA:LIST?]
Returns current state of LIST.

LIST:

OTHER *n*
[CSS:EBCCH:ENABLE:MACA:LIST:OTHER n]
Enables (*n* = 1) or disables (*n* = 0) Other Hyperband MACA_LIST.

OTHER?
[CSS:EBCCH:ENABLE:MACA:LIST:OTHER?]
Returns current state of OTHER.

CSS:EBCCH:

ENABLE:

ALT_SOC_LIST *n*
[CSS:EBCCH:ENABLE:ALT_SOC_LIST n]
Enables (*n* = 1) or disables (*n* = 0) alternate SOC information.

ALT_SOC_LIST?
[CSS:EBCCH:ENABLE:ALT_SOC_LIST?]
Returns current state of alternate SOC information.

MCC *n*
[CSS:EBCCH:ENABLE:MCC n]
Enables (*n* = 1) or disables (*n* = 0) Mobile Country Code.

MCC?
[CSS:EBCCH:ENABLE:MCC?]
Returns current state of MCC.

HYPERband:

INFO *n*
[CSS:EBCCH:ENABLE:HYPERband:INFO n]
Enables (*n* = 1) or disables (*n* = 0) Hyperband Information.

INFO?
[CSS:EBCCH:ENABLE:HYPERband:INFO?]
Returns current state of INFO.

9-12-14 USER-DEFINED OPTIONAL MESSAGE TYPES AND INFORMATION ELEMENTS FOR THE F-BCCH AND E-BCCH

The IS-136 Standard defines 20 Message Types and numerous Information Elements that make up the Fast and Extended Broadcast Channel. Some of these Message Types and Information Elements are mandatory and must be included as part of the Broadcast Channel. Others, though, are optional and are only included when deemed necessary for specific applications. In future revisions of IS-136, there will be new Message Types and Optional Information elements added to cover applications not yet considered. Since the Message Types and Information Elements discussed are optional, their presence should not affect the operation of a Mobile Station designed and manufactured before the message types and information elements were defined.

In order to test the operation of additional features at the advent of future revisions in the IS-136 standard, the following commands enable the Sp Tst to build and transmit User-Defined Message Types and User-Defined Optional Informational Elements:

A. FAST BROADCAST CHANNEL (F-BCCH) COMMANDS

CSS:

FBCCH:

USER:

MSGtype *index,n*
[CSS:FBCCH:USER:MSGtype index,n]
Specifies the value (*n*) of up to 8 user-defined message types selected by *index*. Range of *index* is 0 to 7; range of *n* is 0 to 63.

MSGtype? *index*
[CSS:FBCCH:USER:MSGtype? index]
Returns the value of Message Type selected by *index*. Range of *index* is 0 to 7.

PD *index,n*
[CSS:FBCCH:USER:PD index,n]
Specifies the value (*n*) of Protocol Discriminator of the user-defined message referenced by *index*. Range of *index* is 0 to 7; range of *n* is 0 to 3.

PD? *index*
[CSS:FBCCH:USER:PD? index]
Returns the value of Protocol Discriminator of the user-defined message referenced by *index*. Range of *index* is 0 to 7.

LENGth *index,n*
[CSS:FBCCH:USER:LENGth index,n]
Sets the length (*n*) in bits of the user-defined message type referenced by *index*. Range of *index* is 0 to 7; range of *n* is 0 to 255.

LENGth? *index*
[CSS:FBCCH:USER:LENGth? index]
Returns the length in bits of the user-defined message type referenced by *index*. Range of *index* is 0 to 7.

CSS:

FBCCH:

USER:

DATA *index,word,data*
[CSS:FBCCH:USER:DATA index,word,data]
Specifies the data used in the user-defined message type referenced by *index*. The data (*data*) is programmed 16 bits at a time, each selected by *word*. Range of *index* is 0 to 7; range of *word* is 0 to 15; range of *data* is 0 to #hFFFF.

Example:

If Length = 72 (bits) and Data = #h0123456789012345678:

word	*data*
0	#h0123
1	#h4567
2	#h8901
3	#h2345
4	#h6700

DATA? *index,word*
[CSS:FBCCH:USER:DATA? index,word]
Returns the user-defined data in the selected set of 16 bits (*word*) of the message type referenced by *index*. Range of *index* is 0 to 7; range of *word* is 0 to 15.

CSS:

FBCCH:

OPTional:

MSGtype *index,type*
[CSS:FBCCH:OPTional:MSGtype index,type]
Appends an optional field to one of the message types listed in the table below. From 1 to 8 message types (specified by *index*) out of a possible 12 (13, if counting **None**) may be selected to receive an appended optional field. Range of *index* is 0 to 7; range of *type* is 0 to 12.

Ensure that *type* for all unused index values are set to 0 (None).

MESSAGE TYPE	*type*
None	0
DCCH Structure	1
Access Parameters	2
Control Channel Selection Parameters	3
Registration Parameters	4
System Identity	5
Overload Class	6
Mobile Assisted Channel Allocation	7
BSMC Message Delivery	8
Service Menu	9
SOC/BSMC Identification	10
SOC Message Delivery	11
MACA (Multi-Hyperband)	12

Example:
```
CSS:FBCCH:OPT:MSG 0,1     // Append optional field to
                          // DCCH Structure message type.
CSS:FBCCH:OPT:MSG 1,5     // Append optional field to
                          // System Identity message type.
CSS:FBCCH:OPT:MSG 2,9     // Append optional field to
                          // Service Menu message type.
CSS:FBCCH:OPT:MSG 3,0     // No more message types to have
                          // appended optional fields.
CSS:FBCCH:OPT:MSG 4,0
CSS:FBCCH:OPT:MSG 5,0
CSS:FBCCH:OPT:MSG 6,0
CSS:FBCCH:OPT:MSG 7,0
```

MSGtype? *index*
[CSS:FBCCH:OPTional:MSGtype? index]
Returns the value of Message Type (see table above) for specified *index*. Range of *index* is 0 to 7.

CSS:

FBCCH:

OPTional:

LENGth *index,n*
[CSS:FBCCH:OPTional:LENGth index,n]
Specifies the length in bits (*n*) of the user-defined optional information element referenced to the associated message type by *index*. Range of *index* is 0 to 7; range of *n* is 0 to 255.

LENGth? *index*
[CSS:FBCCH:OPTional:LENGth? index]
Returns length in bits of the user-defined optional information element referenced to the associated message type by *index*. Range of *index* is 0 to 7.

DATA *index,word,data*
[CSS:FBCCH:OPTional:DATA index,word,data]
Specifies the data used in the user-defined optional information element referenced to the associated message type by *index*. The *data* is programmed 16 bits at a time, each selected by *word*. Range of *index* is 0 to 7; range of *word* is 0 to 15; range of *data* is 0 to #hFFFF.

Example:

If Length = 68 (bits) and Data = #h01234567890123456:

word	*data*
0	#h0123
1	#h4567
2	#h8901
3	#h2345
4	#h6000

DATA? *index,word*
[CSS:FBCCH:OPTional:DATA? index,word]
Returns the user-defined data in the selected set of 16 bits (*word*) of the user-defined optional information element referenced to the associated message type by *index*. Range of *index* is 0 to 7; range of *word* is 0 to 15.

B. EXTENDED BROADCAST CHANNEL (E-BCCH) COMMANDS

CSS:

EBCCH:

USER:

MSGtype *index,n*
[CSS:EBCCH:USER:MSGtype index,n]
Specifies the value (*n*) of up to 8 user-defined message types selected by *index*. Range of *index* is 0 to 7; range of *n* is 0 to 63.

MSGtype? *index*
[CSS:EBCCH:USER:MSGtype? index]
Returns the value of Message Type selected by *index*. Range of *index* is 0 to 7.

PD *index,n*
[CSS:EBCCH:USER:PD index,n]
Specifies the value (*n*) of Protocol Discriminator of the user-defined message referenced by *index*. Range of *index* is 0 to 7; range of *n* is 0 to 3.

PD? *index*
[CSS:EBCCH:USER:PD? index]
Returns the value of Protocol Discriminator of the user-defined message referenced by *index*. Range of *index* is 0 to 7.

LENGth *index,n*
[CSS:EBCCH:USER:LENGth index,n]
Sets the length (*n*) in bits of the user-defined message type referenced by *index*. Range of *index* is 0 to 7; range of *n* is 0 to 255.

LENGth? *index*
[CSS:EBCCH:USER:LENGth? index]
Returns the length in bits of the user-defined message type referenced by *index*. Range of *index* is 0 to 7.

CSS:

EBCCH:

USER:

DATA *index,word,data*
[CSS:EBCCH:USER:DATA index,word,data]
Specifies the data used in the user-defined message type referenced by *index*. The data (*data*) is programmed 16 bits at a time, each selected by *word*. Range of *index* is 0 to 7; range of *word* is 0 to 15; range of *data* is 0 to #hFFFF.

Example:

If Length = 72 (bits) and Data = #h012345678901234567:

word	*data*
0	#h0123
1	#h4567
2	#h8901
3	#h2345
4	#h6700

DATA? *index,word*
[CSS:EBCCH:USER:DATA? index,word]
Returns the user-defined data in the selected set of 16 bits (*word*) of the message type referenced by *index*. Range of *index* is 0 to 7; range of *word* is 0 to 15.

CSS:

EBCCH:

OPTional:

MSGtype *index,type*
[CSS:EBCCH:OPTional:MSGtype index,type]
Appends an optional field to one of the message types listed in the table below. From 1 to 8 message types (specified by *index*) out of a possible 14 (15, if counting **None**) may be selected to receive an appended optional field. Range of *index* is 0 to 7; range of *type* is 0 to 14.

Ensure that *type* for all unused index values is set to 0 (None).

MESSAGE TYPE	*type*
None	0
Mobile Assisted Channel Allocation	1
Neighbor Cell	2
Regulatory Configuration	3
Alternate RCI Info	4
BSMC Message Delivery	5
Emergency Information Broadcast	6
Neighbor Service Info	7
Service Menu	8
SOC/BSMC Identification	9
SOC Message Delivery	10
Time and Date	11
MACA (Multi-Hyperband)	12
Neighbor Cell (Multi-Hyperband)	13
Neighbor Service Info (Multi-Hyperband)	14

Example:
```
CSS:EBCCH:OPT:MSG 0,2     // Append optional field to
                          // Neighbor Cell message type.
CSS:EBCCH:OPT:MSG 1,5     // Append optional field
                          // to BSMC Message Delivery
                          // message type.
CSS:EBCCH:OPT:MSG 2,8     // Append optional field to
                          // Service Menu message type.
CSS:EBCCH:OPT:MSG 3,0     // No more message types to have
                          // appended optional fields.
CSS:EBCCH:OPT:MSG 4,0
CSS:EBCCH:OPT:MSG 5,0
CSS:EBCCH:OPT:MSG 6,0
CSS:EBCCH:OPT:MSG 7,0
```

CSS:

EBCCH:

OPTional:

MSGtype? *index*
[CSS:EBCCH:OPTional:MSGtype? index]
Returns the value of Message Type (see table above) for specified *index*. Range of *index* is 0 to 7.

LENGth *index,n*
[CSS:EBCCH:OPTional:LENGth index,n]
Specifies the length in bits (*n*) of the user-defined optional information element referenced to the associated message type by *index*. Range of *index* is 0 to 7; range of *n* is 0 to 255.

LENGth? *index*
[CSS:EBCCH:OPTional:LENGth? index]
Returns length in bits of the user-defined optional information element referenced to the associated message type by *index*. Range of *index* is 0 to 7.

DATA *index,word,data*
[CSS:EBCCH:OPTional:DATA index,word,data]
Specifies the data used in the user-defined optional information element referenced to the associated message type by *index*. The *data* is programmed 16 bits at a time, each selected by *word*. Range of *index* is 0 to 7; range of *word* is 0 to 15; range of *data* is 0 to #hFFFF.

Example:

If Length = 68 (bits) and Data = #h01234567890123456:

word	*data*
0	#h0123
1	#h4567
2	#h8901
3	#h2345
4	#h6000

DATA? *index,word*
[CSS:EBCCH:OPTional:DATA? index,word]
Returns the user-defined data in the selected set of 16 bits (*word*) of the user-defined optional information element referenced to the associated message type by *index*. Range of *index* is 0 to 7; range of *word* is 0 to 15.

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9-12-15 SPACH COMMANDS

The following *SEND_XXXX n* commands control the process of sending the message and not the type of message. The Layer 2 and Layer 3 information must be specified before sending a message with these commands. The Layer 2 element, BU (Burst Usage), must be configured to insure that the correct type (PCH, ARCH, HARD or SMS) message is built.

SEND_PCH *n*
[SEND_PCH n]
Builds the current SPACH message and sends message according to the rules of sending a PCH message (i.e. SPACH message is sent in both the primary and secondary superframes). *n* is the Superframe Phase (SFP) of the start of the message. Range of *n* is 0 to 31.

SEND_HARD *n*
[SEND_HARD n]
Builds a message and sends message according to the rules of sending a HARD Page (i.e. message is sent in both the primary and secondary superframes). *n* is the Superframe Phase (SFP) of the start of the message. Range of *n* is 0 to 31.

SEND_ARCH *n*
[SEND_ARCH n]
Builds the current SPACH message and sends message according to the rules of sending a Non-ARQ ARCH message (i.e. SPACH message is sent in one superframe). *n* is the Superframe Phase (SFP) of the start of the message. Range of *n* is 0 to 31.

This command is also useful for sending Non-ARQ SMS messages.

CSS:SPACH:

BUILD:

HARD
[CSS:SPACH:BUILD:HARD]
Builds a Hard Page of any type.

ARQ
[CSS:SPACH:BUILD:ARQ]
Builds an ARQ SPACH Message of any type.

NONARQ
[CSS:SPACH:BUILD:NONARQ]
Builds a Non ARQ SPACH Message.

LENGth:

HARD?
[CSS:SPACH:LENGth:HARD?]
Returns current value of hard page length (1 bit value).

ARQ?
[CSS:SPACH:LENGth:ARQ?]
Returns current value of ARQ SPACH message length (7 bit value).

CSS:SPACH:

LENGth:

NONARQ?
[CSS:SPACH:LENGth:NONARQ?]
Returns current value of NONARQ SPACH message length (7 bit value).

DATA:

HARD? *n*
[CSS:SPACH:DATA:HARD? n]
Returns current 16 bit word (indexed by *n*) within a hard page. Range of *n* is 0 to 6.

ARQ? *n,m*
[CSS:SPACH:DATA:ARQ? n,m]
Returns current 16 bit word (indexed by m) within a selected frame (*n*) of the ARQ SPACH message. Range of *n* is 0 to 255; range of *m* is 0 to 6.

NONARQ? *n,m*
[CSS:SPACH:DATA:NONARQ? n,m]
Returns current 16 bit word (indexed by m) within a selected frame (*n*) of the NONARQ SPACH message. Range of *n* is 0 to 255; range of *m* is 0 to 6.

PROGRAM:

HARD *dest*
[CSS:SPACH:PROGRAM:HARD dest]
Copies the hard page into the superframe. The location in the superframe is selected by *dest*. Range of *dest* is 0 to 31.

ARQ *dest,source,length*
[CSS:SPACH:PROGRAM:ARQ dest,source,length]
Copies the ARQ message into the superframe. The location in the superframe is selected by *dest*. The *source* selects the frame from the ARQ buffer. The number of frames moved is selected by *length*. Range of *dest* is 0 to 31; range of *source* is 0 to 255; range of *length* is 0 to 32.

NONARQ *dest,source,length*
[CSS:SPACH:PROGRAM:NONARQ dest,source,length]
Copies the NONARQ message into the superframe. The location in the superframe is selected by *dest*. The *source* selects the frame from the NONARQ buffer. The number of frames moved is selected by *length*. Range of *dest* is 0 to 31; range of *source* is 0 to 255; range of *length* is 0 to 32.

BU *n*
[CSS:SPACH:BU n]
Specifies Burst Usage. Range of *n* is 0 to 7.

BU?
[CSS:SPACH:BU?]
Returns current value of BU.

CSS:SPACH:

PCON *n,m*
[CSS:SPACH:PCON n,m]
Enables (*m* = 1) or disables (*m* = 0) Paging Channel Continuation indexed by *n*. Range of *n* is 0 or 1.

PCON? *n*
[CSS:SPACH:PCON? n]
Returns current value of PCON indexed by *n*. Range of *n* is 0 or 1.

BCN *n*
[CSS:SPACH:BCN n]
Enables (*n* = 1) or disables (*n* = 0) Broadcast Channel Change Notification Flag.

BCN?
[CSS:SPACH:BCN?]
Returns current state of BCN.

PFM *n*
[CSS:SPACH:PFM n]
Enables (*n* = 1) or disables (*n* = 0) Paging Frame Modifier.

PFM?
[CSS:SPACH:PFM?]
Returns current state of PFM.

BT *n*
[CSS:SPACH:BT n]
Specifies Burst Type. Range of *n* is 0 to 7.

BT?
[CSS:SPACH:BT?]
Returns current value of BT.

IDT *n*
[CSS:SPACH:IDT n]
Specifies Identity Type. Range of *n* is 0 to 3.

IDT?
[CSS:SPACH:IDT?]
Returns current value of IDT.

CSS:SPACH:

MSID:

MS *n,m*
[CSS:SPACH:MSID:MS n,m]
Specifies the 18 Most Significant Bits (*m*) of Mobile Station Identification indexed by *n*. Range of *n* is 0 to 4; range of *m* is 0 to #h3FFFF.

MS? *n*
[CSS:SPACH:MSID:MS? n]
Returns the 18 Most Significant Bits of Mobile Station Identification indexed by *n*. Range of *n* is 0 to 4.

LS *n,m*
[CSS:SPACH:MSID:LS n,m]
Specifies the 32 Least Significant Bits (*m*) of Mobile Station Identification indexed by *n*. Range of *n* is 0 to 4; range of *m* is 0 to #hFFFFFFFF.

LS? *n*
[CSS:SPACH:MSID:LS? n]
Returns the 32 Least Significant Bits of Mobile Station Identification indexed by *n*. Range of *n* is 0 to 4.

MIN1 *"n"*
[CSS:SPACH:MIN1 "n"]
Specifies MIN1 used in a SPACH Message. (ASCII string).

(example: "316/522-4981")

MIN1?
[CSS:SPACH:MIN1?]
Returns current value of MIN1.

MIN2 *"n"*
[CSS:SPACH:MIN2 "n"]
Specifies MIN2 used in a SPACH Message. (ASCII string).

(example: "316/522-4981")

MIN2?
[CSS:SPACH:MIN2?]
Returns current value of MIN2.

MIN3 *"n"*
[CSS:SPACH:MIN3 "n"]
Specifies MIN3 used in a SPACH Message. (ASCII string).

(example: "316/522-4981")

MIN3?
[CSS:SPACH:MIN3?]
Returns current value of MIN3.

CSS:SPACH:

UGID:

MS *n*
[CSS:SPACH:UGID:MS n]
Specifies the 18 Most Significant Bits of User Group Identification. Range of *n* is 0 to #h3FFFF.

MS?
[CSS:SPACH:UGID:MS?]
Returns the 18 Most Significant Bits of User Group Identification.

LS *n*
[CSS:SPACH:UGID:LS n]
Sets the 32 Least Significant Bits of User Group Identification. Range of *n* is 0 to #hFFFFFFFF.

LS?
[CSS:SPACH:UGID:LS?]
Returns the 32 Least Significant Bits of User Group Identification.

MM *n*
[CSS:SPACH:MM n]
Enables (*n* = 1) or disables (*n* = 0) Message Mapping.

MM?
[CSS:SPACH:MM?]
Returns current state of MM.

PEA *n*
[CSS:SPACH:PEA n]
Specifies Partial Echo Assigned. Range of *n* is 0 to 127.

Partial Echo value used by a mobile station during an ARQ mode transaction.

PEA?
[CSS:SPACH:PEA?]
Returns current value of PEA.

PI *n,m*
[CSS:SPACH:PI n,m]
Enables (*m* = 1) or disables (*m* = 0) Polling Indicator indexed by *n*. Range of *n* is 0 to 79.

Indicates whether or not the BMI is soliciting a response (ARQ STATUS Frame) from the mobile station.

PI? *n*
[CSS:SPACH:PI? n]
Returns current state of PI indexed by *n*. Range of *n* is 0 to 79.

CSS:SPACH:

SRM *n*
[CSS:SPACH:SRM n]
Enables (*n* = 1) or disables (*n* = 0) SPACH Response Mode.

Indicates how a mobile station is to respond once it has received all frames associated with a given SPACH message.

SRM?
[CSS:SPACH:SRM?]
Returns current state of SRM.

EHI *n*
[CSS:SPACH:EHI n]
Enables (*n* = 1) or disables (*n* = 0) Extended Header Indicator.

EHI?
[CSS:SPACH:EHI?]
Returns current state of EHI.

MEA *n*
[CSS:SPACH:MEA n]
Specifies Message Encryption Algorithm. Range of *n* is 0 to 3.

MEA?
[CSS:SPACH:MEA?]
Returns current value of MEA.

MEK *n*
[CSS:SPACH:MEK n]
Specifies Message Encryption Key. Range of *n* is 0 to 3.

MEK?
[CSS:SPACH:MEK?]
Returns current value of MEK.

RSVD:

Reserved.

HEADER *n*
[CSS:SPACH:RSVD:HEADER n]
Enables (*n* = 1) or disables (*n* = 0) reserved field in SPACH Header A.

HEADER?
[CSS:SPACH:RSVD:HEADER?]
Returns current state of HEADER.

CSS:SPACH:

RSVD:

ARQ *n*
[CSS:SPACH:RSVD:ARQ n]
Specifies Automatic Retransmission Request. Range of *n* is 0 to 3.

ARQ?
[CSS:SPACH:RSVD:ARQ?]
Returns current value of ARQ.

ARM *n*
[CSS:SPACH:ARM n]
Enables (*n* = 1) or disables (*n* = 0) ARQ Response Mode.

Indicates how a mobile station is to respond once it has received an ARQ frame with PI set to 1.

ARM?
[CSS:SPACH:ARM?]
Returns current state of ARM.

FRNO *n,m*
[CSS:SPACH:FRNO n,m]
Specifies Frame Number (*m*) indexed by *n*. Range of *n* is 0 to 79; range of *m* is 0 to 31.

Uniquely identifies specific frames sent in support of an ARQ mode transaction.

FRNO? *n*
[CSS:SPACH:FRNO? n]
Returns current value of FRNO indexed by *n*. Range of *n* is 0 to 79.

GA *n*
[CSS:SPACH:GA n]
Enables (*n* = 1) or disables (*n* = 0) Go Away.

Indicates if the DCCH is barred.

GA?
[CSS:SPACH:GA?]
Returns current state of GA.

PD *n*
[CSS:SPACH:PD n]
Specifies the value of Protocol Discriminator. Range of *n* is 0 to 3.

PD?
[CSS:SPACH:PD?]
Returns the current value of Protocol Discriminator.

CSS:SPACH:

MSGtype1:

<COMMAND FROM Table below>
[CSS:SPACH:MSGtype1:<COMMAND FROM Table below>]
Specifies message type 1 used in a SPACH message.

MSGtype2:

<COMMAND FROM Table below>
[CSS:SPACH:MSGtype2:<COMMAND FROM Table below>]
Specifies message type 2 used in a SPACH message.

MSGtype3:

<COMMAND FROM Table below>
[CSS:SPACH:MSGtype3:<COMMAND FROM Table below>]
Specifies message type 3 used in a SPACH message.

MSGtype4:

<COMMAND FROM Table below>
[CSS:SPACH:MSGtype4:<COMMAND FROM Table below>]
Specifies message type 4 used in a SPACH message.

ANALOG	AUDIT	BSCHALcon	BSMC
CAPability	DIGital	DRETRY	MSGWTG
PAGE	PU	QDISC_ACK	QUPDate
RDATA	RDATA_ACCept	RDATA_REJect	REG_ACCept
REG_REJect	RELease	REORDer	SOC
SPACHnotification	SSDUP	TESTreg	UCHAL
USERalert			

MEM *n*
[CSS:SPACH:MEM n]
Enables (*n* = 1) or disables (*n* = 0) Message Encryption Mode.

Indicates message encryption algorithm A and message encryption domain A are enabled on the assigned voice channel.

MEM?
[CSS:SPACH:MEM?]
Returns current state of MEM.

CSS:SPACH:

SCC *n*
[CSS:SPACH:SCC n]
Specifies SAT Color Code. Range of *n* is 0 to 3.

Defines SAT Color Code used on the assigned analog voice channel.

SCC?
[CSS:SPACH:SCC?]
Returns current value of SCC.

VMAC *n*
[CSS:SPACH:VMAC n]
Specifies VMAC. Range of *n* is 0 to 15.

Indicates the power level to be used on the assigned analog voice channel.

VMAC?
[CSS:SPACH:VMAC?]
Returns current value of VMAC.

CHAN *n*
[CSS:SPACH:CHAN n]
Specifies Channel used in a Digital or Analog channel assignment. Range of *n* is 0 to 2047.

CHAN?
[CSS:SPACH:CHAN?]
Returns current value of CHAN.

PROTocol *n*
[CSS:SPACH:PROTocol n]
Specifies Protocol version. Range of *n* is 0 to 15.

PROTocol?
[CSS:SPACH:PROTocol?]
Returns current value of PROTocol.

SUBaddress:

Identifies the subaddress of a called or calling party.

LENGth *n*
[CSS:SPACH:SUBaddress:LENGth n]
Specifies Length of Subaddress Info content. Range of *n* is 0 to 255.

LENGth?
[CSS:SPACH:SUBaddress:LENGth?]
Returns current value of LENGth.

CSS:SPACH:

SUBaddress:

ODD_EVEN *n*
[CSS:SPACH:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Odd/Even Indicator.

ODD_EVEN?
[CSS:SPACH:SUBaddress:ODD_EVEN?]
Returns current state of ODD_EVEN.

TYPE *n*
[CSS:SPACH:SUBaddress:TYPE n]
Specifies Type of Subaddress. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:SUBaddress:TYPE?]
Returns current value of TYPE.

REServed *n*
[CSS:SPACH:SUBaddress:REServed n]
Specifies number of subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[CSS:SPACH:SUBaddress:REServed?]
Returns number of subaddress Reserved fields.

ADDRess *n,m*
[CSS:SPACH:SUBaddress:ADDRess n,m]
Specifies Subaddress (*m*) indexed by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[CSS:SPACH:SUBaddress:ADDRess? n]
Returns current value of Subaddress indexed by *n*. Range of *n* is 0 to 19.

DTX:

SUPport *n*
[CSS:SPACH:DTX:SUPport n]
Specifies DTX Support. Range of *n* is 0 to 3.

Used to indicate DTX capabilities supported on the analog voice channel.

SUPport?
[CSS:SPACH:DTX:SUPport?]
Returns current value of SUPport.

CSS:SPACH:

DISPlay:

Used to supply display information that may be displayed to the mobile station user. The information contained in this information element is coded in IRA characters. If the mobile station receives this information element with a length exceeding the maximum length the mobile station supports, the information element should be truncated.

LENGth *n*
[CSS:SPACH:DISPlay:LENGth n]
Specifies Length of Display info. Range of *n* is 0 to 82.

LENGth?
[CSS:SPACH:DISPlay:LENGth?]
Returns current value of LENGth.

CHARacter *n,m*
[CSS:SPACH:DISPlay:CHARacter n,m]
Specifies Display Character (*m*) indexed by *n*. Range of *n* is 0 to 81; range of *m* is 0 to 255.

Up to 82 characters may be sent.

CHARacter? *n*
[CSS:SPACH:DISPlay:CHARacter? n]
Returns current value of CHARacter indexed by *n*. Range of *n* is 0 to 81.

REREG *n*
[CSS:SPACH:REREG n]
Enables (*n* = 1) or disables (*n* = 0) Forced Re-registration.

Indicates if the mobile station is required to initiate a Registration attempt with Registration Type set to Forced.

REREG?
[CSS:SPACH:REREG?]
Returns current state of REREG.

DEBUG *n*
[CSS:SPACH:DEBUG n]
Enables (*n* = 1) or disables (*n* = 0) Debug Display Allowed.

When enabled, the mobile station is allowed to include a Display information element in the Audit Confirmation message.

DEBUG?
[CSS:SPACH:DEBUG?]
Returns current state of DEBUG.

CSS:SPACH:

AUTHBS *n*
[CSS:SPACH:AUTHBS n]
Specifies AUTHBS. Range of *n* is 0 to #hFFFF.

Contains the output from the Authentication procedure.

AUTHBS?
[CSS:SPACH:AUTHBS?]
Returns current value of AUTHBS.

BSMC *n*
[CSS:SPACH:BSMC n]
Specifies Base Station Manufacture Code. Range of *n* is 0 to 255.

Identifies the assigned manufacture code. The BSMC value of 0 is reserved. A reserved BSMC value shall be considered an unknown base station manufacture code by the receiving mobile station.

BSMC?
[CSS:SPACH:BSMC?]
Returns current value of BSMC.

CUSTOM:

LENGth *n*
[CSS:SPACH:CUSTOM:LENGth n]
Specifies Length of Custom Control in octets. Range of *n* is 1 to 64.

LENGth?
[CSS:SPACH:CUSTOM:LENGth?]
Returns current value of LENGth.

CONTrol *n,m*
[CSS:SPACH:CUSTOM:CONTrol n,m]
Specifies Custom Control (*m*) indexed by *n*. Range of *n* is 0 to 63; range of *m* is 0 to 255.

CONTrol? *n*
[CSS:SPACH:CUSTOM:CONTrol? n]
Returns current value of CONTrol indexed by *n*. Range of *n* is 0 to 63.

DVCC *n*
[CSS:SPACH:DVCC n]
Specifies Digital Verification Color Code. Range of *n* is 0 to 255.

DVCC?
[CSS:SPACH:DVCC?]
Returns current value of DVCC.

CSS:SPACH:

DMAC *n*
[CSS:SPACH:DMAC n]
Specifies Digital Mobile Attenuation Code. Range of *n* is 0 to 15.

Indicates the power level to be used on the assigned digital traffic channel.

DMAC?
[CSS:SPACH:DMAC?]
Returns current value of DMAC.

ATS *n*
[CSS:SPACH:ATS n]
Specifies Assigned Time Slot. Range of *n* is 0 to 15.

ATS?
[CSS:SPACH:ATS?]
Returns current value of ATS.

SB *n*
[CSS:SPACH:SB n]
Enables (*n* = 1) or disables (*n* = 0) Shortened Burst.

Defines whether the mobile station shall use the shortened burst initially on the assigned digital traffic channel.

SB?
[CSS:SPACH:SB?]
Returns current state of SB.

TA *n*
[CSS:SPACH:TA n]
Specifies Time Alignment. Range of *n* is 0 to 31.

Indicates the absolute timing offset from the standard offset reference (SOR) position.

TA?
[CSS:SPACH:TA?]
Returns current value of TA.

CSS:SPACH:

MODE:

DIC *n*
[CSS:SPACH:MODE:DIC n]
Enables (*n* = 1) or disables (*n* = 0) Delay Interval Compensation Mode.

Used to control the application of the DIC mode in the mobile station. When received in the access parameters message, the domain of DIC application shall be the DCCH. When received in the Digital Traffic Channel Designation message, the domain of DIC application shall be the DTC.

DIC?
[CSS:SPACH:MODE:DIC?]
Returns current state of DIC.

VOICE:

Identifies the mode to be used for the requested Voice Call.

VC *n*
[CSS:SPACH:MODE:VOICE:VC n]
Specifies Voice Coder. Range of *n* is 0 to 7.

VC?
[CSS:SPACH:MODE:VOICE:VC?]
Returns current value of VC.

PM_V *n*
[CSS:SPACH:MODE:VOICE:PM_V n]
Specifies Voice Privacy. Range of *n* is 0 to 7.

PM_V?
[CSS:SPACH:MODE:VOICE:PM_V?]
Returns current value of PM_V.

CSS:SPACH:

MODE:

MEM:

Message Encryption Mode- Identifies the selected message encryption algorithm, key and domain.

MEA *n*
[CSS:SPACH:MODE:MEM:MEA n]
Specifies Message Encryption Algorithm. Range of *n* is 0 to 7.

MEA?
[CSS:SPACH:MODE:MEM:MEA?]
Returns current value of MEA.

MED *n*
[CSS:SPACH:MODE:MEM:MED n]
Specifies Message Encryption Domain. Range of *n* is 0 to 7.

MED?
[CSS:SPACH:MODE:MEM:MED?]
Returns current value of MED.

MEK *n*
[CSS:SPACH:MODE:MEM:MEK n]
Specifies Message Encryption Key. Range of *n* is 0 to 7.

MEK?
[CSS:SPACH:MODE:MEM:MEK?]
Returns current value of MEK.

HYPERband:

If present, this information element is used to specify the Hyperband associated with the specified channel.

INFO *n*
[CSS:SPACH:MODE:HYPERband:INFO n]
Specifies Hyperband Info. Range of *n* is 0 to 3.

Provides frequency band information.

INFO?
[CSS:SPACH:MODE:HYPERband:INFO?]
Returns current value of INFO.

CSS:SPACH:

LT *n*
[CSS:SPACH:LT n]
Enables (*n* = 1) or disables (*n* = 0) Last Try.

If a mobile station receives a Directed Retry and attempts a new access on another DCCH, the mobile station shall set the Last Try flag in the Origination or the Page Response message to the value of the Last Try flag received in the Directed Retry message. Otherwise, the mobile station shall set the Last Try flag to 0 at system access.

LT?
[CSS:SPACH:LT?]
Returns current state of LT.

RCF *n*
[CSS:SPACH:RCF n]
Enables (*n* = 1) or disables (*n* = 0) Read Control Filler information.

When enabled, the mobile station is to read Control Filler information.

RCF?
[CSS:SPACH:RCF?]
Returns current state of RCF.

AUTH *n*
[CSS:SPACH:AUTH n]
Enables (*n* = 1) or disables (*n* = 0) Authentication information.

When enabled, Authentication information is sent when making an access on an ACC as a result of a Directed Retry received on the DCCH.

AUTH?
[CSS:SPACH:AUTH?]
Returns current state of AUTH.

RETRY:

Retry Channel - Specifies a channel to be considered for Directed Retry purposes.

NUMBer *n* **-or- NUM** *n*
[CSS:SPACH:RETRY:NUMBer n]
Specifies Number of instances of Retry Channel. Range of *n* is 0 to 5.

NUMBer? -or- NUM?
[CSS:SPACH:RETRY:NUMBer?]
Returns current Number of instances of Retry Channel.

CSS:SPACH:

RETRY:

HYPERband *n,m*
[CSS:SPACH:RETRY:HYPERband n,m]
Specifies Hyperband (*m*) for designated instance (*n*) of Retry Channel. Range of *n* is 0 to 5; range of *m* is 0 to 3.

HYPERband? *n*
[CSS:SPACH:RETRY:HYPERband? n]
Returns current value of Hyperband for specified instance (*n*) of Retry Channel. Range of *n* is 0 to 5.

CHANnel *n,m*
[CSS:SPACH:RETRY:CHANnel n,m]
Specifies CHAN for designated instance (*n*) of Retry Channel. Range of *n* is 0 to 5; range of *m* is 1 to 2047.

CHANnel? *n*
[CSS:SPACH:RETRY:CHANnel? n]
Returns current value of CHAN for specified instance (*n*) of Retry Channel. Range of *n* is 0 to 5.

MSGWTG:

Message Waiting Info.

NV *n*
[CSS:SPACH:MSGWTG:NV n]
Specifies Number of Values. Range of *n* is 0 to 15.

NV?
[CSS:SPACH:MSGWTG:NV?]
Returns current value of NV.

TYPE *n,m*
[CSS:SPACH:MSGWTG:TYPE n,m]
Specifies Type of Message Waiting (*m*) indexed by *n*. Range of *n* is 0 to 15; range of *m* is 0 to 15.

TYPE? *n*
[CSS:SPACH:MSGWTG:TYPE? n]
Returns current value of TYPE indexed by *n*. Range of *n* is 0 to 15.

NUMBer *n,m* **-or- NUM** *n,m*
[CSS:SPACH:MSGWTG:NUMBer n,m]
Specifies Number of Messages Waiting (*m*) indexed by *n*. Range of *n* is 0 to 15; range of *m* is 0 to 63.

Up to 16 instances of this field may be sent.

NUMBer? *n* **-or- NUM?** *n*
[CSS:SPACH:MSGWTG:NUMBer? n]
Returns current value of NUMBer indexed by *n*. Range of *n* is 0 to 15.

CSS:SPACH:

SERVice *n*
[CSS:SPACH:SERVice n]
Specifies Service Code. Range of *n* is 0 to 15.

Indicates the requested service.

SERVice?
[CSS:SPACH:SERVice?]
Returns current value of SERVice.

SIGnal:

PITCH *n*
[CSS:SPACH:SIGnal:PITCH n]
Specifies Signal Pitch. Range of *n* is 0 to 3.

PITCH?
[CSS:SPACH:SIGnal:PITCH?]
Returns current value of PITCH.

CADence *n*
[CSS:SPACH:SIGnal:CADence n]
Specifies Signal Cadence. Range of *n* is 0 to 63.

CADence?
[CSS:SPACH:SIGnal:CADence?]
Returns current value of CADence.

DURation *n*
[CSS:SPACH:SIGnal:DURation n]
Specifies Signal Duration. Range of *n* is 0 to 15.

DURation?
[CSS:SPACH:SIGnal:DURation?]
Returns current value of DURation.

CSS:SPACH:

CALLED:

Called Party - Identifies the called party associated with a mobile station.

TYPE *n*
[CSS:SPACH:CALLED:TYPE n]
Specifies Type of Number. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:CALLED:TYPE?]
Returns current value of TYPE.

PLANid *n*
[CSS:SPACH:CALLED:PLANid n]
Specifies Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[CSS:SPACH:CALLED:PLANid?]
Returns current value of PLANid.

ENCoding *n*
[CSS:SPACH:CALLED:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Address Encoding.

ENCoding?
[CSS:SPACH:CALLED:ENCoding?]
Returns current state of ENCoding.

ADDRess *"n"*
[CSS:SPACH:CALLED:ADDRess "n"]
Specifies Called Address. (ASCII string).

ADDRess?
[CSS:SPACH:CALLED:ADDRess?]
Returns current string value of ADDRess.

CSS:SPACH:

CALLED:

SUBaddress:

Identifies the address of a called party.

LENGth *n*
[CSS:SPACH:CALLED:SUBaddress:LENGth n]
Specifies Length of Subaddress Info content. Range of *n* is 0 to 255.

LENGth?
[CSS:SPACH:CALLED:SUBaddress:LENGth?]
Returns current value of LENGth.

ODD_EVEN *n*
[CSS:SPACH:CALLED:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Odd/Even Indicator.

ODD_EVEN?
[CSS:SPACH:CALLED:SUBaddress:ODD_EVEN?]
Returns current state of ODD_EVEN.

TYPE *n*
[CSS:SPACH:CALLED:SUBaddress:TYPE n]
Specifies Type of Subaddress. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:CALLED:SUBaddress:TYPE?]
Returns current value of TYPE.

REServed *n*
[CSS:SPACH:CALLED:SUBaddress:REServed n]
Specifies number of subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[CSS:SPACH:CALLED:SUBaddress:REServed?]
Returns number of subaddress Reserved fields.

ADDRess *n,m*
[CSS:SPACH:CALLED:SUBaddress:ADDRess n,m]
Specifies Called Subaddress (*m*) indexed by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[CSS:SPACH:CALLED:SUBaddress:ADDRess? n]
Returns current value of ADDRess indexed by *n*. Range of *n* is 0 to 19.

CSS:SPACH:

CALLING:

Calling Party - Identifies the calling party associated with a mobile station.

TYPE *n*
[CSS:SPACH:CALLING:TYPE n]
Specifies Type of Number. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:CALLING:TYPE?]
Returns current value of TYPE.

PLANid *n*
[CSS:SPACH:CALLING:PLANid n]
Specifies Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[CSS:SPACH:CALLING:PLANid?]
Returns current value of PLANid.

ENCoding *n*
[CSS:SPACH:CALLING:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Address Encoding.

ENCoding?
[CSS:SPACH:CALLING:ENCoding?]
Returns current state of ENCoding.

ADDRess *"n"*
[CSS:SPACH:CALLING:ADDRess "n"]
Specifies Address. Range of *n* is 0 to 255.

Up to 254 instances of this field may be sent.

ADDRess?
[CSS:SPACH:CALLING:ADDRess?]
Returns current value of ADDRess.

CSS:SPACH:

CALLING:

SUBaddress:

Identifies the address of a calling party.

LENGth *n*
[CSS:SPACH:CALLING:SUBaddress:LENGth n]
Specifies Length of Subaddress Info content. Range of *n* is 0 to 255.

LENGth?
[CSS:SPACH:CALLING:SUBaddress:LENGth?]
Returns current value of LENGth.

ODD_EVEN *n*
[CSS:SPACH:CALLING:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Odd/Even Indicator.

ODD_EVEN?
[CSS:SPACH:CALLING:SUBaddress:ODD_EVEN?]
Returns current state of ODD_EVEN.

TYPE *n*
[CSS:SPACH:CALLING:SUBaddress:TYPE n]
Specifies Type of Subaddress. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:CALLING:SUBaddress:TYPE?]
Returns current value of TYPE.

REServed *n*
[CSS:SPACH:CALLING:SUBaddress:REServed n]
Specifies number of subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[CSS:SPACH:CALLING:SUBaddress:REServed?]
Returns number of subaddress Reserved fields.

ADDRess *n,m*
[CSS:SPACH:CALLING:SUBaddress:ADDRess n,m]
Specifies Calling Subaddress (*m*) indexed by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[CSS:SPACH:CALLING:SUBaddress:ADDRess? n]
Returns current value of Calling Subaddress indexed by *n*. Range of *n* is 0 to 19.

CSS:SPACH:

CALLING:

PRESentation:

Identifies the presentation restrictions and screening related to the Calling Party information element.

PI *n*
[CSS:SPACH:CALLING:PRESentation:PI n]
Specifies Calling Party Number Presentation Indicator. Range of *n* is 0 to 3.

PI?
[CSS:SPACH:CALLING:PRESentation:PI?]
Returns current value of PI.

SI *n*
[CSS:SPACH:CALLING:PRESentation:SI n]
Specifies Screening Indicator. Range of *n* is 0 to 3.

SI?
[CSS:SPACH:CALLING:PRESentation:SI?]
Returns current value of SI.

RN *n*
[CSS:SPACH:RN n]
Specifies Request Number. Range of *n* is 0 to 15.

Used in a Parameter Update message to allow the mobile station to recognize duplicate Parameter Update messages.

RN?
[CSS:SPACH:RN?]
Returns current value of RN.

RTRANSaction *n*
[CSS:SPACH:RTRANSaction n]
Specifies R-Transaction Identifier. Range of *n* is 0 to 255.

Used to associate a R-DATA ACCEPT or a R-DATA REJECT message to the R-DATA message being acknowledged.

RTRANSaction?
[CSS:SPACH:RTRANSaction?]
Returns current value of RTRANSaction.

CSS:SPACH:

RDATA:MESSage:LENGth?
[CSS:SPACH:RDATA:MESSage:LENGth?]
Returns the calculated length of the RDATA message according to the data elements selected by the user. Used to verify the data length is within the usable 255 bytes.

RDATA_UNIT:

Contains the Higher Layer Protocol Data Unit and is mandatory in an R-DATA message.

LENGth *n*
[CSS:SPACH:RDATA_UNIT:LENGth n]
Specifies Length Indicator. Range of *n* is 0 to 255.

LENGth?
[CSS:SPACH:RDATA_UNIT:LENGth?]
Returns current value of LENGth.

HLP:

IDentifier *n*
[CSS:SPACH:RDATA_UNIT:HLP:IDentifier n]
Specifies Higher Protocol Identifier. Range of *n* is 0 to 255.

IDentifier?
[CSS:SPACH:RDATA_UNIT:HLP:IDentifier?]
Returns current value of IDentifier.

DATA *n,m*
[CSS:SPACH:RDATA_UNIT:HLP:DATA n,m]
Specifies Higher Layer Protocol Data Unit (*m*) indexed by *n*. Range of *n* is 0 to 255; range of *m* is 0 to 255.

DATA? *n*
[CSS:SPACH:RDATA_UNIT:HLP:DATA? n]
Returns current value of DATA indexed by *n*. Range of *n* is 0 to 255.

CSS:SPACH:

MESSage:CENTer:

Identifies the Message Center Address for the message being sent.

TYPE *n*
[CSS:SPACH:MESSage:CENTer:TYPE n]
Specifies Type of Number. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:MESSage:CENTer:TYPE?]
Returns current value of TYPE.

PLANid *n*
[CSS:SPACH:MESSage:CENTer:PLANid n]
Specifies Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[CSS:SPACH:MESSage:CENTer:PLANid?]
Returns current value of PLANid.

ENCoding *n*
[CSS:SPACH:MESSage:CENTer:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Address Encoding.

ENCoding?
[CSS:SPACH:MESSage:CENTer:ENCoding?]
Returns current state of ENCoding.

ADDRess *"n"*
[CSS:SPACH:MESSage:CENTer:ADDRess "n"]
Specifies Address. Range of *n* is 0 to 255.

Up to 254 instances of this field may be sent.

ADDRess?
[CSS:SPACH:MESSage:CENTer:ADDRess?]
Returns current value of ADDRess.

CSS:SPACH:

USER:

DEST:

User Destination Address.

TYPE *n*
[CSS:SPACH:USER:DEST:TYPE n]
Specifies Type of Number. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:USER:DEST:TYPE?]
Returns current value of TYPE.

PLANid *n*
[CSS:SPACH:USER:DEST:PLANid n]
Specifies Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[CSS:SPACH:USER:DEST:PLANid?]
Returns current value of PLANid.

ENCoding *n*
[CSS:SPACH:USER:DEST:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Address Encoding.

ENCoding?
[CSS:SPACH:USER:DEST:ENCoding?]
Returns current state of ENCoding.

ADDRess *"n"*
[CSS:SPACH:USER:DEST:ADDRess "n"]
Specifies Address. Range of *n* is 0 to 255.

Up to 254 instances of this field may be sent.

ADDRess?
[CSS:SPACH:USER:DEST:ADDRess?]
Returns current value of ADDRess.

CSS:SPACH:

USER:

DEST:

SUBaddress:

Identifies the address of a called or calling party.

LENGth *n*
[CSS:SPACH:USER:DEST:SUBaddress:LENGth n]
Specifies Length of Subaddress Info content. Range of *n* is 0 to 255.

LENGth?
[CSS:SPACH:USER:DEST:SUBaddress:LENGth?]
Returns current value of LENGth.

ODD_EVEN *n*
[CSS:SPACH:USER:DEST:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Odd/Even Indicator.

ODD_EVEN?
[CSS:SPACH:USER:DEST:SUBaddress:ODD_EVEN?]
Returns current state of ODD_EVEN.

TYPE *n*
[CSS:SPACH:USER:DEST:SUBaddress:TYPE n]
Specifies Type of Subaddress. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:USER:DEST:SUBaddress:TYPE?]
Returns current value of TYPE.

REServed *n*
[CSS:SPACH:USER:DEST:SUBaddress:REServed n]
Specifies number of subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[CSS:SPACH:USER:DEST:SUBaddress:REServed?]
Returns number of subaddress Reserved fields.

ADDRess *n,m*
[CSS:SPACH:USER:DEST:SUBaddress:ADDRess n,m]
Specifies User Destination Subaddress (*m*) indexed by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[CSS:SPACH:USER:DEST:SUBaddress:ADDRess? n]
Returns current value of ADDRess indexed by *n*. Range of *n* is 0 to 19.

CSS:SPACH:

USER:

GROUP:

Identifies the User Group ID that a mobile station has requested or has been allocated.

STATus *n*
[CSS:SPACH:USER:GROUP:STATus n]
Specifies User Group Status. Range of *n* is 0 to 3.

STATUS?
[CSS:SPACH:USER:GROUP:STATUS?]
Returns current value of STATUS.

TYPE *n*
[CSS:SPACH:USER:GROUP:TYPE n]
Specifies User Group Type. Range of *n* is 0 to 3.

TYPE?
[CSS:SPACH:USER:GROUP:TYPE?]
Returns current value of TYPE.

ID:

MS *n*
[CSS:SPACH:USER:GROUP:ID:MS n]
Specifies the 18 Most Significant Bits of User Group Identification. Range of *n* is 0 to #h3FFFF.

MS?
[CSS:SPACH:USER:GROUP:ID:MS?]
Returns current value of MS.

LS *n*
[CSS:SPACH:USER:GROUP:ID:LS n]
Specifies 32 Least Significant Bits of User Group Identification. Range of *n* is 0 to #hFFFFFFFF.

LS?
[CSS:SPACH:USER:GROUP:ID:LS?]
Returns current value of LS.

CSS:SPACH:

USER:

ORIG:

TYPE *n*
[CSS:SPACH:USER:ORIG:TYPE n]
Specifies Type of Number. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:USER:ORIG:TYPE?]
Returns current value of TYPE.

PLANid *n*
[CSS:SPACH:USER:ORIG:PLANid n]
Specifies Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[CSS:SPACH:USER:ORIG:PLANid?]
Returns current value of PLANid.

ENCoding *n*
[CSS:SPACH:USER:ORIG:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Address Encoding.

ENCoding?
[CSS:SPACH:USER:ORIG:ENCoding?]
Returns current state of ENCoding.

ADDRess *"n"*
[CSS:SPACH:USER:ORIG:ADDRess "n"]
Specifies Address. Range of *n* is 0 to 255.

Up to 254 instances of this field may be sent.

ADDRess?
[CSS:SPACH:USER:ORIG:ADDRess?]
Returns current value of ADDRess.

CSS:SPACH:

USER:

ORIG:

SUBaddress:

Identifies the address of a called or calling party.

LENGth *n*
[CSS:SPACH:USER:ORIG:SUBaddress:LENGth n]
Specifies Length of Subaddress Info content. Range of *n* is 0 to 255.

LENGth?
[CSS:SPACH:USER:ORIG:SUBaddress:LENGth?]
Returns current value of LENGth.

ODD_EVEN *n*
[CSS:SPACH:USER:ORIG:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Odd/Even Indicator.

ODD_EVEN?
[CSS:SPACH:USER:ORIG:SUBaddress:ODD_EVEN?]
Returns current state of ODD_EVEN.

TYPE *n*
[CSS:SPACH:USER:ORIG:SUBaddress:TYPE n]
Specifies Type of Subaddress. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:USER:ORIG:SUBaddress:TYPE?]
Returns current value of TYPE.

REServed *n*
[CSS:SPACH:USER:ORIG:SUBaddress:REServed n]
Specifies number of subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[CSS:SPACH:USER:ORIG:SUBaddress:REServed?]
Returns number of subaddress Reserved fields.

ADDRess *n,m*
[CSS:SPACH:USER:ORIG:SUBaddress:ADDRess n,m]
Specifies User Origination Subaddress (*m*) indexed by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[CSS:SPACH:USER:ORIG:SUBaddress:ADDRess? n]
Returns current value of ADDRess indexed by *n*. Range of *n* is 0 to 19.

CSS:SPACH:

USER:

ORIG:

PRESentation:

Identifies the presentation restrictions and screening related to the User Originating information element.

PI *n*
[CSS:SPACH:USER:ORIG:PRESentation:PI n]
Specifies User Originating Address Presentation Indicator. Range of *n* is 0 to 3.

PI?
[CSS:SPACH:USER:ORIG:PRESentation:PI?]
Returns current value of the User Originating Address Presentation Indicator.

SI *n*
[CSS:SPACH:USER:ORIG:PRESentation:SI n]
Specifies User Originating Address Screening Indicator. Range of *n* is 0 to 3.

SI?
[CSS:SPACH:USER:ORIG:PRESentation:SI?]
Returns current value of the User Originating Address Screening Indicator.

PFC:

ASSIGNment *n*
[CSS:SPACH:PFC:ASSIGNment n]
Specifies PFC Assignment. Range of *n* is 0 to 3.

Identifies the Paging Frame Class that a mobile station may be assigned at registration.

ASSIGNment?
[CSS:SPACH:PFC:ASSIGNment?]
Returns current value of ASSIGNment.

CSS:SPACH:

RNUM:

Contains the registration number that is used to define a particular mobile station's VMLA (Virtual Mobile Location Area).

NUMBer *n* **-or- NUM** *n*
[CSS:SPACH:RNUM:NUMBer n]
Specifies Number of RNUMs. Range of *n* is 1 to 50.

NUMBer? -or- NUM?
[CSS:SPACH:RNUM:NUMBer?]
Returns current value of NUMBer.

LIST *n,m*
[CSS:SPACH:RNUM:LIST n,m]
Specifies RNUM List (*m*) indexed by *n*. Range of *n* is 0 to 49; range of *m* is 0 to 1023.

Up to 50 instances of this field may be sent.

LIST? *n*
[CSS:SPACH:RNUM:LIST? n]
Returns current value of LIST indexed by *n*. Range of *n* is 0 to 49.

MSID:

Mobile Station Identification Assignment - Contains information specifying the MSID the mobile station shall use.

IDT *n*
[CSS:SPACH:MSID:IDT n]
Specifies Identity Type. Range of *n* is 0 to 3.

IDT?
[CSS:SPACH:MSID:IDT?]
Returns current value of IDT.

ASSIGNment *n*
[CSS:SPACH:MSID:ASSIGNment n]
Specifies MSID Assignment. Range of *n* is 0 to #hFFFFFF.

ASSIGNment?
[CSS:SPACH:MSID:ASSIGNment?]
Returns current value of ASSIGNment.

CSS:SPACH:

PSID_RSID:

Private/Residential System Identification.

AVAILable:

PSID/RSID Available.

NUMBer *n* **-or- NUM** *n*
[CSS:SPACH:PSID_RSID:AVAILable:NUMBer n]
Specifies Number of PSID/RSID. Range of *n* is 0 to 15.

NUMBer? -or- NUM?
[CSS:SPACH:PSID_RSID:AVAILable:NUMBer?]
Returns current value of NUMBer.

TYPE *n,m*
[CSS:SPACH:PSID_RSID:AVAILable:TYPE n,m]
Enables (*m* = 1) or disables (*m* = 0) PSID/RSID Type Indicator indexed by *n*. Range of *n* is 0 to 15.

TYPE? *n*
[CSS:SPACH:PSID_RSID:AVAILable:TYPE? n]
Returns current state of TYPE indexed by *n*. Range of *n* is 0 to 15.

VALUE *n,m*
[CSS:SPACH:PSID_RSID:AVAILable:VALUE n,m]
Specifies PSID/RSID Value (*m*) indexed by *n*. Range of *n* is 0 to 15; range of *m* is 0 to #hFFFF.

VALUE? *n*
[CSS:SPACH:PSID_RSID:AVAILable:VALUE? n]
Returns current value of VALUE indexed by *n*. Range of *n* is 0 to 15.

MAP *n*
[CSS:SPACH:PSID_RSID:MAP n]
Specifies PSID/RSID Map. Range of *n* is 0 to #hFFFF.

This information is included in the Test Registration message to indicate which private/residential systems have been queried by the mobile station. This information is included in the Test Registration Response message to indicate the private/residential systems on which the mobile station may receive service. The ordering of the PSID/RSID Map reflects the ordering of the PSID/RSID Set sent on the system identity message.

MAP?
[CSS:SPACH:PSID_RSID:MAP?]
Returns current value of MAP.

CSS:SPACH:

DIRectory:

TYPE *n*
[CSS:SPACH:DIRectory:TYPE n]
Specifies Type of Number. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:DIRectory:TYPE?]
Returns current value of TYPE.

PLANid *n*
[CSS:SPACH:DIRectory:PLANid n]
Specifies Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[CSS:SPACH:DIRectory:PLANid?]
Returns current value of PLANid.

ENCoding *n*
[CSS:SPACH:DIRectory:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Address Encoding.

ENCoding?
[CSS:SPACH:DIRectory:ENCoding?]
Returns current state of ENCoding.

ADDRess *"n"*
[CSS:SPACH:DIRectory:ADDRess "n"]
Specifies Address. Range of *n* is 0 to 255.

Up to 254 instances of this field may be sent.

ADDRess?
[CSS:SPACH:DIRectory:ADDRess?]
Returns current value of ADDRess.

CSS:SPACH:

DIRectory:

SUBaddress:

Identifies the address of a called or calling party.

LENGth *n*
[CSS:SPACH:DIRectory:SUBaddress:LENGth n]
Specifies Length of Subaddress Info content. Range of *n* is 0 to 255.

LENGth?
[CSS:SPACH:DIRectory:SUBaddress:LENGth?]
Returns current value of LENGth.

ODD_EVEN *n*
[CSS:SPACH:DIRectory:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Odd/Even Indicator.

ODD_EVEN?
[CSS:SPACH:DIRectory:SUBaddress:ODD_EVEN?]
Returns current state of ODD_EVEN.

TYPE *n*
[CSS:SPACH:DIRectory:SUBaddress:TYPE n]
Specifies Type of Subaddress. Range of *n* is 0 to 7.

TYPE?
[CSS:SPACH:DIRectory:SUBaddress:TYPE?]
Returns current value of TYPE.

REServed *n*
[CSS:SPACH:DIRectory:SUBaddress:REServed n]
Specifies number of subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[CSS:SPACH:DIRectory:SUBaddress:REServed?]
Returns number of subaddress Reserved fields.

ADDRess *n,m*
[CSS:SPACH:DIRectory:SUBaddress:ADDRess n,m]
Specifies Directory Subaddress (*m*) indexed by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[CSS:SPACH:DIRectory:SUBaddress:ADDRess? n]
Returns current value of Directory Subaddress indexed by *n*. Range of *n* is 0 to 19.

CSS:SPACH:

REJect:

REGistration:

Registration Reject message.

CAUSE *n*
[CSS:SPACH:REJect:REGistration:CAUSE n]
Specifies Cause for Registration Reject. Range of *n* is 0 to 15.

CAUSE?
[CSS:SPACH:REJect:REGistration:CAUSE?]
Returns current value of CAUSE.

TIME:

Reject Time - Used by the system to indicate to a mobile station the interval of time when the mobile station is allowed to register, again.

LOWer *n*
[CSS:SPACH:REJect:REGistration:TIME:LOWer n]
Specifies Lower time boundary in 100 Superframe (SF). Range of *n* is 0 to 15.

LOWer?
[CSS:SPACH:REJect:REGistration:TIME:LOWer?]
Returns current value of LOWer.

UPPer *n*
[CSS:SPACH:REJect:REGistration:TIME:UPPer n]
Specifies Upper time boundary in 100 Superframe (SF). Range of *n* is 0 to 15.

UPPer?
[CSS:SPACH:REJect:REGistration:TIME:UPPer?]
Returns current value of UPPer.

RDATA:

CAUSE *n*
[CSS:SPACH:REJect:RDATA:CAUSE n]
Specifies Cause for R-DATA Reject. Range of *n* is 0 to 127.

CAUSE?
[CSS:SPACH:REJect:RDATA:CAUSE?]
Returns current value of CAUSE.

SPARE *n*
[CSS:SPACH:REJect:RDATA:SPARE n]
Specifies value of R-Cause Reserved field. Range of *n* is 1 or 0.

SPARE?
[CSS:SPACH:REJect:RDATA:SPARE?]
Returns current value of R-Cause Reserved field.

CSS:SPACH:

RDATA:

DELAY *n*
[CSS:SPACH:RDATA:DELAY n]
Specifies R-DATA DELAY. Range of *n* is 0 to 15.

DELAY?
[CSS:SPACH:RDATA:DELAY?]
Returns current value of R-DATA DELAY.

RELease:

Used when the BMI (Base Station, MSC and Interworking Function) clears a mobile station terminated call.

CAUSE *n*
[CSS:SPACH:RELease:CAUSE n]
Specifies Cause for Release. Range of *n* is 0 to 15.

CAUSE?
[CSS:SPACH:RELease:CAUSE?]
Returns current value of CAUSE.

REorder:

Used when the BMI (Base Station, MSC and Interworking Function) rejects an Origination or a R-DATA message sent by the mobile station.

CAUSE *n*
[CSS:SPACH:REorder:CAUSE n]
Specifies Cause for Reorder/Intercept. Range of *n* is 0 to 15.

CAUSE?
[CSS:SPACH:REorder:CAUSE?]
Returns current value of CAUSE.

TONE *n*
[CSS:SPACH:REorder:TONE n]
Specifies Tone Indicator. Range of *n* is 0 to 3.

Used to indicate the type of tone to be generated by the mobile station.

TONE?
[CSS:SPACH:REorder:TONE?]
Returns current value of TONE.

CSS:SPACH:

SOC *n*
[CSS:SPACH:SOC n]
Specifies System Operator Code. Range of *n* is 0 to 4095.

Identifies which operator is providing service. A reserved SOC value shall be considered an unknown system operator code by a receiving mobile station.

SOC?
[CSS:SPACH:SOC?]
Returns current value of SOC.

NOTification *n*
[CSS:SPACH:NOTification n]
Specifies SPACH Notification Type. Range of *n* is 0 to 63.

Contains the message type identifying the message that the BMI intends to deliver to the mobile station. The valid values for SPACH Notification Type shall be limited to the Message Type associated with Page, SSD Update and R-DATA.

NOTification?
[CSS:SPACH:NOTification?]
Returns current value of NOTification.

RANDSSD1 *n*
[CSS:SPACH:RANDSSD1 n]
Specifies Shared Secret Data. Range of *n* is 0 to #hFFFFFF.

Identifies a random number generated by the BMI that is used in the SSD (Shared Secret Data) Update procedure.

RANDSSD1?
[CSS:SPACH:RANDSSD1?]
Returns the value of RANDSSD1.

RANDSSD2 *n*
[CSS:SPACH:RANDSSD2 n]
Specifies Shared Secret Data. Range of *n* is 0 to #hFFFFFFFF.

Identifies a random number generated by the BMI that is used in the SSD (Shared Secret Data) Update procedure.

RANDSSD2?
[CSS:SPACH:RANDSSD2?]
Returns current value of RANDSSD2.

CSS:SPACH:

ALPHA:

SID *"n"*
[CSS:SPACH:ALPHA:SID "n"]
Specifies Alphanumeric System ID. *n* is a phone number, e.g., 316/522-4981.

The purpose of the Alphanumeric System ID information element is to supply an alphanumeric system ID to each user. The information contained in this information element is coded in IRA characters.

SID?
[CSS:SPACH:ALPHA:SID?]
Returns current value of SID.

PSID_RSID:

Alphanumeric PSID/RSID List - The purpose of this information element is to supply an Alphanumeric PSID/RSID to the user. The ordering of the Alphanumeric PSID/RSID list reflects the ordering of the PSID/RSID Set sent to the System Identity message. The information contained in this information element is coded in IRA characters.

NUMBer *n* **-or- NUM** *n*
[CSS:SPACH:ALPHA:PSID_RSID:NUMBer n]
Specifies Length of Alphanumeric PSID/RSID List. Range of *n* is 0 to 16.

NUMBer? -or- NUM?
[CSS:SPACH:ALPHA:PSID_RSID:NUMBer?]
Returns current value of LENGth.

NAME:

CHARacter *n,"m"*
[CSS:SPACH:ALPHA:PSID_RSID:NAME:CHARacter n,"m"]
Specifies Display Character (*m*) indexed by *n*. Range of *n* is 0 to 16; *m* is an ASCII string.

CHARacter? *n*
[CSS:SPACH:ALPHA:PSID_RSID:NAME:CHARacter? n]
Returns current value of CHARacter indexed by *n*. Range of *n* is 0 to 16.

RANDU *n*
[CSS:SPACH:RANDU n]
Specifies RANDU. Range of *n* is 0 to #hFFFFFF.

Identifies the random number generated by the BMI that is used in the Unique Challenge Response procedure.

RANDU?
[CSS:SPACH:RANDU?]
Returns current value of RANDU.

CSS:SPACH:

QUEue:

POSition *n*
[CSS:SPACH:QUEue:POSition n]
Specifies Queue Position. Range of *n* is 0 to 15.

POSition?
[CSS:SPACH:QUEue:POSition?]
Returns current value of Queue Position.

MACA:LIST:

NUMBer *n* **-or- NUM** *n*
[CSS:SPACH:MACA:LIST:NUMBer n]
Specifies Number of MACA Channels. Range of *n* is 0 to 15.

NUMBer? -or- NUM?
[CSS:SPACH:MACA:LIST:NUMBer?]
Returns current Number of MACA Channels.

CHAN *n,m*
[CSS:SPACH:MACA:LIST:CHAN n,m]
Specifies CHAN (*m*) of designated MACA Channel (*n*). Range of *n* is 0 to 15; range of *m* is 1 to 2047.

CHAN? *n*
[CSS:SPACH:MACA:LIST:CHAN? n]
Returns CHAN for designated MACA Channel (*n*). Range of *n* is 0 to 15.

OTHER:

HYPERband *n*
[CSS:SPACH:MACA:LIST:OTHER:HYPERband n]
Specifies Hyperband for MACA_LIST (Other Hyperband). Range of *n* is 0 to 3.

HYPERband?
[CSS:SPACH:MACA:LIST:OTHER:HYPERband?]
Returns current value of Hyperband for MACA_LIST (Other Hyperband).

NUMBer *n* **-or- NUM** *n*
[CSS:SPACH:MACA:LIST:OTHER:NUMBer n]
Specifies Number of MACA Channel for MACA_LIST (Other Hyperband). Range of *n* is 0 to 15.

NUMBer? -or- NUM?
[CSS:SPACH:MACA:LIST:OTHER:NUMBer?]
Returns current Number of MACA Channel for MACA_LIST (Other Hyperband).

CSS:SPACH:

MACA:LIST:

OTHER:

CHAN *n,m*
[CSS:SPACH:MACA:LIST:OTHER:CHAN n,m]
Specifies CHAN (*m*) of designated MACA Channel (*n*) for MACA_LIST (Other Hyperband). Range of *n* is 0 to 15; range of m is 1 to 2047.

CHAN? *n*
[CSS:SPACH:MACA:LIST:OTHER:CHAN? n]
Returns current value of CHAN of designated MACA Channel (*n*) for MACA_LIST (Other Hyperband). Range of *n* is 0 to 15.

ENABLE:

The following commands enable optional message types.

SUBaddress *n*
[CSS:SPACH:ENABLE:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) Subaddress optional message.

SUBaddress?
[CSS:SPACH:ENABLE:SUBaddress?]
Returns current state of Subaddress optional message.

DTX *n*
[CSS:SPACH:ENABLE:DTX n]
Enables (*n* = 1) or disables (*n* = 0) DTX Support optional message.

DTX?
[CSS:SPACH:ENABLE:DTX?]
Returns current state of DTX Support optional message.

DISPlay *n*
[CSS:SPACH:ENABLE:DISPlay n]
Enables (*n* = 1) or disables (*n* = 0) Display optional message.

DISPlay?
[CSS:SPACH:ENABLE:DISPlay?]
Returns current state of Display optional message.

CSS:SPACH:

ENABLE:

MODE:

VOICE *n*
[CSS:SPACH:ENABLE:MODE:VOICE n]
Enables (*n* = 1) or disables (*n* = 0) Voice Mode optional message.

VOICE?
[CSS:SPACH:ENABLE:MODE:VOICE?]
Returns current state of Voice Mode optional message.

MEM *n*
[CSS:SPACH:ENABLE:MODE:MEM n]
Enables (*n* = 1) or disables (*n* = 0) Message Encryption Mode optional message.

MEM?
[CSS:SPACH:ENABLE:MODE:MEM?]
Returns current state of Message Encryption Mode optional message.

HYPERband:

INFO *n*
[CSS:SPACH:ENABLE:HYPERband:INFO n]
Enables (*n* = 1) or disables (*n* = 0) Hyperband Info optional message.

INFO?
[CSS:SPACH:ENABLE:HYPERband:INFO?]
Returns current state of Hyperband Info optional message.

RCF_AUTH *n*
[CSS:SPACH:ENABLE:RCF_AUTH n]
Enables (*n* = 1) or disables (*n* = 0) RCF and AUTH optional message.

RCF_AUTH?
[CSS:SPACH:ENABLE:RCF_AUTH?]
Returns current state of RCF and AUTH optional message.

RETRY:

CHANnel *n*
[CSS:SPACH:ENABLE:RETRY:CHANnel n]
Enables (*n* = 1) or disables (*n* = 0) Retry Channel optional message.

CHANnel?
[CSS:SPACH:ENABLE:RETRY:CHANnel?]
Returns current state of Retry Channel optional message.

SIGnal *n*
[CSS:SPACH:ENABLE:SIGnal n]
Enables (*n* = 1) or disables (*n* = 0) Signal optional message.

SIGnal?
[CSS:SPACH:ENABLE:SIGnal?]
Returns current state of Signal optional message.

CSS:SPACH:

ENABLE:

CALLED:

ADDRess *n*
[CSS:SPACH:ENABLE:CALLED:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) Called Party optional message.

ADDRess?
[CSS:SPACH:ENABLE:CALLED:ADDRess?]
Returns current state of Called Party optional message.

SUBaddress *n*
[CSS:SPACH:ENABLE:CALLED:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) Called Party Subaddress optional message.

SUBaddress?
[CSS:SPACH:ENABLE:CALLED:SUBaddress?]
Returns current state of Called Party Subaddress optional message.

CALLING:

ADDRess *n*
[CSS:SPACH:ENABLE:CALLING:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) Calling Party Number optional message.

ADDRess?
[CSS:SPACH:ENABLE:CALLING:ADDRess?]
Returns current state of Calling Party Number optional message.

SUBaddress *n*
[CSS:SPACH:ENABLE:CALLING:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) Calling Party Subaddress optional message.

SUBaddress?
[CSS:SPACH:ENABLE:CALLING:SUBaddress?]
Returns current state of Calling Party Subaddress optional message.

CSS:SPACH:

ENABLE:

CALLING:

PRESentation *n*
[CSS:SPACH:ENABLE:CALLING:PRESentation n]
Enables (*n* = 1) or disables (*n* = 0) Calling Party Number Presentation Indicator optional message.

PRESentation?
[CSS:SPACH:ENABLE:CALLING:PRESentation?]
Returns current state of Calling Party Number Presentation Indicator optional message.

MESSage:CENTer:

ADDRess *n*
[CSS:SPACH:ENABLE:MESSage:CENTer:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) Message Center Address optional message.

ADDRess?
[CSS:SPACH:ENABLE:MESSage:CENTer:ADDRess?]
Returns current state of Message Center Address optional message.

USER:

DEST:

ADDRess *n*
[CSS:SPACH:ENABLE:USER:DEST:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) User Destination Address optional message.

ADDRess?
[CSS:SPACH:ENABLE:USER:DEST:ADDRess?]
Returns current state of User Destination Address optional message.

SUBaddress *n*
[CSS:SPACH:ENABLE:USER:DEST:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) User Destination Subaddress optional message.

SUBaddress?
[CSS:SPACH:ENABLE:USER:DEST:SUBaddress?]
Returns current state of User Destination Subaddress optional message.

CSS:SPACH:

ENABLE:

USER:

ORIG:

ADDRess *n*
[CSS:SPACH:ENABLE:USER:ORIG:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Address optional message.

ADDRess?
[CSS:SPACH:ENABLE:USER:ORIG:ADDRess?]
Returns current state of User Originating Address optional message.

SUBaddress *n*
[CSS:SPACH:ENABLE:USER:ORIG:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Subaddress optional message.

SUBaddress?
[CSS:SPACH:ENABLE:USER:ORIG:SUBaddress?]
Returns current state of User Originating Subaddress optional message.

PRESentation *n*
[CSS:SPACH:ENABLE:USER:ORIG:PRESentation n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Address Presentation Indicator optional message.

PRESentation?
[CSS:SPACH:ENABLE:USER:ORIG:PRESentation?]
Returns current state of User Originating Address Presentation Indicator optional message.

GROUP *n*
[CSS:SPACH:ENABLE:USER:GROUP n]
Enables (*n* = 1) or disables (*n* = 0) User Group optional message.

GROUP?
[CSS:SPACH:ENABLE:USER:GROUP?]
Returns current state of User Group optional message.

RDATA:

DELAY *n*
[CSS:SPACH:ENABLE:RDATA:DELAY n]
Enables (*n* = 1) or disables (*n* = 0) R-DATA Delay optional message.

DELAY?
[CSS:SPACH:ENABLE:RDATA:DELAY?]
Returns current state of R-DATA Delay optional message.

CSS:SPACH:

ENABLE:

PFC:

Paging Frame Class.

ASSIGNment *n*
[CSS:SPACH:ENABLE:PFC:ASSIGNment n]
Enables (*n* = 1) or disables (*n* = 0) PFC Assignment optional message.

ASSIGNment?
[CSS:SPACH:ENABLE:PFC:ASSIGNment?]
Returns current state of PFC Assignment optional message.

RNUM:

Registration Number.

LIST *n*
[CSS:SPACH:ENABLE:RNUM:LIST n]
Enables (*n* = 1) or disables (*n* = 0) RNUM List optional message.

LIST?
[CSS:SPACH:ENABLE:RNUM:LIST?]
Returns current state of RNUM List optional message.

MSID:

Mobile Station Identification.

ASSIGNment *n*
[CSS:SPACH:ENABLE:MSID:ASSIGNment n]
Enables (*n* = 1) or disables (*n* = 0) MSID Assignment optional message.

ASSIGNment?
[CSS:SPACH:ENABLE:MSID:ASSIGNment?]
Returns current state of MSID Assignment optional message.

PSID_RSID:

Private/Residential System Identification.

AVAILable *n*
[CSS:SPACH:ENABLE:PSID_RSID:AVAILable n]
Enables (*n* = 1) or disables (*n* = 0) PSID/RSID Available optional message.

AVAILable?
[CSS:SPACH:ENABLE:PSID_RSID:AVAILable?]
Returns current state of PSID/RSID Available optional message.

CSS:SPACH:

ENABLE:

DIRectory:

ADDRess *n*
[CSS:SPACH:ENABLE:DIRectory:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) Directory Address optional message.

ADDRess?
[CSS:SPACH:ENABLE:DIRectory:ADDRess?]
Returns current state of Directory Address optional message.

SUBaddress *n*
[CSS:SPACH:ENABLE:DIRectory:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) Directory Subaddress optional message.

SUBaddress?
[CSS:SPACH:ENABLE:DIRectory:SUBaddress?]
Returns current state of Directory Subaddress optional message.

REJect:

TIME *n*
[CSS:SPACH:ENABLE:REJect:TIME n]
Enables (*n* = 1) or disables (*n* = 0) Reject Time optional message.

TIME?
[CSS:SPACH:ENABLE:REJect:TIME?]
Returns current state of Reject Time optional message.

ALPHA:

SID *n*
[CSS:SPACH:ENABLE:ALPHA:SID n]
Enables (*n* = 1) or disables (*n* = 0) Alphanumeric System ID optional message.

SID?
[CSS:SPACH:ENABLE:ALPHA:SID?]
Returns current state of Alphanumeric System ID optional message.

PSID_RSID *n*
[CSS:SPACH:ENABLE:ALPHA:PSID_RSID n]
Enables (*n* = 1) or disables (*n* = 0) Alphanumeric PSID/RSID List optional message.

PSID_RSID?
[CSS:SPACH:ENABLE:ALPHA:PSID_RSID?]
Returns current state of Alphanumeric PSID/RSID List optional message.

CSS:SPACH:

ENABLE:

QUEue:

POSition *n*
[CSS:SPACH:ENABLE:QUEue:POSition n]
Enables (*n* = 1) or disables (*n* = 0) Queue Position optional message.

POSition?
[CSS:SPACH:ENABLE:QUEue:POSition?]
Returns current state of Queue Position optional message.

MACA:

LIST *n*
[CSS:SPACH:ENABLE:MACA:LIST n]
Enables (*n* = 1) or disables (*n* = 0) MACA_LIST optional message.

LIST?
[CSS:SPACH:ENABLE:MACA:LIST?]
Returns current state of MACA_LIST optional message.

LIST:

OTHER *n*
[CSS:SPACH:ENABLE:MACA:LIST:OTHER n]
Enables (*n* = 1) or disables (*n* = 0) MACA_LIST (Other Hyperband) optional message.

OTHER?
[CSS:SPACH:ENABLE:MACA:LIST:OTHER?]
Returns current state of MACA_LIST (Other Hyperband) optional message.

9-13 DCCH MOBILE STATION SIMULATION COMMANDS

This section contains the TMAC commands necessary to simulate the transmit portion of a mobile station operating on the Digital Control Channel (DCCH). These commands are to be used, primarily, as "tools" in applications.

The Sp Tst must be receiving data that contains valid sync words on the Forward Digital Control Channel (FDCCH) before it can transmit on the Reverse Digital Control Channel (RDCCH). The RDCCH transmitter waits for a sync word, in the slot to which it is assigned, before transmitting.

9-13-1 TDMA TRANSMISSION OVERVIEW

The type of TDMA Transmission (as discussed in each subsection of Section 9-13) is determined by three different factors figured in the setup:

- Length
- Mode
- Selection of type of data for data field

The Length can be Normal or Abbreviated. In a Normal length message, the User Data block is 101 bits long, while in an Abbreviated length message, the User Data block is only 79 bits long. In both cases the TDMA slot length is the same (324 bits); however, in the Abbreviated Length Message, extra Ramp Time bits and Guard Time bits are added that make up the difference. See Figure 9-4 for an illustration of a Normal Length Message. See Figure 9-5 for an illustration of an Abbreviated Length Message.

The Mode can be Contiguous or Sub Channel. In a Contiguous transmission mode, the Sp Tst transmits at a Full-Rate TDMA in the slot determined by the **MSS:SLOT *n*** command discussed in 9-13-2. In a Sub Channel transmission mode, the Sp Tst transmits in a Sub Channel slot. See Figure 9-6 for an illustration of a Contiguous transmission and a Sub Channel transmission.

The data field can consist of either random data or user-defined data.

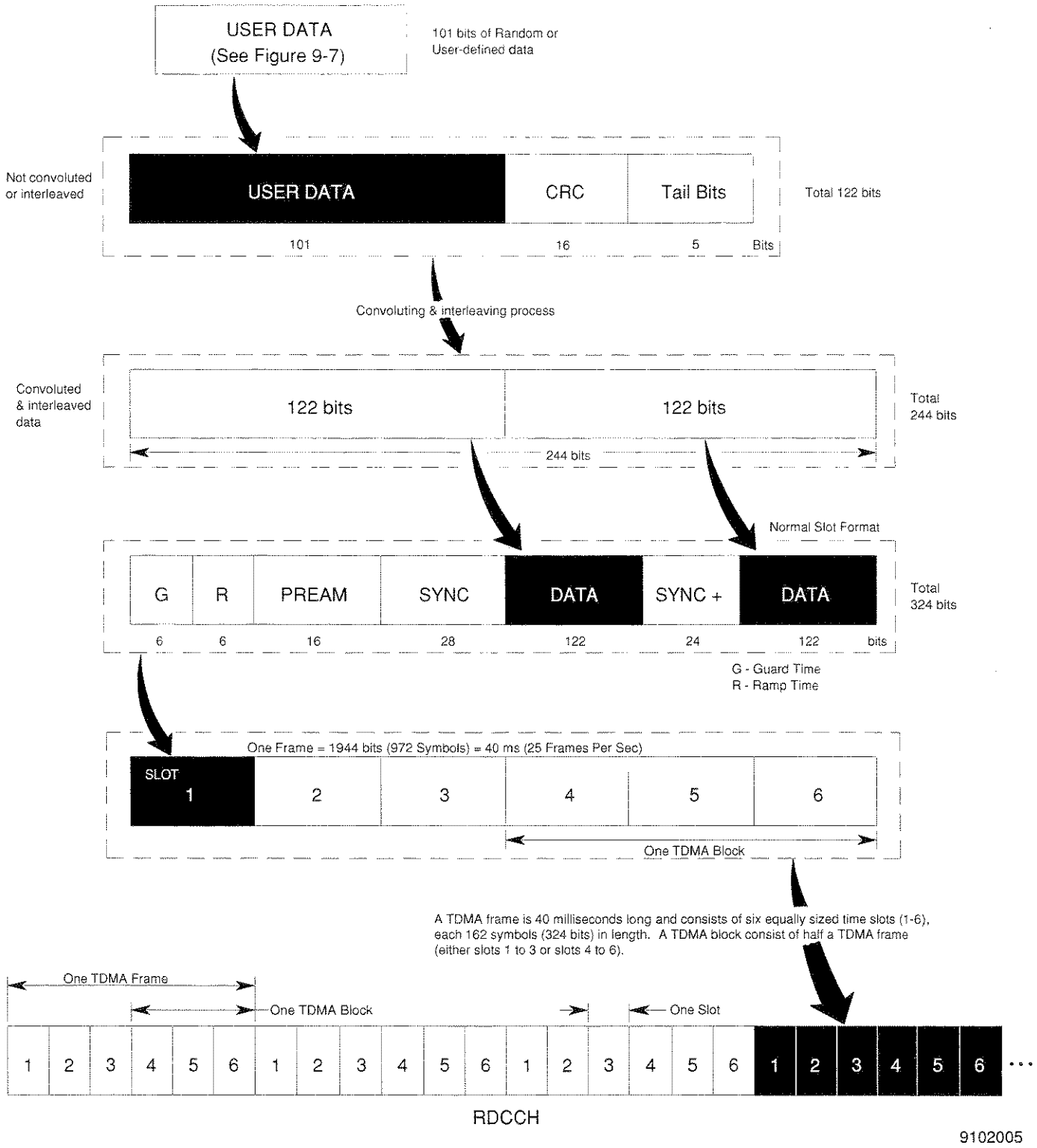

Figure 9-4 Normal Length Message in the RDCCH

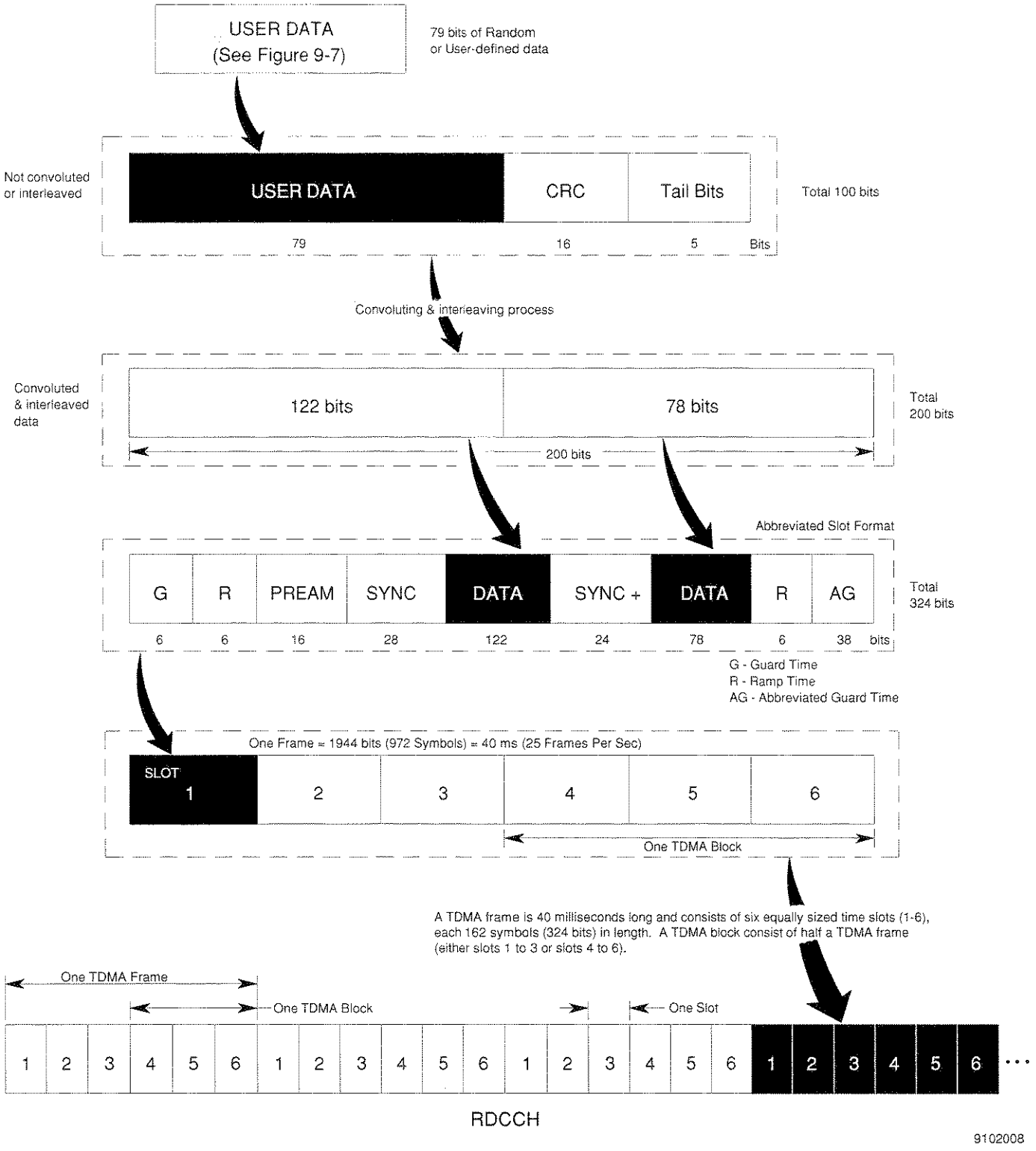

Figure 9-5 Abbreviated Length Message in the RDCCH

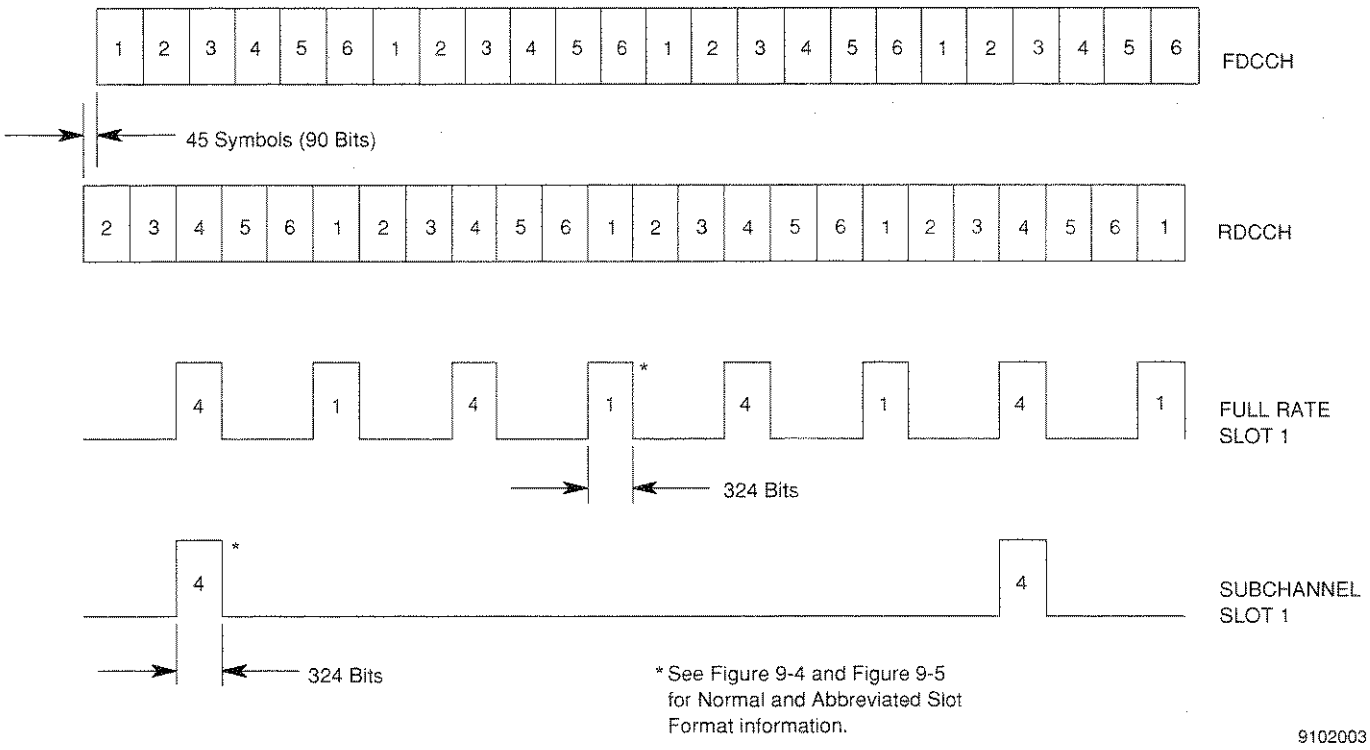

Figure 9-6 Contiguous and Sub Channel Transmissions

9-13-2 SETUP COMMANDS

To set up the Sp Tst for Mobile Station Simulation (MSS), use the following TMAC commands:

- **MSS:SETup**
- **MSS:CHANnel** *n*
- **MSS:RFLVL** *n*
- **MSS:SLOT** *n*

} These two are to be used first in setting up an application

MSS:

SETup
[MSS:SETup]
Configures the Sp Tst to simulate a Mobile Station. The HOST is forced into Duplex Mode through selection of Duplex screen.

CONFigure:

USER
[MSS:CONFigure:USER]
This command is identical to the **MSS:SETup** command except that the USER screen is selected.

NONE
[MSS:CONFigure:NONE]
This command is identical to the **MSS:SETup** command except that the Test Set remains in the screen currently displayed.

CHANnel *n*
[MSS:CHANnel n]
Selects Reverse Channel on which to transmit.

FREQuency:BAND (See 9-3)	**RANGE OF** *n*
0	1 to 333
1	1 to 1023
2	1 to 1999

When setting up the channel, the Duplex Operation screen frequencies do not change. In addition, if the Duplex Operation is in Channel Mode and the screen is reselected (using the Front Panel of the HOST), then the HOST Channel Mode overrides these channel settings.

CHANnel?
[MSS:CHANnel?]
Returns current mobile simulation channel.

MSS:

RATE *n*
[MSS:RATE n]
Selects TDMA transmission rate: full (*n* = 0) or half (*n* = 1).

RATE?
[MSS:RATE?]
Returns current state of TDMA transmission RATE.

RFLVL *n*
[MSS:RFLVL n]
Specifies RF output level in dBm at which to transmit. Range of *n* is -127.0 to -20.0.

SLOT *n*
[MSS:SLOT n]
Specifies DCCH full rate pair or half rate Slot in which to transmit. Range of *n* is 1 to 3 (full) or 1 to 6 (half).

SLOT?
[MSS:SLOT?]
Returns current value of DCCH slot selection.

9-13-3 RDCCH RAW GENERATOR

The following commands direct the RDCCH Raw Generator to transmit data on the RDCCH synchronous to the FDCCH. The RDCCH Raw Generator transmits user data in the following methods as specified by the **MSS:RDCCH:DVCC**, **MSS:RDCCH:LENGth**, **MSS:RDCCH:MODE** and **MSS:RDCCH:SELect** commands:

1. Full-Rate TDMA Channel as Normal or Abbreviated transmission bursts
   - Random Data
   - User-Defined Data
2. Within a Random Access Channel (RACH) Sub-Channel as Normal or Abbreviated transmission bursts
   - Random Data
   - User-Defined Data

The setup commands specified in section 9-13-2 are critical and must be taken into consideration when using this function.

The preamble, sync words, and sync+ as specified in IS-136 as well as the Cyclic Redundancy Check (CRC), convolutional encoding and interleaving are performed by the Sp Tst.

The data in the DATA field is set up by the user as user-defined pattern or random data.

Use the following commands to specify the Length and Mode of the Reverse Digital Control Channel:

MSS:RDCCH:

LENGth:

ABBREViated
[MSS:RDCCH:LENGth:ABBREViated]
Selects Abbreviated length transmission bursts on RDCCH.

NORMal
[MSS:RDCCH:LENGth:NORMal]
Selects Normal length transmission bursts on RDCCH.

MODE:

CONTiguous
[MSS:RDCCH:MODE:CONTiguous]
Selects transmission in Full-Rate TDMA Channel.

SUBCHANnel
[MSS:RDCCH:MODE:SUBCHANnel]
Selects transmission in RACH Sub Channel.

MSS:RDCCH:

SELect:

RANDom
[MSS:RDCCH:SELect:RANDom]
Selects Random Data for DATA Field in transmission bursts on RDCCH.

USER
[MSS:RDCCH:SELect:USER]
Selects a user-defined data pattern for DATA Field (See **MSS:RDCCH:USER**) in transmission bursts on RDCCH.

DVCC *n*
[MSS:RDCCH:DVCC n]
Specifies Digital Verification Color Code. Range of *n* is 1 to 255.

DVCC is required to calculate the correct CRC.

DVCC?
[MSS:RDCCH:DVCC?]
Returns current value of Digital Verification Color Code.

TA *n*
[MSS:RDCCH:TA n]
Specifies time alignment adjustment from Standard Offset Reference (SOR) in half symbols. Range of *n* is -10 to 60. *n* = 0 specifies no time alignment adjustment.

TA?
[MSS:RDCCH:TA?]
Returns current value of time alignment adjustment from Standard Offset Reference (SOR) in half symbols.

If the data selected is USER, then the data is specified by the following command:

MSS:RDCCH:

USER *n,word*
[MSS:RDCCH:USER n,word]
Specifies each 16 bit word indexed by *n*. Range of *n* is 0 to 6; range of *word* is 0 to #hFFFF.

USER data consists of 7 words (Normal Length) or 5 words (Abbreviated Length). Each word (*n*) consists of 16 bits. *n* = 0 selects the most significant word; *n* = 6 selects the least significant word. The first bit of *word* is the most significant bit, the last bit of *word* is the least significant bit (left justified).

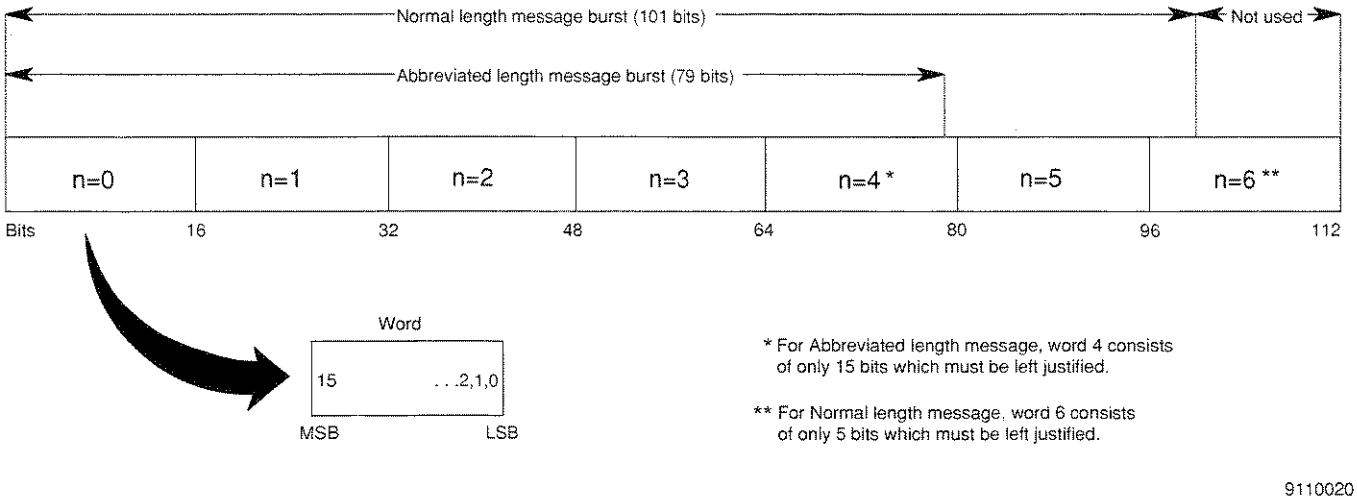

Figure 9-7 User Data Message Diagram

Data left justified is defined as bits aligned such that the most significant bit occurs first, followed by successively less significant bits.

Use the following commands to Start and Stop the data:

STARt
[MSS:RDCCH:STARt]
Starts transmission in RDCCH.

STOP
[MSS:RDCCH:STOP]
Stops transmission in RDCCH.

9-13-4 RANDOM ACCESS CONTROL CHANNEL (RACH) MESSAGE GENERATOR

To simulate a mobile access on the DCCH, the following commands direct the RACH Message Generator to transmit a fixed length, user-defined message as Normal or Abbreviated transmission bursts in a Full-Rate TDMA Channel or within a RACH Sub-channel on the RDCCH synchronous to the FDCCH (See Figure 9-9 and Figure 9-10).

The **MSS:RDCCH:MODE**, **MSS:RDCCH:DVCC**, **MSS:RDCCH:LENGth** and **MSS:RDCCH:MESSage:LENGth** commands are used to specify the type of transmission.

The setup commands specified in Section 9-13-2 are critical and must be taken into consideration when using this function.

MSS:RDCCH:

MESSage:

LENGth *n*
[MSS:RDCCH:MESSage:LENGth n]
Specifies the length (number of transmission bursts) of RDCCH message. Range of *n* is 1 to 320.

LENGth?
[MSS:RDCCH:MESSage:LENGth?]
Returns current RDCCH message length.

SFP *n*
[MSS:RDCCH:MESSage:SFP n]
Selects the Superframe Phase reference for transmission of user-defined message (See **MSS:RDCCH:MESSage:DATA**). Range of *n* is 0 to 31.

The first transmission burst of the RACH message is transmitted synchronous to the slot of the Superframe contained in the Superframe Phase selected by this command.

SFP?
[MSS:RDCCH:MESSage:SFP?]
Returns current Superframe Phase reference.

MSS:RDCCH:

MESSage:

DATA *m,n,word*
[MSS:RDCCH:MESSage:DATA m,n,word]
Specifies a 16 bit data word (indexed by *n*) in selected transmission burst (*m*). The range of *m* is 0 to 319; range of *n* is 0 to 6; range of *word* is 0 to #hFFFF.

USER data consists of 1 to 320 transmission bursts. Each burst consists of 7 words (Normal Length) or 5 words (Abbreviated Length). *n* = 0 selects the most significant word; *n* = 6 selects the least significant word. The first bit of *word* is the most significant bit, the last bit of *word* is the least significant bit.

The **MSS:RDCCH:MESSage:DATA** and the **MSS:RDCCH:MESSage:LENGth** commands need to be used to fully define a RACH message.

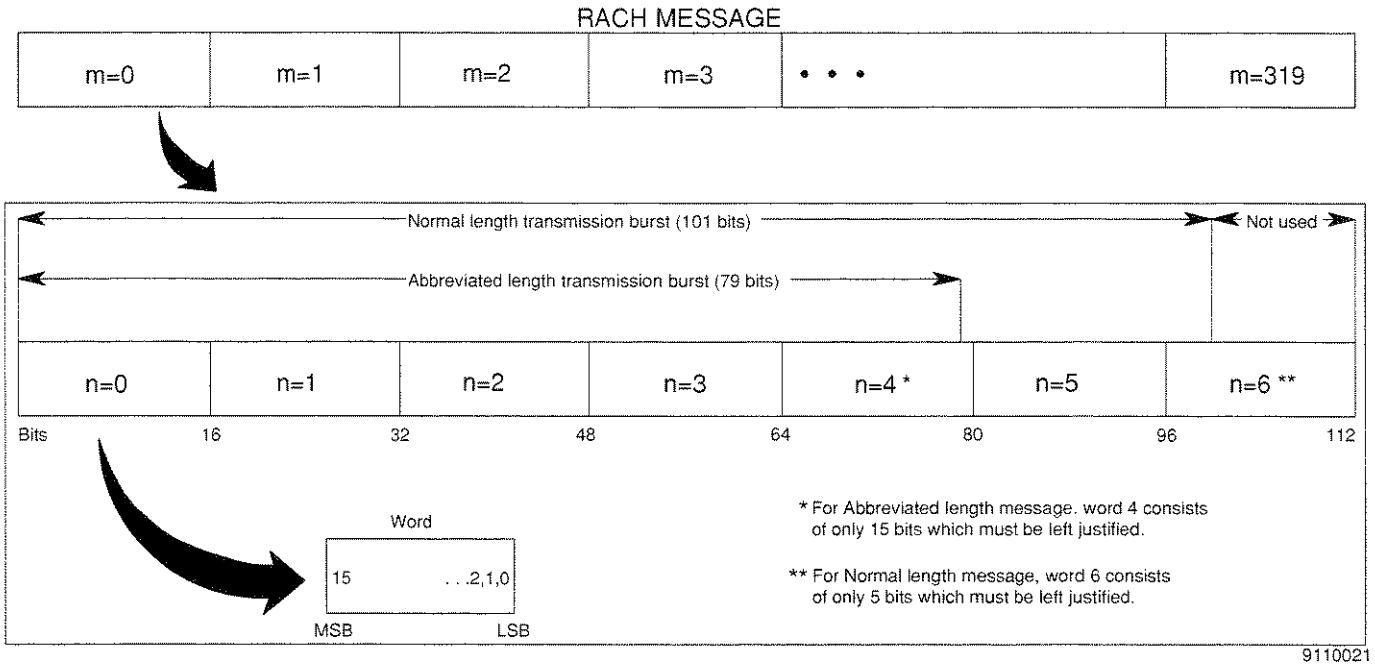

Figure 9-8 RDCCH Message Diagram

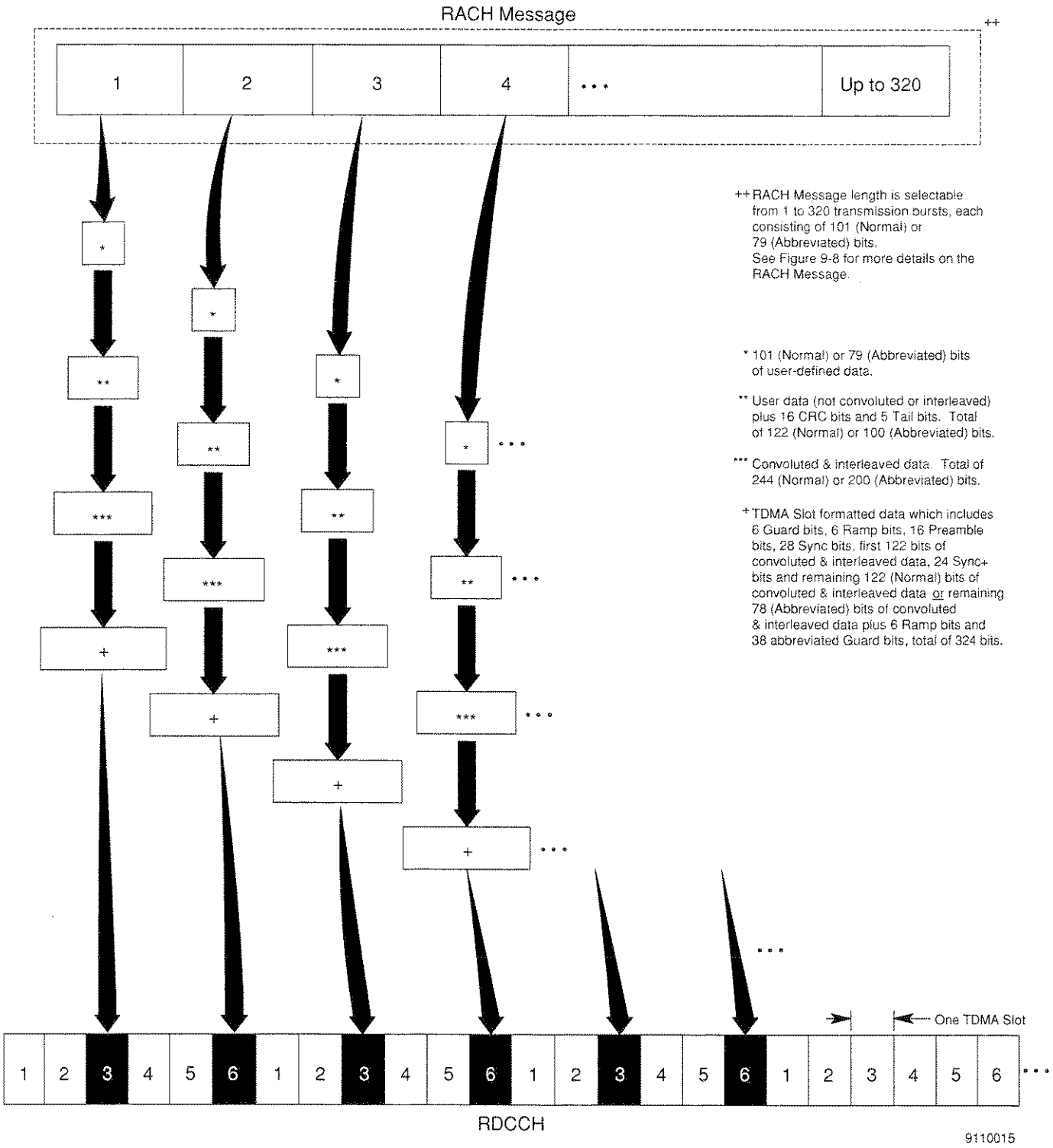

Figure 9-9 RACH Message Transmission (Contiguous)

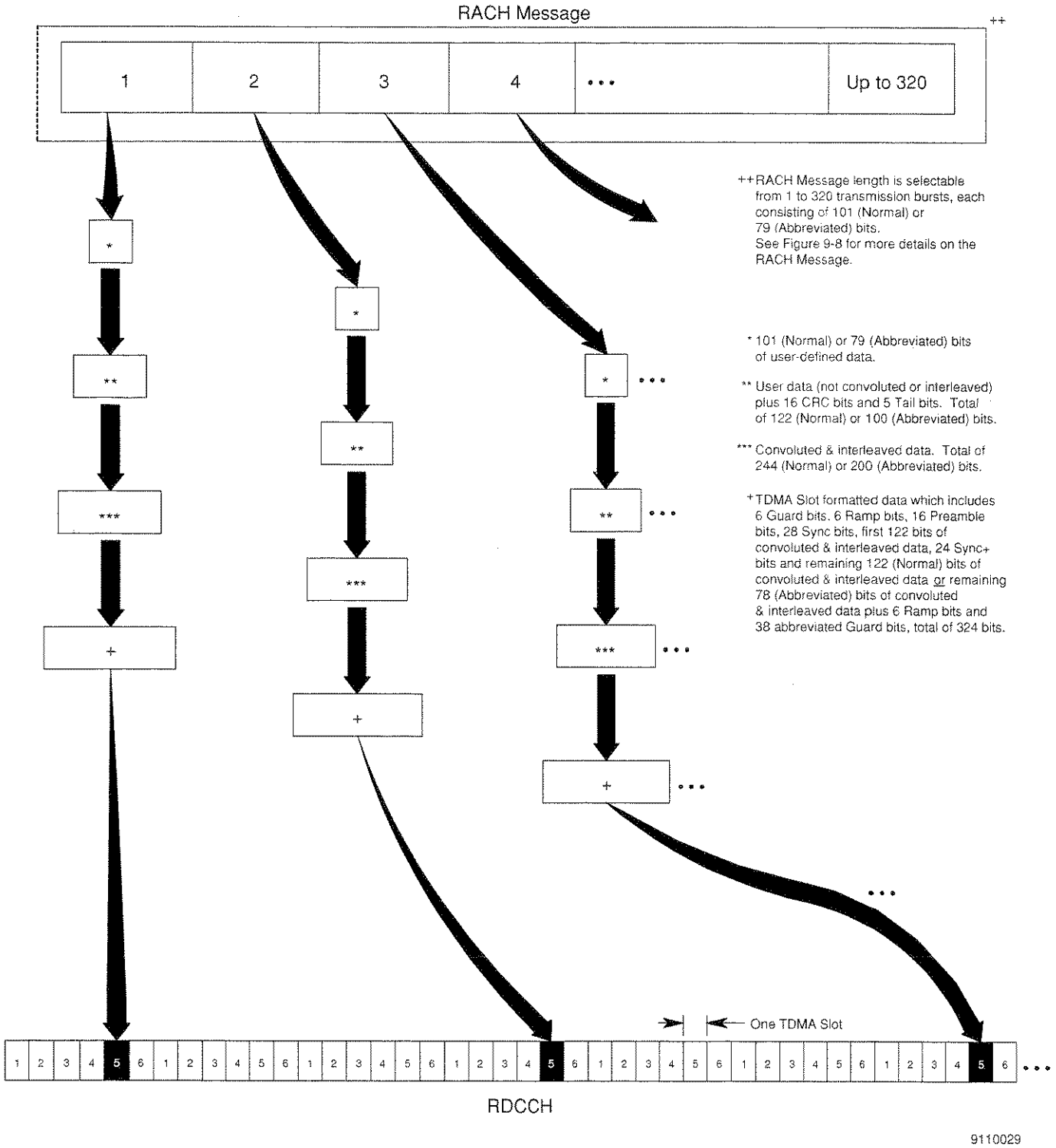

Figure 9-10 RACH Message Transmission (Sub Channel)

MSS:RDCCH:

MESSage:

ACCESS:

TYPE:

SFP
[MSS:RDCCH:MESSage:ACCESS:TYPE:SFP]
Selects Superframe Phase synchronization.

NONE
[MSS:RDCCH:MESSage:ACCESS:TYPE:NONE]
Selects no synchronization.

TYPE?
[MSS:RDCCH:MESSage:ACCESS:TYPE?]
Returns current value of Type of Access.

SEND
[MSS:RDCCH:MESSage:SEND]
Sends RACH message once (Repeat is disabled) or repeatedly (Repeat is enabled).

See **MSS:RDCCH:MESSage:REPeat** and **MSS:RDCCH:TA**.

STOP
[MSS:RDCCH:MESSage:STOP]
Stops sending RACH message.

Applicable only when Repeat is turned on (See **MSS:RDCCH:MESSage:REPeat:ON**).

MSS:RDCCH:

MESSage:

REPeat:

ON
[MSS:RDCCH:MESSage:REPeat:ON]
Sends RACH message at Repeat Rate after initial transmission.

Each repeat of the RACH message is synchronized to the selected Superframe Phase (SFP). See **MSS:RDCCH:MESSage:SFP** command.

OFF
[MSS:RDCCH:MESSage:REPeat:OFF]
Sends RACH message once after initial transmission.

SYNC *n*
[MSS:RDCCH:MESSage:REPeat:SYNC n]
Enables (*n* = 1) or disables (*n* = 0) Repeat Synchronizing.

If repeat synchronizing is enabled, then each repeat of the RACH message is synchronized to the designated superframe phase (SFP).

SYNC?
[MSS:RDCCH:MESSage:REPeat:SYNC?]
Returns current state of Repeat Synchronizing.

CORRUPT *n*
[MSS:RDCCH:MESSage:CORRUPT n]
Selects the frame of the RACH message to corrupt. Range of *n* is 0 to 320.

If 0 is selected, then none of the frames of the message are corrupted.

CORRUPT?
[MSS:RDCCH:MESSage:CORRUPT?]
Returns current corrupted frame.

9-13-5 RACH LAYER 3 MESSAGE BUILDER

The messages that are sent by the RACH Message Generator can be created with the RACH Layer 3 message builder. The process of building a RACH message can be broken down into five steps.

- Setup the Layer 2 data fields that cannot be determined from the layer 3 messages being sent.
- Select the Message Types that are to be included in the Layer 3 message (1 to 8).
- Set up the Elements that make up the specified messages.
- Enable or disable the optional fields.
- Build the RACH message.

A. LAYER 2 DATA FIELDS

Some of the Layer 2 data fields are determined by the Layer 3 message being sent. The remaining Layer 2 data fields are set up by the following commands.

MSS:RDCCH:

LAYER2:

IDT *n*
[MSS:RDCCH:LAYER2:IDT n]
Specifies Identity Type. Range of *n* is 0 to 3.

IDT?
[MSS:RDCCH:LAYER2:IDT?]
Returns current value of Identity Type.

EHI *n*
[MSS:RDCCH:LAYER2:EHI n]
Enables (*n* = 1) or disables (*n* = 0) Extended Header Information.

EHI?
[MSS:RDCCH:LAYER2:EHI?]
Returns current state of Extended Header Information.

MEA *n*
[MSS:RDCCH:LAYER2:MEA n]
Specifies Message Encryption Algorithm. Range of *n* is 0 to 3.

MEA?
[MSS:RDCCH:LAYER2:MEA?]
Returns current value of Message Encryption Algorithm.

MEK *n*
[MSS:RDCCH:LAYER2:MEK n]
Specifies Message Encryption Key. Range of *n* is 0 to 3.

MEK?
[MSS:RDCCH:LAYER2:MEK?]
Returns current value of Message Encryption Key.

MSS:RDCCH:

LAYER2:

MSID:

MS *n*
[MSS:RDCCH:LAYER2:MSID:MS n]
Specifies the 18 Most Significant Bits of Mobile Station Identification. Range of *n* is 0 to #h3FFFF.

MS?
[MSS:RDCCH:LAYER2:MSID:MS?]
Returns the 18 Most Significant Bits of Mobile Station Identification.

LS *n*
[MSS:RDCCH:LAYER2:MSID:LS n]
Sets the 32 Least Significant Bits of Mobile Station Identification. Range of *n* is 0 to #hFFFFFFFF.

LS?
[MSS:RDCCH:LAYER2:MSID:LS?]
Returns the 32 Least Significant Bits of Mobile Station Identification.

MIN *"n"*
[MSS:RDCCH:LAYER2:MIN "n"]
Specifies Mobile Identification Number. *n* is an ASCII string e.g. "316/522-4981".

This MIN is used to set up the MSID field when the Identity Type (IDT) is equal to 2.

This is for the convenience of the user since the MIN of the phone, and not the MSID, is usually known.

MIN?
[MSS:RDCCH:LAYER2:MIN?]
Returns current Mobile Identification Number (ASCII string).

NL3M *n*
[MSS:RDCCH:LAYER2:NL3M n]
Specifies Number Layer 3 Messages. Range of *n* is 0 to 7.

Besides being part of the Layer 2 frame, this command specifies the number of Layer 3 messages that are built into the RACH message by the **MSS:RDCCH: BUILD** command.

NL3M?
[MSS:RDCCH:LAYER2:NL3M?]
Returns current value of Number Layer 3 Messages.

MSS:RDCCH:

LAYER2:

ARQ *n*
[MSS:RDCCH:LAYER2:ARQ n]
Enables (*n* = 1) or disables (*n* = 0) ARQ status frame.

If ARQ is enabled, then the message built is a Layer 2 ARQ status frame.

ARQ?
[MSS:RDCCH:LAYER2:ARQ?]
Returns current state of ARQ status frame.

PEA *n*
[MSS:RDCCH:LAYER2:PEA n]
Specifies Partial Echo Assigned. Range of *n* is 0 to 63.

PEA?
[MSS:RDCCH:LAYER2:PEA?]
Returns current value of Partial Echo Assigned.

FRNO *n*
[MSS:RDCCH:LAYER2:FRNO n]
Specifies Frame Number Map. Range of *n* is 0 to #hFFFFFFFF.

FRNO?
[MSS:RDCCH:LAYER2:FRNO?]
Returns current value of Frame Number Map.

RSVD:

ARQ *n*
[MSS:RDCCH:LAYER2:RSVD:ARQ n]
Specifies Automatic Retransmission Request RSVD. Range of *n* is 0 to 3.

ARQ?
[MSS:RDCCH:LAYER2:RSVD:ARQ?]
Returns current value of ARQ. Returns -1 if not available.

EHI *n*
[MSS:RDCCH:LAYER2:RSVD:EHI n]
Enables (*n* = 1) or disables (*n* = 0) Extended Header Indicator RSVD.

EHI?
[MSS:RDCCH:LAYER2:RSVD:EHI?]
Returns current state of Extended Header Indicator RSVD. Returns -1 if not available.

END *n*
[MSS:RDCCH:LAYER2:RSVD:END n]
Enables (*n* = 1) or disables (*n* = 0) END frame RSVD.

END?
[MSS:RDCCH:LAYER2:RSVD:END?]
Returns current state of END frame RSVD. Returns -1 if not available.

The other Layer 2 data fields are set up as determined by the messages being sent in the Layer 3 data field.

BT — If the messages can be sent in one frame then BT = 3 for a BEGIN and END frame. For a multi-frame message, BT = 0 for the BEGIN frame, BT = 1 for the CONTINUE frame, and BT = 2 for the END frame. If the message is an ARQ status frame then BT = 4.

CI — The first CONTINUE frame sent has its CI field set to 0 and toggles for each additional CONTINUE frame. If the SCF information received on the FDCCH determines that a CONTINUE frame needs to be resent, then the CI field remains the same for that frame.

L3LI — This is determined by the length of the specified layer 3 message in octets.

RSVD — All reserved fields are set to zero.

B. RACH MESSAGE TYPES.

A RACH may include from 1 to 8 Layer 3 messages. The NL3M field determines the number of Layer 3 messages included in the RACH. The following commands select the message types sent as Layer 3 messages. The parameter n in each case determines the order and the selected messages types. As an example, if three messages are to be sent (NL3M = 2), then the message types selected with *n* = 0, *n* = 1 and *n* = 2 would be the messages built into the RACH message. These selected messages would be positioned in the RACH message, starting with the message type selected with *n* = 0.

MSS:RDCCH:

MSGtype:

The user may specify from 1 to 8 Message Types.

AUDITcon *n*
[MSS:RDCCH:MSGtype:AUDITcon n]
Selects Audit Confirmation to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

AUTHentication *n*
[MSS:RDCCH:MSGtype:AUTHentication n]
Selects Authentication to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

BSCHAL *n*
[MSS:RDCCH:MSGtype:BSCHAL n]
Selects Base Station Challenge Order to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

BSMC *n*
[MSS:RDCCH:MSGtype:BSMC n]
Selects BSMC Message Delivery to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

CAPability *n*
[MSS:RDCCH:MSGtype:CAPability n]
Selects Capability Report to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

MACA *n*
[MSS:RDCCH:MSGtype:MACA n]
Selects MACA Report to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

ORIGination *n*
[MSS:RDCCH:MSGtype:ORIGination n]
Selects Origination to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

MSS:RDCCH:

MSGtype:

The user may specify from 1 to 8 Message Types.

PAGE_RESPonse *n*
[MSS:RDCCH:MSGtype:PAGE_RESPonse n]
Selects Page Response to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

QDISConnect *n*
[MSS:RDCCH:MSGtype:QDISConnect n]
Selects Queue Disconnect to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

RDATA *n*
[MSS:RDCCH:MSGtype:RDATA n]
Selects R-DATA to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

RDATA:

ACCept *n*
[MSS:RDCCH:MSGtype:RDATA:ACCept n]
Selects R-DATA ACCEPT to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

REJect *n*
[MSS:RDCCH:MSGtype:RDATA:REJect n]
Selects R-DATA REJECT to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

REGistration *n*
[MSS:RDCCH:MSGtype:REGistration n]
Selects Registration to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

SERial *n*
[MSS:RDCCH:MSGtype:SERial n]
Selects Serial Number to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

SOC *n*
[MSS:RDCCH:MSGtype:SOC n]
Selects SOC Message Delivery to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

SPACHcon *n*
[MSS:RDCCH:MSGtype:SPACHcon n]
Selects SPACH Confirmation to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

MSS:RDCCH:

MSGtype:

The user may specify from 1 to 8 Message Types.

SSDUPcon *n*
[MSS:RDCCH:MSGtype:SSDUPcon n]
Selects SSD Update Order Confirmation to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

TEST *n*
[MSS:RDCCH:MSGtype:TEST n]
Selects Test Registration to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

UCHALcon *n*
[MSS:RDCCH:MSGtype:UCHALcon n]
Selects Unique Challenge Order Confirmation to be transmitted as a Message Type. The position of the message is determined by *n*. Range of *n* is 0 to 7.

C. RACH LAYER 3 DATA FIELDS

The values of the elements that make up the Layer 3 messages are determined by the commands in this section. Generally, the name of each command closely matches or is an abbreviation or acronym of the associated data element specified in IS-136.

MSS:RDCCH:

PD *n*
[MSS:RDCCH:PD n]
Specifies Protocol Discriminator. Range of *n* is 0 to 3.

PD?
[MSS:RDCCH:PD?]
Returns current value of Protocol Discriminator.

PFC_1 *n*
[MSS:RDCCH:PFC_1 n]
Specifies Paging Frame Class Minus One. Range of *n* is 0 to 7.

PFC_1?
[MSS:RDCCH:PFC_1?]
Returns current value of Paging Frame Class.

PSID_RSID:

SELect *n*
[MSS:RDCCH:PSID_RSID:SELect n]
Specifies Selected PSID/RSID (Private System Identification/Residential System Identification). Range of *n* is 0 to 15.

SELect?
[MSS:RDCCH:PSID_RSID:SELect?]
Returns current value of Selected PSID/RSID.

MAP *n*
[MSS:RDCCH:PSID_RSID:MAP n]
Specifies PSID/RSID Map. Range of *n* is 0 to #hFFFF.

MAP?
[MSS:RDCCH:PSID_RSID:MAP?]
Returns current value of PSID/RSID Map.

MSS:RDCCH:

SUBaddress:

LENGth *n*
[MSS:RDCCH:SUBaddress:LENGth n]
Specifies Subaddress Length. Range of *n* is 1 to 21.

LENGth?
[MSS:RDCCH:SUBaddress:LENGth?]
Returns current value of Subaddress Length.

ODD_EVEN *n*
[MSS:RDCCH:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Subaddress Odd/Even indicator.

ODD_EVEN?
[MSS:RDCCH:SUBaddress:ODD_EVEN?]
Returns current state of Subaddress Odd/Even indicator.

TYPE *n*
[MSS:RDCCH:SUBaddress:TYPE n]
Specifies Type of subaddress. Range of *n* is 0 to 3.

TYPE?
[MSS:RDCCH:SUBaddress:TYPE?]
Returns current value of Type of subaddress.

REServed *n*
[MSS:RDCCH:SUBaddress:REServed n]
Specifies number of subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[MSS:RDCCH:SUBaddress:REServed?]
Returns current number of subaddress Reserved fields.

ADDRess *n,m*
[MSS:RDCCH:SUBaddress:ADDRess n,m]
Specifies Subaddress (*m*) selected by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[MSS:RDCCH:SUBaddress:ADDRess? n]
Returns current value of Subaddress selected by *n*. Range of n is 0 to 19.

MSS:RDCCH:

DISPlay:

LENGth *n*
[MSS:RDCCH:DISPlay:LENGth n]
Specifies Length of Display Information. Range of *n* is 0 to 82.

LENGth?
[MSS:RDCCH:DISPlay:LENGth?]
Returns current value of Length of Display Information.

CHARacter *n,m*
[MSS:RDCCH:DISPlay:CHARacter n,m]
Specifies Display Character (*m*) selected by Index (*n*). Range of *n* is 0 to 81; range of *m* is 0 to 255.

The characters are set up one at a time.

CHARacter? *n*
[MSS:RDCCH:DISPlay:CHARacter? n]
Returns current value of Display Character selected by *n*. Range of *n* is 0 to 81.

COUNt *n*
[MSS:RDCCH:COUNt n]
Specifies COUNT used for the Authentication process. Range of *n* is 0 to 63.

COUNt?
[MSS:RDCCH:COUNt?]
Returns current value of COUNt.

RANDC *n*
[MSS:RDCCH:RANDC n]
Specifies RANDC used in the Authentication process. Range of *n* is 0 to 255.

RANDC?
[MSS:RDCCH:RANDC?]
Returns current value of RANDC.

AUTHR *n*
[MSS:RDCCH:AUTHR n]
Specifies AUTHR used in the Authentication process. Range of *n* is 0 to #h3FFFF.

AUTHR?
[MSS:RDCCH:AUTHR?]
Returns current value of AUTHR.

RANDBS *n*
[MSS:RDCCH:RANDBS n]
Specifies RANDBS used in the Authentication process. Range of *n* is 0 to #hFFFFFFFF.

RANDBS?
[MSS:RDCCH:RANDBS?]
Returns current value of RANDBS.

MSS:RDCCH:

BSMC *n*
[MSS:RDCCH:BSMC n]
Specifies Base Station Manufacture Code. Range of *n* is 0 to 255.

BSMC?
[MSS:RDCCH:BSMC?]
Returns current value of Base Station Manufacture Code.

CUSTom:

LENGth *n*
[MSS:RDCCH:CUSTom:LENGth n]
Specifies Custom Control Length. Range of *n* is 1 to 253.

LENGth?
[MSS:RDCCH:CUSTom:LENGth?]
Returns current value of Custom Control Length.

CONTrol *n,x*
[MSS:RDCCH:CUSTom:CONTrol n,x]
Specifies Custom Control byte (*x*) selected by *n*. Range of *n* is 0 to 252; range of *x* is 0 to 255.

CONTrol? *n*
[MSS:RDCCH:CUSTom:CONTrol? n]
Returns current byte value of Custom Control selected by *n*. Range of *n* is 0 to 252.

PROTocol:

VERsion *n*
[MSS:RDCCH:PROTocol:VERsion n]
Specifies Protocol Version. Range of *n* is 0 to 15.

VERsion?
[MSS:RDCCH:PROTocol:VERsion?]
Returns current value of Protocol Version.

SCM *n*
[MSS:RDCCH:SCM n]
Specifies Station Class Mark. Range of *n* is 0 to 31.

SCM?
[MSS:RDCCH:SCM?]
Returns current value of Station Class Mark.

MSS:RDCCH:

VINtage:

SOFTware *n*
[MSS:RDCCH:VINtage:SOFTware n]
Specifies Software Vintage. Range of *n* is 0 to 63.

SOFTware?
[MSS:RDCCH:VINtage:SOFTware?]
Returns current value of Software Vintage.

FIRMware *n*
[MSS:RDCCH:VINtage:FIRMware n]
Specifies Firmware Vintage. Range of *n* is 0 to 63.

FIRMware?
[MSS:RDCCH:VINtage:FIRMware?]
Returns current value of Firmware Vintage.

MODEL *n*
[MSS:RDCCH:MODEL n]
Specifies Model Number. Range of *n* is 0 to 15.

MODEL?
[MSS:RDCCH:MODEL?]
Returns current value of Model Number.

MANufacture *n*
[MSS:RDCCH:MANufacture n]
Specifies Manufacture Code. Range of *n* is 0 to 255.

MANufacture?
[MSS:RDCCH:MANufacture?]
Returns current value of Manufacture Code.

SUPPort:

MAX:

PFC *n*
[MSS:RDCCH:SUPPort:MAX:PFC n]
Specifies MAX_SUPPORTED_PFC. Range of *n* is 0 to 7.

PFC?
[MSS:RDCCH:SUPPort:MAX:PFC?]
Returns current value of MAX_SUPPORTED_PFC.

SOC *n*
[MSS:RDCCH:SUPPort:SOC n]
Enables (*n* = 1) or disables (*n* = 0) SOC Support.

SOC?
[MSS:RDCCH:SUPPort:SOC?]
Returns current state of SOC Support.

MSS:RDCCH:

SUPPort:

BSMC *n*
[MSS:RDCCH:SUPPort:BSMC n]
Enables (*n* = 1) or disables (*n* = 0) BSMC Support.

BSMC?
[MSS:RDCCH:SUPPort:BSMC?]
Returns current state of BSMC Support.

ASYNC *n*
[MSS:RDCCH:SUPPort:ASYNC n]
Enables (*n* = 1) or disables (*n* = 0) Async Data Support.

ASYNC?
[MSS:RDCCH:SUPPort:ASYNC?]
Returns current state of Async Data Support.

G3fax *n*
[MSS:RDCCH:SUPPort:G3fax n]
Enables (*n* = 1) or disables (*n* = 0) G3-Fax Support.

G3fax?
[MSS:RDCCH:SUPPort:G3fax?]
Returns current state of G3-Fax Support.

SMS *n*
[MSS:RDCCH:SUPPort:SMS n]
Enables (*n* = 1) or disables (*n* = 0) SMS Broadcast Support.

SMS?
[MSS:RDCCH:SUPPort:SMS?]
Returns current state of SMS Broadcast Support.

SUBaddress *n*
[MSS:RDCCH:SUPPort:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) Subaddressing Support.

SUBaddress?
[MSS:RDCCH:SUPPort:SUBaddress?]
Returns current state of Subaddressing Support.

FREQuency:

BANDS *n*
[MSS:RDCCH:SUPPort:FREQuency:BANDS n]
Specifies Supported Frequency Bands. Range of *n* is 0 to 255.

BANDS?
[MSS:RDCCH:SUPPort:FREQuency:BANDS?]
Returns current value of Supported Frequency Bands.

MSS:RDCCH:

SUPPort:

IRA *n*
[MSS:RDCCH:SUPPort:IRA n]
Enables (*n* = 1) or disables (*n* = 0) International Reference Alphabet Support.

IRA?
[MSS:RDCCH:SUPPort:IRA?]
Returns current state of IRA Support.

USER *n*
[MSS:RDCCH:SUPPort:USER n]
Enables (*n* = 1) or disables (*n* = 0) User Group Support.

USER?
[MSS:RDCCH:SUPPort:USER?]
Returns current state of User Group Support.

ANA800 *n*
[MSS:RDCCH:SUPPort:ANA800 n]
Enables (*n* = 1) or disables (*n* = 0) 800 MHz Analog Speech Support.

Indicates if mobile station supports analog speech in the 800 MHz Hyperband.

ANA800?
[MSS:RDCCH:SUPPort:ANA800?]
Returns current state of 800 MHz Analog Speech Support.

HALF *n*
[MSS:RDCCH:SUPPort:HALF n]
Enables (*n* = 1) or disables (*n* = 0) Half-Rate DTC Support.

Indicates if mobile station supports half-rate Digital Traffic Channels.

HALF?
[MSS:RDCCH:SUPPort:HALF?]
Returns current state of Half-Rate DTC Support.

DOUBle *n*
[MSS:RDCCH:SUPPort:DOUBle n]
Enables (*n* = 1) or disables (*n* = 0) Double Rate DTC Support.

Indicates if mobile station supports double rate Digital Traffic Channels.

DOUBle?
[MSS:RDCCH:SUPPort:DOUBle?]
Returns current state of Double Rate DTC Support.

MSS:RDCCH:

SUPPort:

TRIPle *n*
[MSS:RDCCH:SUPPort:TRIPle n]
Enables (*n* = 1) or disables (*n* = 0) Triple Rate DTC Support.

Indicates if the mobile station supports triple rate Digital Traffic Channels.

TRIPle?
[MSS:RDCCH:SUPPort:TRIPle?]
Returns current state of Triple Rate DTC Support.

STU_III *n*
[MSS:RDCCH:SUPPort:STU_III n]
Enables (*n* = 1) or disables (*n* = 0) STU-III Support.

STU_III?
[MSS:RDCCH:SUPPort:STU_III?]
Returns current state of STU-III Support.

ALT_SOC ***n***
[MSS:RDCCH:SUPPort:ALT_SOC n]
Specifies ALT_SOC_Support. Range of *n* is 0 to #hFFF (0 to 4095).

ALT_SOC?
[MSS:RDCCH:SUPPort:ALT_SOC?]
Returns current value of ALT_SOC_Support.

VC_MAP *n*
[MSS:RDCCH:VC_MAP n]
Specifies Voice Coder Map Info. Range of *n* is 0 to #h3F (0 to 63).

VC_MAP?
[MSS:RDCCH:VC_MAP?]
Returns current value of Voice Coder Map Info.

MSS:RDCCH:

MEASurement:

LTM:

WER *n*
[MSS:RDCCH:MEASurement:LTM:WER n]
Specifies LTM Measurement Word Error Rate. Range of *n* is 0 to 7.

WER?
[MSS:RDCCH:MEASurement:LTM:WER?]
Returns current value of LTM Measurement Word Error Rate.

BER *n*
[MSS:RDCCH:MEASurement:LTM:BER n]
Specifies Word Error Rate LTM Measurement Bit Error Rate. Range of *n* is 0 to 7.

BER?
[MSS:RDCCH:MEASurement:LTM:BER?]
Returns current value of LTM Measurement Bit Error Rate.

RSS *n*
[MSS:RDCCH:MEASurement:LTM:RSS n]
Specifies LTM Measurement Receive Signal Strength. Range of *n* is 0 to 7.

RSS?
[MSS:RDCCH:MEASurement:LTM:RSS?]
Returns current value of LTM Measurement Receive Signal Strength.

FULL *n*
[MSS:RDCCH:MEASurement:LTM:FULL n]
Enables (*n* = 1) or disables (*n* = 0) LTM Measurement Full Measurement Indicator.

FULL?
[MSS:RDCCH:MEASurement:LTM:FULL?]
Returns current state of LTM Measurement Full Measurement Indicator.

MSS:RDCCH:

MEASurement:

STM:

NV *n*
[MSS:RDCCH:MEASurement:STM:NV n]
Specifies STM Measurement Number of Values. Range of *n* is 0 to 15.

NV?
[MSS:RDCCH:MEASurement:STM:NV?]
Returns current value of STM Measurement Number of Values.

RSS *n,m*
[MSS:RDCCH:MEASurement:STM:RSS n,m]
Specifies value of ST_RSS (*m*) selected by *n*. Range of *n* is 0 to 31; range of *m* is 0 to 15.

Specifies 1 of 16 STM Measurement Receive Signal Strengths.

RSS? *n*
[MSS:RDCCH:MEASurement:STM:RSS? n]
Returns current value of STM Measurement Receive Signal Strength selected by *n*. Range of *n* is 0 to 31.

OTHER:STM:

LENGth *n*
[MSS:RDCCH:MEASurement:OTHER:STM:LENGth n]
Specifies STM Measurement (Other Hyperband) Report Map Length. Range of *n* is 1 to 15.

LENGth?
[MSS:RDCCH:MEASurement:OTHER:STM:LENGth?]
Returns current value of STM Measurement (Other Hyperband) Report Map Length.

REPort *n*
[MSS:RDCCH:MEASurement:OTHER:STM:REPort n]
Specifies STM Measurement (Other Hyperband) Report Map. Range of *n* is 1 to #h7FFF (32767).

REPort?
[MSS:RDCCH:MEASurement:OTHER:STM:REPort?]
Returns current value of STM Measurement (Other Hyperband) Report Map.

MSS:RDCCH:

OTHER:STM:

RSS *n,m*
[MSS:RDCCH:MEASurement:OTHER:STM:RSS n,m]
Specifies STM Measurement (Other Hyperband) ST_RSS (*m*) for the designated bit position (*n*) of Report Map (see **MSS:RDCCH:MEASurement:OTHER:STM: LENGth** and **REPort**). Range of *n* is 0 to 14; range of m is 0 to 31.

RSS? *n*
[MSS:RDCCH:MEASurement:OTHER:STM:RSS? n]
Returns current value of STM Measurement (Other Hyperband) ST_RSS for the designated bit position (*n*) of Report Map.

EMERgency *n*
[MSS:RDCCH:EMERgency n]
Enables (*n* = 1) or disables (*n* = 0) Emergency Call.

EMERgency?
[MSS:RDCCH:EMERgency?]
Returns current state of Emergency Call.

LT *n*
[MSS:RDCCH:LT n]
Enables (*n* = 1) or disables (*n* = 0) Last Try flag.

If a mobile station receives a Directed Retry and attempts a new access on another DCCH, it shall set the Last Try flag in the Origination or the Page Response message to the value of the Last Try flag received in the Directed Retry message. Otherwise, the mobile station shall reset the Last Try flag at system access.

LT?
[MSS:RDCCH:LT?]
Returns current state of Last Try flag.

SERVice *n*
[MSS:RDCCH:SERVice n]
Specifies Service Code. Range of *n* is 0 to 15.

SERVice?
[MSS:RDCCH:SERVice?]
Returns current value of Service Code.

MSS:RDCCH:

MODE:

VOICe:

VC *n*
[MSS:RDCCH:MODE:VOICe:VC n]
Specifies Voice Mode VC. Range of *n* is 0 to 7.

VC?
[MSS:RDCCH:MODE:VOICe:VC?]
Returns current value of Voice Mode VC.

PM *n*
[MSS:RDCCH:MODE:VOICe:PM n]
Specifies Voice Mode PM_V. Range of *n* is 0 to 7.

PM?
[MSS:RDCCH:MODE:VOICe:PM?]
Returns current value of Voice Mode PM_V.

DATA:

PM *n*
[MSS:RDCCH:MODE:DATA:PM n]
Specifies Data Mode PM_D. Range of *n* is 0 to 7.

PM?
[MSS:RDCCH:MODE:DATA:PM?]
Returns current value of Data Mode PM_D.

SAP *n*
[MSS:RDCCH:MODE:DATA:SAP n]
Specifies Data Mode SAP. Valid values of *n* are 0 (SAP 0 only) or 1 (SAP 0 and 1).

SAP?
[MSS:RDCCH:MODE:DATA:SAP?]
Returns current value of Data Mode SAP.

ACKED *n*
[MSS:RDCCH:MODE:DATA:ACKED n]
Specifies Data Mode Acked Data. Valid values of *n* are 0 or 1.

ACKED?
[MSS:RDCCH:MODE:DATA:ACKED?]
Returns current state of Data Mode Acked Data.

MSS:RDCCH:

MODE:

DATA:

CRC *n*
[MSS:RDCCH:MODE:DATA:CRC n]
Specifies Data Mode CRC. Range of *n* is 0 to 3

CRC?
[MSS:RDCCH:MODE:DATA:CRC?]
Returns current state of Data Mode CRC.

PART *n*
[MSS:RDCCH:MODE:DATA:PART n]
Specifies Data Mode Data Part. Range of *n* is 0 to 7.

PART?
[MSS:RDCCH:MODE:DATA:PART?]
Returns current value of Data Mode Data Part.

RLP *n*
[MSS:RDCCH:MODE:DATA:RLP n]
Specifies Data Mode RLP. Range of *n* is 0 to 3.

RLP?
[MSS:RDCCH:MODE:DATA:RLP?]
Returns current value of Data Mode RLP.

MSS:RDCCH:

VOICEMode:

The following commands are utilized for multiple instances of Voice Mode.

NUMBer *n* **-or- NUM** *n*
[MSS:RDCCH:VOICEMode:NUMBer n]
Specifies the Number of instances of Voice Mode. Range of *n* is 0 to 8.

Up to 8 instances of this field may be sent.

NUMBer? -or- NUM?
[MSS:RDCCH:VOICEMode:NUMBer?]
Return the current Number of instances of Voice Mode.

VC *n,m*
[MSS:RDCCH:VOICEMode:VC n,m]
Specifies the value of VC (*m*) for the designated instance (*n*) of Voice Mode. Range of *n* is 0 to 7; range of *m* is 0 to 7.

VC? *n*
[MSS:RDCCH:VOICEMode:VC? n]
Returns the current value of VC for the designated instance (*n*) of Voice Mode. Range of *n* is 0 to 7.

PM *n,m*
[MSS:RDCCH:VOICEMode:PM n,m]
Specifies the value of PM_V (*m*) for the designated instance (*n*) of Voice Mode. Range of *n* is 0 to 7; range of *m* is 0 to 7.

PM? *n*
[MSS:RDCCH:VOICEMode:PM? n]
Returns the current value of PM_V for the designated instance (*n*) of Voice Mode. Range of *n* is 0 to 7.

MSS:RDCCH:

MEM:

Message Encryption Mode - Identifies the selected message encryption algorithm, key and domain.

MEA *n*
[MSS:RDCCH:MEM:MEA n]
Specifies Message Encryption Algorithm. Range of *n* is 0 to 7.

MEA?
[MSS:RDCCH:MEM:MEA?]
Returns current value of Message Encryption Algorithm.

MED *n*
[MSS:RDCCH:MEM:MED n]
Specifies Message Encryption Domain. Range of *n* is 0 to 7.

MED?
[MSS:RDCCH:MEM:MED?]
Returns current value of Message Encryption Domain.

MEK *n*
[MSS:RDCCH:MEM:MEK n]
Specifies Message Encryption Key. Range of *n* is 0 to 7.

MEK?
[MSS:RDCCH:MEM:MEK?]
Returns current value of Message Encryption Key.

BANDWidth *n*
[MSS:RDCCH:BANDWidth n]
Specifies Bandwidth. Range of *n* is 0 to 7.

BANDWidth?
[MSS:RDCCH:BANDWidth?]
Returns current value of Bandwidth.

MSS:RDCCH:

CALLED:

TYPE *n*
[MSS:RDCCH:CALLED:TYPE n]
Specifies Called Address Type of Number. Range of *n* is 0 to 7.

TYPE?
[MSS:RDCCH:CALLED:TYPE?]
Returns current value of Called Address Type of Number.

PLANid *n*
[MSS:RDCCH:CALLED:PLANid n]
Specifies Called Address Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[MSS:RDCCH:CALLED:PLANid?]
Returns current value of Called Address Numbering Plan Identification.

ADDRess:

ENCoding *n*
[MSS:RDCCH:CALLED:ADDRess:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Called Address Encoding.

ENCoding?
[MSS:RDCCH:CALLED:ADDRess:ENCoding?]
Returns current state of Called Address Encoding.

ADDRess *"n"*
[MSS:RDCCH:CALLED:ADDRess "n"]
Specifies Called Address (ASCII String).

ADDRess?
[MSS:RDCCH:CALLED:ADDRess?]
Returns current ASCII string value of Called Address.

MSS:RDCCH:

CALLED:

SUBaddress:

ODD_EVEN *n*
[MSS:RDCCH:CALLED:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Called Party Subaddress Odd/Even indicator.

ODD_EVEN?
[MSS:RDCCH:CALLED:SUBaddress:ODD_EVEN?]
Returns current state of Called Party Subaddress Odd/Even indicator.

TYPE *n*
[MSS:RDCCH:CALLED:SUBaddress:TYPE n]
Specifies Called Party Subaddress Type of Subaddress. Range of *n* is 0 to 3.

TYPE?
[MSS:RDCCH:CALLED:SUBaddress:TYPE?]
Returns current value of Called Party Subaddress Type of Subaddress.

REServed *n*
[MSS:RDCCH:CALLED:SUBaddress:REServed n]
Specifies number of Called Party Subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[MSS:RDCCH:CALLED:SUBaddress:REServed?]
Returns current number of Called Party Subaddress Reserved fields.

ADDRess *n,m*
[MSS:RDCCH:CALLED:SUBaddress:ADDRess n,m]
Specifies Called Party Subaddress (*m*) selected by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[MSS:RDCCH:CALLED:SUBaddress:ADDRess? n]
Returns current value of Called Party Subaddress selected by *n*. Range of *n* is 0 to 19.

MSS:RDCCH:

CALLING:

TYPE *n*
[MSS:RDCCH:CALLING:TYPE n]
Specifies Calling Address Type of Number. Range of *n* is 0 to 7.

TYPE?
[MSS:RDCCH:CALLING:TYPE?]
Returns current value of Calling Address Type of Number.

PLANid *n*
[MSS:RDCCH:CALLING:PLANid n]
Specifies Calling Address Numbering Plan Identification. Range of *n* is 0 to 15.

PLANid?
[MSS:RDCCH:CALLING:PLANid?]
Returns current value of Calling Address Numbering Plan Identification.

ADDRess:

ENCoding *n*
[MSS:RDCCH:CALLING:ADDRess:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Calling Address Encoding.

ENCoding?
[MSS:RDCCH:CALLING:ADDRess:ENCoding?]
Returns current state of Calling Address Encoding.

ADDRess *"n"*
[MSS:RDCCH:CALLING:ADDRess "n"]
Specifies Calling Address (ASCII String).

ADDRess?
[MSS:RDCCH:CALLING:ADDRess?]
Returns current ASCII string value of Calling Address.

PRESentation:

PI *n*
[MSS:RDCCH:CALLING:PRESentation:PI n]
Specifies Calling Address Presentation Indicator. Range of *n* is 0 to 3.

PI?
[MSS:RDCCH:CALLING:PRESentation:PI?]
Returns current value of Calling Address Presentation Indicator.

SI *n*
[MSS:RDCCH:CALLING:PRESentation:SI n]
Specifies Calling Address Screening Indicator. Range of *n* is 0 to 3.

SI?
[MSS:RDCCH:CALLING:PRESentation:SI?]
Returns current value of Calling Address Screening Indicator.

MSS:RDCCH:

CALLING:

SUBaddress:

LENGth *n*
[MSS:RDCCH:CALLING:SUBaddress:LENGth n]
Specifies Calling Address Subaddress Length. Range of *n* is 1 to 21.

LENGth?
[MSS:RDCCH:CALLING:SUBaddress:LENGth?]
Returns current value of Calling Address Subaddress Length.

ODD_EVEN *n*
[MSS:RDCCH:CALLING:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) Calling Address Subaddress Odd/Even indicator.

ODD_EVEN?
[MSS:RDCCH:CALLING:SUBaddress:ODD_EVEN?]
Returns current state of Calling Address Subaddress Odd/Even indicator.

TYPE *n*
[MSS:RDCCH:CALLING:SUBaddress:TYPE n]
Specifies Calling Address Subaddress Type of Number. Range of *n* is 0 to 3.

TYPE?
[MSS:RDCCH:CALLING:SUBaddress:TYPE?]
Returns current value of Calling Address Subaddress Type of Number.

REServed *n*
[MSS:RDCCH:CALLING:SUBaddress:REServed n]
Specifies number of Calling Party Subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[MSS:RDCCH:CALLING:SUBaddress:REServed?]
Returns current number of Calling Party Subaddress Reserved fields.

ADDRess *n,m*
[MSS:RDCCH:CALLING:SUBaddress:ADDRess n,m]
Specifies Calling Address Subaddress (*m*) selected by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[MSS:RDCCH:CALLING:SUBaddress:ADDRess? n]
Returns current value of Calling Address Subaddress selected by *n*. Range of *n* is 0 to 19.

MSS:RDCCH:

RTRANSaction *n*
[MSS:RDCCH:RTRANSaction n]
Specifies R-Transaction Identifier. Range of *n* is 0 to 255.

RTRANSaction?
[MSS:RDCCH:RTRANSaction?]
Returns current value of R-Transaction Identifier.

RDATA:MESSage:LENGth?
[MSS:RDCCH:RDATA:MESSage:LENGth?]
Returns the calculated length of the RDATA message according to the data elements selected by the user. Used to verify the data length is within the usable 255 bytes.

RDATA_UNIT:

LENGth *n*
[MSS:RDCCH:RDATA_UNIT:LENGth n]
Specifies R-Data Unit Length Indicator. Range of *n* is 0 to 255.

LENGth?
[MSS:RDCCH:RDATA_UNIT:LENGth?]
Returns current value of R-Data Unit Length Indicator.

HLP:

Higher Layer Protocol.

IDentifier *n*
[MSS:RDCCH:RDATA_UNIT:HLP:IDentifier n]
Specifies R-Data Unit Higher Protocol Identifier. Range of *n* is 0 to 255.

IDentifier?
[MSS:RDCCH:RDATA_UNIT:HLP:IDentifier?]
Returns current value of R-Data Unit Higher Protocol Identifier.

DATA *n,m*
[MSS:RDCCH:RDATA_UNIT:HLP:DATA n,m]
Specifies R-Data Higher Layer Protocol Data Unit (*m*) selected by *n*. Range of *n* is 0 to 255; range of *m* is 0 to 255.

DATA? *n*
[MSS:RDCCH:RDATA_UNIT:HLP:DATA? n]
Returns current value of Higher Layer Protocol Data Unit selected by *n*. Range of *n* is 0 to 255.

MSS:RDCCH:

MESSage:CENTer:

TYPE *n*
[MSS:RDCCH:MESSage:CENTer:TYPE n]
Specifies Message Center Type of Number. Range of *n* is 0 to 7.

TYPE?
[MSS:RDCCH:MESSage:CENTer:TYPE?]
Returns current value of Message Center Type of Number.

PLANid *n*
[MSS:RDCCH:MESSage:CENTer:PLANid n]
Specifies Message Center Identification Plan. Range of *n* is 0 to 15.

PLANid?
[MSS:RDCCH:MESSage:CENTer:PLANid?]
Returns current value of Message Center Identification Plan.

ADDRess:

ENCoding *n*
[MSS:RDCCH:MESSage:CENTer:ADDRess:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) Message Center Address Encoding.

ENCoding?
[MSS:RDCCH:MESSage:CENTer:ADDRess:ENCoding?]
Returns current state of Message Center Address Encoding.

ADDRess *"n"*
[MSS:RDCCH:MESSage:CENTer:ADDRess "n"]
Specifies Message Center Address (ASCII String).

ADDRess?
[MSS:RDCCH:MESSage:CENTer:ADDRess?]
Returns current ASCII string value of Message Center Address.

USER:

GROUP:

STATus *n*
[MSS:RDCCH:USER:GROUP:STATus n]
Specifies User Group Status. Range of *n* is 0 to 3.

STATus?
[MSS:RDCCH:USER:GROUP:STATus?]
Returns current value of User Group Status.

MSS:RDCCH:

USER:

GROUP:

TYPE *n*
[MSS:RDCCH:USER:GROUP:TYPE n]
Specifies User Group Type. Range of *n* is 0 to 3.

TYPE?
[MSS:RDCCH:USER:GROUP:TYPE?]
Returns current value of User Group Type.

UGID:

MS *n*
[MSS:RDCCH:USER:GROUP:UGID:MS n]
Specifies the 18 most significant bits of User Group ID. Range of *n* is 0 to #h3FFFF.

MS?
[MSS:RDCCH:USER:GROUP:UGID:MS?]
Returns the 18 most significant bits of User Group ID.

LS *n*
[MSS:RDCCH:USER:GROUP:UGID:LS n]
Specifies the 32 least significant bits of User Group ID. Range of *n* is 0 to #hFFFFFFFF.

LS?
[MSS:RDCCH:USER:GROUP:UGID:LS?]
Returns the 32 least significant bits of User Group ID.

MIN *"n"*
[MSS:RDCCH:USER:MIN "n"]

Specifies MIN (ASCII String).

If the User Group type is 2, signifying a 34-bit UGID, then this command sets up the User Group ID with a Mobile Identification Number.

MIN?
[MSS:RDCCH:USER:MIN?]
Returns current string value of MIN.

MSS:RDCCH:

DEST:

TYPE *n*
[MSS:RDCCH:DEST:TYPE n]
Specifies User Destination Type of Number. Range of *n* is 0 to 7.

TYPE?
[MSS:RDCCH:DEST:TYPE?]
Returns current value of User Destination Type of Number.

PLANid *n*
[MSS:RDCCH:DEST:PLANid n]
Specifies User Destination Identification Plan. Range of *n* is 0 to 15.

PLANid?
[MSS:RDCCH:DEST:PLANid?]
Returns current value of the User Destination Identification Plan.

ADDRess:

ENCoding *n*
[MSS:RDCCH:DEST:ADDRess:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) User Destination Address Encoding.

ENCoding?
[MSS:RDCCH:DEST:ADDRess:ENCoding?]
Returns current state of User Destination Address Encoding.

ADDRess *"n"*
[MSS:RDCCH:DEST:ADDRess "n"]
Specifies User Destination Address (ASCII String).

ADDRess?
[MSS:RDCCH:DEST:ADDRess?]
Returns current string value of User Destination Address.

MSS:RDCCH:

DEST:

SUBaddress:

LENGth *n*
[MSS:RDCCH:DEST:SUBaddress:LENGth n]
Specifies User Destination Subaddress Length. Range of *n* is 1 to 21.

LENGth?
[MSS:RDCCH:DEST:SUBaddress:LENGth?]
Returns current value of User Destination Subaddress Length.

ODD_EVEN *n*
[MSS:RDCCH:DEST:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) User Destination Subaddress Odd/Even indicator.

ODD_EVEN?
[MSS:RDCCH:DEST:SUBaddress:ODD_EVEN?]
Returns current state of User Destination Subaddress Odd/Even indicator.

TYPE *n*
[MSS:RDCCH:DEST:SUBaddress:TYPE n]
Specifies User Destination Subaddress Type of Number. Range of *n* is 0 to 3.

TYPE?
[MSS:RDCCH:DEST:SUBaddress:TYPE?]
Returns current value of User Destination Type of Number.

REServed *n*
[MSS:RDCCH:DEST:SUBaddress:REServed n]
Specifies number of User Destination Subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[MSS:RDCCH:DEST:SUBaddress:REServed?]
Returns current number of User Destination Subaddress Reserved fields.

ADDRess *n,m*
[MSS:RDCCH:DEST:SUBaddress:ADDRess n,m]
Specifies User Destination Subaddress (*m*) selected by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[MSS:RDCCH:DEST:SUBaddress:ADDRess? n]
Returns current value of User Destination Subaddress selected by *n*. Range of *n* is 0 to 19.

MSS:RDCCH:

ORIG:

TYPE *n*
[MSS:RDCCH:ORIG:TYPE n]
Specifies User Originating Type of Number. Range of *n* is 0 to 7.

TYPE?
[MSS:RDCCH:ORIG:TYPE?]
Returns current value of User Originating Type of Number.

PLANid *n*
[MSS:RDCCH:ORIG:PLANid n]
Specifies User Originating Identification Plan. Range of *n* is 0 to 15.

PLANid?
[MSS:RDCCH:ORIG:PLANid?]
Returns current value of User Originating Identification Plan.

ADDRess:

ENCoding *n*
[MSS:RDCCH:ORIG:ADDRess:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Address Encoding.

ENCoding?
[MSS:RDCCH:ORIG:ADDRess:ENCoding?]
Returns current state of User Originating Address Encoding.

ADDRess *"n"*
[MSS:RDCCH:ORIG:ADDRess "n"]
Specifies User Originating Address (ASCII String).

ADDRess?
[MSS:RDCCH:ORIG:ADDRess?]
Returns current string value of User Originating Address.

MSS:RDCCH:

ORIG:

SUBaddress:

LENGth *n*
[MSS:RDCCH:ORIG:SUBaddress:LENGth n]
Specifies User Originating Subaddress Length. Range of *n* is 1 to 21.

LENGth?
[MSS:RDCCH:ORIG:SUBaddress:LENGth?]
Returns current value of User Originating Subaddress Length.

ODD_EVEN *n*
[MSS:RDCCH:ORIG:SUBaddress:ODD_EVEN n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Subaddress Odd/Even indicator.

ODD_EVEN?
[MSS:RDCCH:ORIG:SUBaddress:ODD_EVEN?]
Returns current state of User Originating Subaddress Odd/Even indicator.

TYPE *n*
[MSS:RDCCH:ORIG:SUBaddress:TYPE n]
Specifies User Originating Subaddress Type of Number. Range of *n* is 0 to 3.

TYPE?
[MSS:RDCCH:ORIG:SUBaddress:TYPE?]
Returns current value of User Originating Subaddress Type of Number.

REServed *n*
[MSS:RDCCH:ORIG:SUBaddress:REServed n]
Specifies number of User Originating Subaddress Reserved fields. Range of *n* is 0 to 15.

REServed?
[MSS:RDCCH:ORIG:SUBaddress:REServed?]
Returns current number of User Originating Subaddress Reserved fields.

ADDRess *n,m*
[MSS:RDCCH:ORIG:SUBaddress:ADDRess n,m]
Specifies User Originating Subaddress (*m*) selected by *n*. Range of *n* is 0 to 19; range of *m* is 0 to 255.

ADDRess? *n*
[MSS:RDCCH:ORIG:SUBaddress:ADDRess? n]
Returns current value of User Originating Subaddress selected by *n*. Range of *n* is 0 to 19.

MSS:RDCCH:

ORIG:

PRESentation:

Presentation Indicator - Used to identify the presentation restrictions and screening related to User Originating Address or the originating MSID.

PI *n*
[MSS:RDCCH:ORIG:PRESentation:PI n]
Specifies Presentation Indicator. Range of *n* is 0 to 3.

PI?
[MSS:RDCCH:ORIG:PRESentation:PI?]
Returns current value of Presentation Indicator.

SI *n*
[MSS:RDCCH:ORIG:PRESentation:SI n]
Specifies Screen Indicator. Range of *n* is 0 to 3.

SI?
[MSS:RDCCH:ORIG:PRESentation:SI?]
Returns current value of Screening Indicator.

RDATA:

DELay *n*
[MSS:RDCCH:RDATA:DELay n]
Specifies R-DATA DELAY. Range of *n* is 0 to 15.

DELay?
[MSS:RDCCH:RDATA:DELay?]
Returns current value of R-DATA DELAY.

RCAUSe *n*
[MSS:RDCCH:RCAUSe n]
Specifies R-CAUSE. Range of *n* is 1 to 127.

Used to qualify a R-DATA REJECT message.

RCAUSe?
[MSS:RDCCH:RCAUSe?]
Returns current value of R-CAUSE.

RCAUSe:

REServed *n*
[MSS:RDCCH:RCAUSe:REServed n]
Specifies Reserved field of R-Cause. Range of *n* is 1 or 0.

REServed?
[MSS:RDCCH:RCAUSe:REServed?]
Returns current value of the Reserved field of R-Cause.

MSS:RDCCH:

REG:

TYPE *n*
[MSS:RDCCH:REG:TYPE n]
Specifies Registration Type. Range of *n* is 0 to 15.

TYPE?
[MSS:RDCCH:REG:TYPE?]
Returns current value of Registration Type.

CNUMber:

TYPE *n*
[MSS:RDCCH:CNUMber:TYPE n]
Specifies C-Number Type of Number. Range of *n* is 0 to 7.

TYPE?
[MSS:RDCCH:CNUMber:TYPE?]
Returns current value of the C-Number Type of Number.

PLANid *n*
[MSS:RDCCH:CNUMber:PLANid n]
Specifies C-Number Identification Plan. Range of *n* is 0 to 15.

PLANid?
[MSS:RDCCH:CNUMber:PLANid?]
Returns current value of the C-Number Identification Plan.

ADDRess:

ENCoding *n*
[MSS:RDCCH:CNUMber:ADDRess:ENCoding n]
Enables (*n* = 1) or disables (*n* = 0) C-Number Address Encoding.

ENCoding?
[MSS:RDCCH:CNUMber:ADDRess:ENCoding?]
Returns current state of the C-Number Address Encoding.

ADDRess *"n"*
[MSS:RDCCH:CNUMber:ADDRess "n"]
Specifies C-Number Address (ASCII String).

ADDRess?
[MSS:RDCCH:CNUMber:ADDRess?]
Returns current string value of C-Number Address.

MSS:RDCCH:

PFC:

REQuest *n*
[MSS:RDCCH:PFC:REQuest n]
Specifies Paging Frame Class Request. Range of *n* is 0 to 7.

REQuest?
[MSS:RDCCH:PFC:REQuest?]
Returns current value of Paging Frame Class Request.

SID_REPort *n*
[MSS:RDCCH:SID_REPort n]
Specifies SIDs-p. Range of *n* is 0 to #h7FFF (32767).

SID_REPort?
[MSS:RDCCH:SID_REPort?]
Returns current value of SIDs-p.

SOC *n*
[MSS:RDCCH:SOC n]
Specifies SOC. Range of *n* is 0 to 4095.

SOC?
[MSS:RDCCH:SOC?]
Returns current value of SOC.

MSS:RDCCH:

ESN *n*
[MSS:RDCCH:ESN n]
Specifies Electronic Serial Number. Range of *n* is 0 to #hFFFFFFFF.

ESN?
[MSS:RDCCH:ESN?]
Returns current value of Electronic Serial Number.

CONFirmed:

MSGtype *n*
[MSS:RDCCH:CONFirmed:MSGtype n]
Specifies Confirmed Message Type. Range of *n* is 0 to 63.

MSGtype?
[MSS:RDCCH:CONFirmed:MSGtype?]
Returns current value of Confirmed Message Type.

SSDUP:

STATus *n*
[MSS:RDCCH:SSDUP:STATus n]
Specifies SSD Update Status. Range of *n* is 0 to 3.

STATus?
[MSS:RDCCH:SSDUP:STATus?]
Returns current value of SSD Update Status.

AUTHU *n*
[MSS:RDCCH:AUTHU n]
Specifies AUTHU. Range of *n* is 0 to #h3FFFF.

AUTHU?
[MSS:RDCCH:AUTHU?]
Returns current value of AUTHU.

D. OPTIONAL DATA FIELDS

Some of the elements of RACH messages are optional. Optional elements can be enabled or disabled by the following commands.

MSS:RDCCH:

ENABle:

PSID_RSID:

SELect *n*
[MSS:RDCCH:ENABle:PSID_RSID:SELect n]
Enables (*n* = 1) or disables (*n* = 0) Selected PSID/RSID optional message.

SELect?
[MSS:RDCCH:ENABle:PSID_RSID:SELect?]
Returns current state of Selected PSID/RSID optional message.

SUBaddress *n*
[MSS:RDCCH:ENABle:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) Subaddress optional message.

SUBaddress?
[MSS:RDCCH:ENABle:SUBaddress?]
Returns current state of Subaddress optional message.

DISPlay *n*
[MSS:RDCCH:ENABle:DISPlay n]
Enables (*n* = 1) or disables (*n* = 0) Display optional message.

DISPlay?
[MSS:RDCCH:ENABle:DISPlay?]
Returns current state of Display optional message.

VC_MAP *n*
[MSS:RDCCH:ENABle:VC_MAP n]
Enables (*n* = 1) or disables (*n* = 0) Voice Coder Map Info optional message.

VC_MAP?
[MSS:RDCCH:ENABle:VC_MAP?]
Return current state of Voice Coder Map Info optional message.

SUPPort:

ALT_SOC *n*
[MSS:RDCCH:ENABle:SUPPort:ALT_SOC n]
Enables (*n* = 1) or disables (*n* = 0) ALT_SOC_Support optional message.

ALT_SOC?
[MSS:RDCCH:ENABle:SUPPort:ALT_SOC?]
Returns current state of ALT_SOC_Support optional message.

MSS:RDCCH:

ENABle:

MEASurement:

LTM *n*
[MSS:RDCCH:ENABle:MEASurement:LTM n]
Enables (*n* = 1) or disables (*n* = 0) LTM Measurement optional message.

LTM?
[MSS:RDCCH:ENABle:MEASurement:LTM?]
Returns current state of LTM Measurement optional message.

STM *n*
[MSS:RDCCH:ENABle:MEASurement:STM n]
Enables (*n* = 1) or disables (*n* = 0) STM Measurement optional message.

STM?
[MSS:RDCCH:ENABle:MEASurement:STM?]
Returns current state of STM Measurement optional message.

OTHER:

STM *n*
[MSS:RDCCH:ENABle:MEASurement:OTHER:STM n]
Enables (*n* = 1) or disables (*n* = 0) STM Measurement (Other Hyperband) optional message.

STM?
[MSS:RDCCH:ENABle:MEASurement:OTHER:STM?]
Returns current state of STM Measurement (Other Hyperband) optional message.

MODE:

VOICe *n*
[MSS:RDCCH:ENABle:MODE:VOICe n]
Enables (*n* = 1) or disables (*n* = 0) Voice Mode optional message.

VOICe?
[MSS:RDCCH:ENABle:MODE:VOICe?]
Returns current state of Voice Mode optional message.

DATA *n*
[MSS:RDCCH:ENABle:MODE:DATA n]
Enables (*n* = 1) or disables (*n* = 0) Data Mode optional message.

DATA?
[MSS:RDCCH:ENABle:MODE:DATA?]
Returns current state of Data Mode optional message.

MSS:RDCCH:

ENABle:

MEM *n*
[MSS:RDCCH:ENABle:MEM n]
Enables (*n* = 1) or disables (*n* = 0) Message Encryption Mode optional message.

MEM?
[MSS:RDCCH:ENABle:MEM?]
Returns current state of Message Encryption Mode optional message.

BANDWidth *n*
[MSS:RDCCH:ENABle:BANDWidth n]
Enables (*n* = 1) or disables (*n* = 0) Bandwidth optional message.

BANDWidth?
[MSS:RDCCH:ENABle:BANDWidth?]
Returns current state of Bandwidth optional message.

CALLING:

PRESentation *n*
[MSS:RDCCH:ENABle:CALLING:PRESentation n]
Enables (*n* = 1) or disables (*n* = 0) Calling Party Number Presentation Indicator optional message.

PRESentation?
[MSS:RDCCH:ENABle:CALLING:PRESentation?]
Returns current state of Calling Party Number Presentation Indicator optional message.

ADDRess *n*
[MSS:RDCCH:ENABle:CALLING:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) Calling Party Number optional message.

ADDRess?
[MSS:RDCCH:ENABle:CALLING:ADDRess?]
Returns current state of Calling Party Number optional message.

SUBaddress *n*
[MSS:RDCCH:ENABle:CALLING:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) Calling Party Subaddress optional message.

SUBaddress?
[MSS:RDCCH:ENABle:CALLING:SUBaddress?]
Returns current state of Calling Party Subaddress optional message.

MSS:RDCCH:

ENABle:

CALLED:

SUBaddress *n*
[MSS:RDCCH:ENABle:CALLED:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) Called Party Subaddress optional message.

SUBaddress?
[MSS:RDCCH:ENABle:CALLED:SUBaddress?]
Returns current state of Called Party Subaddress optional message.

MESSage:CENTer:

ADDRess *n*
[MSS:RDCCH:ENABle:MESSage:CENTer:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) Message Center Address optional message.

ADDRess?
[MSS:RDCCH:ENABle:MESSage:CENTer:ADDRess?]
Returns current state of Message Center Address optional message.

USER:

GROUP *n*
[MSS:RDCCH:ENABle:USER:GROUP n]
Enables (*n* = 1) or disables (*n* = 0) User Group optional message.

GROUP?
[MSS:RDCCH:ENABle:USER:GROUP?]
Returns current state of User Group optional message.

DEST:

ADDRess *n*
[MSS:RDCCH:ENABle:USER:DEST:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) User Destination Address optional message.

ADDRess?
[MSS:RDCCH:ENABle:USER:DEST:ADDRess?]
Returns current state of User Destination Address optional message.

SUBaddress *n*
[MSS:RDCCH:ENABle:USER:DEST:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) User Destination Subaddress optional message.

SUBaddress?
[MSS:RDCCH:ENABle:USER:DEST:SUBaddress?]
Returns current state of User Destination Subaddress optional message.

MSS:RDCCH:

ENABle:

USER:

ORIG:

ADDRess *n*
[MSS:RDCCH:ENABle:USER:ORIG:ADDRess n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Address optional message.

ADDRess?
[MSS:RDCCH:ENABle:USER:ORIG:ADDRess?]
Returns current state of User Originating Address optional message.

SUBaddress *n*
[MSS:RDCCH:ENABle:USER:ORIG:SUBaddress n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Subaddress optional message.

SUBaddress?
[MSS:RDCCH:ENABle:USER:ORIG:SUBaddress?]
Returns current state of User Originating Subaddress optional message.

PRES:

PI *n*
[MSS:RDCCH:ENABle:USER:ORIG:PRES:PI n]
Enables (*n* = 1) or disables (*n* = 0) User Originating Address Presentation Indicator optional message.

PI?
[MSS:RDCCH:ENABle:USER:ORIG:PRES:PI?]
Returns current state of User Originating Address Presentation Indicator optional message.

RDATA:

DELay *n*
[MSS:RDCCH:ENABle:RDATA:DELay n]
Enables (*n* = 1) or disables (*n* = 0) R-DATA Delay optional message.

DELay?
[MSS:RDCCH:ENABle:RDATA:DELay?]
Returns current state of R-DATA Delay optional message.

CNUMber *n*
[MSS:RDCCH:ENABle:CNUMber n]
Enables (*n* = 1) or disables (*n* = 0) C-Number optional message.

CNUMber?
[MSS:RDCCH:ENABle:CNUMber?]
Returns current state of C-Number optional message.

MSS:RDCCH:

ENABle:

PFC:

REQuest *n*
[MSS:RDCCH:ENABle:PFC:REQuest n]
Enables (*n* = 1) or disables (*n* = 0) PFC Request optional message.

REQuest?
[MSS:RDCCH:ENABle:PFC:REQuest?]
Returns current state of PFC Request optional message.

SID_REPort *n*
[MSS:RDCCH:ENABle:SID_REPort n]
Enables (*n* = 1) or disables (*n* = 0) SID Report optional message.

SID_REPort?
[MSS:RDCCH:ENABle:SID_REPort?]
Returns current state of SID Report optional message.

E. BUILDING A RACH MESSAGE

MSS:RDCCH:

BUILD
[MSS:RDCCH:BUILD]

Builds the data that makes up a RACH message.

Before executing this command, the message types and data fields that make up the RACH should be programmed. This command then takes the message types and data fields and generates all the data that makes up the data field in each slot of the RACH message.

After executing this command, the data can returned by the **MSS:RDCCH:DATA?** command defined below. The RACH message generator can then be programmed with the **MSS:RDCCH:PROGRAM** command defined below.

LENGth?
[MSS:RDCCH:LENGth?]

Returns Length of the RDCCH in number of slots.

Use this command after the build command (**MSS:RDCCH:BUILD**) has been executed.

DATA? *n,m*
[MSS:RDCCH:DATA? n,m]

Returns RDCCH data that has been built.

Returns current 16 bit value of selected word (*m*) in selected slot (*n*). Range of *n* is 0 to 319; range of *m* is 0 to 6.

The length of each slot is 101 bits (normal) or 79 bits (abbreviated) long. The data in each slot may returned, 16 bits at a time. The data bits in each word are left justified. The 16 most significant bits of the data are returned when *m* = 0. If the message is normal length, the 5 least significant bits of data are returned when *m* = 6. If the message is abbreviated length, then the 15 least significant bits of data are returned when *m* = 4.

This data format correlates with the data format used in the **MSS:RDCCH:MESSAGE:DATA** command. Therefore, the data in the message can be programmed by transferring the data, one word at a time, to the message generator. This enables the user to modify the data (i.e. scramble data, repeat a frame, change the CI bit) before programming the message generator. If a straight transfer of data is desired, then use the **MSS:RDCCH:PROGRAM** command. If that command is not used, then set the length of the message with the **MSS:RDCCH:LENGTH?** command.

MSS:RDCCH:

PROGram
[MSS:RDCCH:PROGram]
Programs the RACH Message Generator with the data constructed by the **MSS:RDCCH:BUILD** command.

This command automatically determines the length of the RACH message built and overwrites the any length that may have been established by the **MSS:RDCCH:MESSAGE:LENGTH** command.

The RACH message is not sent with this command, but is sent with the **MSS:RDCCH:MESSAGE:SEND** command.

9-13-6 REVERSE DIGITAL TRAFFIC CHANNEL (RDTC) MOBILE SIMULATION

MSS:RDTC:

START
[MSS:RDTC:START]
Starts transmitting on the RDTC.

Sp Tst transmits on the RDTC only when receiving a valid FDTC signal.

STOP
[MSS:RDTC:STOP]
Stops transmitting on the RDTC.

DVCC *n*
[MSS:RDTC:DVCC n]
Specifies the DVCC transmitted on the RDTC. Range of *n* is 1 to 255.

DVCC?
[MSS:RDTC:DVCC?]
Returns current value of DVCC.

TA *n*
[MSS:RDTC:TA n]
Specifies time alignment adjustment from Standard Offset Reference (SOR) in half symbols. Range of *n* is -10 to 60. *n* = 0 specifies no time alignment adjustment.

TA?
[MSS:RDTC:TA?]
Returns current value of time alignment adjustment from Standard Offset Reference (SOR) in half symbols.

LENGth:

NORMal
[MSS:RDTC:LENGth:NORMal]
Selects Normal length burst.

SHORTened
[MSS:RDTC:LENGth:SHORTened]
Selects Shortened length burst.

VOCoder:

VSELP
[MSS:RDTC:VOCoder:VSELP]
Selects VSELP vocoder.

ACELP
[MSS:RDTC:VOCoder:ACELP]
Selects ACELP vocoder.

MSS:RDTC:

FACCH: or **SACCH:**

RAW *n1,n2,n3,n4,n5,n6...*
[MSS:RDTC:FACCH: or SACCH:RAW n1,n2,n3,n4,n5,n6...]
Sends a RAW message on the RDTC. Each *nx* represents an argument.

The number of arguments is variable, but must be a multiple of 6 to operate properly.

9-13-7 REVERSE VOICE CHANNEL (RVC) MOBILE SIMULATION

MSS:RVC:

START
[MSS:RVC:START]
Starts transmitting on the RVC.

STOP
[MSS:RVC:STOP]
Stops transmitting on the RVC.

SAT *n*
[MSS:RVC:SAT n]
Specify the value of Supervisory Audio Tone used on the RVC. The following are valid values for *n*: 0 (to turn off SAT) and 5965 to 6035.

SAT?
[MSS:RVC:SAT?]
Returns the current value of SAT.

9-14 BER COMMANDS

BER commands measure the receive Bit Error Rate (BER) of a Base Station. BER is calculated for **BER:RDTC:DATA:USER** and **BER:RDTC:DATA:PSEUDO**. **BER:RDTC:DATA:LOOPBACK** and **BER:RDTC:DATA:45MHZ_OFFset** enable the Base Station to measure its own BER.

BER:RDTC:

SETup
[BER:RDTC:SETup]
Sets up the Sp Tst as when entering the Base Station Digital Traffic BER screen (screen is not displayed). The HOST is forced into Duplex Mode through selection of Duplex screen.

CHANnel *n*
[BER:RDTC:CHANnel n]
Sets RF Channel. Range of *n* is 0 to 2047.

SLOT *n*
[BER:RDTC:SLOT n]
Selects Digital Traffic Timeslot. Range of *n* is 1 to 3.

RFLVL *n*
[BER:RDTC:RFLVL n]
Sets RF Level in dBm. Range of *n* is -127.0 to -20.0.

DATA:

USER
[BER:RDTC:DATA:USER]
Sends user-selected data. (RDTC data is specified in the User Defined Data Field Setup screen).

RDTC data is specified in the User Defined Data Field Setup screen. Data must be set prior to initiating this command. See Operation Manual for details.

PSeudo
[BER:RDTC:DATA:PSeudo]
Sends pseudo-random data.

LOOPBACK
[BER:RDTC:DATA:LOOPBACK]
Sends data received from Base Station in the FDTC Slot format back to the Base Station in the RDTC Slot format (for Base Stations with self BER test capabilities).

45MHZ_OFFset
[BER:RDTC:DATA:45MHZ_OFFset]
Down-converts frequency 45 MHz and retransmits data.

GO
[BER:RDTC:GO]
Starts Base Station Digital Traffic BER test.

STOP
[BER:RDTC:STOP]
Stops Base Station Digital Traffic BER test.

BER:RDTC:

BITS?
[BER:RDTC:BITS?]
Returns number of bits.

ERRORS?
[BER:RDTC:ERRORS?]
Returns number of bit errors.

BER?
[BER:RDTC:BER?]
Returns Bit Error Rate (percentage).

CLEAR
[BER:RDTC:CLEAR]
Clears current results.

STATUS?
[BER:RDTC:STATUS?]
Returns synchronous data status (1 if Base Station cannot sync up to the data; 0 otherwise).

9-15 MODULATION ACCURACY COMMANDS

Modulation Accuracy commands measure the π/4DQPSK modulation of Base Station signals.

MODacc:FDTC:

SETup
[MODacc:FDTC:SETup]
Sets up the Sp Tst as when entering the Modulation Accuracy screen (screen is not displayed.). The HOST is forced into the Duplex Mode through selection of the Duplex Operation screen.

CHANnel *n*
[MODacc:FDTC:CHANnel n]
Sets RF Channel. Range of *n* is 0 to 2047.

RUN?
[MODacc:FDTC:RUN?]
Starts Modulation Accuracy measurements and returns adjusted AGC value.

COMPlete?
[MODacc:FDTC:COMPlete?]
Returns test status (1 if complete or 0 if not complete). (Test takes ≈25 seconds.)

EVM?
[MODacc:FDTC:EVM?]
Returns RMS Error Vector Magnitude in percent.

FREQ_ERRor?
[MODacc:FDTC:FREQ_ERRor?]
Returns Frequency Error in hertz.

IQ_OFFset?
[MODacc:FDTC:IQ_OFFset?]
Returns I/Q Offset in dB.

MAG_ERRor?
[MODacc:FDTC:MAG_ERRor?]
Returns RMS Magnitude Error in percent.

PHASE_ERRor?
[MODacc:FDTC:PHASE_ERRor?]
Returns RMS Phase Error in degrees.

POWer:

FDTC: or RDTC

- **FDTC** is used when performing TDMA power measurements on a **Base** Station.
- **RDTC** is used when performing TDMA power measurements on a **Mobile** Station.

SETup
[POWer:FDTC: or RDTC:SETup]
Configures the Sp Tst to measure TDMA power on a Digital Traffic Channel (DTC).

CHANnel *n*
[POWer:FDTC: or RDTC:CHANnel n]
Specifies DTC channel on which to perform TDMA power measurement. Range of n is 1 to 1999.

ZERO
[POWer:FDTC: or RDTC:ZERO]
Sets the Power Meter to a zero power reference at the T/R Connector.

Remove any signal from the T/R Connector.

MEASure?
[POWer:FDTC: or RDTC:MEASure?]
Returns TDMA power (mW) on a DTC applied to the T/R Connector.

The value returned by this command is the TDMA power measured at the T/R Connector **plus** the value specified in the **POWer:FDTC:CABLE:LOSS** command.

FDTC:

CABLE:LOSS *n*
[POWer:FDTC:CABLE:LOSS n]
Specifies loss (+) or gain (-) in dB between signal source and T/R Connector. Range of *n* is -50.0 to 50.0.

MEASLow? *n*
[POWer:FDTC:CABLE:MEASLow? n]
Returns TDMA power (dBm) on a DTC applied to the Antenna Connector. Range of *n* is 0 to 1. For ***n* = 1**, low power initialization of Power Meter is performed prior to returning measured value; ***n* = 0**, no low power initialization is performed.

- Used for performing power measurements in the -40 to -10 dBm range.
- Low power initialization (*n* = 1) is required the first time this command is executed after any other Sp Tst TMAC function is performed; otherwise, using *n* = 0 is recommended.
- Intended for Base Station measurements only.

MEASure:

SAT?
[MEASure:SAT?]
Returns Supervisory Audio Tone frequency reading in Hz.

ST?
[MEASure:ST?]
Returns Signal Tone frequency reading in Hz.

9-17 FLASH MEMORY COMMANDS

The mass memory (**MMEMory**) subsystem provides the Flash Memory storage capability of the Sp Tst. Memory files are displayed in the Flash Files Directory. 512 directory entries are available to store Test Set states, Macro programs, or Calibration data. File names are strings, limited to eight characters. The system promotes all lower case file name characters to upper case.

Files are stored in Flash Memory using remote commands only. Calibration Data Sets and Test Set States are recalled using remote commands or as part of executable macros.

The following remote commands used to operate the Flash Files Directory:

MMEMory:

CATalog?
[MMEMory:CATalog?]
Returns Flash Memory status. First number returned is memory space used in bytes. Second number returned is memory space available in bytes. Remainder data is returned in sets of 3 consisting of file name, file type and file size for each file stored in Flash Memory.

CATalog:

ENTRY? *n*
[MMEMory:CATalog:ENTRY? n]
Returns file entry (file name, file type, file size) for given index. Returns $$$ if past end of directory or --- for deleted file. *n* is line number (index) in Flash Files Directory. Range of *n* is 0 to 512.

USED?
[MMEMory:CATalog:USED?]
Returns file space used in bytes.

FREE?
[MMEMory:CATalog:FREE?]
Returns available file space in bytes.

DELete *"f"*
[MMEMory:DELete "f"]
Deletes file but does not release memory space until Pack operation is done. *f* is file name.

MMEMory:

INITialize
[MMEMory:INITialize]
Erases all files stored in Flash Memory.

INITialize?
[MMEMory:INITialize?]
Returns 1 if file system has been initialized, 0 otherwise.

LOAD:MACRo *"m","f"*
[MMEMory:LOAD:MACRo "m","f"]
Loads macros and variables stored as the file name from Flash Memory into Test Set memory. *m* is name of designated macro. *f* is file name. If *m* is *, designated macro is executed. If *m* is macro name, that macro is executed. If *m* is omitted (""), no macro is executed.

PACK
[MMEMory:PACK]
Packs Flash Memory and frees memory space from deleted files.

Powering off Test Set during Pack function may result in the loss of files.

STORe:MACRo *"m","f"*
[MMEMory:STORe:MACRo "m","f"]
Stores all loaded macros and variables (except free variables) into Flash Memory since power-up or last *PMC (Purge Macro) command. *m* is name of macro designated as entry point for file (*f*) executed from Flash Files Directory (see Appendix C of Operation Manual).

Error messages are returned to the HOST when they occur. Refer to Table 9-4 for a description of Flash Memory error messages.

ERROR NUMBER	ERROR DEFINITION	DESCRIPTION
220	Parameter Error	Incorrect number of parameters were entered with command.
224	Illegal Parameter Value	A parameter entered was not appropriate for command.
225	Out of Memory	Insufficient memory space to perform command.
250	Flash Storage Error	Indicates Flash Memory could not be erased or data could not be stored in Flash Memory.
253	Corrupt Media	Indicates Flash Memory not properly initialized. Initialize Flash Memory.
254	Media Full	Indicates insufficient Flash Memory space to perform command.
255	Directory Full	Indicates command not performed because 512 file names have been used.
256	File Name Not Found	Specified file not stored in Flash Memory.
257	File Name Error	Indicates command attempted to create file name already stored or file name syntax incorrect.

Table 9-4 Flash Memory Error Messages

9-18 MISCELLANEOUS COMMANDS

TICKs?
[TICKs?]
Returns current millisecond tick count. This is a counter that increments every millisecond from the moment the Sp Tst is powered up.

KCLAIM
[KCLAIM]
Claims the HOST keypad.

Same as **HOST ":KEYPAD:CLAIM"**.

KUNCLAIM
[KUNCLAIM]
Unclaims the HOST keypad.

Same as **HOST ":KEYPAD:UNCLAIM"**.

Macros that executed from the Sp Tst Flash File directory do not need to claim the keypad. The keypad is already claimed upon entering special test (Sp Tst).

SPRINTF? *format,...*
[SPRINTF? format,...]
Performs a formatted print into a string. The number of parameters is variable. The first parameter always specifies the format of the **SPRINTF**. There must be a format for every parameter present.

Example:
```
string str
str = sprintf? "%04X",4096
print str                          // Result:  1000

str = sprintf? "%04x%04x",4096,4095
print str                          // Result:  10000FFF
```

9-19 TMAC SPECIAL EDITING COMMANDS

This section describes and provides examples of the various editing features of the Sp Tst. The commands in this section enable the user to build an edit field on the screen of the HOST and return a value into a variable.

For each to the following TMAC edit commands (except for **EDIT:ACTivity**), the first key pressed on the HOST keypad is used as the first parameter. Therefore, the first key must be pressed prior to calling the **EDIT:XXX?** command. This key is used as an input to the editing function, thus starting the editing process. The editing process continues until the ENTER Key or ESC softkey is pressed. (In each of these commands, the F6 softkey is labeled "ESC.")

A. TMAC COMMANDS.

EDIT:

UINT? *key,old,x,y,min,max*
[EDIT:UINT? key,old,x,y,min,max]
Displays an existing Unsigned Number at a specified location on the HOST screen, accepts the edit (within the limits specified) of the existing number and returns the resulting Unsigned Number. See Table 9-5 for details on each of the parameters. (See macro EDITUINT in Example B1.)

PARAMETER	DESCRIPTION
key	Value of the key pressed before this command is called. [Value returned with val(host? ":syst:key?") command.] See Appendix B, Front Panel Keys and Keycodes.
old	Previous or initial value of the edited field.
x	Column number (in pixels) of the HOST screen. Screen is 640 x 350 pixels. Range of *x* is 0 to 639.
y	Row number (in pixels) of the HOST screen. Screen is 640 x 350 pixels. Range of *y* is 0 to 349.
min	Minimum value allowed by the editing function.
max	Maximum value allowed by the editing function.
nv	Number of valid digits. Range of *nv* is 1 to 32.
MIN	Mobile Identification Number. The format of the MIN is "123/456-7890."
wild	Allows (1) or does not allow (0) wild card placeholders.
prec	Precision. A floating point number which indicates the number of digits before and after the decimal point, as in <before>,<after>. Example: 2.3 indicates 2 digits before and 3 digits after the decimal point.
digits	Previous or initial value of digits of the field to be edited. *digits* is a string consisting of 1 to 30 characters.
lines	Number of lines of text of the field to be edited. Range of *lines* is 1 to 14.
chars	Number of W's that fit on a single line. Range of *chars* is 1 to 25. (Note: The letter W is the widest character in the character set used in the Test Set.)
mode	Edit mode: 0 = Text or 1 = Digits Only.

Table 9-5 Parameters for Sp Tst Editing Commands

EDIT:

INT? *key,old,x,y,min,max*
[EDIT:INT? key,old,x,y,min,max]
Displays an existing Signed Number at a specified location on the HOST screen, accepts the edit (within the limits specified) of the existing number and returns the resulting Signed Number. See Table 9-5 for details on each of the parameters. (See macro EDITINT in Example B2.)

HEX? *key,old,x,y,nv*
[EDIT:HEX? key,old,x,y,nv]
Displays an existing Hexadecimal Number at a specified location on the HOST screen, accepts the edit (within the maximum number of digits specified) of the existing number and returns the resulting Hexadecimal Number. See Table 9-5 for details on each of the parameters. (See macro EDITHEX in Example B3.)

BIN? *key,old,x,y,nv*
[EDIT:BIN? key,old,x,y,nv]
Displays an existing Binary Number at a specified location on the HOST screen, accepts the edit (within the maximum number of digits specified) of the existing number and returns the resulting Binary Number. See Table 9-5 for details on each of the parameters. (See macro EDITBIN in Example B4.)

MIN? *key,MIN,x,y,wild*
[EDIT:MIN? key,MIN,x,y,wild]
Displays an existing Mobile Identification Number at a specified location on the HOST screen, accepts the edit (with wild card characters if specified) of the existing MIN and returns the resulting MIN in a string. See Table 9-5 for details on each of the parameters. (See macro EDITMIN in Example B5.)

FLOAT? *key,old,x,y,prec,min,max*
[EDIT:FLOAT? key,old,x,y,prec,min,max]
Displays an existing Floating Point Number of a designated precision at a specified location on the HOST screen, accepts the edit (within the limits specified) of the existing number and returns the resulting Floating Point Number. See Table 9-5 for details on each of the parameters. (See macro EDITFLOAT in Example B6.)

DIGITS? *key,digits,x,y*
[EDIT:DIGITS? key,digits,x,y]
Displays an existing Number Field up to 30 digits long at a specified location on the HOST screen, accepts the edit (within the 30 digit limit) of the existing number field and returns the resulting Number Field in a string. See Table 9-5 for details on each of the parameters. (See macro EDITDIGITS in Example B7.)

The following special edit keys may be used:

HOST KEY	FUNCTION
Data Scroll ←	Moves Cursor to the Left within the Text Window.
Data Scroll →	Moves Cursor to the Right within the Text Window.
DEL	Deletes a Character.
CE	Deletes all Characters in the Text Window.

EDIT:

TEXT? *key,old,x,y,lines,char,mode*
[EDIT:TEXT? key,old,x,y,lines,char,mode]
Displays an existing variable length Text Message at a specified location on the HOST screen, accepts the edit of the existing Text Message and returns the resulting Text Message in a string. The edited Text Message can be specified to be text or digits only. See Table 9-5 for details on each of the parameters.

The same special edit keys allowed for **EDIT:DIGITS?** may be used plus the following:

HOST KEY	FUNCTION
CAPS (softkey F1)	Toggles between Upper and Lower Case Mode.

Notes:

- The F1 (CAPS) and F6 (ESC) Softkeys is re-labeled by this command and are automatically restored to their original condition when the edit session is over.
- The edit activity flag can be checked (see **EDIT:ACTivity?**) to see if the text buffer was changed.
- Only up to 128 characters can be included in the text buffer.

ACTivity *n*
[EDIT:ACTivity n]
Enables (*n* = 1) or disables (*n* = 0) the Edit Activity Flag.

Prior to executing any of the **EDIT:XXX?** commands, the Edit Activity Flag should be set to 0 with this command; the Edit Activity Flag can then be checked (with **EDIT:ACTivity?**) to determine if the edit routine changed anything.

ACTivity?
[EDIT:ACTivity?]
Returns the current state of the Edit Activity Flag.

ECHO *n*
[EDIT:ECHO n]
Enables (*n* = 1) or disables (*n* = 0) the echoing back to the terminal or controller, the commands sent remotely to the IFR-1900 CSA.

ECHO?
[EDIT:ECHO?]
Returns the current state of the remote echo setting.

B. EXAMPLES.

1. Macro: *EDITUINT*

The macro EDITUINT illustrates the use of the TMAC command **EDIT:UINT?** to create an edit field on the screen of the HOST to edit an unsigned integer (an unsigned integer is defined as any integer that is greater than or equal to 0). In the following example, the value of the edit field is initialized to 100; the maximum value that can be edited is 1024. The following steps are performed:

- Calculates the pixel width of a 4 digit field.
- The user screen is selected, and the Front Panel Keypad is claimed.
- The initialize value is printed using a right justified print to the x,y location 100,100.
- An edit box is created that is large enough to hold the largest number possible (1024).
- Wait until a key is pressed on the Front Panel on the HOST.
- After key is pressed, TMAC command, **EDIT:ACT 0**, initializes an internal flag that is used later to determine if any edit activity occurred or if "ESC" Soft Function Key F6 is pressed.
- TMAC command **EDIT:UINT?** is executed. This command opens up the edit activity at x,y location 100,100. The size of the editing window is based on the min/max value. The min/max value in this example is 0 to 1024.
- *a* specifies the key that was just pressed on the Front Panel. *b* is the initial value of the field which is to be displayed if "ESC" Soft Function Key F6 is pressed.
- The TMAC command **EDIT:UINT?** continues to run until the user presses the ENTER Key or "ESC" Soft Function Key F6. During this time, the user may change the value of the field by using the Data Entry Keypad, Data Scroll Keys or Spinner.
- When the ENTER Key is pressed, the **EDIT:UINT?** command returns the new value. If the "ESC" Soft Function Key F6 is pressed, the initial value (100) is returned.
- The value returned is printed out the OPT. RS-232 Connector.
- If **EDIT:ACT?** returns a 1, indicating edit activity, the "ESC" label of Soft Function Key F6 is erased.
- The Front Panel Keypad is returned to normal IFR-1900 CSA operation (unclaimed).

```
*dmc "edituint", begin
  var width

  width = pixlen? "1234"                  // Width of field in pixels.
  host ":screen:user;*wai"                // Select the user screen.
  host ":keypad:claim"                    // Claim the HOST
                                          // keypad.

  b = 100                                 // Set initial value.

  rjprint b,100,100,width                 // Right justify print initial
                                          // value.

  box 0,100-1,100-1,100+width+1,100+20,white  // Create edit box.

  do
    a = val(host? ":syst:key?")           // Wait for input from keypad.
  until a != -1

  :edit:act 0                             // Set edit activity to 0.
  b = :edit:uint? a,b,100,100,0,1024      // Perform unsigned integer
                                          // editing.
  print b                                 // Print result to RS-232.

  if (:edit:act?)
    label 6,''                            // Erase ESC label.
  endif
  host ":keypad:unclaim"                  // Give the keypad back to
                                          // HOST.
end                                       // End of macro EDITUINT.
```

2. Macro: *EDITINT*

The macro EDITINT operates identical to EDITUINT except for the type of number that can be edited. An integer can be a positive or negative number. In the following example, the number edited can be any integer from -1024 to 1024.

```
*dmc "editint", begin
  var width

  width = pixlen? "-1234"                  // Width of field in pixels.
  host ":screen:user;*wai"                 // Select the user screen.
  host ":keypad:claim"                     // Claim the HOST
                                           // keypad.

  b = 100                                  // Set initial value.

  rjprint b,100,100,width                  // Right justify print initial
                                           // value.

  box 0,100-1,100-1,100+width+1,100+20,white  // Create edit box.

  do
    a = val(host? ":syst:key?")            // Wait for input from keypad.
  until a != -1

  :edit:act 0                              // Set edit activity to 0.

  b = :edit:int? a,b,100,100,-1024,1024    // Perform signed integer
                                           // editing.
  print b                                  // Print result to RS-232.

  if (:edit:act?)
    label 6,''                             // Erase ESC label.
  endif
  host ":keypad:unclaim"                   // Give the keypad back to
                                           // HOST.

end                                        // End of macro EDITINT.
```

3. Macro: *EDITHEX*

The macro EDITHEX demonstrates the editing of a number formatted in hexadecimal (also referred to base 16). This macro is very similar to EDITUINT. The main difference is that the number is now displayed and edited as a hexadecimal number instead of a decimal number.

The TMAC command **EDIT:HEX?** does not have a parameter that specifically identifies the min/max value. Instead *nv* is utilized that specifies the number values that make up the hexadecimal number field. In the following example, *nv* = 4, which indicates that the range of edit is 0000 to FFFF.

```
*dmc "edithex", begin
  var width

  width = pixlen? "AAAA"                  // Width of field in pixels.
  host ":screen:user;*wai"                // Select the user screen.
  host ":keypad:claim"                    // Claim the HOST
                                          // keypad.

  b = #h64                                // Set initial value.

  xyprint 100,100,%04h,b                  // Print initial value.

  box 0,100-1,100-1,100+width+1,100+20,white  // Create edit box.

  do
    a = val(host? ":syst:key?")           // Wait for input from keypad.
  until a != -1

  :edit:act 0                             // Set edit activity to 0.
  b = :edit:hex? a,b,100,100,4            // Perform editing of a
                                          // number.
                                          // in hex format.
  print %h,b                              // Print result to RS-232.

  if (:edit:act?)
    label 6,''                            // Erase ESC label.
  endif
  host ":keypad:unclaim"                  // Give the keypad back to
                                          // HOST.

end                                       // End of macro EDITHEX.
```

4. Macro: *EDITBIN*

The macro EDITBIN is very similar to EDITHEX. The main difference being that the number is displayed and edited as a binary number instead of a hexadecimal number.

```
*dmc "editbin", begin
  var width

  width = pixlen? "1100100"              // Width of field in pixels.
  host ":screen:user;*wai"               // Select the user screen.
  host ":keypad:claim"                   // Claim the HOST
                                         // keypad.

  b = #b1100100                          // Set initial value.

  xyprint 100,100,%07b,b                 // Print initial value.

  box 0,100-1,100-1,100+width+1,100+20,white  // Create edit box.

  do
    a = val(host? ":syst:key?")          // Wait for input from keypad.
  until a != -1

  :edit:act 0                            // Set edit activity to 0.
  b = :edit:bin? a,b,100,100,7           // Perform editing of a number
                                         // in binary format.
  print b                                // Print result to RS-232.

  if (:edit:act?)
    label 6,''                           // Erase ESC label.
  endif
  host ":keypad:unclaim"                 // Give the keypad back to
                                         // HOST.

end                                      // End of macro EDITBIN.
```

5. Macro: *EDITMIN*

The macro EDITMIN demonstrates the use of TMAC command **EDIT:MIN?** to edit a Mobile Identification Number (MIN). The **EDIT:MIN?** command edits a MIN that is in the format: XXX/XXX-XXXX. The flow of the following example is the same as EDITUINT; the main difference being that the value returned from **EDIT:MIN?** is a string.

```
*dmc "editmin", begin
  var width
  string min

  width = pixlen? "111/111-0111"          // Width of field in pixels.
  host ":screen:user;*wai"                // Select the user screen.
  host ":keypad:claim"                    // Claim the HOST
                                          // keypad.

  min = "111/111-0111"                    // Set initial value.

  rjprint min,100,100,width               // Right justify print initial
                                          // value.

  box 0,100-1,100-1,100+width+1,100+20,white  // Create edit box.

  do
    a = val(host? ":syst:key?")           // Wait for input from keypad.
  until a != -1

  :edit:act 0                             // Set edit activity to 0.
  min = :edit:min? a,min,100,100,0        // Perform editing of a MIN.
  print min                               // Print result to RS-232.

  if (:edit:act?)
    label 6,''                            // Erase ESC label.
  endif
  host ":keypad:unclaim"                  // Give the keypad back to
                                          // HOST.

end                                       // End of macro EDITMIN.
```

6. Macro: *EDITFLOAT*

The macro EDITFLOAT is the same as EDITUINT, except for the type of number that can be edited. A floating point number is defined as a positive or negative number that may include a fractional part. In the following example, the number edited can be any number from -128.0 to -30.0. The format of the floating point number is specified by *prec* of the **EDIT:FLOAT?** TMAC command. In the following example, *prec* is set to 3.1.

```
*dmc "editfloat", begin
  var width

  width = pixlen? "-128.0"                  // Width of field in pixels.
  host ":screen:user;*wai"                  // Select the user screen.
  host ":keypad:claim"                      // Claim the HOST
                                            // keypad.

  b = -30.0                                 // Set initial value.

  xyprint 100,100,%6.1d,b                   // Print initial value.

  box 0,100-1,100-1,100+width+1,100+20,white  // Create edit box.

  do
    a = val(host? ":syst:key?")             // Wait for input from keypad.
  until a != -1

  :edit:act 0                               // Set edit activity to 0.
  b = :edit:float? a,b,100,100,3.1,-128.0,-30.0  // Perform editing
                                                 // of a floating
                                                 // number.
  print b                                   // Print result to RS-232.

  if (:edit:act?)
    label 6,''                              // Erase ESC label.
  endif
  host ":keypad:unclaim"                    // Give the keypad back to
                                            // HOST.

end                                         // End of macro EDITFLOAT.
```

7. Macro: *EDITDIGITS*

The macro EDITDIGITS is very similar to EDITMIN. In the following example, a string of digits is edited as in EDITMIN. The main difference being that the maximum number of digits is 30 and the slash (/) and dash (-) are not present. An edit box is created based on the width and depth of a string of up to 30 digits, consisting of 2 lines, each 15 digits long.

```
*dmc "editdigits", begin
  var width
  string digits

  width = pixlen? "012345678901234"    // Width of field in pixels.
  host ":screen:user;*wai"             // Select the user screen.
  host ":keypad:claim"                 // Claim the HOST
                                       // keypad.

  digits = "012345678901234"           // Set initial value.

  rjprint digits,100,100,width         // Right justify print initial
                                       // value.

  box 0,100-1,100-1,100+width+1,100+20,white  // Create edit box.

  do
    a = val(host? ":syst:key?")        // Wait for input from keypad.
  until a != -1

  :edit:act 0                          // Set edit activity to 0.
  digits = :edit:digits? a,digits,100,100  // Perform editing of a
                                           // field containing up to
                                           // 30 digits.
                                       // in binary format.
  print digits                         // Print result to RS-232.

  if (:edit:act?)
    label 6,''                         // Erase ESC label.
  endif
  host ":keypad:unclaim"               // Give the keypad back to
                                       // HOST.

end                                    // End of macro EDITDIGITS.
```

SECTION 10 - SPECIAL TEST PROGRAM EXAMPLES

10-1 GENERAL

This Section provides some general guidelines and examples of remote operation and macro programs using Special Test ("Sp Tst") specific commands. All macros are executed remotely through the OPT. RS-232 Connector.

Refer to Section 4, Creating and Uploading TMAC Programs, for any addtional instructions using the macros/programs in this section.

The following TMAC programs are available via the World Wide Web at **http://www.ifrsys.com/download/download.html**. The macros shown in Sections 10-2 through 10-11 (except for 10-8-2 and 10-8-8) are contained in a self-extracting zip file named **sample.exe**, and the macros in Section 10-12 are contained in a self-extracting zip file named **dcchcss.exe**.

10-2 FORWARD CONTROL CHANNEL (FOCC)

10-2-1 MONITORING DECODED DATA

MACRO NAME: focc_page

SYNTAX: focc_page *n*
(*n*=FOCC channel number, 1 to 1023.)

PURPOSE: Look for Page orders on the FOCC.
If and when found, print out the MIN and time of day for each occurrence.
(Macro continues until key is pressed on the RS-232 terminal.)

EXAMPLE: focc_page 332

MACRO:

```
*dmc "focc_page",begin        // Define macro named focc_page.
focc:setup                    // Setup for receiving FOCC.
focc:start                    // Start decoding FOCC data.
focc:chan $1                  // Set RF Channel to value entered with macro.
focc:word:both                // Decode both Streams A and B.
do                            // Initiate do loop.
 tpause                       // Allow time for decoding.
 focc:stream:a                // Select Stream A for response.
 $=focc:order?                // Return order as string variable $.
 if ($="PAGE")                // Look for a Page order.
  $=focc:min?                 // Return MIN as string variable $.
  print $," ",syst:time?      // Print MIN and time to OPT. RS-232 Connector.
 endif
 tpause                       // Allow time for decoding.
 focc:stream:b                // Select Stream B for response.
 $=focc:order?                // Return order as string variable $.
 if ($="PAGE")                // Look for a Page order.
  $=focc:min?                 // Return MIN as string variable $.
  print $," ",syst:time?      // Print MIN and time to OPT. RS-232 Connector.
 endif
until key?                    // Do until key pressed on RS-232 terminal.
end                           // End macro focc_page.
```

10-2-2 MONITORING RAW DATA

MACRO NAME: focc_raw

SYNTAX: focc_raw *n*
(*n*=FOCC channel number, 1 to 1023.)

PURPOSE: Monitor FOCC until Page order is detected.
If and when found, fill raw data buffer (100 words) and place Page order data at the 50% point.

EXAMPLE: focc_raw 332

MACRO:

```
*dmc "focc_raw",begin          // Define macro named focc_raw.
focc:setup                     // Setup for receiving FOCC.
focc:chan $1                   // Set RF Channel to value entered with macro.
focc:raw:word:both             // Monitor Streams A and B.
focc:capt:sel:order            // Select ORDER to capture on.
focc:raw:capt:page             // Select Page as order for capture.
focc:raw:trig 2                // Select middle trigger position.
focc:raw:start                 // Start monitoring raw FOCC data.
print "WAITING FOR PAGE"       // Print out through OPT. RS-232 Connector.
do                             // Initiate do loop.
 tpause                        // Allow time to capture PAGE order.
until key? or focc:raw:capt?   // Wait for capture condition to end do loop.
print "CAPTURED PAGE"          // Indicate Page order was found.
do                             // Initiate do loop.
 tpause                        // Allow time to fill data buffer.
until key? or focc:raw:full?   // Wait for full data buffer before ending do loop.
print "CAPTURE BUFFER FULL"    // Indicate data buffer is full.
i=focc:raw:capt:index?         // Return Page order position in data buffer as i.
a=focc:raw:ts? i               // Return time stamp of Page order as a.
print "A Data  Parity  Check    B Data  Parity  Check   Busy/Idle  TS"
                               /* Print out header for raw data. */
for i=0 to 99                  // Print out raw data through OPT. RS-232 Connector.
 print %07h,focc:raw:a:data? i," ",
 print %03h,focc:raw:a:parity? I,"     ",
 if ((focc:raw:a:check? i)=0)
  print "GOOD    ",
 else
  print "BAD     ",
 endif
 print %07h,focc:raw:b:data? i," ",
 print %03h,focc:raw:b:parity? I,"     ",
 if ((focc:raw:b:check? i)=0)
  print "GOOD    ",
 else
  print "BAD     ",
 endif
 print %2d,focc:raw:b_i? i,"       ",
 print %6d,(focc:raw:ts? i)-a
next i
focc:raw:stop                  // Stops raw data capture.
end                            // End macro focc_raw.
```

10-3 FORWARD VOICE CHANNEL (FVC)

10-3-1 MONITORING DECODED DATA

Specify SAT Color Code (**FVC:SCC**) before requesting decoded data.

MACRO NAME: fvc_char

SYNTAX: fvc_char *n*
(*n*=FVC channel number, 1 to 1023.)

PURPOSE: Monitor FVC until Flash with Information order is detected.
If and when found, display the characters sent in the Flash with Infomation order message.
(Macro continues until key is pressed on the RS-232 terminal.)

EXAMPLE: fvc_char 3

MACRO:

```
*dmc "fvc_char",begin          // Define macro named fvc_char.
fvc:setup                      // Setup for receiving FVC.
fvc:start                      // Start decoding FVC data.
fvc:chan $1                    // Set RF Channel to variable entered with macro.
delay 1000                     // Allow channel to settle.
meas:sat?                      // Throw away first SAT meas.
do
 a = meas:sat?
until key? or (abs(a-6000) < 50)
if(key?)
 print  "Aborted"
endif
fvc:scc :meas:sat?             // Select SCC to match SAT.
do                             // Initiate do loop.
 tpause                        // Allow time for Sp Tst tasks to run.
 $=fvc:order?                  // Return last decoded order as string variable $.
 if($="FLASH W/INFO")          // Compare order with Flash with Information.
  delay 3000                   // Allow time for order to complete first 16
  $=fvc:char1?                 //   characters.
  if($!="-1")                  // When available, print first 16 characters
   print $,                    //   out OPT. RS-232 Connector.
  endif
  $=fvc:char2?                 // Receive second set of 16 characters.
  if($!="-1")                  // When available, print second 16 characters
   print $                     //   out OPT. RS-232 Connector.
  else                         // If no second set of 16 characters received,
   print ""                    //   send carriage return out OPT. RS-232 Connector.
  endif
 endif
until key?                     // Do until key pressed on RS-232 terminal.
end                            // End macro fvc_char.
```

10-3-2 MONITORING RAW DATA

Set the FVC Capture Mode to NONE (**FVC:CAPT:SEL:NONE**) prior to initiating raw data queries.

MACRO NAME: fvc_raw

SYNTAX: fvc_raw *n*
(*n*=FVC channel number, 1 to 1023.)

PURPOSE: Collect raw data on the FVC.
Display five data words, starting with the first word as soon as received.

EXAMPLE: fvc_raw 3

MACRO:

```
*dmc "fvc_raw",begin          // Define macro named fvc_raw.
fvc:setup                     // Setup for receiving FVC.
fvc:chan $1                   // Set RF Channel to value entered with macro.
focc:capt:sel:none            // Eliminate FOCC capture interference.
fvc:raw:depth 5               // Set size of raw data buffer to 5 data words.
fvc:raw:start                 // Start collecting raw FVC data.
print "WAIT"                  // Indicate waiting out OPT. RS-232 Connector.
a=0                           // Set variable a to 0.
do                            // Initiate do loop.
 tpause                       // Allow time for Sp Tst tasks to run.
 b=fvc:raw:count?             // Return number of words in raw data buffer.
 if(a < b)                    // When new data is available, print data
  for i = a to b-1            //   information out OPT. RS-232 Connector.
   print %07h,fvc:raw:data? i,"  ",
   print %03h,fvc:raw:parity? i,"  ",
   a=fvc:raw:check? i
   if (a)                     // If a=1 (true), then CRC check is bad.
    print "BAD    ",          // Indicate bad CRC check out OPT. RS-232 Connector.
   else                       // If a=0 (false), then CRC check is good.
    print "GOOD   ",          // Indicate good CRC check out OPT. RS-232 Connector.
   endif
   print %5d,fvc:raw:ts? i    // Indicate time of data word out OPT RS-232
                              // Connector.
  next i                      // Show data information for all 5 data words.
  a=b                         // Prevent displaying same data twice.
 endif
until key? or b=5             /* Do until key pressed on RS-232 terminal
                                   or raw data buffer is full. */
end                           // End macro fvc_raw.
```

10-4 FORWARD DIGITAL TRAFFIC CHANNEL (FDTC)

10-4-1 MONITORING DECODED DATA

MACRO NAME: fdtc_msg

SYNTAX: fdtc_msg *n,x*
(*n*=FDTC channel number, 1 to 1023. *x*=timeslot, 1 to 3)

PURPOSE: Monitor FDTC.
Display FACCH and SACCH message types, each with respective DVCC.
(Macro continues until key is pressed on the RS-232 terminal.)

EXAMPLE: fdtc_msg 100,3

MACRO:

```
*dmc "fdtc_msg",begin          // Define macro named fdtc_msg.
fdtc:setup                     // Setup for receiving FDTC.
fdtc:chan $1                   // Set RF Channel to 1st value entered with macro.
fdtc:slot $2                   // Set Timeslot to 2nd value entered with macro.
fdtc:start                     // Start FDTC decoding.
do                             // Initiate do loop.
 tpause                        // Allow time for decoding.
 $=fdtc:facch:msg?             // Return FACCH message type as string variable.
 if($!="-1")                   // When available, indicate FACCH message type.
  print "Facch Message type is ",$
  print "DVCC is ",%ld,fdtc:dvcc?
 endif
 $=fdtc:sacch:msg?             // Return SACCH message type as string variable.
 if($!="-1")                   // When available, indicate SACCH message type.
  print "Sacch Message type is ",$
  print "DVCC is ",%ld,fdtc:dvcc?
 endif
until key?                     // Do until key pressed on RS-232 terminal.
end                            // End macro fdtc_msg.
```

10-4-2 MONITORING RAW DATA

Set size of data buffer (**FDTC:RAW:DEPTH**) prior to using raw data queries. Limit selected data word to a range from 0 to the **FDTC:RAW:DEPTH** setting minus one, for raw data queries.

MACRO NAME: fdtc_raw

SYNTAX: fdtc_raw *n,x*
(*n*=FDTC channel number, 1 to 1023. *x*=timeslot, 1 to 3)

PURPOSE: Collect FACCH raw data from FDTC.
Display 20 FACCH raw data words, starting with the first word as soon as received.

EXAMPLE: fdtc_raw 100,3

MACRO:

```
*dmc "fdtc_raw",begin          // Define macro named fdtc_raw.
fdtc:setup                     // Setup for receiving FDTC.
fdtc:chan $1                   // Set RF Channel to 1st value entered with macro.
fdtc:slot $2                   // Set Timeslot to 2nd value entered with macro.
fdtc:raw:sel:facch             // Select FACCH raw data for data buffer.
fdtc:raw:depth 20              // Set size of raw data buffer to 20 data words.
fdtc:raw:start                 // Start collecting raw FDTC data.
print "WAIT"                   // Indicate waiting out OPT. RS-232 Connector.
a=0                            // Set variable a to 0.
do                             // Initiate do loop.
 tpause                        // Allow time for Sp Tst tasks to run.
 b=fdtc:raw:count?             // Return number of words in raw data buffer.
 if(a < b)                     // When new data is available, print data
  for i = a to b-1             //      information out OPT. RS-232 Connector.
   print %2d,fdtc:raw:cf? i," ",
   for j=0 to 5                // Set range of j to indicate message byte.
    print %02h,fdtc:raw:mess? i,j
   next j                      // Show data for all 5 bytes.
   print " ",%4d,fdtc:raw:dvcc? i, " ",
   print %3d,fdtc:raw:time? i
  next i                       // Show data information for all 20 data words.
  a=b                          // Prevent displaying same data twice.
 endif
until key? or b=20             /* Do until key pressed on RS-232 terminal
                                    or raw data buffer is full. */
end                            // End macro fdtc_raw.
```

10-4-3 MONITORING IS-54 RAW DATA

MACRO NAME: fdtc_is54

SYNTAX: fdtc_is54 *n,x*
(*n*=FDTC channel number, 1 to 1023. *x*=timeslot, 1 to 3)

PURPOSE: Collect FDTC raw data corresponding to the IS-54B timeslot.
Display 100 raw data words when raw data buffer is full.
(Macro continues until key is pressed on the RS-232 terminal.)

EXAMPLE: fdtc_is54 100,3

MACRO:

```
*dmc "fdtc_is54",begin          // Define macro named fdtc_is54.
fdtc:setup                      // Setup for receiving FDTC.
fdtc:chan $1                    // Set RF Channel to 1st value entered with macro.
fdtc:slot $2                    // Set Timeslot to 2nd value entered with macro.
do                              // Initiate do loop.
 fdtc:is54:start                // Start collecting raw FDTC timeslot data.
 do                             // Initiate internal do loop
  tpause                        // Allow time to fill data buffer.

 until (key? or (fdtc:is54:count?=100))
 if(!key?)
  for i=0 to 99
   print %07h,fdtc:is54:sync? i," ",
   print %03h,fdtc:is54:cdvcc? i," ",
   print %03h,fdtc:is54:sacch? i," ",
   print %5d,fdtc:is54:time? i
   for j=1 to 65
    print %01h,fdtc:is54:data? i,j,

   next j                       // Show all 65 characters.
   print
  next i                        // Show data information for all 100 data words.
 endif
until key?                      // Do until key pressed on RS-232 terminal.
end                             // End macro fdtc_is54.
```

10-5 REVERSE CONTROL CHANNEL (RECC)

MACRO NAME: recc_min

SYNTAX: recc_min *n*
(*n*=RECC channel number, 1 to 1023.)

PURPOSE: Monitor RECC.
Display the MIN of the Mobile Station.
(Macro continues until key is pressed on the RS-232 terminal.)

EXAMPLE: recc_min 100

MACRO:

```
*dmc "recc_min",begin          // Define macro named recc_min.
recc:setup                     // Setup for receiving RECC.
recc:chan $1                   // Set RF Channel to value entered with macro.
recc:start                     // Start decoding RECC data.
do                             // Initiate do loop.
 tpause                        // Allow time for Sp Tst tasks to run.
 $=recc:min?                   // Return MIN as string variable $.
 if($!="-1")                   // When available, indicate MIN out OPT. RS-232
  print "MIN received is ",$// Connector.
  $ = recc:torder?
  print "Order is ",$
 endif
until key?                     // Do until key pressed on RS-232 terminal.
end                            // End macro recc_min.
```

10-6 REVERSE VOICE CHANNEL (RVC)

MACRO NAME: rvc_order

SYNTAX: rvc_order *n*
(*n*=RVC channel number, 1 to 1023.)

PURPOSE: Monitor RVC.
Display name of each order received.
(Macro continues until key is pressed on the RS-232 terminal.)

EXAMPLE: rvc_order 100

MACRO:

```
*dmc "rvc_order",begin         // Define macro named rvc_order.
rvc:setup                      // Setup for receiving RVC.
rvc:chan $1                    // Set RF Channel to value entered with macro.
rvc:start                      // Start decoding RVC data.
do                             // Initiate do loop.
 tpause                        // Allow time for Sp Tst tasks to run.
 $=rvc:torder?                 // Return last decoded order as string variable $.
 if($!="-1")                   // When available, indicate last decoded order out
  print "ORDER RECEIVED ON RVC IS ",$
 endif                         // OPT. RS-232 Connector.
until key?                     // Do until key pressed on RS-232 terminal.
end                            // End macro rvc_order.
```

10-7 REVERSE DIGITAL TRAFFIC CHANNEL (RDTC)

MACRO NAME: rdtc_maho

SYNTAX: rdtc_maho *n,x*
(*n*=RDTC channel number, 1 to 1023. *x*=timeslot, 1 to 3)

PURPOSE: Monitor RDTC.
Display mobile assisted handoff information returned in Channel Quality messages.
(Macro continues until key is pressed on the RS-232 terminal.)

EXAMPLE: rdtc_maho 100,2

MACRO:

```
*dmc "rdtc_maho",begin        // Define macro named rdtc_maho.
var i,reading
rdtc:setup                    // Setup for receiving RDTC.
rdtc:chan $1                  // Set RF Channel to 1st value entered with macro.
rdtc:slot $2                  // Set Timeslot to 2nd value entered with macro.
rdtc:start                    // Start decoding RDTC data.

print "Mobile Assisted Handoff Information"
print "Press any key to stop."

do                            // Initiate do loop.
 tpause                       // Allow time for background decoding.
 i=0                          // Set initial i value to 0.
 while(i < 12)                // Phone measures RSSI on up to 12 channels.
  reading=rdtc:sacch:rssi? i// Return RSSI of selected channels.
  if(reading!=-1)
   print "RSSI",%1d,i+1,"=",reading
  endif
  ++i
 wend
 reading=rdtc:sacch:rssic?   // Report RSSI of current channel.
 if(reading!=-1)
  print "Current RSSI=",%1d,reading
 endif
 reading=rdtc:sacch:ber?     // Report BER of current channel.
 if(reading!=-1)
  print "BER=",%1d,reading
 endif
until key?                    // Do until key pressed on RS-232 terminal.
end                           // End macro rdtc_maho.
```

10-8 CELL SITE SIMULATION (CSS)

Using the **SETup**, **STARt** and **STOP** commands of the RECC, RDTC and RVC nodes will stop the Cell Site Simulation. The RECC, RDTC and RVC nodes are automatically set up by the Cell Site Simulation process at the appropriated time:

- Transmitting on the FOCC activates the RECC node.
- Assigning an Analog Voice Channel activates the RVC node.
- Assigning a Digital Voice Channel activates the RDTC node.

Cell Site Simulation starts with the Sp Tst transmitting on the FOCC.

10-8-1 OVERHEAD MESSAGE FOR FOCC

MACRO NAME: css_focc

SYNTAX: css_focc *n,x*
(*n*=FOCC channel number, 1 to 1023. *x*=RF level in dBm, -127.0 to -20.0)

PURPOSE: Transmit an overhead message on the FOCC.

EXAMPLE: css_focc 332,-55.0

MACRO:

```
*dmc "css_focc",begin          // Define macro named css_focc.
css:setup                      // Setup for Cell Site Simulation.
css:chan $1                    // Set RF Channel to 1st value entered with macro.
css:rflvl $2                   // Set RF Output Level to 2nd value entered.
css:focc:dcc 0                 // Set Digital Color Code to 0.
css:focc:pci 1                 // Set Protocol Capability Indicator to 1.
css:focc:rcf 1                 // Activate Read Control Filler bit.
css:focc:sid 30                // Set System Identification Number to 30.
css:focc:s 1                   // Activate Serial Number bit.
css:focc:e 1                   // Activate Extended Address bit.
css:focc:regh 1                // Activate Home Registration bit.
css:focc:regr 1                // Activate Roaming Registration bit.
css:focc:n 20                  /* Set Number of Paging Channels to be scanned
                                  by Mobile Station to 20. */
css:focc:cmax 20               /* Set Maximum Number of Access Channels to be
                                  scanned by Mobile Station to 20. */.
css:focc:auth 0                // Deactivate Authentication bit.
css:focc:ep 0                  // Deactivate Extended Protocol bit.
css:focc:cmac 2                /* Set Control Mobile Attenuation Code (Mobile
                                  Station Power Level [-2 dBW nominal]). */
css:focc:sdcc1 0               // Set Supplementary Digital Color Code 1 to 0.
css:focc:sdcc2 0               // Set Supplementary Digital Color Code 2 to 0.
css:focc:wfom 1                // Activate Wait For Overhead Message bit.
css:focc:b_i 1                 // Activate Busy-Idle bit (RVC idle).
css:glact:stop                 // Deactivate any global action messages.
css:start                      // Start transmitting overhead message.
end                            // End macro css_focc.
```

10-8-2 OVERHEAD MESSAGE USING PRIMARY AND SECONDARY CYCLES

See Figure 10-1 for example of possible setup of Overhead Message Trains for each cycle.

MACRO NAME: css_prim_sec

PURPOSE: Transmit an overhead message using Primary and Secondary cycles.

MACRO:

```
*dmc "css_prim_sec", begin   // Define macro named css_prim_sec.
css:setup
css:focc:over:number 4       // Specifies 4 secondary cycles.
for i=0 to 4
  css:focc:over:length i,16 // Set cycle length to 16.
next i
css:focc:over:ratio 1,4      // Set ratio to 1:4.
css:focc:over:ratio 2,15     // Set ratio to 1:15.
css:focc:over:ratio 3,50     // Set ratio to 1:50.
css:focc:over:ratio 4,30     // Set ratio to 1:30.
css:focc:over:select 0       // Select primary cycle.
css:focc:over:build          // Build primary cycle.
css:focc:over:select 1       // Select secondary 1.
css:enable:dcch 1            // Enable DCCH info word.
css:focc:over:build          // Build secondary 1.
css:focc:over:select 2       // Select secondary 2.
css:enable:dcch 0            // Disable DCCH info word.
css:glact:action:randa 1     // Enable rand challenge a.
css:glact:action:randb 1     // Enable rand challenge b.
css:focc:over:build          // Build secondary 2.
css:focc:over:select 3       // Select secondary 3.
css:glact:action:randa 0     // Disable rand challenge a.
css:glact:action:randb 0     // Disable rand challenge b.
css:focc:over:build          // Build secondary 3.
css:focc:raw 2,#h1234567     // Program RAW word.
css:focc:raw 3,#habcdef0     // Program RAW word.
css:focc:over:select 4       // Select secondary 4.
css:glact:action:locaid 1    // Enable location area ID.
css:glact:action:regincr 1   // Enable registration increment.
css:enable:regid 1           // Enable registration ID.
css:focc:over:build          // Build secondary 4.
css:glact:action:locaid 0    // Leave TMAC program with
css:glact:action:regincr 0   //   optional overhead message
css:enable:regid 0           //   types disabled.
css:start                    // Start generating.
end                          // End macro css_prim_sec.
```

Primary Cycle

System Parameter Word 1	System Parameter Word 2	14 Control Fillers

Secondary Cycle 1, duty cycle 1:4

System Parameter Word 1	System Parameter Word 2	DCCH INFO Word	13 Control Fillers

Secondary Cycle 2, duty cycle 1:15

System Parameter Word 1	System Parameter Word 2	Random Challenge A	Random Challenge B	12 Control Fillers

Secondary Cycle 3, duty cycle 1:50

System Parameter Word 1	System Parameter Word 2	RAW Word 1	RAW Word 2	12 Control Fillers

Secondary Cycle 4, duty cycle 1:30

System Parameter Word 1	System Parameter Word 2	Locaid Global Action	Reg Incr Global Action	Reg ID Message	11 Control Fillers

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Figure 10-1 OMT Examples

10-8-3 GLOBAL ACTION OVERHEAD MESSAGE

MACRO NAME: css_glact

SYNTAX: css_glact *n,x*
(*n*=FOCC channel number, 1 to 1023. *x*=RF level in dBm, -127.0 to -20.0)

PURPOSE: Transmit an overhead message on the FOCC (10-8-1).
Add two global action messages to the overhead message train.

EXAMPLE: css_glact 332,-55.0

MACRO:

```
*dmc "css_glact",begin          // Define macro named css_glact.
css_focc $1,$2                  // Run css_focc macro to send overhead message.
css:glact:action:locaid 1       // Enable Location Area ID global action message.
css:glact:pureg 0               // Disable Power Up Registration bit.
css:glact:pdreg 0               // Disable Power Down Registration bit.
css:glact:lreg 1                // Enable Local Area Registration bit.
css:glact:locaid 240            // Set Location Area ID.
css:glact:action:access 1       /* Enable Access Attempt Parameters global action
                                    message. */
css:glact:maxb:pgr 8            // Set Maximum Busy occurrences for Page responses.
css:glact:maxb:oth 8            /* Set Maximum Busy occurrences for other
                                    responses. */
css:glact:maxs:pgr 9            // Set Maximum Seizures for Page responses.
css:glact:maxs:oth 10           // Set Maximum Seizures for other responses.
css:glact:repeat:on             /* Set to send global action messages continuously
                                    as part of overhead message train. */
css:glact:send                  // Start sending global action messages.
end                             // End macro css_glact.
```

10-8-4 MOBILE STATION CONTROL

MACRO NAME: css_mscm

SYNTAX: css_mscm

PURPOSE: Replace one instance of the system parameter overhead message with a Message Waiting command. (This macro assumes the Sp Tst is already transmitting an overhead message on the FOCC.)

MACRO:

```
*dmc "css_mscm",begin           // Define macro named css_mscm.
css:mscm:order:msg_wtg          // Select Message Waiting message.
css:mscm:local 5                // Set Message Type to indicate 5 messages waiting.
css:mscm:repeat:off             // Set to send message only once.
css:mscm:send                   // Send Message Waiting message.
end                             // End macro css_mscm.
```

10-8-5 MOBILE STATION INITIATED CALL

When assigning a Digital Voice Channel, sends a Physical Layer Control (PLC) message to successfully complete the Mobile Station initiated call.

MACRO NAME: minit

SYNTAX: minit *n,x*
(*n*=FOCC channel number, 1 to 1023. *x*=RF level in dBm, -127.0 to -20.0)

PURPOSE: Set Sp Tst to transmit an overhead message on the FOCC (10-8-1).
Prepare the Sp Tst to respond to an access from the Mobile Station.
If the access is an Origination, assign the Mobile Station to a digital channel.

EXAMPLE: minit 332,-55.0

MACRO:

```
*dmc "minit",begin              // Define macro named minit.
var n
css_focc $1,$2                  // Run css_focc macro to send overhead message.
css:call:type 1                 // Set for digital channel assignment.
css:call:chan 5                 // Set for RF Channel 5 assignment.
recc:start
css:call:proc:mobinit           // Start mobile initiated call processing.
do
 delay 50                       // Look for successful access by Mobile Station.
 $=recc:torder?
 if($ != "-1")
  print $
 endif
until key? or ($ = "ORIGIN")    // Look for successful access by Mobile Station.
if($="ORIGIN")                  // See if Access was an Origination.
 $=recc:min?                    // Store MIN of Mobile Station (phone) as $.
 css:call:proc:assign           // Assign to digital channel 5.
 delay 500                      // Allow time for phone and Sp Tst to respond.
 n=3                            // Set initial n (count) value to 3.
 css:fdtc:enable:ta 1           // Enable time alignment.
 css:fdtc:ta 0                  // Set the time alignment to 0.
 do
  css:fdtc:facch:plc            // Send Physical Layer Control message ≤3 times.
  delay 500
 until (!(--n) or (rdtc:facch:msgtype?="PLC ACK"))
 if(n)
  print "Completed mobile initiated call to ",$
 else
  print "Unsuccessful"
 endif
else
 print "Aborted"
endif
end                             // End macro minit.
```

10-8-6 BASE STATION INITIATED CALL

When assigning a Digital Voice Channel, send a PLC message and an Alert message to complete the Base Station initiated call. When assigning an Analog Voice Channel, send an Alert message to complete the Base Station initiated call.

After an Analog or Digital Voice Channel has been assigned, any data field on the respective Reverse Channel can be decoded and any message on the respective Forward Channel can be sent.

MACRO NAME: page

SYNTAX: page *n,x*
(*n*=FOCC channel number, 1 to 1023. *x*=RF level in dBm, -127.0 to -20.0)

PURPOSE: Set Sp Tst to transmit a system parameter overhead message followed by a Page order.
Prepare the Sp Tst for an access from the Mobile Station. When a Page response is received from the Mobile Station, assign the Mobile Station to an analog channel and send an Alert message.

EXAMPLE: page 332,-55.0

MACRO:

```
*dmc "page",begin              // Define macro named page.
var st,sat
css_focc $1,$2                 // Setup overhead message with entered values.
recc:start
css:call:proc:reg
do
 delay 50
 $ = recc:torder?
 if($ != "-1")
  print $
 endif
until key? or ($ = "REG")      // Look for successful access by mobile */
if(!key?)
 css:mscm:order:reg_cnf        // Select audio as order.
 css:mscm:ordq (recc:ordq?)    // Echo back same order qualifier.
 css:mscm:repeat:off           // Only send one time.
 css:mscm:send                 // Send message waiting.
endif
css:call:type 0                // Set type for analog.
css:call:chan 600              // Set for RF Channel 600 (TX 888 MHz,RX 843 MHz)
css:call:sat 5970              // Setup for SAT on analog channel.
css:call:dev 2.0               // Setup for SAT deviation of 2.0 kHz.
css:call:vmac 3                // Set Voice Mobile Attenuation Code (Mobile
                               // Station Power Level [-6 dBW nominal]).
css:call:proc:page             // Start processing for Page.
css:fvc:calling:num "3165224981"
css:fvc:calling:pi 0
```

(macro page continues on following page)

```
do
 delay 50                        // Wait for access.
 $=recc:torder?                  // Return last decoded order on RECC as variable $.
 if($ != "-1")
  print $
 endif
until key? or ($ = "PAGE RESP")      // Look for successful access by Mobile
                                     // Station.
if(!key?)
 css:call:proc:assign            // Assign to FVC 600 and set SAT to 5970 Hz.
 do
  sat=meas:sat?                  // Return the SAT frequency.
 until key? or (abs(sat-6000) < 50)
 n=3                             // Set initial n (count) value to 3.
 do
  css:fvc:order:alertw           // Send an Alert message on the FVC.
  delay 300
  st=meas:st?                    // Measure the signalling tone frequency.
 until (!(--n) or (abs(st-10000) < 20))
 if(n)
  print "Call successfully completed!"
 else
  print "Unsuccessful!"
 endif
else
 print "Aborted"
endif
end                              // End macro page.
```

10-8-7 HANDOFF

Analog to Digital Handoff Example:

MACRO NAME: ad_handoff

SYNTAX: ad_handoff *n*
(*n*=handoff channel number, 1 to 1023.)

PURPOSE: Send a handoff message to the Mobile Station, handing off the call to a digital channel. (This macro assumes the Sp Tst is on an analog channel with the Mobile Station.)

EXAMPLE: ad_handoff 5

MACRO:

```
*dmc "ad_handoff",begin      // Define macro named ad_handoff.
css:fvc:hand:chan $1         // Set handoff channel to value entered with macro.
css:fvc:ta 0                 // Set Time Alignment offset.
css:fvc:sbi 2                /* Set Shortened Burst Indicator for transmit
                                shortened burst after cell-to-cell handoff. */
css:fvc:dvcc 225             // Set Digital Verification Color Code.
css:fvc:dmac 2               /* Set Digital Mobile Attenuation Code (Mobile
                                Station Power Level [-2 dBW nominal]). */
css:fvc:mem 0                // Set Memory Encryption Mode off.
css:fvc:pm 0                 // Set Privacy Mode off.
css:call:proc:fvc:slot1      // Process call handoff to digital channel.
delay 500
do
 css:fdtc:facch:plc          // Send Physical Layer Control message on FDTC.
 delay 500
until (!(--n) or (rdtc:facch:msgtype?="PLC ACK"))
end                          // End macro ad_handoff.
```

Digital to Analog Handoff Example:

MACRO NAME: da_handoff

SYNTAX: da_handoff *n*
(*n*=handoff channel number, 1 to 1023.)

PURPOSE: Send a handoff message to the Mobile Station, handing off the call to an analog channel. (This macro assumes the Sp Tst is on a digital channel with the Mobile Station.)

EXAMPLE: da_handoff 5

MACRO:

```
*dmc "da_handoff",begin      // Define macro named da_handoff.
css:fdtc:ti 0                // ti=0 means analog handoff.
css:fdtc:dvcc 2              // Set 6030 Hz SAT for SCC on analog handoff.
css:fdtc:dmac 2              // Set VMAC for power level 2 on analog handoff.
css:fdtc:hand:chan $1        // Set handoff channel to value entered with macro.

css:fvc:pscc 2               // Set present SAT Color Code to match DVCC setup.
css:fvc:vmac 2               // Set VMAC to match DMAC setup.
css:fvc:mem 0                // Set Memory Encryption Mode off.
css:fvc:pm 0                 // Set Privacy Mode off.

css:call:sat 6030            // Set SAT frequency to correspond with SCC.
css:call:dev 2.0             // Set SAT deviation to 2.0 kHz.

a=css:call:proc:fdtc:handoff? // Perform handoff.
if(a)                        // Indicate handoff status out OPT. RS-232
                             // Connector.
 print "Handoff is successful!"
else
 print "Unsuccessful!"
endif
end                          // End macro da_handoff.
```

10-8-8 PAGE

Sending Mobile Station Control Messages (MSCMs) examples:

A. To send a two word page in the primary, use the following example (see Figure 10-2):

```
*dmc "send_page",begin
css:focc:over:select 0          // Select the primary cycle.
css:mscm:repeat:off
css:mscm:order:page
css:mscm:send
end
```

B. To send a Voice Channel Designation message in secondary cycle 1, use the following example (see Figure 10-2):

```
*dmc "send_vcdes:,begin
css:focc:over:select 1          // Select the primary cycle.
css:mscm:repeat:off
css:mscm:order:vc_des
css:mscm:send
end
```

C. To initiate the call processing procedures associated with a Page and with the Voice Channel Designation, use the following program:

```
/* assumes example macro program is currently running */
*dmc "page",begin
var time
css:focc:over:sel 0
css:call:type 0
css:call:chan 1
$ = recc:torder?
css:call:dmac 0
css:call:roc:page
time = ticks?
do
  tpause
until key? or (recc:torder? = "PAGE RESP") or ((ticks? - time) > 20000)
if (!key?)
  css:focc:over:sel 0
  css:call:proc:assign
  delay 1000
  css:fvc:order:alert
endif
end
```

A two word page sent in the Primary Cycle

System Parameter Word 1	System Parameter Word 2	Page Word 1	Page Word 2	12 Control Fillers

A Voice Channel Designation message in Secondary Cycle 1

System Parameter Word 1	System Parameter Word 2	DCCH INFO Word	VCDES Word 1	VCDES Word 1	11 Control Fillers

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Figure 10-2 Examples of Page and VCDES Message in OMTs

10-9 BIT ERROR RATE (BER)

MACRO NAME: ber_rdtc

SYNTAX: ber_rdtc

PURPOSE: Perform BER test (measure BER of a Base Station receiver) on RDTC (RF Channel 1). (This macro assumes the UUT will loop back the data from the receiver to the transmitter.)

MACRO:

```
*dmc "ber_rdtc",begin          // Define macro named ber_rdtc.
ber:rdtc:setup                 // Setup for Digital Traffic BER.
ber:rdtc:slot 1                // Set to Timeslot 1.
ber:rdtc:chan 1                // Set to RF Channel 1 (TX 825.030 MHz).
ber:rdtc:data:pseudo           // Set to send pseudo-random data on RDTC.
do                             // Initiate do loop.
 ber:rdtc:go                   // Send pseudo-random RDTC data and start BER test.
 delay 100                     // Allow time for Base Station to sync up with data
until key? or !(ber:rdtc:status?)
delay 2000                     /* or until key is pressed on RS-232 Terminal. */
ber:rdtc:clear                 // Clear current results.
while (!key?)                  // Display current results until key is pressed on
 tpause                        // RS-232 Terminal.
 a=ber:rdtc:ber?
 if(a!=-1)
  print "Bit Error Rate = ",%4.3d,a
wend                           //
ber:rdtc:stop                  // Stop RDTC data transmission and BER test.
end                            // End macro ber_rdtc.
```

10-10 MODULATION ACCURACY (MODACC)

MACRO NAME: mod1900

SYNTAX: mod1900 *n*
(*n* = channel number, 1 to 1023.)

PURPOSE: Perform Modulation Accuracy test (measure accuracy of π/4 DQPSK signal) on FDTC or DCCH. The EVM is continuously displayed on the same line.

MACRO:

```
*dmc "mod1900",begin          // Define macro named mod1900.
var time
mod:fdtc:setup                // Setup to monitor FDTC for modulation accuracy.
mod:fdtc:chan $1              // Set to RF Channel 1 (monitor 870.030 MHz).
do
 a = mod:fdtc:run?            // Run Modulation Accuracy test
 time = ticks?
 do
  tpause
 until (key? or (abs(time - ticks?) > 2000)) or mod:fdtc:comp?

 print mod:fdtc:evm?,"\r",    // Indicate RMS Error Vector Magnitude percentage.
until key?
 print
end                           // End macro moderr.
```

10-11 GPIB

LANGUAGE: HP™ Basic

PURPOSE: Perform Cell Site Simulation testing across GPIB.

FILE:

```
10   Dev=705
20   OUTPUT Dev;":GPIB:MASK 1"
30   ON INTR 7 GOSUB 620
40   ENABLE INTER 7;2
50   CLEAR SCREEN
60   PRINT "START"
70   DIM COMM$[60]
80   OUTPUT Dev;"CSS:SETUP"
90   OUTPUT Dev;"CSS:CHAN 333"
100  OUTPUT Dev;"CSS:RFLVL -60"
110  OUTPUT Dev;"CSS:FOCC:PCI 1"
120  OUTPUT Dev;"CSS:START"
130  OUTPUT Dev;"CSS:CALL:TYPE 1"
140  OUTPUT Dev;"CSS:CALL:CHAN 5"
150  OUTPUT Dev;"CSS:CALL:SLOT 2"
160  OUTPUT Dev;"CSS:FDTC:ENABLE:SIGNAL 1"
170  OUTPUT Dev;"CSS:FDTC:SIGNAL:PITCH 0;CADENCE 1"
180  OUTPUT Dev;"CSS:FDTC:ENABLE:CALLING:NUM 1"
190  OUTPUT Dev;"CSS:FDTC:CALLING:NUM '316/522-4981'"
200  OUTPUT Dev;"CSS:FDTC:CALLING:TYPE 0"
210  OUTPUT Dev;"CSS:FDTC:CALLING:PLANID 0"
220  OUTPUT Dev;"CSS:FDTC:CALLING:PI 0"
230  OUTPUT Dev;"CSS:FDTC:CALLING:SI 0"
240  OUTPUT Dev;"CSS:FDTC:ENABLE:DMAC 0;TA 1;DTX 0;DIC 0"
250  OUTPUT Dev;"CSS:FDTC:TA 2"
260  Srq_flag=0
270  REPEAT
280    OUTPUT Dev;"CSS:CALL:PROC:REG"
290    WAIT 1
300  UNTIL Srq_flag=1
310  PRINT "REGISTRATION COMPLETED"
320  OUTPUT Dev;"CSS:CALL:PROC:PAGE"
330  Srq_flag=0
340  REPEAT
350    WAIT .5
360  UNTIL Srq_flag=1
370  PRINT "PAGE RESPONSE RECEIVED"
380  OUTPUT Dev;"CSS:CALL:PROC:ASSIGN"
390  WAIT 2
400  PRINT "CALL ASSIGN TO DIGITAL TRAFFIC CHANNEL
410  REPEAT
420    OUTPUT Dev;"CSS:FDTC:FACCH:PLC"
430    WAIT .5
440    OUTPUT Dev;"RDTC:FACCH:MSG?"
450    ENTER Dev;Comm$
460  UNTIL Comm$="PLC ACK"
```

(The GPIB example program continues on the next page.)

```
470  PRINT "PLC ACK RECEIVED"
480  REPEAT
490    OUTPUT Dev;"CSS:FDTC:FACCH:ALERT"
500    WAIT .5
510    OUTPUT Dev;"RDTC:FACCH:MSG?"
520    ENTER Dev;Comm$
530  UNTIL Comm$="MOBILE ACK"
540  PRINT "PHONE ALERTED"
550  REPEAT
560    WAIT .5
570    OUTPUT Dev;"RDTC:FACCH:MSG?"
580    ENTER Dev;Comm$
590  UNTIL Comm$="CONNECT"
600  PRINT "CALL COMPLETED"
610  STOP
620  Srq_flag=1
630  S=SPOLL(Dev)
640  ENABLE INTR 7;2
650  RETURN
660  END
```

10-12 DIGITAL CONTROL CHANNEL (DCCH) CELL SITE SIMULATION

The following file consists of a TMAC program that demonstrates the DCCH Simulation capabilities of the Special Test to include the following:

- DCCH Superframe setup.
- Power Up Registration.
- BMI Originated call.
- Mobile Originated call.
- Release with DCCH Information.
- SMS on the DCCH.
- SMS on the DTC.
- Authentication on DCCH.

The entry point for this program is the dcch_css macro; therefore, use the following command to store the program into Flash Memory: mmem:stor:macr "dcch_css","dcch_css". This program can than be executed from the Front Panel of the HOST (see 4-7-2) or from the RS-232 terminal (see 4-7-1).

The following TMAC program is accessible via the world wide web at **http://www.ifrsys.com/download/download.html**. Download self-extracting zip file **dcchcss.exe**.

```
*pmc

/* Global Variables. */
var pch_sub
string phnum
var Sernum

/* Variables for SMS. */
var data_l,data_enc,data_res
string msg
var mti,mreff,pi,ui,dackreq
var manackreq,mup,vlid,dtime
var mcts_pt,mcts_time,mcts_off
var sig_pt,sig_pit,sig_cad,sig_dur
var cbn_pt,cbn_addr_l,cbn_addr_t,cbn_addr_id,cbn_addr_enc
string cbn_addr
var cbn_pi_pt,cbn_pi,cbn_si
var cbn_at_pt,cbn_at_l
string cbn_at
var cbnum,cbnum_pi,cbnum_at
var hlp_data[120]
```

(*dcchcss.mac program file continues on following page.*)

```
*dmc "sms_dcch",begin
 mti = 0
 mreff = 0
 pi = 0
 ui = 1
 dackreq = 0
 manackreq = 0
 mup = 1
 vlid = 0
 dtime = 2
 data_l = len(msg)+1
 data_enc = 1
 data_res = 0
 mcts_pt = 2
 mcts_time = 0
 mcts_off = #b001101001000
 sig_pt = 3
 sig_pit = 0
 sig_cad = 1
 sig_dur = 0
 cbn_pt = 4
 cbn_addr_l = 11
 cbn_addr_t = 2
 cbn_addr_id = 1
 cbn_addr_enc = 0
 cbn_addr = "2143339999"
 cbn_pi_pt = 5
 cbn_pi = 0
 cbn_si = 0
 cbn_at_pt = 6
 cbn_at_l = 9
 cbn_at = "DCCH Test"
 j=0
 hlp_data[j++] = (mti << 5) | (mreff >> 8)
 hlp_data[j++] = mreff & #hff
 hlp_data[j++] = (pi << 5) | (ui << 3) | (dackreq << 2) | (manackreq << 1) | mup
 hlp_data[j++] = (vlid << 5) | (dtime << 3)
 hlp_data[j++] = data_l
 hlp_data[j++] = (data_enc << 3) | (data_res)
 for i = 0 to len(msg)-1
  hlp_data[j++] = asc(msg[i][i])
 next I
```

(dcchcss.mac program file and sms_dcch macro continues on following page.)

```
hlp_data[j++] = (mcts_pt << 4) | (mcts_time >> 28)
hlp_data[j++] = (mcts_time >> 20) & #hff
hlp_data[j++] = (mcts_time >> 12) & #hff
hlp_data[j++] = (mcts_time >> 4) & #hff
hlp_data[j++] = ((mcts_time << 4) & #hff) | (mcts_off >> 8)
hlp_data[j++] = mcts_off & #hff
hlp_data[j++] = (sig_pt << 4) | (sig_pit << 2) | (sig_cad >> 4)
hlp_data[j++] = ((sig_cad << 4) & #hff) | (sig_dur)
hlp_data[j++] = (cbn_pt << 4) | (cbn_addr_1 >> 4)
hlp_data[j++] = ((cbn_addr_1 << 4) & #hff) | (cbn_addr_t << 1) |
  (cbn_addr_id >> 3)
hlp_data[j] = ((cbn_addr_id << 5) & #hff) | (cbn_addr_enc << 4)
for i = 0 to 9
 hlp_data[j] = hlp_data[j] | (asc(cbn_addr[i][i]) >> 4)
 ++j
 hlp_data[j] = (asc(cbn_addr[i][i]) << 4) & #hff
next i
hlp_data[j] = hlp_data[j] | (cbn_pi_pt)
++j
hlp_data[j++] = (cbn_pi << 6) | (cbn_si << 4) | (cbn_at_pt)
hlp_data[j++] = cbn_at_1
for i = 0 to 8
 hlp_data[j++] = asc(cbn_at[i][i])
next i
css:spach:msgtype1:rdata
css:spach:rtrans 22
css:spach:rdata_unit:length j+1
css:spach:rdata_unit:hlp:id 1
for i = 0 to j
 css:spach:rdata_unit:hlp:data i,hlp_data[i]
next i
css:spach:bu 4
css:spach:bt 0
css:spach:build:nonarq
a = css:spach:length:nonarq?
print %1d," SMS R-DATA Message length is ",a
send_arch 15
print %1d," R-TRANS ID is ",css:spach:rtrans?
print " The phone should display the message:"
print " ",msg
rdcch:l3data:sel 0
print " Sending R-DATA Message"
print " Waiting for R-DATA ACCEPT"
print " Hit any key to skip or Q to quit"
```

(dcchcss.mac program file and sms_dcch macro continues on following page.)

```
 do
  delay 100
  $ = rdcch:msgtype?
  if $ != "-1"
   print " Message type is ",$
  endif
 until key? or $ = "R-DATA ACCEPT"
 if(key?)
   print " No R-DATA Accept"
   return
 endif
 print " Received R-DATA Accept"
 print " R-TRANSACTION ID from Mobile is ",%ld,rdcch:rtrans?
end

*dmc "sms_dtc",begin
 mti = 0
 mreff = 0
 pi = 0
 ui = 1
 dackreq = 0
 manackreq = 0
 mup = 1
 vlid = 0
 dtime = 2
 data_enc = 1
 data_res = 0
 data_l = len(msg)+1
 mcts_pt = 2
 mcts_time = 0
 mcts_off = #b001101001000
 sig_pt = 3
 sig_pit = 0
 sig_cad = 1
 sig_dur = 0
 cbn_pt = 4
 cbn_addr_l = 11
 cbn_addr_t = 2
 cbn_addr_id = 1
 cbn_addr_enc = 0
 cbn_addr = "2143339999"
 cbn_pi_pt = 5
 cbn_pi = 0
 cbn_si = 0
 cbn_at_pt = 6
 cbn_at_l = 9
 cbn_at = "Call Home"
 j=0
```

(dcchcss.mac program file and sms_dtc macro continues on following page.)

```
hlp_data[j++] = (mti << 5) | (mreff >> 8)
hlp_data[j++] = mreff & #hff
hlp_data[j++] = (pi << 5) | (ui << 3) | (dackreq << 2) | (manackreq << 1) |
  (mup)
hlp_data[j++] = (vlid << 5) | (dtime << 3)
hlp_data[j++] = data_l
hlp_data[j++] = (data_enc << 3) | (data_res)
for i = 0 to len(msg)-1
 hlp_data[j++] = asc(msg[i][i])
next i
hlp_data[j++] = (mcts_pt << 4) | (mcts_time >> 28)
hlp_data[j++] = (mcts_time >> 20) & #hff
hlp_data[j++] = (mcts_time >> 12) & #hff
hlp_data[j++] = (mcts_time >> 4) & #hff
hlp_data[j++] = ((mcts_time << 4) & #hff) | (mcts_off >> 8)
hlp_data[j++] = mcts_off & #hff
hlp_data[j++] = (sig_pt << 4) | (sig_pit << 2) | (sig_cad >> 4)
hlp_data[j++] = ((sig_cad << 4) & #hff) | (sig_dur)
hlp_data[j++] = (cbn_pt << 4) | (cbn_addr_l >> 4)
hlp_data[j++] = ((cbn_addr_l << 4) & #hff) | (cbn_addr_t << 1) |
  (cbn_addr_id >> 3)
hlp_data[j] = ((cbn_addr_id << 5) & #hff) | (cbn_addr_enc << 4)
for i = 0 to 9
 hlp_data[j] = hlp_data[j] | (asc(cbn_addr[i][i]) >> 4)
 ++j
 hlp_data[j] = (asc(cbn_addr[i][i]) << 4) & #hff
next i
hlp_data[j] = hlp_data[j] | (cbn_pi_pt)
++j
hlp_data[j++] = (cbn_pi << 6) | (cbn_si << 4) | (cbn_at_pt)
hlp_data[j++] = cbn_at_l
for i = 0 to 8
 hlp_data[j++] = asc(cbn_at[i][i])
next i
css:fdtc:rtrans 12
css:fdtc:rdata_unit:length j+1
css:fdtc:rdata_unit:hlp:id 1
for i = 0 to j
 css:fdtc:rdata_unit:hlp:data i,hlp_data[i]
next i
print %1d," R-TRANS ID is ",css:fdtc:rtrans?
print " Sending R-DATA Message"
css:fdtc:sacch:rdata:mess
print " Waiting for R-DATA ACCEPT"
print " Hit any key to skip or Q to quit"
```

(dcchcss.mac program file and sms_dtc macro continues on following page.)

```
 do
  delay 100
  $ = rdtc:facch:msgtype?
 until key? or $ = "R-DATA ACCEPT"
 if(key?)
  print " No R-Data Accept"
  return
 endif
 print " Received R-DATA ACCEPT"
 print " The phone should display the following message:"
 print " ",msg
 print " R-TRANS ID from mobile is ",%ld,rdtc:facch:rtrans?
end


/* Set AGC by DMAC setting. */
*dmc "set_dig_agc",begin
 a = $1*7+120
 host "dup:inp:agc:man "+str(a)
end

var paid,ns,nfb,neb,nsb,nrs,nnp,nb,np
*dmc "calc_pch_sub",begin
 paid = (css:spach:msid:ls? 0) & #hffff
 ns = 2
 nfb = (css:fbcch:number:fbcch?) + 3
 neb = (css:fbcch:number:ebcch?) + 1
 nsb = css:fbcch:number:sbcch?
 nrs = css:fbcch:number:res?
 nnp = css:fbcch:number:non_pch?
 nb = nfb+neb+nsb+nrs
 np = (32-nb)-(nnp*2)
 return ((paid/ns)%np)+nb
end


*dmc "disp_auth",begin
 print " Received Authentication message"
 print %ld," RANDC is ",rdcch:randc?
 print %ld," COUNT is ",rdcch:count?
 print %05h," AUTHR is 0x",rdcch:authr?
 cave:esn Sernum
 cave:min phnum
 cave:rand (:css:fbcch:rand?)
 print %05h," The Calculated Cave AUTHR is 0x",cave:authr:reg?
end
```

(dcchcss.mac program file continues on following page.)

```
*dmc "reg_type",begin
 string rt
 case (:rdcch:reg:type?)
  of 0: rt = "Power Down"
  of 1: rt = "Power Up"
  of 2: rt = "Location Area"
  of 3: rt = "Forced"
  of 4: rt = "Periodic"
  of 5: rt = "Degeristration"
  of 6: rt = "New System"
  of 7: rt = "ACC to DCCH"
  of 8: rt = "TMSI Time Out"
  of 9: rt = "User Group"
  of 10: rt = "New Hyperband"
  otherwise: rt = "Reserved"
 endcase
 return rt
end

*dmc "disp_reg",begin

 print " Received Registration"

 a = :rdcch:idt?
 if(a != -1)
  print %1d,"  IDT is ",a
  print %1d,"  EHI is ",rdcch:ehi?
  print "  Mobile Station ID is 0x",
  if a > 1
   print %1h,rdcch:msid:ms?,
  endif
  print %08h,rdcch:msid:ls?
 endif
 if (a=2)
   print "  MIN is ",phnum
 endif

 print "  Registration type is ",reg_type
 print %1d,"  SCM is ",rdcch:scm?
 print %1d,"  Protocol Version is ",rdcch:prot:ver?

 $ = rdcch:cnumb:addr?
 if $ != "-1"
  print "  C-Number Address is ",$
  print %1d,"  C-Number Address Encoding is ",rdcch:cnumb:enc?
  print %1d,"  C-Number Address Identification Plan is ",rdcch:cnumb:plan?
  print %1d,"  C-Number Address Type is ",rdcch:cnumb:type?
 endif
```

(dcchcss.mac program file and disp_reg macro continues on following page.)

```
 a = rdcch:pfc:req?
 if a != -1
  print %1d,"  PFC Request is ",a
 endif

 a = rdcch:mem:mea?
 if a != -1
  print %1d,"  Message Encryption Mode Algorithm is ",a
  print %1d,"  Message Encryption Mode domain is ",rdcch:mem:med?
  print %1d,"  Message Encryption Mode key is ",rdcch:mem:mek?
 endif

 a = rdcch:psid_rsid:sel?
 if a != -1
  print %1d,"  Selected PSID/RSID is ",a
 endif

 a = rdcch:user:group:status?
 if a != -1
  print %1d,"  User Group Status is ",a
  print %1d,"  User Group Type is ",rdcch:user:group:type?
  print %1h,"  User Group ID is 0x",rdcch:user:group:ugid:ms?,
  print %08h,rdcch:user:group:ugid:ls?
 endif

end

*dmc "disp_page_resp",begin

 print " Received Page Response"
 a = rdcch:idt?
 print %1d,"  IDT is ",a
 print %1d,"  EHI is ",rdcch:ehi?
 print "  Mobile Station ID is 0x",
 if a > 1
  print %1h,rdcch:msid:ms?,
 endif
 print %08h,rdcch:msid:ls?
 print %1d, "  Protocol version is ",rdcch:prot:ver?
 print %1d, "  Last Try is ",rdcch:lt?
 print %1d, "  SCM is ",rdcch:scm?
 print %1d, "  Service Code ",rdcch:service?
 a = rdcch:mode:voice:vc?
 if a != -1
  print %1d, "  Voice Coder Mode is ",a
  print %1d, "  Voice Privacy Mode is  ",rdcch:mode:voice:pm?
 endif
 a = rdcch:mode:data:pm?
```

(dcchcss.mac program file and disp_page_resp macro continues on following page.)

```
 if a != -1
  print %1d, "  Data Privacy Mode is ",a
  print %1d, "  Data Mode SAP is ",rdcch:mode:data:sap?
  print %1d, "  Data Mode Acked Data is ",rdcch:mode:data:acked?
  print %1d, "  Data Mode CRC is ",rdcch:mode:data:crc?
  print %1d, "  Data Mode Data Part is ",rdcch:mode:data:part?
  print %1d, "  Data Mode RLP is ",rdcch:mode:data:rlp?
 endif
 a = rdcch:mem:mea?
 if a != -1
  print %1d, "  Message Encryption Algorithm is ",a
  print %1d, "  Message Encryption Domain is ",rdcch:mem:med?
  print %1d, "  Message Encryption Key is ",rdcch:mem:mek?
 endif
 a = rdcch:bandw?
 if a != -1
  print %1d, "  Bandwidth is  ",a
 endif
 a = rdcch:user:group:status?
 if a != -1
  print %1d, "  User Group Status is ",a
  if (a=0)
   print %1d,"  User Group Type is ",rdcch:user:group:type?
   print %1h,"  User Group ID is 0x",rdcch:user:group:ugid:ms?,
   print %08h,:rdcch:user:group:ugid:ls?
  endif
 endif
 a = rdcch:sub:length?
 if a != -1
  print %1d,"  Subaddress Length is ",a
  print %1d,"  Subaddress Odd/Even is ",rdcch:sub:odd_even?
  print %1d,"  Subaddress Type is ",rdcch:sub:type?
  for i = 0 to a-2
    print %1d,"  Subaddress is ",i," is ",rdcch:sub:addr? i
  next i
 endif

end
```

(dcchcss.mac program file continues on following page.)

```
*dmc "dcch_setup",begin
 for i = 0 to 31
  css:fdcch:super:sfp i,i
  css:fdcch:super:rn i,0
  css:fdcch:super:bri i,0
  css:fdcch:super:pe i,0
  css:fdcch:super:type i,3
 next i
 css:fdcch:super:acc:rand
 css:fdcch:super:acc:pe 0
 css:fdcch:super:inc 1
 css:fdcch:super:zero
end

*dmc "fbcch_setup",begin
 css:fbcch:fc 1
 css:fbcch:ec 1

 css:fbcch:msg:struct 1
 css:fbcch:num:fbcch 0
 css:fbcch:num:ebcch 0
 css:fbcch:num:sbcch 0
 css:fbcch:num:res 0
 css:fbcch:num:non_pch 0
 css:fbcch:con 1
 css:fbcch:dvcc 0
 css:fbcch:pfc 0
 css:fbcch:pch 0
 css:fbcch:pfm 0
 css:fbcch:enable:extended 0
 css:fbcch:enable:cbn:high 0
 css:fbcch:enable:nonpublic:prob 0

 css:fbcch:msg:acc 1
 css:fbcch:auth 0
 css:fbcch:s 1
 css:fbcch:rand 0
 css:fbcch:acc:ms_pwr 0
 css:fbcch:acc:burst 1
 css:fbcch:max:ret 7
 css:fbcch:max:busy 1
 css:fbcch:max:rep 3
 css:fbcch:max:stop 1
 css:fbcch:rdata:length 0
 css:fbcch:barred 0
 css:fbcch:sub 0
 css:fbcch:dic 0
```

(dcchcss.mac program file and fbcch_setup macro continues on following page.)

```
 css:fbcch:msg:sel 1
 css:fbcch:ss_suff 0
 css:fbcch:acc:rss_min 0
 css:fbcch:scan:int 0
 css:fbcch:init 0
 css:fbcch:delay 0
 css:fbcch:scan:option 0
 css:fbcch:enable:add:dcch 0

 css:fbcch:msg:reg 1
 css:fbcch:regh 1
 css:fbcch:regr 1
 css:fbcch:pureg 1
 css:fbcch:pdreg 1
 css:fbcch:syreg 1
 css:fbcch:lareg 0
 css:fbcch:dereg 1
 css:fbcch:foreg 1
 css:fbcch:cap 0
 css:fbcch:enable:nonpublic:reg 0
 css:fbcch:enable:rnum 0
 css:fbcch:enable:regper 0
 css:fbcch:enable:regid 0

 css:fbcch:msg:sysid 1
 css:fbcch:sid 0
 css:fbcch:net 4
 css:fbcch:prot 2
 css:fbcch:enable:alpha:sid 0
 css:fbcch:enable:psid_rsid 0
 css:fbcch:enable:country:code 0

 css:fbcch:msgtype:maca 0
 css:fbcch:msgtype:olc 0
 css:fbcch:msgtype:bsmc 0
 css:fbcch:msgtype:service 0
 css:fbcch:msgtype:soc_bsmc 0
 css:fbcch:msgtype:soc 0

end
```

(dcchcss.mac program file continues on following page.)

```
*dmc "ebcch_setup",begin
 css:ebcch:msg:neigh:cell 1
 css:ebcch:serv_ss 0
 css:ebcch:enable:nonp 0
 css:ebcch:enable:neigh:tdma 0
 css:ebcch:enable:neigh:analog 0
 css:ebcch:enable:neigh:other 0
 css:ebcch:msg:rci 1
 css:ebcch:rci 1
 css:ebcch:enable:chan 0
 css:ebcch:msg:maca 0
 css:ebcch:msg:neigh:serv 0
 css:ebcch:msg:bsmc 0
 css:ebcch:msg:emerg 0
 css:ebcch:msg:serv 0
 css:ebcch:msg:soc_bsmc 0
 css:ebcch:msg:soc 0
 css:ebcch:msg:time 0
 css:ebcch:msg:alt 0
end

*dmc "build_bcch",begin
 css:fbcch:build
 a = css:fbcch:length? - 3
 css:fbcch:number:fbcch a

 css:ebcch:build
  b = css:ebcch:length?
 css:ebcch:ecl b
 css:fbcch:number:ebcch 3
 css:fbcch:build;program
 css:ebcch:build
 css:ebcch:auto:program 1            // requires version 5.1C
end
```

(dcchcss.mac program file continues on following page.)

```
*dmc "assign_avc",begin
 var satf,satn
 css:spach:bu 3
 css:spach:bt 0
 css:spach:mem 0
 css:spach:scc 1
 css:spach:vmac 3
 css:spach:chan 222
 css:spach:protocol 2
 css:spach:enable:sub 0
 css:spach:enable:dtx 0
 css:spach:enable:display 0
 css:spach:msgtype1:analog
 send_arch 19
 print " Assign to a Analog Voice Channel"
 print %1d," AVC Channel is ",css:spach:chan?
 print %1d," SAT is ",css:spach:scc?
 print %1d," VMAC is ",css:spach:vmac?
 case css:spach:scc?
  of 0:
   satf = 5970
  of 1:
   satf = 6000
  of 2:
   satf = 6030
 endcase
 css:call:sat satf
 css:chan  (css:spach:chan?)
 css:fdcch:super:stop
 css:fvc:sat (css:call:sat?)
 css:fvc:start
 rvc:start
 print " Waiting for SAT tone"
 print " Hit any key to skip"
 do
  a = meas:sat?
  tpause
 until key? or (abs(a-satf) < 5)
 if(key?)
  a = key
  print " No SAT Tone"
 else
  a = meas:sat?
  print " SAT tone of phone is ",%1d,a
 endif
 satn = css:spach:scc?
 css:fvc:ef 0
 css:fvc:pscc (:css:spach:scc?)
 print " Sending Alert and Waiting for Signaling Tone"
 print " Hit any key to skip or Q to quit"
```

(dcchcss.mac program file and assign_avc macro continues on following page.)

```
 do
  css:fvc:order:alert
  tpause
  a = meas:st?
 until key? or (abs(a-10000) < 5)
 if(key?)
  print " No Signaling Tone"
  return
 endif
 print " Answer phone"
 print " Waiting for Connect"
 print " Hit any key to skip or Q to quit"
 do
  a = meas:st?
  tpause
 until key? or (abs(a - 10000) > 500)
 if(key?)
  return
 endif
 print " Thank you"
end


*dmc "auth_esn",begin
 a = rdcch:nl3m?
 do
  delay 20
  ++i
  if (i > 7)
   i = 0
  endif
  rdcch:l3data:sel i
  $ = rdcch:msgtype?
  if $ != "-1"
   --a
   print " Message type is ",$
  endif
  if $ = "SERIAL NUMBER"
   Sernum = rdcch:esn?
   print " SERIAL # is ",%03d,(Sernum >> 24)&#hff,%08d,Sernum & #ffffff
  elif $ = "AUTHENTICATION"
   disp_auth
  endif
 until key? or (a = 0)
end
```

(dcchcss.mac program file continues on following page.)

```
*dmc "reg_accept",begin
 css:spach:bu 3
 css:spach:bt 0
 css:spach:idt 2
 css:spach:min1 phnum
 css:spach:bcn 0
 css:spach:pfm 0
 css:spach:mm 0
 css:spach:ehi 0
 css:spach:enable:rnum:list 0
 css:spach:enable:pfc:assignment 0
 css:spach:enable:msid:assignment 0
 css:spach:enable:user:group 0
 css:spach:enable:psid_rsid:avail 0
 css:spach:enable:disp 0
 css:spach:enable:dir:addr 0
 css:spach:enable:dir:sub 0
 css:spach:msgtype1:reg_accept
 send_arch 18
 disp_reg
 print " Sending Registration Accept to Mobile"
end

*dmc "analog_vc_des",begin
 var satf

 print " Assigning Analog Voice Channel"
 css:spach:bu 3
 css:spach:bt 0
 css:spach:idt 2
 css:spach:min1 phnum
 css:spach:bcn 0
 css:spach:pfm 0
 css:spach:mm 0
 css:spach:ehi 0
 css:spach:msgtype1:analog
 css:spach:mem 0
 css:spach:scc 2
 css:spach:vmac 5
 css:spach:chan 200
 css:spach:protocol 2
 css:spach:enable:sub 0
 css:spach:enable:dtx 0
 css:spach:enable:display 0
 send_arch 20
 delay 32*20
```

(dcchcss.mac program file and analog_vc_des macro continues on following page.)

```
 case css:spach:scc?
  of 0:
   satf = 5970
  of 1:
   satf = 6000
  of 2:
   satf = 6030
 endcase

 css:fdcch:super:stop
 css:chan 200
 css:fvc:start
 css:fvc:sat satf
 rvc:stop
 rvc:start
 host "dup:inp:agc:auto"
 print " AVC Channel is 200"
end


*dmc "conversation",begin
 print " Waiting For SAT Tone"
 delay 3000
 print " SAT Freq is ",%1d,:meas:sat?
end


*dmc "restart_dcch",begin
 css:chan 1000
 css:rate 0
 css:slot 1
 css:fdcch:super:dvcc (css:fbcch:dvcc?)
 css:fdcch:super:start
 css:rflvl -55
 set_dig_agc (css:fbcch:acc:ms_pwr?)
 if (css:fbcch:access:burst?)
  rdcch:length:abbreviated
 else
  rdcch:length:normal
 endif
 rdcch:l3data:sel 0
 print " Restarting the DCCH"
end
```

(dcchcss.mac program file continues on following page.)

```
*dmc "assign_dtc",begin
 css:spach:bu 3
 css:spach:bt 0
 css:spach:dvcc 22
 css:spach:dmac 3
 css:spach:chan 25
 css:spach:ats 3
 css:spach:sb 0
 css:spach:protocol 2
 css:spach:ta 2
 css:spach:mode:dic 0
 css:spach:msgtypel:digital
 send_arch 19
 print %1d," DTC Channel is ",css:spach:chan?
 print %1d," Slot is ",css:spach:ats?
 print %1d," DVCC is ",css:spach:dvcc?
 print %1d," DMAC is ",css:spach:dmac?
 css:fdcch:super:stop
 css:chan (css:spach:chan?)
 css:fdtc:dvcc (css:spach:dvcc?)
 css:fdtc:start
 css:slot (css:spach:ats?)
 rdtc:start
 delay 500
 css:fdtc:ta (css:spach:ta?)
 css:fdtc:enable:ta 1
 print " Sending PLC and waiting for PLC Acknowledge"
 print " Hit any key to skip"
 do
  css:fdtc:facch:plc
  delay 600
  $ = rdtc:facch:msgtype?
 until key? or ($ = "PLC ACK")
 if(key?)
  a=key
  print " No PLC Acknowledge"
 else
  print " Received PLC Acknowledge"
 endif
 css:fdtc:signal:pitch 0
 css:fdtc:signal:cadence 4
 css:fdtc:calling:type 0
 css:fdtc:calling:planid 0
 css:fdtc:calling:pi 0
 css:fdtc:calling:si 0
 css:fdtc:calling:num "316/522-4981"
 css:fdtc:enable:signal 1
 css:fdtc:enable:calling:num 1
 print " Sending Alert and waiting for Mobile Acknowledge"
 print " Hit any key to skip or Q to quit"
```

(dcchcss.mac program file and assign_dtc macro continues on following page.)

```
 do
  css:fdtc:facch:alert
  delay 500
  $ = rdtc:facch:msgtype?
 until key? or ($ = "MOBILE ACK")
 if(key?)
  print " No Mobile Acknowledge"
  return
 endif
 print " Received Mobile Acknowledge"
 print " Please Answer the Phone"
 print " Waiting for Connect"
 print " Hit any key to skip or Q to quit"
 do
  delay 20
  $ = rdtc:facch:msgtype?
 until key? or ($ = "CONNECT")
 if(key?)
  return
 endif
 print " Thank You"
 print " Sending Base Station Acknowledge"
 css:fdtc:amt:connect
 css:fdtc:facch:bsack
end

/*
*** Section 11 - BMI Originated SMS on DCCH
*/
*dmc "sms_on_dcch",begin
 print "\n\nSection 11 - BMI Originated SMS on DCCH\n"
 css:spach:bu 7
 css:spach:bt 0
 css:spach:msgtype1:spach
 css:spach:not 26
 rdcch:l3data:sel 0
 pch_sub = calc_pch_sub
 print " Sending Spach Notification of R-Data Message"
 print " Waiting for Confirmation"
 print " Hit any key to skip"
```

(dcchcss.mac program file and sms_on_dcch macro continues on following page.)

```
 do
  send_pch pch_sub
  delay 500
  $ = rdcch:msgtype?
  if $ != "-1"
   print " Message type is ",$
  endif
 until key? or ($ = "SPACHCON")
 if(key?)
  a=key
  print " No SPACH Confirmation"
 else
  print " Received Spach Confirmation"
  auth_esn
 endif
 msg = "Digital Control Channel Test Message."
 sms_dcch
end

/*
*** Section 10 - Unique Challenge on DCCH
*/
*dmc "uchal_on_dcch",begin
 print "\n\nSection 10  - Unique Challenge on DCCH\n"
 css:spach:bu 7
 css:spach:bt 0
 css:spach:randu #h123456
 css:spach:msgtype1:uchal
 pch_sub = calc_pch_sub
 send_pch pch_sub
 print " Sending Unique Challenge"
 print %06h," RANDU is 0x",css:spach:randu?
 rdcch:l3data:sel 0
 print " Waiting for Confirmation"
 print " Hit any key to skip or Q to quit"
 do
  delay 100
  $ = rdcch:msgtype?
  if $ != "-1"
   print " Message type is ",$
  endif
 until key? or ( $= "UCHAL")
 if(key?)
  print " No Unique Challenge Confirmation"
  return
 endif
```

(dcchcss.mac program file and uchal_on_dcch macro continues on following page.)

```
 print " Received Unique Challenge Confirmation"
 delay 100
 cave:esn Sernum
 cave:min phnum
 cave:randu (css:spach:randu?)
 print %05h," AUTHU returned is 0x",rdcch:authu?
 print %05h," Calculated Cave AUTHU is 0x",cave:authu?
end

/*
*** Section 9 - BMI Release on the DTC
*/
*dmc "release_from_dtc",begin
 print "\n\nSection 9 - BMI Release on the DTC\n"
 css:fdtc:enable:dcch 0
 css:fdtc:facch:release
 print " Sending release to Mobile"
 print " Waiting for Mobile Acknowledge"
 print " Hit any key to skip"
 do
  delay 100
  $ = rdtc:facch:msgtype?
 until (key?) or ( $ = "MOBILE ACK")
 css:chan 1000
 css:slot 1
 set_dig_agc (css:fbcch:acc:ms_pwr?)
 css:fdcch:super:dvcc (css:fbcch:dvcc?)
 css:fdcch:super:start
 css:rflvl -55
 if(key?)
  a=key
  print " No Mobile Acknowledge"
 else
  print " Received Mobile Ack"
 endif
 print " DCCH Channel is 1000"
 print " DVCC is ",%1d,css:fbcch:dvcc?
 if (css:fbcch:access:burst?)
  rdcch:length:abbreviated
 else
  rdcch:length:normal
 endif
 rdcch:l3data:sel 0
 print " Hit any key when camping to continue"
```

(dcchcss.mac program file and release_from_dtc macro continues on following page.)

```
 do
  delay 100
  $ = rdcch:msgtype?
  if $ != "-1"
   print " Message type is ",$
  endif
 until key? or ($ = "REGISTRATION")
 if(key?)
  a = key
  return
 endif
 phnum = rdcch:min?
 print " The phone registered"
 reg_accept
end


/*
*** Section 8 - SMS on the DTC
*/
*dmc "sms_on_dtc",begin
 print "\n\nSection 8 - SMS on DTC\n"
 msg = "Digital Traffic Channel Test Message."
 sms_dtc
end


/*
*** Section 7 - BMI Origination on DCCH with Authentication assigned to a DTC
*/
*dmc "page_with_auth",begin
 print "\n\nSection 7 - BMI Origination on DCCH\n"
 css:spach:bu 5
 css:spach:service 3
 css:spach:min1 phnum
 pch_sub = calc_pch_sub
 send_hard pch_sub
 rdcch:l3data:sel 0
 print " Sending Hard Page and waiting for page response"
 print " Hit any key to skip or Q to quit"
 do
  delay 20
  $ = rdcch:msgtype?
  if $ != "-1"
   print " Message type is ",$
  endif
 until key? or $ = "PAGE RESPONSE"
```

(dcchcss.mac program file and page_with_auth macro continues on following page.)

```
 if(key?)
  print " No Page Response"
  return
 endif
 phnum = rdcch:min?
 disp_page_resp
 auth_esn
 assign_dtc
end

/*
*** Section 6 - SSD Update on DCCH
*/
*dmc "ssd_update",begin
  print "\n\nSection 6 - SSD Update on DCCH\n"
 css:spach:bu 7
 css:spach:bt 0
 css:spach:randssd1 #h123456
 css:spach:randssd2 #h789abcde
 print " RANDSSD is 0x",
 print %06h,css:spach:randssd1?,
 print %08h,css:spach:randssd2?
 css:spach:msgtype1:ssdup
 pch_sub = calc_pch_sub
 rdcch:l3data:sel 0
 print " Waiting for Base Station Challenge from mobile"
 print " Hit any key to skip or Q to quit"
 do
  send_pch pch_sub
  delay 100
  $ = rdcch:msgtype?
  if $ != "-1"
   print " Message type is ",$
  endif
 until key? or ( $= "BSCHAL")
 if(key?)
  print " No Base Station Challenge"
  return
 endif
 delay 100
 cave:randbs (rdcch:randbs?)
 print %08h," RANDBS is 0x",cave:randbs?
 cave:esn Sernum
 print " SERIAL # is ",%03d,(Sernum >> 24)&#hff,%08d,Sernum & #hffffff
 cave:min phnum
 print " MIN is ",phnum
 cave:randssd:ms (css:spach:randssd1?)
 cave:randssd:ls (css:spach:randssd2?)
 $ = "0"
```

(dcchcss.mac program file and ssd_update macro continues on following page.)

```
 cave:akey:digits $
 print %06d," A-KEY is ",$,cave:akey:check?
 print %05h," AUTHBS is 0x",cave:authbs?
 css:spach:bu 3
 css:spach:bt 0
 css:spach:authbs (cave:authbs?)
 css:spach:msgtype1:bschalcon
 send_arch 19
 rdcch:l3data:sel 0
 print " Waiting for SSD Update Confirmation"
 print " Hit any key to skip or Q to quit"
 do
  delay 100
  $ = rdcch:msgtype?
  if $ != "-1"
   print " Message type is ",$
  endif
 until key? or ($ = "SSD UPDATE")
 if(key?)
  print " No SSD Update Confirmation"
  return
 endif
 c = rdcch:confirm:ssdup:status?
 if c = 0
  print " SSD UPDATE Successful"
 else
  print " SSD UPDATE Unsuccessful"
 endif
end

/*
*** Section 10 - MS Release from DTC
*/
*dmc "ms_release",begin
  print "\n\nSection 10 - Mobile Release from DTC\n"
 css:fdtc:enable:dcchinfo 1
 css:fdtc:dcchinfo:number 1
 css:fdtc:dcchinfo:hyperband 0,0
 css:fdtc:dcchinfo:channel 0,1000
 css:fdtc:dcchinfo:dvcc 0,(css:fbcch:dvcc?)
 css:fdtc:enable:ldp:bsack 0
 print " Press the END key"
 print " Release with info is to channel 1000"
 print " Waiting for Release"
 print " Hit any key to skip or Q to quit"
```

(dcchcss.mac program file and ms_release macro continues on following page.)

```
 do
  tpause
  $ = rdtc:facch:msgtype?
 until key? or ($ ="RELEASE" )
 if(key?)
  print " No Release"
 else
  print " Received Release"
  delay 50
 endif
 restart_dcch
end

/*
*** Section 4 - Handoff from AVC to DTC
*/
*dmc "ad_handoff", begin
 print "\n\nSection 4 - Handoff from AVC to DTC\n"
 css:fvc:pscc (css:spach:scc?)
 css:fvc:ef 0
 css:fvc:dvcc 20
 css:fvc:mem 0
 css:fvc:pm 0
 css:fvc:sbi 0
 css:fvc:ta 3
 css:fvc:dmac 3
 css:fvc:handoff:channel 100
 css:fvc:order:slot2
 rvc:stop
 css:chan (css:fvc:handoff:channel?)
 css:fvc:sat 0
 css:fdtc:start
 css:slot 2
 css:fdtc:dvcc (css:fvc:dvcc?)
 print " DTC Channel is ",%1d,(css:fvc:handoff:channel?)
 print " DVCC is ",%1d,(css:fvc:dvcc?)
 print " TA is ",%1d,(css:fvc:ta?)
 print " DMAC is ",%1d,(css:fvc:dmac?)

 set_dig_agc(css:fvc:dmac?)
 rdtc:stop
 rdtc:start
 delay 1000
 css:fdtc:ta 3
 css:fdtc:enable:ta 1
 print " Sending PLC"
 print " Waiting for PLC Acknowledge"
 print " Hit any key to skip or Q to quit"
```

(dcchcss.mac program file and ad_handoff macro continues on following page.)

```
 do
  css:fdtc:facch:plc
  delay 500
  $ = rdtc:facch:msgtype?
 until key? or ($ = "PLC ACK")
 if(key?)
  print " No PLC Acknowledge"
  return
 endif
 print " Received PLC Acknowledge"
 delay 1000
end

/*
*** Section 3 - MS Origination on DCCH assigned to AVC
*/
*dmc "mob_orig_avc",begin
 print "\n\nSection 3 - Mobile Origination on DCCH\n"
 print " Enter a valid phone number and press send"
 print " Waiting for Origination"
 print " Hit any key to skip or Q to quit"
 rdcch:l3data:sel 0
 do
  delay 100
  $ = rdcch:msgtype?
  if $ != "-1"
   print " Message type is ",$
  endif
 until key? or ($ = "ORIGINATION")
 if(key?)
  print " Did not receive Origination"
  return
 endif
 phnum = rdcch:min?
 print " Thank you.  Please wait."
 print " Called address is ",rdcch:called:addr?
 auth_esn
 analog_vc_des
 conversation
end
```

(dcchcss.mac program file continues on following page.)

```
/*
*** Section 2 - Registration on DCCH
*/
*dmc "registration",begin
 print "\n\nSection 2 - Power Up Registration on DCCH\n"
 rdcch:length:abbreviated
 Print " Depress the ENTER key while at the same time turning on the PHONE"
 while ! key?
  tpause
 wend
 s = ticks?
 a = key
 rdcch:l3data:sel 0
 print " Waiting for Registration"
 print " Hit any key to skip or Q to quit"
 do
  delay 100
  $ = rdcch:msgtype?
  if $ != "-1"
   print " Message type is ",$
  endif
 until key? or ($ = "REGISTRATION")
 if(key?)
  print " The phone did not register"
  return
 endif
 print " The phone registered"
 phnum = rdcch:min?
 q = ticks?
 t = s - q
 y = abs (t/1000)
 print %1d," Time to register was ",y," seconds"
 reg_accept
 auth_esn
end
```

(dcchcss.mac program file continues on following page.)

```
/*
*** Section 1 - Build DCCH
*/
*dmc "build_dcch",begin
 print " \n\nSection 1 - Build DCCH\n"
 css:chan 1000
 print %1d," DCCH Channel is ",css:chan?
 css:rate 0
 css:slot 1
 css:rflvl -55
 dcch_setup
 fbcch_setup
 ebcch_setup
 build_bcch
 set_dig_agc (css:fbcch:acc:ms_pwr?)
 css:fdcch:super:dvcc (css:fbcch:dvcc?)
 css:fdcch:super:start
end


/*
*** Startup Macros
*/
*dmc "startup",begin
 string ident

 print "Setting up Sp Tst, please wait."
 css:conf:user
 ident = *idn?
 if(strpos(ident,"1900") != -1)
  interp "freq:band 1"   // this command is for the HOST only
  print "1900Sp Tst"
 endif
 box 0,0,0,639,349
 center "Cell Site Simulation Demonstration",0,150,640
end
```

(dcchcss.mac program file continues on following page.)

```
/*
*** DCCH Cell Site Simulation
*/
*dmc "dcch_css",begin
 var section,key_value
 var done=0
 key_value = 0
 section=0
 do
  case section
   of 0:
    startup
   of 1:
    build_dcch
   of 2:
    registration
   of 3:
    mob_orig_avc
   of 4:
    ad_handoff
   of 5:
    ms_release
   of 6:
    ssd_update
   of 7:
    page_with_auth
   of 8:
    sms_on_dtc
   of 9:
    release_from_dtc
   of 10:
    uchal_on_dcch
   of 11:
    sms_on_dcch
   otherwise:
    done = 1
  endcase
  ++section
  if key?
   key_value=key
  endif
 until (key_value=81) or (key_value=113) or (done=1)
 print "\nTest Completed."
 css:stop
end
```

SECTION 11 - IS-136 COMMAND REFERENCE

This section directs the IS-136 user to the Special Test ("Sp Tst") TMAC commands needed to build Layer 3 messages.

This section consists of tables containing the following:

- IS-136 Layer 3 Information Elements consisting of a Name, Type (column with shaded-in heading) and Length.
- Sp Tst TMAC Encode and Decode commands and Page numbers where command and description can be found.

REFERENCE TABLE	REFERENCE TABLE TITLE	PAGE NO
	F-BCCH LAYER 3 MESSAGES	
11-1	DCCH Structure	11-4
11-2	Access Parameters	11-5
11-3	Control Channel Selection Parameters	11-6
11-4	Registration Parameters	11-7
11-5	System Identity	11-8
11-6	BSMC Message Delivery	11-9
11-7	Mobile Assisted Channel Allocation	11-9
11-8	Overload Class	11-10
11-9	Service Menu	11-10
11-10	SOC/BSMC Identification	11-11
11-11	SOC Message Delivery	11-11
11-12	Mobile Assisted Channel Allocation (Multi Hyperband)	11-12
	E-BCCH LAYER 3 MESSAGES	
11-13	Neighbor Cell	11-13
11-14	Regulatory Configuration	11-16
11-15	BSMC Message Delivery	11-16
11-16	Emergency Information Broadcast	11-17
11-17	Mobile Assisted Channel Allocation	11-17
11-18	Service Menu	11-18
11-19	SOC/BSMC Identification	11-19
11-20	SOC Message Delivery	11-19
11-21	Time and Date	11-20
11-22	Neighbor Service Info	11-20
11-23	Alternate RCI Info	11-21

REFERENCE TABLE	REFERENCE TABLE TITLE	PAGE NO
	E-BCCH LAYER 3 MESSAGES (cont)	
11-24	Neighbor Cell (Multi Hyperband)	11-22
11-25	Neighbor Service Info (Multi Hyperband)	11-26
11-26	Mobile Assisted Channel Allocation (Multi Hyperband)	11-27
	SPACH LAYER 3 MESSAGES	
11-27	Analog Voice Channel Designation	11-28
11-28	Audit Order	11-29
11-29	Base Station Challenge Order Confirmation	11-30
11-30	BSMC Message Delivery	11-31
11-31	Capability Request	11-32
11-32	Digital Traffic Channel Designation	11-33
11-33	Directed Retry	11-35
11-34	Message Waiting	11-36
11-35	Page	11-37
11-36	Parameter Update	11-40
11-37	R-DATA	11-41
11-38	R-DATA ACCEPT	11-44
11-39	R-DATA REJECT	11-45
11-40	Registration Accept	11-46
11-41	Registration Reject	11-49
11-42	Release	11-50
11-43	Reorder/Intercept	11-51
11-44	SOC Message Delivery	11-52
11-45	SPACH Notification	11-53
11-46	SSD Update Order	11-54
11-47	Test Registration Response	11-55
11-48	Unique Challenge Order	11-56
11-49	User Alert	11-57
11-50	Queue Disconnect Ack	11-58
11-51	Queue Update	11-59

REFERENCE TABLE	REFERENCE TABLE TITLE	PAGE NO
	RACH LAYER 3 MESSAGES	
11-52	Audit Confirmation	11-60
11-53	Authentication	11-61
11-54	Base Station Challenge Order	11-61
11-55	BSMC Message Delivery	11-62
11-56	Capability Report	11-63
11-57	MACA Report	11-65
11-58	Origination	11-66
11-59	Page Response	11-69
11-60	Queue Disconnect	11-71
11-61	R-DATA	11-72
11-62	R-DATA ACCEPT	11-75
11-63	R-DATA REJECT	11-76
11-64	Registration	11-77
11-65	Serial Number	11-78
11-66	SOC Message Delivery	11-79
11-67	SPACH Confirmation	11-79
11-68	SSD Update Order Confirmation	11-80
11-69	Test Registration	11-80
11-70	Unique Challenge Order Confirmation	11-81

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:STRUCTure *n*	9-252	FDCCH:FBCCH:MSGtype?	9-80
Number of F-BCCH	M	3	CSS:FBCCH:NUMber:FBCCH *n*	9-255	FDCCH:FBCCH:NUMber:FBCCH?	9-81
Number of E-BCCH	M	3	CSS:FBCCH:NUMber:EBCCH *n*	9-255	FDCCH:FBCCH:NUMber:EBCCH?	9-81
Number of S-BCCH	M	4	CSS:FBCCH:NUMber:SBCCH *n*	9-255	FDCCH:FBCCH:NUMber:SBCCH?	9-81
Number of Reserved Slots	M	3	CSS:FBCCH:NUMber:REServed *n*	9-255	FDCCH:FBCCH:NUMber:REServed?	9-81
Hyperframe Counter	M	4	CSS:FBCCH:HYPERframe *n*	9-255	FDCCH:FBCCH:HYPERframe?	9-81
Primary Superframe Indicator	M	1	CSS:FBCCH:SUPERframe *n*	9-256	FDCCH:FBCCH:SUPERframe?	9-81
Slot Configuration	M	2	CSS:FBCCH:CONfiguration *n*	9-256	FDCCH:FBCCH:CONfiguration?	9-82
DVCC	M	8	CSS:FBCCH:DVCC *n*	9-256	FDCCH:FBCCH:DVCC?	9-82
MAX_SUPPORTED_PFC	M	3	CSS:FBCCH:PFC *n*	9-256	FDCCH:FBCCH:PFC?	9-82
PCH_DISPLACEMENT	M	3	CSS:FBCCH:PCH *n*	9-256	FDCCH:FBCCH:PCH?	9-82
PFM_DIRECTION	M	1	CSS:FBCCH:PFM *n*	9-257	FDCCH:FBCCH:PFM?	9-82
Number of Non-PCH Subchannel Slots	M	2	CSS:FBCCH:NUMber:NON_PCH *n*	9-255	FDCCH:FBCCH:NUMber:NON_PCH?	9-81
Extended Hyperframe Counter	O	7	CSS:FBCCH:ENABLE:EXTENDED *n*	9-275	N/A	–
			CSS:FBCCH:EXTended *n*	9-256	FDCCH:FBCCH:EXTended:COUNt?	9-81
CBN_High	O	20	CSS:FBCCH:ENABLE:CBN:HIGH *n*	9-274	N/A	–
			CSS:FBCCH:CBN:HIGH *n*	9-257	FDCCH:FBCCH:CBN:HIGH?	9-82
Non-Public Probability Blocks	O	9 to 24	CSS:FBCCH:ENABLE:NONPublic: PROBability *n*	9-276	N/A	–
			CSS:FBCCH:NONPublic:PROBability: LENGth *n*	9-257	FDCCH:FBCCH:NONPublic: PROBability:LENGth?	9-83
			CSS:FBCCH:NONPublic:PROBability: BLOCK *n*	9-257	FDCCH:FBCCH:NONPublic: PROBability:BLOCk?	9-83

Table 11-1 F-BCCH - DCCH Structure

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:ACCess *n*	9-252	FDCCH:FBCCH:MSGtype?	9-80
AUTH	M	1	CSS:FBCCH:AUTH *n*	9-258	FDCCH:FBCCH:AUTH?	9-83
S	M	1	CSS:FBCCH:S *n*	9-258	FDCCH:FBCCH:S?	9-83
RAND	M	32	CSS:FBCCH:RAND *n*	9-258	FDCCH:FBCCH:RAND?	9-83
MS_ACC_PWR	M	4	CSS:FBCCH:ACCess:MS_PWR *n*	9-259	FDCCH:FBCCH:ACCess:MS_PWR?	9-84
Access Burst Size	M	1	CSS:FBCCH:ACCess:BURSTsize *n*	9-259	FDCCH:FBCCH:ACCess:BURSTsize?	9-84
Max Retries	M	3	CSS:FBCCH:MAX:RETries *n*	9-260	FDCCH:FBCCH:MAX:RETries?	9-84
Max Busy/Reserved	M	1	CSS:FBCCH:MAX:BUSY *n*	9-260	FDCCH:FBCCH:MAX:BUSY?	9-84
Max Repetitions	M	2	CSS:FBCCH:MAX:REPetitions *n*	9-260	FDCCH:FBCCH:MAX:REPetitions?	9-84
Max Stop Counter	M	1	CSS:FBCCH:MAX:STOP *n*	9-260	FDCCH:FBCCH:MAX:STOP?	9-84
R-DATA Message Length	M	3	CSS:FBCCH:RDATA:LENGth *n*	9-261	FDCCH:FBCCH:RDATA:LENGth?	9-84
Cell Barred	M	5	CSS:FBCCH:BARred *n*	9-261	FDCCH:FBCCH:BARred?	9-84
Subaddressing Support	M	1	CSS:FBCCH:SUBaddressing *n*	9-261	FDCCH:FBCCH:SUBaddressing?	9-85
Delay Interval Compensation Mode	M	1	CSS:FBCCH:DIC *n*	9-261	FDCCH:FBCCH:DIC?	9-85
AUTH Map	O	10	CSS:FBCCH:ENABLE:MAP:AUTH *n*	9-276	N/A	–
			CSS:FBCCH:MAP:AUTH *n*	9-271	FDCCH:FBCCH:MAP:AUTH?	9-91

Table 11-2 F-BCCH - Access Parameters

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:SELection *n*	9-252	FDCCH:FBCCH:MSGtype?	9-80
SS_SUFF	M	5	CSS:FBCCH:SS_SUFF *n*	9-261	FDCCH:FBCCH:SS_SUFF?	9-85
RSS_ACC_MIN	M	5	CSS:FBCCH:ACCess:RSS_MIN *n*	9-259	FDCCH:FBCCH:ACCess:RSS_MIN?	9-84
SCANINTERVAL	M	4	CSS:FBCCH:SCAN:INTerval *n*	9-262	FDCCH:FBCCH:SCAN:INTerval?	9-85
Initial Selection Control	M	1	CSS:FBCCH:INITial *n*	9-262	FDCCH:FBCCH:INITial?	9-85
DELAY	M	4	CSS:FBCCH:DELay *n*	9-262	FDCCH:FBCCH:DELay?	9-85
Scanning Option Indicator	M	1	CSS:FBCCH:SCAN:OPTION *n*	9-262	FDCCH:FBCCH:SCAN:OPTion?	9-85
Additional DCCH Information	O	20 to 111	CSS:FBCCH:ENABLE:ADDitional:DCCH *n*	9-274	N/A	–
			CSS:FBCCH:ADDitional:NUMber *n*	9-263	FDCCH:FBCCH:ADDitional:NUMber?	9-85
			CSS:FBCCH:ADDitional:DCCH:CHANnel *n,m*	9-263	FDCCH:FBCCH:ADDitional:CHANnel? *n*	9-86
			CSS:FBCCH:ADDitional:DCCH:SLOT *n,m*	9-263	FDCCH:FBCCH:ADDitional:SLOT? *n*	9-86

Table 11-3 F-BCCH - Control Channel Selection Parameters

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:REGistration *n*	9-253	FDCCH:FBCCH:MSGtype?	9-80
REGH	M	1	CSS:FBCCH:REGH *n*	9-263	FDCCH:FBCCH:REGH?	9-86
REGR	M	1	CSS:FBCCH:REGR *n*	9-263	FDCCH:FBCCH:REGR?	9-86
PUREG	M	1	CSS:FBCCH:PUREG *n*	9-264	FDCCH:FBCCH:PUREG?	9-86
PDREG	M	1	CSS:FBCCH:PDREG *n*	9-264	FDCCH:FBCCH:PDREG?	9-86
SYREG	M	1	CSS:FBCCH:SYREG *n*	9-264	FDCCH:FBCCH:SYREG?	9-86
LAREG	M	1	CSS:FBCCH:LAREG *n*	9-264	FDCCH:FBCCH:LAREG?	9-86
DEREG	M	1	CSS:FBCCH:DEREG *n*	9-264	FDCCH:FBCCH:DEREG?	9-86
FOREG	M	1	CSS:FBCCH:FOREG *n*	9-264	FDCCH:FBCCH:FOREG?	9-87
Capability Request	M	1	CSS:FBCCH:CAPability *n*	9-265	FDCCH:FBCCH:CAPability?	9-87
Present RNUM	O	14	CSS:FBCCH:ENABLE:RNUM *n*	9-277	N/A	–
			CSS:FBCCH:RNUM *n*	9-265	FDCCH:FBCCH:RNUM:NUMber?	9-87
REG Period	O	13	CSS:FBCCH:ENABLE:REGPER *n*	9-277	N/A	–
			CSS:FBCCH:REGPER *n*	9-265	FDCCH:FBCCH:REGistration:PERiod?	9-87
REGID Parameters	O	28	CSS:FBCCH:ENABLE:REGID *n*	9-277	N/A	–
			CSS:FBCCH:REGID:ID *n*	9-265	FDCCH:FBCCH:REGID:ID?	9-87
			CSS:FBCCH:REGID:PER *n*	9-265	FDCCH:FBCCH:REGID:PER?	9-87
Non-Public Registration Control	O	6	CSS:FBCCH:ENABLE:NONPublic: REGistration *n*	9-276	N/A	–
			CSS:FBCCH:NONPublic:REGistration: CONTrol *n*	9-258	FDCCH:FBCCH:NONPublic: REGistration:CONTrol?	9-83
Reg-Info Map	O	8	CSS:FBCCH:ENABLE:MAP: REG_INFO *n*	9-276	N/A	–
			CSS:FBCCH:MAP:REG_INFO *n*	9-271	FDCCH:FBCCH:MAP:REG_INFO?	9-93

Table 11-4 F-BCCH - Registration Parameters

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:SYSID *n*	9-253	FDCCH:FBCCH:MSGtype?	9-80
SID	M	15	CSS:FBCCH:SID *n*	9-266	FDCCH:FBCCH:SID?	9-88
Network Type	M	3	CSS:FBCCH:NETwork *n*	9-266	FDCCH:FBCCH:NETwork?	9-88
Protocol Version	M	4	CSS:FBCCH:PROTocol *n*	9-266	FDCCH:FBCCH:PROTocol?	9-88
PSID/RSID Set	O	37+17*N	CSS:FBCCH:ENABLE:PSID_RSID *n*	9-277	N/A	–
			CSS:FBCCH:PSID_RSID:SOC *n*	9-266	FDCCH:FBCCH:PSID_RSID:SOC?	9-88
			CSS:FBCCH:PSID_RSID:NUMber *n*	9-266	FDCCH:FBCCH:PSID_RSID:NUMber?	9-88
			CSS:FBCCH:PSID_RSID:TYPE *n,m*	9-267	FDCCH:FBCCH:PSID_RSID:TYPE? *n*	9-88
			CSS:FBCCH:PSID_RSID:VALUE *n,m*	9-267	FDCCH:FBCCH:PSID_RSID:VALUE? *n*	9-88
Mobile Country Code	O	14	CSS:FBCCH:ENABLE:COUNTRY:CODE *n*	9-274	N/A	–
			CSS:FBCCH:COUNTRY:CODE *n*	9-267	FDCCH:FBCCH:MCC:CODE?	9-89
Alphanumeric System ID	O	12 to 132	CSS:FBCCH:ENABLE:ALPHA:SID *n*	9-274	N/A	–
			N/A	–	FDCCH:FBCCH:ALPHA:SID:LENGth?	9-89
			CSS:FBCCH:ALPHA:SID *"n"*	9-267	FDCCH:FBCCH:ALPHA:SID:CHARacters?	9-89

Table 11-5 F-BCCH - System Identity

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:BSMC *n*	9-253	FDCCH:FBCCH:MSGtype?	9-80
BSMC	M	8	CSS:FBCCH:BSMC *n*	9-267	FDCCH:FBCCH:BSMC?	9-89
Custom Control	M	1 to 512	CSS:FBCCH:CUSTOM:LENGth *n*	9-268	FDCCH:FBCCH:CUSTOM:LENGth?	9-89
			CSS:FBCCH:CUSTOM:CONTrol *n,m*	9-268	FDCCH:FBCCH:CUSTOM:CONTrol? *n*	9-89

Table 11-6 F-BCCH - BSMC Message Delivery

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:MACA *n*	9-253	FDCCH:FBCCH:MSGtype?	9-80
MACA_STATUS	M	2	CSS:FBCCH:MACA:STATus *n*	9-268	FDCCH:FBCCH:MACA:STATus?	9-90
MACA_TYPE	M	4	CSS:FBCCH:MACA:TYPE *n*	9-268	FDCCH:FBCCH:MACA:TYPE?	9-90
MACA_8_CONTROL	O	5	CSS:FBCCH:ENABLE:MACA:EIGHT:CONTrol *n*	9-275	N/A	–
			CSS:FBCCH:MACA:EIGHT:CONTrol *n*	9-268	FDCCH:FBCCH:MACA:EIGHT:CONTrol?	9-90
MACA_LIST	O	19 to (19+11*N)	CSS:FBCCH:ENABLE:MACA:LIST *n*	9-275	N/A	–
			CSS:FBCCH:MACA:LIST:NUMber *n*	9-269	FDCCH:FBCCH:MACA:LIST:NUMber?	9-90
			CSS:FBCCH:MACA:LIST:CHAN *n,m*	9-269	FDCCH:FBCCH:MACA:LIST:CHAN? *n*	9-90

Table 11-7 F-BCCH - Mobile Assisted Channel Allocation

			TMAC COMMANDS			
Information Element		**Length**	**ENCODE**	**Page**	**DECODE**	**Page**
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:OLC *n*	9-253	FDCCH:FBCCH:MSGtype?	9-80
OLC	M	16	CSS:FBCCH:OLC *n*	9-270	FDCCH:FBCCH:OLC?	9-91

Table 11-8 F-BCCH - Overload Class

			TMAC COMMANDS			
Information Element		**Length**	**ENCODE**	**Page**	**DECODE**	**Page**
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:SERVice *n*	9-254	FDCCH:FBCCH:MSGtype?	9-80
Voice Privacy Mode Map	M	4	CSS:FBCCH:MAP:VPM *n*	9-270	FDCCH:FBCCH:MAP:VPM?	9-91
Data Privacy Mode Map	M	4	CSS:FBCCH:MAP:DPM *n*	9-270	FDCCH:FBCCH:MAP:DPM?	9-92
Voice Coder Map	M	6	CSS:FBCCH:MAP:CODER *n*	9-270	FDCCH:FBCCH:MAP:CODER?	9-92
Message Encryption Algorithm Map	M	8 to 40	CSS:FBCCH:MAP:MEA:DOMAIN *n*	9-271	FDCCH:FBCCH:MAP:MEA:DOMAIN?	9-92
			CSS:FBCCH:MAP:MEA: ALGORithms *n,m*	9-271	FDCCH:FBCCH:MAP:MEA: ALGORithms? *n*	9-92
Message Encryption Key Map	M	4	CSS:FBCCH:MAP:MEK *n*	9-271	FDCCH:FBCCH:MAP:MEK?	9-92
Menu Map	M	10	CSS:FBCCH:MAP:MENU *n*	9-272	FDCCH:FBCCH:MAP:MENU?	9-92
FACCH/SACCH ARQ Map	M	1	CSS:FBCCH:MAP:ARQ *n*	9-272	FDCCH:FBCCH:MAP:ARQ?	9-92
User Group Map	M	1	CSS:FBCCH:MAP:USER *n*	9-272	FDCCH:FBCCH:MAP:USER?	9-92
SMS Map	M	2	CSS:FBCCH:MAP:SMS *n*	9-272	FDCCH:FBCCH:MAP:SMS?	9-93
IRA Support	M	1	CSS:FBCCH:IRA *n*	9-272	FDCCH:FBCCH:IRA?	9-93
OATS Support	M	1	CSS:FBCCH:OATS *n*	9-273	FDCCH:FBCCH:OATS?	9-93

Table 11-9 F-BCCH - Service Menu

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:SOC_BSMC *n*	9-254	FDCCH:FBCCH:MSGtype?	9-80
SOC	M	12	CSS:FBCCH:SOC *n*	9-273	FDCCH:FBCCH:SOC?	9-93
BSMC	M	8	CSS:FBCCH:BSMC *n*	9-267	FDCCH:FBCCH:BSMC?	9-89
ALT_SOC_LIST	O	28*S+8	CSS:FBCCH:ENABLE: ALT_SOC_LIST *n*	9-274	N/A	–
			CSS:FBCCH:ALT_SOC:NUMBer *n*	9-273	FDCCH:FBCCH:ALT_SOC:NUMBer?	9-93
			CSS:FBCCH:ALT_SOC:SOC *n,m*	9-273	FDCCH:FBCCH:ALT_SOC:SOC? *n*	9-93
			CSS:FBCCH:ALT_SOC:MAP: PSID_RSID *n,m*	9-273	FDCCH:FBCCH:ALT_SOC:MAP: PSID_RSID? *n*	9-93

Table 11-10 F-BCCH - SOC/BSMC Identification

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:SOC *n*	9-254	FDCCH:FBCCH:MSGtype?	9-80
SOC	M	12	CSS:FBCCH:SOC *n*	9-273	FDCCH:FBCCH:SOC?	9-93
Custom Control	M	1 to 512	CSS:FBCCH:CUSTOM:LENGth *n*	9-268	FDCCH:FBCCH:CUSTOM:LENGth?	9-89
			CSS:FBCCH:CUSTOM:CONTrol *n,m*	9-268	FDCCH:FBCCH:CUSTOM:CONTrol? *n*	9-89

Table 11-11 F-BCCH - SOC Message Delivery

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:FBCCH:PD?	9-80
Message Type	M	6	CSS:FBCCH:MSGtype:MACA_MULti *n*	9-254	FDCCH:FBCCH:MSGtype?	9-80
MACA_STATUS	M	2	CSS:FBCCH:MACA:STATus *n*	9-268	FDCCH:FBCCH:MACA:STATus?	9-90
MACA_TYPE	M	4	CSS:FBCCH:MACA:TYPE *n*	9-268	FDCCH:FBCCH:MACA:TYPE?	9-90
MACA_8_CONTROL	O	5	CSS:FBCCH:ENABLE:MACA:EIGHT:CONTrol *n*	9-275	N/A	–
			CSS:FBCCH:MACA:EIGHT:CONTrol *n*	9-268	FDCCH:FBCCH:MACA:EIGHT:CONTrol?	9-90
MACA_LIST	O	19 to (19+ 11*N)	CSS:FBCCH:ENABLE:MACA:LIST *n*	9-275	N/A	–
			CSS:FBCCH:MACA:LIST:NUMber *n*	9-269	FDCCH:FBCCH:MACA:LIST:NUMber?	9-90
			CSS:FBCCH:MACA:LIST:CHAN *n,m*	9-269	FDCCH:FBCCH:MACA:LIST:CHAN? *n*	9-90
MACA_LIST (Other Hyperband)	O	21 to (21+ 11*P)	CSS:FBCCH:ENABLE:MACA:LIST:OTHER *n*	9-275	N/A	–
			CSS:FBCCH:MACA:LIST:OTHER:HYPERband *n*	9-269	FDCCH:FBCCH:MACA:LIST:OTHER:HYPERband?	9-91
			CSS:FBCCH:MACA:LIST:OTHER:NUMber *n*	9-269	FDCCH:FBCCH:MACA:LIST:OTHER:NUMber?	9-91
			CSS:FBCCH:MACA:LIST:OTHER:CHAN *n,m*	9-269	FDCCH:FBCCH:MACA:LIST:OTHER:CHAN? *n*	9-91

Table 11-12 F-BCCH - Mobile Assisted Channel Allocation (Multi Hyperband)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:NEIGHbor:CELL *n*	9-280	FDCCH:EBCCH:MSGtype?	9-94
SERV_SS	M	4	CSS:EBCCH:SERV_SS *n*	9-283	FDCCH:EBCCH:SERV_SS?	9-94
Non-Public Probability Blocks	O	9 to 24	CSS:EBCCH:ENABLE:NONPublic *n*	9-324	N/A	–
			CSS:EBCCH:NONPublic:LENGth *n*	9-283	FDCCH:EBCCH:NONPublic:PROBability:LENGth?	9-95
			CSS:EBCCH:NONPublic:BLOCK *n*	9-283	FDCCH:EBCCH:NONPublic:PROBability:BLOCk?	9-95
Neighbor Cell List (TDMA)	O	(9+57*N) to (9+77*N)	CSS:EBCCH:ENABLE:NEIGHbor:TDMA *n*	9-324	N/A	–
			CSS:EBCCH:NEIGHbor:TDMA:NUMber *n*	9-284	FDCCH:EBCCH:NEIGHbor:TDMA:NUMber?	9-95
			CSS:EBCCH:NEIGHbor:TDMA:CELL:CHAN *n,m*	9-284	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:CHAN? *n*	9-95
			CSS:EBCCH:NEIGHbor:TDMA:CELL:PROTocol *n,m*	9-284	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:PROTocol? *n*	9-95
			CSS:EBCCH:NEIGHbor:TDMA:CELL:DVCC *n,m*	9-284	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:DVCC? *n*	9-96
			CSS:EBCCH:NEIGHbor:TDMA:CELL:OFFset *n,m*	9-285	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:OFFset? *n*	9-96
			CSS:EBCCH:NEIGHbor:TDMA:CELL:SS_SUFF *n,m*	9-285	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:SS_SUFF? *n*	9-96
			CSS:EBCCH:NEIGHbor:TDMA:CELL:DELAY *n,m*	9-285	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:DELay? *n*	9-96
			CSS:EBCCH:NEIGHbor:TDMA:CELL:HL_FREQ *n,m*	9-285	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:HL_FREQ? *n*	9-96
Continued on Following Page						

Table 11-13 E-BCCH - Neighbor Cell

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Neighbor Cell List (TDMA) (cont)			CSS:EBCCH:NEIGHbor:TDMA:CELL:SYNC *n,m*	9-286	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:SYNC? *n*	9-96
			CSS:EBCCH:NEIGHbor:TDMA:CELL:TYPE:CELL *n,m*	9-286	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:TYPE:CELL? *n*	9-97
			CSS:EBCCH:NEIGHbor:TDMA:CELL:TYPE:NETwork *n,m*	9-286	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:TYPE:NETwork? *n*	9-97
			CSS:EBCCH:NEIGHbor:TDMA:CELL:RETRY *n,m*	9-287	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:RETRY? *n*	9-97
			CSS:EBCCH:NEIGHbor:TDMA:CELL:ACCess:MS_PWR *n,m*	9-287	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:ACCess:MS_PWR? *n*	9-97
			CSS:EBCCH:NEIGHbor:TDMA:CELL:ACCess:RSS_MIN *n,m*	9-287	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:ACCess:RSS_MIN? *n*	9-97
			CSS:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:INDicator *n,m*	9-288	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:INDicator? *n*	9-98
			CSS:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:LENGth *n,m*	9-288	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:LENGth? *n*	9-98
			CSS:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:SUPport *n,m*	9-289	FDCCH:EBCCH:NEIGHbor:TDMA:CELL:PSID_RSID:SUPport? *n*	9-98
Neighbor Cell List (Analog)	O	9+49*M	CSS:EBCCH:ENABLE:NEIGHbor:ANALOG *n*	9-324	N/A	–
			CSS:EBCCH:NEIGHbor:ANAlog:NUMber *n*	9-290	FDCCH:EBCCH:NEIGHbor:ANAlog:NUMber?	9-99
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:CHAN *n,m*	9-290	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:CHAN? *n*	9-99
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:PROTocol *n,m*	9-290	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:PROTocol? *n*	9-99
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:DCC *n,m*	9-290	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:DCC? *n*	9-100
Continued on Following Page						

Table 11-13 E-BCCH - Neighbor Cell (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Neighbor Cell List (Analog) (cont)			CSS:EBCCH:NEIGHbor:ANAlog:CELL:OFFset *n,m*	9-291	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:OFFset? *n*	9-100
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:SS_SUFF *n,m*	9-291	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:SS_SUFF? *n*	9-100
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:DELAY *n,m*	9-291	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:DELay? *n*	9-100
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:HL_FREQ *n,m*	9-291	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:HL_FREQ? *n*	9-100
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:TYPE:CELL *n,m*	9-292	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:TYPE:CELL? *n*	9-100
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:TYPE:NETwork *n,m*	9-292	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:TYPE:NETwork? *n*	9-100
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:RETRY *n,m*	9-292	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:RETRY? *n*	9-101
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:ACCess:MS_PWR *n,m*	9-293	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:ACCess:MS_PWR? *n*	9-101
			CSS:EBCCH:NEIGHbor:ANAlog:CELL:ACCess:RSS_MIN *n,m*	9-293	FDCCH:EBCCH:NEIGHbor:ANAlog:CELL:ACCess:RSS_MIN? *n*	9-101

Table 11-13 E-BCCH - Neighbor Cell (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:RCI *n*	9-280	FDCCH:EBCCH:MSGtype?	9-94
RCI	M	2	CSS:EBCCH:RCI *n*	9-313	FDCCH:EBCCH:RCI?	9-113
RF Channel Allocation	O	32 to 1418	CSS:EBCCH:ENABLE:CHANnel *n*	9-326	N/A	–
			CSS:EBCCH:CHANnel:NUMber *n*	9-313	FDCCH:EBCCH:CHANnel:NUMber?	9-114
			CSS:EBCCH:CHANnel:GROUP: FIRST *n,m*	9-314	FDCCH:EBCCH:CHANnel:GROUP: FIRST? *n*	9-114
			CSS:EBCCH:CHANnel:GROUP: LAST *n,m*	9-314	FDCCH:EBCCH:CHANnel:GROUP: LAST? *n*	9-114

Table 11-14 E-BCCH - Regulatory Configuration

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:BSMC *n*	9-281	FDCCH:EBCCH:MSGtype?	9-94
BSMC	M	8	CSS:EBCCH:BSMC *n*	9-314	FDCCH:EBCCH:BSMC?	9-114
Custom Control	M	1 to 2024	CSS:EBCCH:CUSTOM:LENGth *n*	9-314	FDCCH:EBCCH:CUSTOM:LENGth?	9-114
			CSS:EBCCH:CUSTOM:CONTrol *n,m*	9-315	FDCCH:EBCCH:CUSTOM:CONTrol? *n*	9-114

Table 11-15 E-BCCH - BSMC Message Delivery

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:EMERGency *n*	9-281	FDCCH:EBCCH:MSGtype?	9-94
Text Message Data Unit	M	8 to 2016	CSS:EBCCH:TEXT:LENGth *n*	9-315	FDCCH:EBCCH:TEXT:LENGth?	9-115
			CSS:EBCCH:TEXT:ENCoding *n*	9-315	FDCCH:EBCCH:TEXT:ENCoding?	9-115
			CSS:EBCCH:TEXT:REServed *n*	9-315	FDCCH:EBCCH:TEXT:REServed?	9-115
			CSS:EBCCH:TEXT:CHARacter *n,m*	9-315	FDCCH:EBCCH:TEXT:CHARacter? *n*	9-115
Signal	O	16	CSS:EBCCH:ENABLE:SIGnal *n*	9-326	N/A	–
			CSS:EBCCH:SIGnal:PITCH *n*	9-316	FDCCH:EBCCH:SIGnal:PITCH?	9-115
			CSS:EBCCH:SIGnal:CADence *n*	9-316	FDCCH:EBCCH:SIGnal:CADence?	9-115
			CSS:EBCCH:SIGnal:DURation *n*	9-316	FDCCH:EBCCH:SIGnal:DURation?	9-115

Table 11-16 E-BCCH - Emergency Information Broadcast

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:MACA *n*	9-281	FDCCH:EBCCH:MSGtype?	9-94
MACA_STATUS	M	2	CSS:EBCCH:MACA:STATus *n*	9-316	FDCCH:EBCCH:MACA:STATus?	9-116
MACA_TYPE	M	4	CSS:EBCCH:MACA:TYPE *n*	9-316	FDCCH:EBCCH:MACA:TYPE?	9-116
MACA_8_CONTROL	O	5	CSS:EBCCH:ENABLE:MACA:EIGHT:CONTrol *n*	9-326	N/A	–
			CSS:EBCCH:MACA:EIGHT:CONTrol *n*	9-317	FDCCH:EBCCH:MACA:EIGHT:CONTrol?	9-116
MACA_LIST	O	19 to (19+11*N)	CSS:EBCCH:ENABLE:MACA:LIST *n*	9-326	N/A	–
			CSS:EBCCH:MACA:LIST:NUMber *n*	9-317	FDCCH:EBCCH:MACA:LIST:NUMber?	9-116
			CSS:EBCCH:MACA:LIST:CHAN *n,m*	9-317	FDCCH:EBCCH:MACA:LIST:CHAN? *n*	9-116

Table 11-17 E-BCCH - Mobile Assisted Channel Allocation

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:SERVice *n*	9-282	FDCCH:EBCCH:MSGtype?	9-94
Voice Privacy Mode Map	M	4	CSS:EBCCH:MAP:VPM *n*	9-318	FDCCH:EBCCH:MAP:VPM?	9-117
Data Privacy Mode Map	M	4	CSS:EBCCH:MAP:DPM *n*	9-318	FDCCH:EBCCH:MAP:DPM?	9-117
Voice Coder Map	M	6	CSS:EBCCH:MAP:CODER *n*	9-318	FDCCH:EBCCH:MAP:CODER?	9-117
Message Encryption Algorithm Map	M	8 to 40	CSS:EBCCH:MAP:MEA:DOMAIN *n*	9-319	FDCCH:EBCCH:MAP:MEA:DOMAIN?	9-118
			CSS:EBCCH:MAP:MEA: ALGORithms *n,m*	9-319	FDCCH:EBCCH:MAP:MEA: ALGORithms? *n*	9-118
Message Encryption Key Map	M	4	CSS:EBCCH:MAP:MEK *n*	9-319	FDCCH:EBCCH:MAP:MEK?	9-118
Menu Map	M	10	CSS:EBCCH:MAP:MENU *n*	9-319	FDCCH:EBCCH:MAP:MENU?	9-118
FACCH/SACCH ARQ Map	M	1	CSS:EBCCH:MAP:ARQ *n*	9-320	FDCCH:EBCCH:MAP:ARQ?	9-118
User Group Map	M	1	CSS:EBCCH:MAP:USER *n*	9-320	FDCCH:EBCCH:MAP:USER?	9-118
SMS Map	M	2	CSS:EBCCH:MAP:SMS *n*	9-320	FDCCH:EBCCH:MAP:SMS?	9-118
IRA Support	M	1	CSS:EBCCH:IRA *n*	9-320	FDCCH:EBCCH:IRA?	9-118
OATS Support	M	1	CSS:EBCCH:OATS *n*	9-320	FDCCH:EBCCH:OATS?	9-118

Table 11-18 E-BCCH - Service Menu

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:SOC_BSMC *n*	9-282	FDCCH:EBCCH:MSGtype?	9-94
SOC	M	12	CSS:EBCCH:SOC *n*	9-321	FDCCH:EBCCH:SOC?	9-119
BSMC	M	8	CSS:EBCCH:BSMC *n*	9-314	FDCCH:EBCCH:BSMC?	9-114
ALT_SOC_LIST	O	28*S+8	CSS:EBCCH:ENABLE: ALT_SOC_LIST *n*	9-327	N/A	–
			CSS:EBCCH:ALT_SOC:NUMBer *n*	9-321	FDCCH:EBCCH:ALT_SOC:NUMBer?	9-119
			CSS:EBCCH:ALT_SOC:SOC *n,m*	9-321	FDCCH:EBCCH:ALT_SOC:SOC? *n*	9-119
			CSS:EBCCH:ALT_SOC:MAP: PSID_RSID *n,m*	9-321	FDCCH:EBCCH:ALT_SOC:MAP: PSID_RSID? *n*	9-119

Table 11-19 E-BCCH - SOC/BSMC Identification

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:SOC *n*	9-282	FDCCH:EBCCH:MSGtype?	9-94
SOC	M	12	CSS:EBCCH:SOC *n*	9-321	FDCCH:EBCCH:SOC?	9-119
Custom Control	M	1 to 2020	CSS:EBCCH:CUSTOM:LENGth *n*	9-314	FDCCH:EBCCH:CUSTOM:LENGth?	9-114
			CSS:EBCCH:CUSTOM:CONTrol *n,m*	9-315	FDCCH:EBCCH:CUSTOM:CONTrol? *n*	9-114

Table 11-20 E-BCCH - SOC Message Delivery

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:TIME *n*	9-282	FDCCH:EBCCH:MSGtype?	9-94
Time from Jan 1, 1980	M	32	CSS:EBCCH:TIME *n*	9-321	FDCCH:EBCCH:TIME?	9-119
Time Zone Offset	M	12	CSS:EBCCH:ZONE:DIRection *n*	9-322	FDCCH:EBCCH:ZONE:DIRection?	9-119
			CSS:EBCCH:ZONE:MINutes *n*	9-322	FDCCH:EBCCH:ZONE:MINutes?	9-119
			CSS:EBCCH:ZONE:DST *n*	9-322	FDCCH:EBCCH:ZONE:DST?	9-119

Table 11-21 E-BCCH - Time and Date

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:NEIGHbor:SERVice *n*	9-280	FDCCH:EBCCH:MSGtype?	9-94
TDMA Service Info	O	20 to (20+11*N)	CSS:EBCCH:ENABLE:NEIGHbor:TDMA:INFO *n*	9-324	N/A	–
			CSS:EBCCH:NEIGHbor:TDMA:INFO:COUNt *n*	9-304	FDCCH:EBCCH:NEIGHbor:TDMA:INFO:COUNt?	9-102
			CSS:EBCCH:NEIGHbor:TDMA:INFO:SERVice:INDicator *n,m*	9-304	FDCCH:EBCCH:NEIGHbor:TDMA:INFO:SERVice:INDicator? *n*	9-102
			CSS:EBCCH:NEIGHbor:TDMA:INFO:SERVice:MAP *n,m*	9-304	FDCCH:EBCCH:NEIGHbor:TDMA:INFO:SERVice:MAP? *n*	9-102

Table 11-22 E-BCCH - Neighbor Service Info

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:ALTrci *n*	9-283	FDCCH:EBCCH:MSGtype?	9-94
SID	M	15	CSS:EBCCH:SID *n*	9-323	FDCCH:EBCCH:SID?	9-120
CHAN	M	11	CSS:EBCCH:CHAN *n*	9-323	FDCCH:EBCCH:CHAN?	9-120
RCI	M	2	CSS:EBCCH:RCI *n*	9-313	FDCCH:EBCCH:RCI?	9-113
Mobile Country Code	O	14	CSS:EBCCH:ENABLE:MCC *n*	9-327	N/A	–
			CSS:EBCCH:MCC *n*	9-323	FDCCH:EBCCH:MCC:CODE?	9-120
Hyperband Info	O	6	CSS:EBCCH:ENABLE:HYPERband:INFO *n*	9-327	N/A	–
			CSS:EBCCH:HYPERband:INFO *n*	9-323	FDCCH:EBCCH:HYPERband:INFO?	9-120

Table 11-23 E-BCCH - Alternate RCI Info

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:NEIGHbor:CELL:MULti *n*	9-280	FDCCH:EBCCH:MSGtype?	9-94
SERV_SS	M	4	CSS:EBCCH:SERV_SS *n*	9-283	FDCCH:EBCCH:SERV_SS?	9-94
Neighbor Cell List (TDMA)	O	(9+ 57*N) to (9 + 77*N)	CSS:EBCCH:ENABLE:NEIGHbor:MULti:TDMA *n*	9-325	N/A	–
			CSS:EBCCH:NEIGHbor:TDMA:MULti:NUMber *n*	9-294	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:NUMber?	9-103
			CSS:EBCCH:NEIGHbor:TDMA:MULti:CHAN *n,m*	9-294	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:CHAN? *n*	9-103
			CSS:EBCCH:NEIGHbor:TDMA:MULti:PROTocol *n,m*	9-294	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:PROTocol? *n*	9-103
			CSS:EBCCH:NEIGHbor:TDMA:MULti:DVCC *n,m*	9-294	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:DVCC? *n*	9-104
			CSS:EBCCH:NEIGHbor:TDMA:MULti:OFFset *n,m*	9-295	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:OFFset? *n*	9-104
			CSS:EBCCH:NEIGHbor:TDMA:MULti:SS_SUFF *n,m*	9-295	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:SS_SUFF? *n*	9-104
			CSS:EBCCH:NEIGHbor:TDMA:MULti:DELAY *n,m*	9-295	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:DELay? *n*	9-104
			CSS:EBCCH:NEIGHbor:TDMA:MULti:HL_FREQ *n,m*	9-295	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:HL_FREQ? *n*	9-104
			CSS:EBCCH:NEIGHbor:TDMA:MULti:SYNC *n,m*	9-296	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:SYNC? *n*	9-104
			CSS:EBCCH:NEIGHbor:TDMA:MULti:TYPE:CELL *n,m*	9-296	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:TYPE:CELL? *n*	9-105
			CSS:EBCCH:NEIGHbor:TDMA:MULti:TYPE:NETwork *n,m*	9-296	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:TYPE:NETwork? *n*	9-105
			CSS:EBCCH:NEIGHbor:TDMA:MULti:RETRY *n,m*	9-297	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:RETRY? *n*	9-105

Continued on Following Page

Table 11-24 E-BCCH - Neighbor Cell (Multi Hyperband)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Neighbor Cell List (TDMA) (cont)			CSS:EBCCH:NEIGHbor:TDMA:MULti:ACCess:MS_PWR *n,m*	9-297	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:ACCess:MS_PWR? *n*	9-105
			CSS:EBCCH:NEIGHbor:TDMA:MULti:ACCess:RSS_MIN *n,m*	9-297	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:ACCess:RSS_MIN? *n*	9-105
			CSS:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:INDicator *n,m*	9-298	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:INDicator? *n*	9-106
			CSS:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:LENGth *n,m*	9-298	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:LENGth? *n*	9-106
			CSS:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:SUPport *n,m*	9-299	FDCCH:EBCCH:NEIGHbor:TDMA:MULti:PSID_RSID:SUPport? *n*	9-106
Neighbor Cell List (Analog)	O	9+49*M	CSS:EBCCH:ENABLE:NEIGHbor:MULti:ANALOG *n*	9-325	N/A	–
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:NUMber *n*	9-300	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:NUMber?	9-107
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:CHAN *n,m*	9-300	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:CHAN? *n*	9-107
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:PROTocol *n,m*	9-300	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:PROTocol? *n*	9-107
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:DCC *n,m*	9-300	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:DCC? *n*	9-108
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:OFFset *n,m*	9-301	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:OFFset? *n*	9-108
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:SS_SUFF *n,m*	9-301	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:SS_SUFF? *n*	9-108
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:DELAY *n,m*	9-301	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:DELay? *n*	9-108
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:HL_FREQ *n,m*	9-301	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:HL_FREQ? *n*	9-108
Continued on Following Page						

Table 11-24 E-BCCH - Neighbor Cell (Multi Hyperband) (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Neighbor Cell List (Analog) (cont)			CSS:EBCCH:NEIGHbor:ANAlog:MULti:TYPE:CELL *n,m*	9-302	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:TYPE:CELL? *n*	9-108
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:TYPE:NETwork *n,m*	9-302	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:TYPE:NETwork? *n*	9-108
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:RETRY *n,m*	9-302	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:RETRY? *n*	9-109
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:ACCess:MS_PWR *n,m*	9-303	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:ACCess:MS_PWR? *n*	9-109
			CSS:EBCCH:NEIGHbor:ANAlog:MULti:ACCess:RSS_MIN *n,m*	9-303	FDCCH:EBCCH:NEIGHbor:ANAlog:MULti:ACCess:RSS_MIN? *n*	9-109
Neighbor Cell List (Other Hyperband)	O	(11+ 57*P) to (11+ 77*P)	CSS:EBCCH:ENABLE:NEIGHbor:MULti:OTHER *n*	9-325	N/A	–
			CSS:EBCCH:NEIGHbor:OTHER:HYPERband *n*	9-305	FDCCH:EBCCH:NEIGHbor:OTHER:HYPERband?	9-109
			CSS:EBCCH:NEIGHbor:OTHER:NUMBer *n*	9-305	FDCCH:EBCCH:NEIGHbor:OTHER:NUMBer?	9-109
			CSS:EBCCH:NEIGHbor:OTHER:MULti:CHAN *n,m*	9-306	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:CHAN? *n*	9-110
			CSS:EBCCH:NEIGHbor:OTHER:MULti:PROTocol *n,m*	9-306	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:PROTocol? *n*	9-110
			CSS:EBCCH:NEIGHbor:OTHER:MULti:DVCC *n,m*	9-306	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:DVCC? *n*	9-110
			CSS:EBCCH:NEIGHbor:OTHER:MULti:OFFset *n,m*	9-306	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:OFFset? *n*	9-110
			CSS:EBCCH:NEIGHbor:OTHER:MULti:SS_SUFF *n,m*	9-307	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:SS_SUFF? *n*	9-110
			CSS:EBCCH:NEIGHbor:OTHER:MULti:DELAY *n,m*	9-307	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:DELay? *n*	9-110
Continued on Following Page						

Table 11-24 E-BCCH - Neighbor Cell (Multi Hyperband) (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Neighbor Cell List (Other Hyperband) (cont)			CSS:EBCCH:NEIGHbor:OTHER:MULti:HL_FREQ *n,m*	9-307	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:HL_FREQ? *n*	9-111
			CSS:EBCCH:NEIGHbor:OTHER:MULti:SYNC *n,m*	9-307	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:SYNC? *n*	9-111
			CSS:EBCCH:NEIGHbor:OTHER:MULti:TYPE:CELL *n,m*	9-308	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:TYPE:CELL? *n*	9-111
			CSS:EBCCH:NEIGHbor:OTHER:MULti:TYPE:NETwork *n,m*	9-308	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:TYPE:NETwork? *n*	9-111
			CSS:EBCCH:NEIGHbor:OTHER:MULti:RETRY *n,m*	9-308	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:RETRY? *n*	9-111
			CSS:EBCCH:NEIGHbor:OTHER:MULti:ACCess:MS_PWR *n,m*	9-309	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:ACCess:MS_PWR? *n*	9-112
			CSS:EBCCH:NEIGHbor:OTHER:MULti:ACCess:RSS_MIN *n,m*	9-309	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:ACCess:RSS_MIN? *n*	9-112
			CSS:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:INDicator *n,m*	9-310	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:INDicator? *n*	9-112
			CSS:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:LENGth *n,m*	9-310	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:LENGth? *n*	9-112
			CSS:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:SUPport *n,m*	9-311	FDCCH:EBCCH:NEIGHbor:OTHER:MULti:PSID_RSID:SUPport? *n*	9-112

Table 11-24 E-BCCH - Neighbor Cell (Multi Hyperband) (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:NEIGHbor: SERVice:MULti *n*	9-280	FDCCH:EBCCH:MSGtype?	9-94
TDMA Service Info	O	20 to (20+ 11*N)	CSS:EBCCH:ENABLE:NEIGHbor: TDMA:INFO *n*	9-324	N/A	–
			CSS:EBCCH:NEIGHbor:TDMA:INFO: COUNt *n*	9-304	FDCCH:EBCCH:NEIGHbor:TDMA: INFO:COUNt?	9-102
			CSS:EBCCH:NEIGHbor:TDMA:INFO: SERVice:INDicator *n,m*	9-304	FDCCH:EBCCH:NEIGHbor:TDMA: INFO:SERVice:INDicator? *n*	9-102
			CSS:EBCCH:NEIGHbor:TDMA:INFO: SERVice:MAP *n,m*	9-304	FDCCH:EBCCH:NEIGHbor:TDMA: INFO:SERVice:MAP? *n*	9-102
TDMA Service Info (Other Hyperband)	O	22 to (22+ 11*P)	CSS:EBCCH:ENABLE:NEIGHbor: OTHER:INFO *n*	9-325	N/A	–
			CSS:EBCCH:NEIGHbor:OTHER:INFO: HYPERband *n*	9-312	FDCCH:EBCCH:NEIGHbor:OTHER: INFO:HYPERband?	9-113
			CSS:EBCCH:NEIGHbor:OTHER:INFO: COUNt *n*	9-312	FDCCH:EBCCH:NEIGHbor:OTHER: INFO:COUNt?	9-113
			CSS:EBCCH:NEIGHbor:OTHER:INFO: SERVice:INDicator *n,m*	9-312	FDCCH:EBCCH:NEIGHbor:OTHER: INFO:SERVice:INDicator? *n*	9-113
			CSS:EBCCH:NEIGHbor:OTHER:INFO: SERVice:MAP *n,m*	9-313	FDCCH:EBCCH:NEIGHbor:OTHER: INFO:SERVice:MAP? *n*	9-113

Table 11-25 E-BCCH - Neighbor Service Info (Multi Hyperband)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:EBCCH:PD?	9-94
Message Type	M	6	CSS:EBCCH:MSGtype:MACA_MULti *n*	9-281	FDCCH:EBCCH:MSGtype?	9-94
MACA_STATUS	M	2	CSS:EBCCH:MACA:STATus *n*	9-316	FDCCH:EBCCH:MACA:STATus?	9-116
MACA_TYPE	M	4	CSS:EBCCH:MACA:TYPE *n*	9-316	FDCCH:EBCCH:MACA:TYPE?	9-116
MACA_8_CONTROL	O	5	CSS:EBCCH:ENABLE:MACA:EIGHT:CONTrol *n*	9-326	N/A	–
			CSS:EBCCH:MACA:EIGHT:CONTrol *n*	9-317	FDCCH:EBCCH:MACA:EIGHT:CONTrol?	9-116
MACA_LIST	O	19 to (19+ 11*N)	CSS:EBCCH:ENABLE:MACA:LIST *n*	9-326	N/A	–
			CSS:EBCCH:MACA:LIST:NUMber *n*	9-317	FDCCH:EBCCH:MACA:LIST:NUMber?	9-116
			CSS:EBCCH:MACA:LIST:CHAN *n,m*	9-317	FDCCH:EBCCH:MACA:LIST:CHAN? *n*	9-116
MACA_LIST (Other Hyperband)	O	21 to (21+ 11*P)	CSS:EBCCH:ENABLE:MACA:LIST:OTHER *n*	9-326	N/A	–
			CSS:EBCCH:MACA:LIST:OTHER:HYPERband *n*	9-317	FDCCH:EBCCH:MACA:LIST:OTHER:HYPERband?	9-117
			CSS:EBCCH:MACA:LIST:OTHER:NUMber *n*	9-318	FDCCH:EBCCH:MACA:LIST:OTHER:NUMber?	9-117
			CSS:EBCCH:MACA:LIST:OTHER:CHAN *n,m*	9-318	FDCCH:EBCCH:MACA:LIST:OTHER:CHAN? *n*	9-117

Table 11-26 E-BCCH - Mobile Assisted Channel Allocation (Multi Hyperband)

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:ANALOG	9-344	FDCCH:SPACH:MSGtype?	9-124
MEM	M	1	CSS:SPACH:MEM *n*	9-344	FDCCH:SPACH:MEM?	9-124
SCC	M	2	CSS:SPACH:SCC *n*	9-345	FDCCH:SPACH:SCC?	9-124
VMAC	M	4	CSS:SPACH:VMAC *n*	9-345	FDCCH:SPACH:VMAC?	9-125
CHAN	M	11	CSS:SPACH:CHAN *n*	9-345	FDCCH:SPACH:CHAN?	9-125
Protocol Version	M	4	CSS:SPACH:PROTocol *n*	9-345	FDCCH:SPACH:PROTocol?	9-125
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress:ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress:ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress:REServed?	9-125
			CSS:SPACH:SUBaddress:ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress:ADDRess?	9-125
DTX Support	O	6	CSS:SPACH:ENABLE:DTX *n*	9-377	N/A	–
			CSS:SPACH:DTX:SUPport *n*	9-346	FDCCH:SPACH:DTX:SUPport?	9-126
Display	O	12 to 668	CSS:SPACH:ENABLE:DISPlay *n*	9-377	N/A	–
			CSS:SPACH:DISPlay:LENGth *n*	9-347	FDCCH:SPACH:DISPlay:LENGth?	9-126
			CSS:SPACH:DISPlay:CHARacter *n,m*	9-347	FDCCH:SPACH:DISPlay:CHARacter? *n*	9-126

Table 11-27 SPACH - Analog Voice Channel Designation

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:AUDIT	9-344	FDCCH:SPACH:MSGtype?	9-124
Forced Re-registration	M	1	CSS:SPACH:REREG *n*	9-347	FDCCH:SPACH:REREG?	9-126
Debug Display Allowed	M	1	CSS:SPACH:DEBUG *n*	9-347	FDCCH:SPACH:DEBUG?	9-126
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-28 SPACH - Audit Order

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:BSCHALcon	9-344	FDCCH:SPACH:MSGtype?	9-124
AUTHBS	M	18	CSS:SPACH:AUTHBS *n*	9-348	FDCCH:SPACH:AUTHBS?	9-126
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-29 SPACH - Base Station Challenge Order Confirmation

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:BSMC	9-344	FDCCH:SPACH:MSGtype?	9-124
BSMC	M	8	CSS:SPACH:BSMC *n*	9-348	FDCCH:SPACH:BSMC?	9-127
Custom Control	M	1 to 2024	CSS:SPACH:CUSTOM:LENGth *n*	9-348	FDCCH:SPACH:CUSTOM:LENGth?	9-127
			CSS:SPACH:CUSTOM:CONTrol *n,m*	9-348	FDCCH:SPACH:CUSTOM:CONTrol? *n*	9-127
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-30 SPACH - BSMC Message Delivery

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:CAPability	9-344	FDCCH:SPACH:MSGtype?	9-124
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-31 SPACH - Capability Request

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:DIGital	9-344	FDCCH:SPACH:MSGtype?	9-124
DVCC	M	8	CSS:SPACH:DVCC *n*	9-348	FDCCH:SPACH:DVCC?	9-127
DMAC	M	4	CSS:SPACH:DMAC *n*	9-349	FDCCH:SPACH:DMAC?	9-127
CHAN	M	11	CSS:SPACH:CHAN *n*	9-345	FDCCH:SPACH:CHAN?	9-125
ATS	M	4	CSS:SPACH:ATS *n*	9-349	FDCCH:SPACH:ATS?	9-127
SB	M	1	CSS:SPACH:SB *n*	9-349	FDCCH:SPACH:SB?	9-127
Protocol Version	M	4	CSS:SPACH:PROTocol *n*	9-345	FDCCH:SPACH:PROTocol?	9-125
Time Alignment	M	5	CSS:SPACH:TA *n*	9-349	FDCCH:SPACH:TA?	9-127
Delay Interval Compensation Mode	M	1	CSS:SPACH:MODE:DIC *n*	9-350	FDCCH:SPACH:MODE:DIC?	9-128
Voice Mode	O	10	CSS:SPACH:ENABLE:MODE:VOICE *n*	9-378	N/A	–
			CSS:SPACH:MODE:VOICE:VC *n*	9-350	FDCCH:SPACH:MODE:VOICE:VC?	9-128
			CSS:SPACH:MODE:VOICE:PM_V *n*	9-350	FDCCH:SPACH:MODE:VOICE:PM_V?	9-128
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125
Message Encryption Mode	O	13	CSS:SPACH:ENABLE:MODE:MEM *n*	9-378	N/A	–
			CSS:SPACH:MODE:MEM:MEA *n*	9-351	FDCCH:SPACH:MODE:MEM:MEA?	9-128
			CSS:SPACH:MODE:MEM:MED *n*	9-351	FDCCH:SPACH:MODE:MEM:MED?	9-128
			CSS:SPACH:MODE:MEM:MEK *n*	9-351	FDCCH:SPACH:MODE:MEM:MEK?	9-128
Continued on Following Page						

Table 11-32 SPACH - Digital Traffic Channel Designation

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Hyperband Info	O	6	CSS:SPACH:ENABLE:HYPERband: INFO *n*	9-378	N/A	–
			CSS:SPACH:MODE:HYPERband: INFO *n*	9-351	FDCCH:SPACH:HYPERband:INFO?	9-129
Display	O	12 to 668	CSS:SPACH:ENABLE:DISPlay *n*	9-377	N/A	–
			CSS:SPACH:DISPlay:LENGth *n*	9-347	FDCCH:SPACH:DISPlay:LENGth?	9-126
			CSS:SPACH:DISPlay:CHARacter *n,m*	9-347	FDCCH:SPACH:DISPlay: CHARacter? *n*	9-126

Table 11-32 SPACH - Digital Traffic Channel Designation (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:DRETRY	9-344	FDCCH:SPACH:MSGtype?	9-124
Last Try	M	1	CSS:SPACH:LT *n*	9-352	FDCCH:SPACH:LT?	9-129
RCF and AUTH	O	6	CSS:SPACH:ENABLE:RCF_AUTH *n*	9-378	N/A	–
			CSS:SPACH:RCF *n*	9-352	FDCCH:SPACH:FLAG:RCF?	9-129
			CSS:SPACH:AUTH *n*	9-352	FDCCH:SPACH:FLAG:AUTH?	9-129
DTX Support	O	6	CSS:SPACH:ENABLE:DTX *n*	9-377	N/A	–
			CSS:SPACH:DTX:SUPport *n*	9-346	FDCCH:SPACH:DTX:SUPport?	9-126
Retry Channel	O	17 per instance	CSS:SPACH:ENABLE:RETRY: CHANnel *n*	9-378	N/A	–
			CSS:SPACH:RETRY:NUMBer *n*	9-352	FDCCH:SPACH:RETRY:NUMBer?	9-130
			CSS:SPACH:RETRY:HYPERband *n,m*	9-353	FDCCH:SPACH:RETRY: HYPERband? *n*	9-130
			CSS:SPACH:RETRY:CHANnel *n,m*	9-353	FDCCH:SPACH:RETRY:CHANnel? *n*	9-130
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-33 SPACH - Directed Retry

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:MSGWTG	9-344	FDCCH:SPACH:MSGtype?	9-124
Message Waiting Info	M	14 to 164	CSS:SPACH:MSGWTG:NV *n*	9-353	FDCCH:SPACH:MSGWTG:NV?	9-130
			CSS:SPACH:MSGWTG:TYPE *n,m*	9-353	FDCCH:SPACH:MSGWTG:TYPE? *n*	9-130
			CSS:SPACH:MSGWTG:NUMber *n,m*	9-353	FDCCH:SPACH:MSGWTG:NUMber? *n*	9-130
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125
Display	O	12 to 668	CSS:SPACH:ENABLE:DISPlay *n*	9-377	N/A	–
			CSS:SPACH:DISPlay:LENGth *n*	9-347	FDCCH:SPACH:DISPlay:LENGth?	9-126
			CSS:SPACH:DISPlay:CHARacter *n,m*	9-347	FDCCH:SPACH:DISPlay: CHARacter? *n*	9-126

Table 11-34 SPACH - Message Waiting

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:PAGE	9-344	FDCCH:SPACH:MSGtype?	9-124
Service Code	M	4	CSS:SPACH:SERVice *n*	9-354	FDCCH:SPACH:SERVice?	9-130
Called Party Subaddress	O	20 to 180	CSS:SPACH:ENABLE:CALLED:SUBaddress *n*	9-379	N/A	–
			CSS:SPACH:CALLED:SUBaddress:LENGth *n*	9-356	FDCCH:SPACH:CALLED:SUBaddress:LENGth?	9-133
			CSS:SPACH:CALLED:SUBaddress:ODD_EVEN *n*	9-356	FDCCH:SPACH:CALLED:SUBaddress:ODD_EVEN?	9-133
			CSS:SPACH:CALLED:SUBaddress:TYPE *n*	9-356	FDCCH:SPACH:CALLED:SUBaddress:TYPE?	9-133
			CSS:SPACH:CALLED:SUBaddress:REServed *n*	9-356	FDCCH:SPACH:CALLED:SUBaddress:REServed?	9-133
			CSS:SPACH:CALLED:SUBaddress:ADDRess *n,m*	9-356	FDCCH:SPACH:CALLED:SUBaddress:ADDRess?	9-133
Signal	O	16	CSS:SPACH:ENABLE:SIGnal *n*	9-378	N/A	–
			CSS:SPACH:SIGnal:PITCH *n*	9-354	FDCCH:SPACH:SIGnal:PITCH?	9-131
			CSS:SPACH:SIGnal:CADence *n*	9-354	FDCCH:SPACH:SIGnal:CADence?	9-131
			CSS:SPACH:SIGnal:DURation *n*	9-354	FDCCH:SPACH:SIGnal:DURation?	9-131
Calling Party Number Presentation Indicator	O	8	CSS:SPACH:ENABLE:CALLING:PRESentation *n*	9-380	N/A	–
			CSS:SPACH:CALLING:PRESentation:PI *n*	9-359	FDCCH:SPACH:CALLING:PRESentation:PI?	9-136
			CSS:SPACH:CALLING:PRESentation:SI *n*	9-359	FDCCH:SPACH:CALLING:PRESentation:SI?	9-136
Continued on Following Page						

Table 11-35 SPACH - Page

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Calling Party Number	O	20 to *	CSS:SPACH:ENABLE:CALLING:ADDRess *n*	9-379	N/A	–
			N/A	–	FDCCH:SPACH:CALLING:LENGth?	9-134
			CSS:SPACH:CALLING:TYPE *n*	9-357	FDCCH:SPACH:CALLING:TYPE?	9-134
			CSS:SPACH:CALLING:PLANid *n*	9-357	FDCCH:SPACH:CALLING:PLANid?	9-134
			CSS:SPACH:CALLING:ENCoding *n*	9-357	FDCCH:SPACH:CALLING:ENCoding?	9-134
			CSS:SPACH:CALLING:ADDRess *"n"*	9-357	FDCCH:SPACH:CALLING:ADDRess?	9-134
Calling Party Subaddress	O	20 to 180	CSS:SPACH:ENABLE:CALLING:SUBaddress *n*	9-379	N/A	–
			CSS:SPACH:CALLING:SUBaddress:LENGth *n*	9-358	FDCCH:SPACH:CALLING:SUBaddress:LENGth?	9-135
			CSS:SPACH:CALLING:SUBaddress:ODD_EVEN *n*	9-358	FDCCH:SPACH:CALLING:SUBaddress:ODD_EVEN?	9-135
			CSS:SPACH:CALLING:SUBaddress:TYPE *n*	9-358	FDCCH:SPACH:CALLING:SUBaddress:TYPE?	9-135
			CSS:SPACH:CALLING:SUBaddress:REServed *n*	9-358	FDCCH:SPACH:CALLING:SUBaddress:REServed?	9-135
			CSS:SPACH:CALLING:SUBaddress:ADDRess *n,m*	9-358	FDCCH:SPACH:CALLING:SUBaddress:ADDRess? *n*	9-135
Display	O	12 to 668	CSS:SPACH:ENABLE:DISPlay *n*	9-377	N/A	–
			CSS:SPACH:DISPlay:LENGth *n*	9-347	FDCCH:SPACH:DISPlay:LENGth?	9-126
			CSS:SPACH:DISPlay:CHARacter *n,m*	9-347	FDCCH:SPACH:DISPlay:CHARacter? *n*	9-126
Continued on Following Page						

Table 11-35 SPACH - Page (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Called Party	O	20 to *	CSS:SPACH:ENABLE:CALLED:ADDRess *n*	9-379	N/A	–
			N/A	–	FDCCH:SPACH:CALLED:LENGth?	9-132
			CSS:SPACH:CALLED:TYPE *n*	9-355	FDCCH:SPACH:CALLED:TYPE?	9-132
			CSS:SPACH:CALLED:PLANid *n*	9-355	FDCCH:SPACH:CALLED:PLANid?	9-132
			CSS:SPACH:CALLED:ENCoding *n*	9-355	FDCCH:SPACH:CALLED:ENCoding?	9-132
			CSS:SPACH:CALLED:ADDRess *"n"*	9-355	FDCCH:SPACH:CALLED:ADDRess?	9-132

Table 11-35 SPACH - Page (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:PU	9-344	FDCCH:SPACH:MSGtype?	9-124
Request Number	M	4	CSS:SPACH:RN *n*	9-359	FDCCH:SPACH:RN?	9-136
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-36 SPACH - Parameter Update

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:RDATA	9-344	FDCCH:SPACH:MSGtype?	9-124
R-Transaction Identifier	M	8	CSS:SPACH:RTRANSaction *n*	9-359	FDCCH:SPACH:RTRANSaction?	9-136
R-Data Unit	M	16 to *	CSS:SPACH:RDATA_UNIT:LENGth *n*	9-360	FDCCH:SPACH:RDATA_UNIT:LENGth?	9-136
			CSS:SPACH:RDATA_UNIT:HLP:IDentifier *n*	9-360	FDCCH:SPACH:RDATA_UNIT:HLP:IDentifier?	9-137
			CSS:SPACH:RDATA_UNIT:HLP:DATA *n,m*	9-360	FDCCH:SPACH:RDATA_UNIT:HLP:DATA? *n*	9-137
Message Center Address	O	20 to *	CSS:SPACH:ENABLE:MESSage:CENTer:ADDRess *n*	9-380	N/A	–
			N/A	–	FDCCH:SPACH:MESSage:CENTer:LENGth?	9-137
			CSS:SPACH:MESSage:CENTer:TYPE *n*	9-361	FDCCH:SPACH:MESSage:CENTer:TYPE?	9-137
			CSS:SPACH:MESSage:CENTer:PLANid *n*	9-361	FDCCH:SPACH:MESSage:CENTer:PLANid?	9-137
			CSS:SPACH:MESSage:CENTer:ENCoding *n*	9-361	FDCCH:SPACH:MESSage:CENTer:ENCoding?	9-137
			CSS:SPACH:MESSage:CENTer:ADDRess *"n"*	9-361	FDCCH:SPACH:MESSage:CENTer:ADDRess?	9-138
User Destination Address	O	20 to *	CSS:SPACH:ENABLE:USER:DEST:ADDRess *n*	9-380	N/A	–
			N/A	–	FDCCH:SPACH:USER:DEST:LENGth?	9-138
			CSS:SPACH:USER:DEST:TYPE *n*	9-362	FDCCH:SPACH:USER:DEST:TYPE?	9-138
			CSS:SPACH:USER:DEST:PLANid *n*	9-362	FDCCH:SPACH:USER:DEST:PLANid?	9-138
			CSS:SPACH:USER:DEST:ENCoding *n*	9-362	FDCCH:SPACH:USER:DEST:ENCoding?	9-138
			CSS:SPACH:USER:DEST:ADDRess *"n"*	9-362	FDCCH:SPACH:USER:DEST:ADDRess?	9-138

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Table 11-37 SPACH - R-DATA

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
User Destination Subaddress	O	20 to 180	CSS:SPACH:ENABLE:USER:DEST:SUBaddress *n*	9-380	N/A	–
			CSS:SPACH:USER:DEST:SUBaddress:LENGth *n*	9-363	FDCCH:SPACH:USER:DEST:SUBaddress:LENGth?	9-139
			CSS:SPACH:USER:DEST:SUBaddress:ODD_EVEN *n*	9-363	FDCCH:SPACH:USER:DEST:SUBaddress:ODD_EVEN?	9-139
			CSS:SPACH:USER:DEST:SUBaddress:TYPE *n*	9-363	FDCCH:SPACH:USER:DEST:SUBaddress:TYPE?	9-139
			CSS:SPACH:USER:DEST:SUBaddress:REServed *n*	9-363	FDCCH:SPACH:USER:DEST:SUBaddress:REServed?	9-139
			CSS:SPACH:USER:DEST:SUBaddress:ADDRess *n,m*	9-363	FDCCH:SPACH:USER:DEST:SUBaddress:ADDRess?	9-139
User Originating Address	O	20 to *	CSS:SPACH:ENABLE:USER:ORIG:ADDRess *n*	9-381	N/A	–
			N/A	–	FDCCH:SPACH:USER:ORIG:LENGth?	9-140
			CSS:SPACH:USER:ORIG:TYPE *n*	9-365	FDCCH:SPACH:USER:ORIG:TYPE?	9-140
			CSS:SPACH:USER:ORIG:PLANid *n*	9-365	FDCCH:SPACH:USER:ORIG:PLANid?	9-141
			CSS:SPACH:USER:ORIG:ENCoding *n*	9-365	FDCCH:SPACH:USER:ORIG:ENCoding?	9-141
			CSS:SPACH:USER:ORIG:ADDRess *"n"*	9-365	FDCCH:SPACH:USER:ORIG:ADDRess?	9-141
Continued on Following Page						

Table 11-37 SPACH - R-DATA (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
User Originating Subaddress	O	20 to 180	CSS:SPACH:ENABLE:USER:ORIG:SUBaddress *n*	9-381	N/A	–
			CSS:SPACH:USER:ORIG:SUBaddress:LENGth *n*	9-366	FDCCH:SPACH:USER:ORIG:SUBaddress:LENGth?	9-142
			CSS:SPACH:USER:ORIG:SUBaddress:ODD_EVEN *n*	9-366	FDCCH:SPACH:USER:ORIG:SUBaddress:ODD_EVEN?	9-142
			CSS:SPACH:USER:ORIG:SUBaddress:TYPE *n*	9-366	FDCCH:SPACH:USER:ORIG:SUBaddress:TYPE?	9-142
			CSS:SPACH:USER:ORIG:SUBaddress:REServed *n*	9-366	FDCCH:SPACH:USER:ORIG:SUBaddress:REServed?	9-142
			CSS:SPACH:USER:ORIG:SUBaddress:ADDRess *n,m*	9-366	FDCCH:SPACH:USER:ORIG:SUBaddress:ADDRess? *n*	9-142
User Originating Address Presentation Indicator	O	8	CSS:SPACH:ENABLE:USER:ORIG:PRESentation *n*	9-381	N/A	–
			CSS:SPACH:USER:ORIG:PRESentation:PI *n*	9-367	FDCCH:SPACH:USER:ORIG:PRESentation:PI?	9-141
			CSS:SPACH:USER:ORIG:PRESentation:SI *n*	9-367	FDCCH:SPACH:USER:ORIG:PRESentation:SI?	9-141

Table 11-37 SPACH - R-DATA (cont)

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*: RDATA_ACCept	9-344	FDCCH:SPACH:MSGtype?	9-124
R-Transaction Identifier	M	8	CSS:SPACH:RTRANSaction *n*	9-359	FDCCH:SPACH:RTRANSaction?	9-136
R-DATA Delay	O	8	CSS:SPACH:ENABLE:RDATA: DELAY *n*	9-381	N/A	–
			CSS:SPACH:RDATA:DELAY *n*	9-373	FDCCH:SPACH:RDATA:DELAY?	9-143
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-38 SPACH - R-DATA ACCEPT

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*: RDATA_REJect	9-344	FDCCH:SPACH:MSGtype?	9-124
R-Transaction Identifier	M	8	CSS:SPACH:RTRANSaction *n*	9-359	FDCCH:SPACH:RTRANSaction?	9-136
R-Cause	M	8	CSS:SPACH:REJect:RDATA:CAUSE *n*	9-372	FDCCH:SPACH:REJect:RDATA: CAUSE?	9-147
			CSS:SPACH:REJect:RDATA:SPARE *n*	9-372	FDCCH:SPACH:REJect:RDATA: SPARE?	9-147
R-DATA Delay	O	8	CSS:SPACH:ENABLE:RDATA: DELAY *n*	9-381	N/A	–
			CSS:SPACH:RDATA:DELAY *n*	9-373	FDCCH:SPACH:RDATA:DELAY?	9-143
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-39 SPACH - R-DATA REJECT

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:REG_ACCept	9-344	FDCCH:SPACH:MSGtype?	9-124
PFC Assignment	O	7	CSS:SPACH:ENABLE:PFC:ASSIGNment *n*	9-382	N/A	–
			CSS:SPACH:PFC:ASSIGNment *n*	9-367	FDCCH:SPACH:PFC:ASSIGNment?	9-143
RNUM List	O	10 to 510	CSS:SPACH:ENABLE:RNUM:LIST *n*	9-382	N/A	–
			CSS:SPACH:RNUM:NUMber *n*	9-368	FDCCH:SPACH:RNUM:NUMber?	9-143
			CSS:SPACH:RNUM:LIST *n,m*	9-368	FDCCH:SPACH:RNUM:LIST? *n*	9-143
MSID Assignment	O	6,26,30	CSS:SPACH:ENABLE:MSID:ASSIGNment *n*	9-382	N/A	–
			CSS:SPACH:MSID:IDT *n*	9-368	FDCCH:SPACH:MSID:IDT?	9-121
			CSS:SPACH:MSID:ASSIGNment *n*	9-368	FDCCH:SPACH:MSID:ASSIGNment?	9-121
User Group	O	6,28,32,42,58	CSS:SPACH:ENABLE:USER:GROUP *n*	9-381	N/A	–
			CSS:SPACH:USER:GROUP:STATus *n*	9-364	FDCCH:SPACH:USER:GROUP:STATus?	9-140
			CSS:SPACH:USER:GROUP:TYPE *n*	9-364	FDCCH:SPACH:USER:GROUP:TYPE?	9-140
			CSS:SPACH:USER:GROUP:ID:MS *n*	9-364	FDCCH:SPACH:USER:GROUP:ID:MS?	9-140
			CSS:SPACH:USER:GROUP:ID:LS *n*	9-364	FDCCH:SPACH:USER:GROUP:ID:LS?	9-140
PSID/RSID Available	O	25 to 280	CSS:SPACH:ENABLE:PSID_RSID:AVAILable *n*	9-382	N/A	–
			CSS:SPACH:PSID_RSID:AVAILable:NUMBer *n*	9-369	FDCCH:SPACH:PSID_RSID:AVAILable:NUMber?	9-144
			CSS:SPACH:PSID_RSID:AVAILable:TYPE *n,m*	9-369	FDCCH:SPACH:PSID_RSID:AVAILable:TYPE? *n*	9-144
			CSS:SPACH:PSID_RSID:AVAILable:VALUE *n,m*	9-369	FDCCH:SPACH:PSID_RSID:AVAILable:VALUE? *n*	9-144

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Table 11-40 SPACH - Registration Accept

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Display	O	12 to 668	CSS:SPACH:ENABLE:DISPlay *n*	9-377	N/A	–
			CSS:SPACH:DISPlay:LENGth *n*	9-347	FDCCH:SPACH:DISPlay:LENGth?	9-126
			CSS:SPACH:DISPlay:CHARacter *n,m*	9-347	FDCCH:SPACH:DISPlay: CHARacter? *n*	9-126
Directory Address	O	20 to *	CSS:SPACH:ENABLE:DIRectory: ADDRess *n*	9-383	N/A	–
			N/A	–	FDCCH:SPACH:DIRectory:LENGth?	9-145
			CSS:SPACH:DIRectory:TYPE *n*	9-370	FDCCH:SPACH:DIRectory:TYPE?	9-145
			CSS:SPACH:DIRectory:PLANid *n*	9-370	FDCCH:SPACH:DIRectory:PLANid?	9-145
			CSS:SPACH:DIRectory:ENCoding *n*	9-370	FDCCH:SPACH:DIRectory:ENCoding?	9-145
			CSS:SPACH:DIRectory:ADDRess *"n"*	9-370	FDCCH:SPACH:DIRectory:ADDRess?	9-145
Directory Subaddress	O	20 to 180	CSS:SPACH:ENABLE:DIRectory: SUBaddress *n*	9-383	N/A	–
			CSS:SPACH:DIRectory:SUBaddress: LENGth *n*	9-371	FDCCH:SPACH:DIRectory: SUBaddress:LENGth?	9-146
			CSS:SPACH:DIRectory:SUBaddress: ODD_EVEN *n*	9-371	FDCCH:SPACH:DIRectory: SUBaddress:ODD_EVEN?	9-146
			CSS:SPACH:DIRectory:SUBaddress: TYPE *n*	9-371	FDCCH:SPACH:DIRectory: SUBaddress:TYPE?	9-146
			CSS:SPACH:DIRectory:SUBaddress: REServed *n*	9-371	FDCCH:SPACH:DIRectory: SUBaddress:REServed?	9-146
			CSS:SPACH:DIRectory:SUBaddress: ADDRess *n,m*	9-371	FDCCH:SPACH:DIRectory: SUBaddress:ADDRess? *n*	9-146
Continued on Following Page						

Table 11-40 SPACH - Registration Accept (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-40 SPACH - Registration Accept (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:REG_REJect	9-344	FDCCH:SPACH:MSGtype?	9-124
Cause	M	4	CSS:SPACH:REJect:REGistration: CAUSE *n*	9-372	FDCCH:SPACH:REJect:REGistration: CAUSE?	9-147
Reject Time	O	12	CSS:SPACH:ENABLE:REJect:TIME *n*	9-383	N/A	–
			CSS:SPACH:REJect:REGistration: TIME:LOWer *n*	9-372	FDCCH:SPACH:REJect:REGistration: TIME:LOWer?	9-147
			CSS:SPACH:REJect:REGistration: TIME:UPPer *n*	9-372	FDCCH:SPACH:REJect:REGistration: TIME:UPPer?	9-147
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125
Display	O	12 to 668	CSS:SPACH:ENABLE:DISPlay *n*	9-377	N/A	–
			CSS:SPACH:DISPlay:LENGth *n*	9-347	FDCCH:SPACH:DISPlay:LENGth?	9-126
			CSS:SPACH:DISPlay:CHARacter *n,m*	9-347	FDCCH:SPACH:DISPlay: CHARacter? *n*	9-126

Table 11-41 SPACH - Registration Reject

			TMAC COMMANDS			
Information Element		**Length**	**ENCODE**	**Page**	**DECODE**	**Page**
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:RELease	9-344	FDCCH:SPACH:MSGtype?	9-124
Cause	M	4	CSS:SPACH:RELease:CAUSE *n*	9-373	FDCCH:SPACH:RELease:CAUSE?	9-147
Signal	O	16	CSS:SPACH:ENABLE:SIGnal *n*	9-378	N/A	–
			CSS:SPACH:SIGnal:PITCH *n*	9-354	FDCCH:SPACH:SIGnal:PITCH?	9-131
			CSS:SPACH:SIGnal:CADence *n*	9-354	FDCCH:SPACH:SIGnal:CADence?	9-131
			CSS:SPACH:SIGnal:DURation *n*	9-354	FDCCH:SPACH:SIGnal:DURation?	9-131
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125
Display	O	12 to 668	CSS:SPACH:ENABLE:DISPlay *n*	9-377	N/A	–
			CSS:SPACH:DISPlay:LENGth *n*	9-347	FDCCH:SPACH:DISPlay:LENGth?	9-126
			CSS:SPACH:DISPlay:CHARacter *n,m*	9-347	FDCCH:SPACH:DISPlay: CHARacter? *n*	9-126

Table 11-42 SPACH - Release

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:REORDer	9-344	FDCCH:SPACH:MSGtype?	9-124
Cause	M	4	CSS:SPACH:REorder:CAUSE *n*	9-373	FDCCH:SPACH:REorder:CAUSE?	9-148
Tone Indicator	M	2	CSS:SPACH:REorder:TONE *n*	9-373	FDCCH:SPACH:REorder:TONE?	9-148
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125
Display	O	12 to 668	CSS:SPACH:ENABLE:DISPlay *n*	9-377	N/A	–
			CSS:SPACH:DISPlay:LENGth *n*	9-347	FDCCH:SPACH:DISPlay:LENGth?	9-126
			CSS:SPACH:DISPlay:CHARacter *n,m*	9-347	FDCCH:SPACH:DISPlay: CHARacter? *n*	9-126

Table 11-43 SPACH - Reorder/Intercept

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:SOC	9-344	FDCCH:SPACH:MSGtype?	9-124
SOC	M	12	CSS:SPACH:SOC *n*	9-374	FDCCH:SPACH:SOC?	9-148
Custom Control	M	1 to 2024	CSS:SPACH:CUSTOM:LENGth *n*	9-348	FDCCH:SPACH:CUSTOM:LENGth?	9-127
			CSS:SPACH:CUSTOM:CONTrol *n,m*	9-348	FDCCH:SPACH:CUSTOM:CONTrol? *n*	9-127
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-44 SPACH - SOC Message Delivery

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*: SPACHnotification	9-344	FDCCH:SPACH:MSGtype?	9-124
SPACH Notification Type	M	6	CSS:SPACH:NOTification *n*	9-374	FDCCH:SPACH:NOTification?	9-148
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-45 SPACH - SPACH Notification

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:SSDUP	9-344	FDCCH:SPACH:MSGtype?	9-124
RANDSSD	M	56	CSS:SPACH:RANDSSD1 *n*	9-374	FDCCH:SPACH:RANDSSD1?	9-148
			CSS:SPACH:RANDSSD2 *n*	9-374	FDCCH:SPACH:RANDSSD2?	9-148
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-46 SPACH - SSD Update Order

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:TESTreg	9-344	FDCCH:SPACH:MSGtype?	9-124
PSID/RSID Map	M	16	CSS:SPACH:PSID_RSID:MAP *n*	9-369	FDCCH:SPACH:PSID_RSID:MAP?	9-144
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125
Alphanumeric System ID	O	12 to 132	CSS:SPACH:ENABLE:ALPHA:SID *n*	9-383	N/A	–
			N/A	–	FDCCH:SPACH:ALPHA:SID:LENGth?	9-149
			CSS:SPACH:ALPHA:SID *"n"*	9-375	FDCCH:SPACH:ALPHA:SID: CHARacters?	9-149
Alphanumeric PSID/RSID List	O	12 to 1924	CSS:SPACH:ENABLE:ALPHA: PSID_RSID *n*	9-383	N/A	–
			CSS:SPACH:ALPHA:PSID_RSID: NUMBer *n*	9-375	FDCCH:SPACH:ALPHA:PSID_RSID: LENGth?	9-149
			CSS:SPACH:ALPHA:PSID_RSID: NAME:CHARacter *n,"m"*	9-375	FDCCH:SPACH:ALPHA:PSID_RSID: NAME:LENGth? *n*	9-149
					FDCCH:SPACH:ALPHA:PSID_RSID: NAME:CHARacters? *n*	9-149

Table 11-47 SPACH - Test Registration Response

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:UCHAL	9-344	FDCCH:SPACH:MSGtype?	9-124
RANDU	M	24	CSS:SPACH:RANDU *n*	9-375	FDCCH:SPACH:RANDU?	9-150
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-48 SPACH - Unique Challenge Order

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:USERalert	9-344	FDCCH:SPACH:MSGtype?	9-124
Signal	O	16	CSS:SPACH:ENABLE:SIGnal *n*	9-378	N/A	–
			CSS:SPACH:SIGnal:PITCH *n*	9-354	FDCCH:SPACH:SIGnal:PITCH?	9-131
			CSS:SPACH:SIGnal:CADence *n*	9-354	FDCCH:SPACH:SIGnal:CADence?	9-131
			CSS:SPACH:SIGnal:DURation *n*	9-354	FDCCH:SPACH:SIGnal:DURation?	9-131
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125
Display	O	12 to 668	CSS:SPACH:ENABLE:DISPlay *n*	9-377	N/A	–
			CSS:SPACH:DISPlay:LENGth *n*	9-347	FDCCH:SPACH:DISPlay:LENGth?	9-126
			CSS:SPACH:DISPlay:CHARacter *n,m*	9-347	FDCCH:SPACH:DISPlay: CHARacter? *n*	9-126

Table 11-49 SPACH - User Alert

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:QDISC_ACK	9-344	FDCCH:SPACH:MSGtype?	9-124
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125

Table 11-50 SPACH - Queue Disconnect Ack

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	FDCCH:SPACH:PD?	9-124
Message Type	M	6	CSS:SPACH:MSGtype*n*:QUPDate	9-344	FDCCH:SPACH:MSGtype?	9-124
Queue Position	O	8	CSS:SPACH:ENABLE:QUEue: POSition *n*	9-384	N/A	–
			CSS:SPACH:QUEue:POSition *n*	9-376	FDCCH:SPACH:QUEue:POSition?	9-150
Subaddress	O	20 to 180	CSS:SPACH:ENABLE:SUBaddress *n*	9-377	N/A	–
			CSS:SPACH:SUBaddress:LENGth *n*	9-345	FDCCH:SPACH:SUBaddress:LENGth?	9-125
			CSS:SPACH:SUBaddress: ODD_EVEN *n*	9-346	FDCCH:SPACH:SUBaddress: ODD_EVEN?	9-125
			CSS:SPACH:SUBaddress:TYPE *n*	9-346	FDCCH:SPACH:SUBaddress:TYPE?	9-125
			CSS:SPACH:SUBaddress:REServed *n*	9-346	FDCCH:SPACH:SUBaddress: REServed?	9-125
			CSS:SPACH:SUBaddress: ADDRess *n,m*	9-346	FDCCH:SPACH:SUBaddress: ADDRess?	9-125
MACA_LIST	O	19 to (19+ 11*N)	CSS:SPACH:ENABLE:MACA:LIST *n*	9-384	N/A	–
			CSS:SPACH:MACA:LIST:NUMBER *n*	9-376	FDCCH:SPACH:MACA:LIST:NUMBer?	9-150
			CSS:SPACH:MACA:LIST:CHAN *n,m*	9-376	FDCCH:SPACH:MACA:LIST:CHAN? *n*	9-150
MACA_LIST (Other Hyperband)	O	21 to (21+ 11*P)	CSS:SPACH:ENABLE:MACA:LIST: OTHER *n*	9-384	N/A	–
			CSS:SPACH:MACA:LIST:OTHER: HYPERband *n*	9-376	FDCCH:SPACH:MACA:LIST:OTHER: HYPERband?	9-150
			CSS:SPACH:MACA:LIST:OTHER: NUMBer *n*	9-376	FDCCH:SPACH:MACA:LIST:OTHER: NUMBer?	9-150
			CSS:SPACH:MACA:LIST:OTHER: CHAN *n,m*	9-377	FDCCH:SPACH:MACA:LIST:OTHER: CHAN? *n*	9-150
Display	O	12 to 668	CSS:SPACH:ENABLE:DISPlay *n*	9-377	N/A	–
			CSS:SPACH:DISPlay:LENGth *n*	9-347	FDCCH:SPACH:DISPlay:LENGth?	9-126
			CSS:SPACH:DISPlay:CHARacter *n,m*	9-347	FDCCH:SPACH:DISPlay: CHARacter? *n*	9-126

Table 11-51 SPACH - Queue Update

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:AUDITcon *n*	9-404	RDCCH:MSGtype?	9-160
PFC Minus One	M	3	MSS:RDCCH:PFC_1 *n*	9-407	RDCCH:PFC_1?	9-160
Selected PSID/RSID	O	8	MSS:RDCCH:ENABle:PSID_RSID: SELect *n*	9-437	N/A	–
			MSS:RDCCH:PSID_RSID:SELect *n*	9-407	RDCCH:PSID_RSID:SELect?	9-160
User Group	O	28,32, 42,58	MSS:RDCCH:ENABle:USER:GROUP *n*	9-440	N/A	–
			MSS:RDCCH:USER:GROUP:STATus *n*	9-427	RDCCH:USER:GROUP:STATUS?	9-171
			MSS:RDCCH:USER:GROUP:TYPE *n*	9-428	RDCCH:USER:GROUP:TYPE?	9-171
			MSS:RDCCH:USER:GROUP:UGID: MS *n*	9-428	RDCCH:USER:GROUP:UGID:MS?	9-171
			MSS:RDCCH:USER:GROUP:UGID: LS *n*	9-428	RDCCH:USER:GROUP:UGID:LS?	9-171
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161
Display	O	12 to 668	MSS:RDCCH:ENABle:DISPlay *n*	9-437	N/A	–
			MSS:RDCCH:DISPlay:LENGth *n*	9-409	RDCCH:DISPlay:LENGth?	9-161
			MSS:RDCCH:DISPlay:CHARacter *n,m*	9-409	RDCCH:DISPlay:CHARacter? *n*	9-161

Table 11-52 RACH - Audit Confirmation

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype: AUTHentication *n*	9-404	RDCCH:MSGtype?	9-160
COUNT	M	6	MSS:RDCCH:COUNt *n*	9-409	RDCCH:COUNt?	9-161
RANDC	M	8	MSS:RDCCH:RANDC *n*	9-409	RDCCH:RANDC?	9-161
AUTHR	M	18	MSS:RDCCH:AUTHR *n*	9-409	RDCCH:AUTHR?	9-161

Table 11-53 RACH - Authentication

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:BSCHAL *n*	9-404	RDCCH:MSGtype?	9-160
RANDBS	M	32	MSS:RDCCH:RANDBS *n*	9-409	RDCCH:RANDBS?	9-161
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-54 RACH - Base Station Challenge Order

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:BSMC *n*	9-404	RDCCH:MSGtype?	9-160
BSMC	M	8	MSS:RDCCH:BSMC *n*	9-410	RDCCH:BSMC?	9-162
Custom Control	M	1 to 2024	MSS:RDCCH:CUSTom:LENGth *n*	9-410	RDCCH:CUSTom:LENGth?	9-162
			MSS:RDCCH:CUSTom:CONTrol *n,x*	9-410	RDCCH:CUSTom:CONTrol? *n*	9-162
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-55 RACH - BSMC Message Delivery

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:CAPability *n*	9-404	RDCCH:MSGtype?	9-160
Protocol Version	M	4	MSS:RDCCH:PROTocol:VERsion *n*	9-410	RDCCH:PROTocol:VERsion?	9-162
SCM	M	5	MSS:RDCCH:SCM *n*	9-410	RDCCH:SCM?	9-162
Software Vintage	M	6	MSS:RDCCH:VINtage:SOFTware *n*	9-411	RDCCH:VINtage:SOFTware?	9-162
Firmware Vintage	M	6	MSS:RDCCH:VINtage:FIRMware *n*	9-411	RDCCH:VINtage:FIRMware?	9-162
Model Number	M	4	MSS:RDCCH:MODEL *n*	9-411	RDCCH:MODEL?	9-162
Manufacturer Code	M	8	MSS:RDCCH:MANufacture *n*	9-411	RDCCH:MANufacture?	9-162
MAX_SUPPORTED_PFC	M	3	MSS:RDCCH:SUPPort:MAX:PFC *n*	9-411	RDCCH:SUPPort:MAX:PFC?	9-162
SOC Support	M	1	MSS:RDCCH:SUPPort:SOC *n*	9-411	RDCCH:SUPPort:SOC?	9-162
BSMC Support	M	1	MSS:RDCCH:SUPPort:BSMC *n*	9-412	RDCCH:SUPPort:BSMC?	9-163
Async Data Support	M	1	MSS:RDCCH:SUPPort:ASYNC *n*	9-412	RDCCH:SUPPort:ASYNC?	9-163
G3-Fax Support	M	1	MSS:RDCCH:SUPPort:G3fax *n*	9-412	RDCCH:SUPPort:G3fax?	9-163
SMS Broadcast Support	M	1	MSS:RDCCH:SUPPort:SMS *n*	9-412	RDCCH:SUPPort:SMS?	9-163
Subaddressing Support	M	1	MSS:RDCCH:SUPPort:SUBaddress *n*	9-412	RDCCH:SUPPort:SUBaddress?	9-163
Supported Frequency Bands	M	8	MSS:RDCCH:SUPPort:FREQuency:BANDS *n*	9-412	RDCCH:SUPPort:FREQuency:BANDS?	9-163
IRA Support	M	1	MSS:RDCCH:SUPPort:IRA *n*	9-413	RDCCH:SUPPort:IRA?	9-163
User Group Support	M	1	MSS:RDCCH:SUPPort:USER *n*	9-413	RDCCH:SUPPort:USER?	9-163
800 MHz Analog Speech Support	M	1	MSS:RDCCH:SUPPort:ANA800 *n*	9-413	RDCCH:SUPPort:ANA800?	9-163
Half-Rate DTC Support	M	1	MSS:RDCCH:SUPPort:HALF *n*	9-413	RDCCH:SUPPort:HALF?	9-163
Double Rate DTC Support	M	1	MSS:RDCCH:SUPPort:DOUBle *n*	9-413	RDCCH:SUPPort:DOUBle?	9-163
Triple Rate DTC Support	M	1	MSS:RDCCH:SUPPort:TRIPle *n*	9-414	RDCCH:SUPPort:TRIPle?	9-163
STU-III Support	M	1	MSS:RDCCH:SUPPort:STU_III *n*	9-414	RDCCH:SUPPort:STU_III?	9-164
Continued on Following Page						

Table 11-56 RACH - Capability Report

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161
Voice Coder Map Info	O	10	MSS:RDCCH:ENABle:VC_MAP *n*	9-437	N/A	–
			MSS:RDCCH:VC_MAP *n*	9-414	RDCCH:VC_MAP?	9-164
ALT_SOC_Support	O	16	MSS:RDCCH:ENABle:SUPPort: ALT_SOC *n*	9-437	N/A	–
			MSS:RDCCH:SUPPort:ALT_SOC *n*	9-414	RDCCH:SUPPort:ALT_SOC?	9-164

Table 11-56 RACH - Capability Report (cont)

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:MACA *n*	9-404	RDCCH:MSGtype?	9-160
LTM Measurement	O	16	MSS:RDCCH:ENABle:MEASurement:LTM *n*	9-438	N/A	–
			MSS:RDCCH:MEASurement:LTM:WER *n*	9-415	RDCCH:MEASurement:LTM:WER?	9-164
			MSS:RDCCH:MEASurement:LTM:BER *n*	9-415	RDCCH:MEASurement:LTM:BER?	9-164
			MSS:RDCCH:MEASurement:LTM:RSS *n*	9-415	RDCCH:MEASurement:LTM:RSS?	9-164
			MSS:RDCCH:MEASurement:LTM:FULL *n*	9-415	RDCCH:MEASurement:LTM:FULL?	9-164
STM Measurement	O	8+ (N+1)*5	MSS:RDCCH:ENABle:MEASurement:STM *n*	9-438	N/A	–
			MSS:RDCCH:MEASurement:STM:NV *n*	9-416	RDCCH:MEASurement:STM:NV?	9-164
			MSS:RDCCH:MEASurement:STM:RSS *n,m*	9-416	RDCCH:MEASurement:STM:RSS? *n*	9-164
STM Measurement (Other Hyperband)	O	14 to 93	MSS:RDCCH:ENABle:MEASurement:OTHER:STM *n*	9-438	N/A	–
			MSS:RDCCH:MEASurement:OTHER:STM:LENGth *n*	9-416	RDCCH:MEASurement:OTHER:STM:LENGth?	9-165
			MSS:RDCCH:MEASurement:OTHER:STM:REPort *n*	9-416	RDCCH:MEASurement:OTHER:STM:REPort?	9-165
			MSS:RDCCH:MEASurement:OTHER:STM:RSS *n,m*	9-417	RDCCH:MEASurement:OTHER:STM:RSS? *n*	9-165

Table 11-57 RACH - MACA Report

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:ORIGination *n*	9-404	RDCCH:MSGtype?	9-160
Protocol Version	M	4	MSS:RDCCH:PROTocol:VERsion *n*	9-410	RDCCH:PROTocol:VERsion?	9-162
Emergency Call	M	1	MSS:RDCCH:EMERgency *n*	9-417	RDCCH:EMERgency?	9-165
Called Party Number	M	16 to *	MSS:RDCCH:CALLED:TYPE *n*	9-422	RDCCH:CALLED:TYPE?	9-167
			MSS:RDCCH:CALLED:PLANid *n*	9-422	RDCCH:CALLED:PLANid?	9-167
			MSS:RDCCH:CALLED:ADDRess: ENCoding *n*	9-422	RDCCH:CALLED:ENCoding?	9-167
			MSS:RDCCH:CALLED:ADDRess *"n"*	9-422	RDCCH:CALLED:ADDRess?	9-167
Last Try	M	1	MSS:RDCCH:LT *n*	9-417	RDCCH:LT?	9-165
SCM	M	5	MSS:RDCCH:SCM *n*	9-410	RDCCH:SCM?	9-162
Service Code	M	4	MSS:RDCCH:SERVice *n*	9-417	RDCCH:SERVice?	9-165
Voice Mode	O	10	MSS:RDCCH:ENABle:MODE:VOICe *n*	9-438	N/A	–
			MSS:RDCCH:VOICEMode:NUMBer *n*	9-420	RDCCH:VOICEMode:NUMBer?	9-166
			MSS:RDCCH:VOICEMode:VC *n,m*	9-420	RDCCH:VOICEMode:VC? *n*	9-166
			MSS:RDCCH:VOICEMode:PM *n,m*	9-420	RDCCH:VOICEMode:PM? *n*	9-166
Data Mode	O	16	MSS:RDCCH:ENABle:MODE:DATA *n*	9-438	N/A	–
			MSS:RDCCH:MODE:DATA:PM *n*	9-418	RDCCH:MODE:DATA:PM?	9-166
			MSS:RDCCH:MODE:DATA:SAP *n*	9-418	RDCCH:MODE:DATA:SAP?	9-166
			MSS:RDCCH:MODE:DATA:ACKED *n*	9-418	RDCCH:MODE:DATA:ACKED?	9-166
			MSS:RDCCH:MODE:DATA:CRC *n*	9-419	RDCCH:MODE:DATA:CRC?	9-166
			MSS:RDCCH:MODE:DATA:PART *n*	9-419	RDCCH:MODE:DATA:PART?	9-166
			MSS:RDCCH:MODE:DATA:RLP *n*	9-419	RDCCH:MODE:DATA:RLP?	9-166
Message Encryption Mode	O	13	MSS:RDCCH:ENABle:MEM *n*	9-439	N/A	–
			MSS:RDCCH:MEM:MEA *n*	9-421	RDCCH:MEM:MEA?	9-167
			MSS:RDCCH:MEM:MED *n*	9-421	RDCCH:MEM:MED?	9-167
			MSS:RDCCH:MEM:MEK *n*	9-421	RDCCH:MEM:MEK?	9-167

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Table 11-58 RACH - Origination

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Bandwidth	O	7	MSS:RDCCH:ENABle:BANDWidth *n*	9-439	N/A	–
			MSS:RDCCH:BANDWidth *n*	9-421	RDCCH:BANDWidth?	9-167
Calling Party Number Presentation Indicator	O	8	MSS:RDCCH:ENABle:CALLING: PRESentation *n*	9-439	N/A	–
			MSS:RDCCH:CALLING:PRESentation: PI *n*	9-424	RDCCH:CALLING:PRESentation:PI?	9-169
			MSS:RDCCH:CALLING:PRESentation: SI *n*	9-424	RDCCH:CALLING:PRESentation:SI?	9-169
Calling Party Number	O	20 to *	MSS:RDCCH:ENABle:CALLING: ADDRess *n*	9-439	N/A	–
			MSS:RDCCH:CALLING:TYPE *n*	9-424	RDCCH:CALLING:TYPE?	9-168
			MSS:RDCCH:CALLING:PLANid *n*	9-424	RDCCH:CALLING:PLANid?	9-168
			MSS:RDCCH:CALLING:ADDRess: ENCoding *n*	9-424	RDCCH:CALLING:ENCoding?	9-168
			MSS:RDCCH:CALLING:ADDRess *"n"*	9-424	RDCCH:CALLING:ADDRess?	9-168
Called Party Subaddress	O	20 to 180	MSS:RDCCH:ENABle:CALLED: SUBaddress *n*	9-440	N/A	–
			N/A	–	RDCCH:CALLED:SUBaddress: LENGth?	9-168
			MSS:RDCCH:CALLED:SUBaddress: ODD_EVEN *n*	9-423	RDCCH:CALLED:SUBaddress: ODD_EVEN?	9-168
			MSS:RDCCH:CALLED:SUBaddress: TYPE *n*	9-423	RDCCH:CALLED:SUBaddress:TYPE?	9-168
			MSS:RDCCH:CALLED:SUBaddress: REServed *n*	9-423	RDCCH:CALLED:SUBaddress: REServed?	9-168
			MSS:RDCCH:CALLED:SUBaddress: ADDRess *n,m*	9-423	RDCCH:CALLED:SUBaddress: ADDRess? *n*	9-168
Continued on Following Page						

Table 11-58 RACH - Origination (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Calling Party Subaddress	O	20 to 180	MSS:RDCCH:ENABle:CALLING:SUBaddress *n*	9-439	N/A	–
			MSS:RDCCH:CALLING:SUBaddress:LENGth *n*	9-425	RDCCH:CALLING:SUBaddress:LENGth?	9-169
			MSS:RDCCH:CALLING:SUBaddress:ODD_EVEN *n*	9-425	RDCCH:CALLING:SUBaddress:ODD_EVEN?	9-169
			MSS:RDCCH:CALLING:SUBaddress:TYPE *n*	9-425	RDCCH:CALLING:SUBaddress:TYPE?	9-169
			MSS:RDCCH:CALLING:SUBaddress:REServed *n*	9-425	RDCCH:CALLING:SUBaddress:REServed?	9-169
			MSS:RDCCH:CALLING:SUBaddress:ADDRess *n,m*	9-425	RDCCH:CALLING:SUBaddress:ADDRess? *n*	9-169

Table 11-58 RACH - Origination (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype: PAGE_RESPonse *n*	9-405	RDCCH:MSGtype?	9-160
Protocol Version	M	4	MSS:RDCCH:PROTocol:VERsion *n*	9-410	RDCCH:PROTocol:VERsion?	9-162
Last Try	M	1	MSS:RDCCH:LT *n*	9-417	RDCCH:LT?	9-165
SCM	M	5	MSS:RDCCH:SCM *n*	9-410	RDCCH:SCM?	9-162
Service Code	M	4	MSS:RDCCH:SERVice *n*	9-417	RDCCH:SERVice?	9-165
Voice Mode	O	10	MSS:RDCCH:ENABle:MODE:VOICe *n*	9-438	N/A	–
			MSS:RDCCH:VOICEMode:NUMBer *n*	9-420	RDCCH:VOICEMode:NUMBer?	9-166
			MSS:RDCCH:VOICEMode:VC *n,m*	9-420	RDCCH:VOICEMode:VC? *n*	9-166
			MSS:RDCCH:VOICEMode:PM *n,m*	9-420	RDCCH:VOICEMode:PM? *n*	9-166
Data Mode	O	16	MSS:RDCCH:ENABle:MODE:DATA *n*	9-438	N/A	–
			MSS:RDCCH:MODE:DATA:PM *n*	9-418	RDCCH:MODE:DATA:PM?	9-166
			MSS:RDCCH:MODE:DATA:SAP *n*	9-418	RDCCH:MODE:DATA:SAP?	9-166
			MSS:RDCCH:MODE:DATA:ACKED *n*	9-418	RDCCH:MODE:DATA:ACKED?	9-166
			MSS:RDCCH:MODE:DATA:CRC *n*	9-419	RDCCH:MODE:DATA:CRC?	9-166
			MSS:RDCCH:MODE:DATA:PART *n*	9-419	RDCCH:MODE:DATA:PART?	9-166
			MSS:RDCCH:MODE:DATA:RLP *n*	9-419	RDCCH:MODE:DATA:RLP?	9-166
Message Encryption Mode	O	13	MSS:RDCCH:ENABle:MEM *n*	9-439	N/A	–
			MSS:RDCCH:MEM:MEA *n*	9-421	RDCCH:MEM:MEA?	9-167
			MSS:RDCCH:MEM:MED *n*	9-421	RDCCH:MEM:MED?	9-167
			MSS:RDCCH:MEM:MEK *n*	9-421	RDCCH:MEM:MEK?	9-167
Bandwidth	O	7	MSS:RDCCH:ENABle:BANDWidth *n*	9-439	N/A	–
			MSS:RDCCH:BANDWidth *n*	9-421	RDCCH:BANDWidth?	9-167
Continued on Following Page						

Table 11-59 RACH - Page Response

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
User Group	O	28,32, 42,58	MSS:RDCCH:ENABle:USER:GROUP *n*	9-440	N/A	–
			MSS:RDCCH:USER:GROUP:STATus *n*	9-427	RDCCH:USER:GROUP:STATUS?	9-171
			MSS:RDCCH:USER:GROUP:TYPE *n*	9-428	RDCCH:USER:GROUP:TYPE?	9-171
			MSS:RDCCH:USER:GROUP:UGID: MS *n*	9-428	RDCCH:USER:GROUP:UGID:MS?	9-171
			MSS:RDCCH:USER:GROUP:UGID: LS *n*	9-428	RDCCH:USER:GROUP:UGID:LS?	9-171
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-59 RACH - Page Response (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:QDISConnect *n*	9-405	RDCCH:MSGtype?	9-160
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-60 RACH - Queue Disconnect

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:RDATA *n*	9-405	RDCCH:MSGtype?	9-160
R-Transaction Identifier	M	8	MSS:RDCCH:RTRANSaction *n*	9-426	RDCCH:RTRANSaction?	9-170
R-Data Unit	M	16 to *	MSS:RDCCH:RDATA_UNIT:LENGth *n*	9-426	RDCCH:RDATA_UNIT:LENGth?	9-170
			MSS:RDCCH:RDATA_UNIT:HLP:IDentifier *n*	9-426	RDCCH:RDATA_UNIT:HLP:IDentifier?	9-170
			MSS:RDCCH:RDATA_UNIT:HLP:DATA *n,m*	9-426	RDCCH:RDATA_UNIT:HLP:DATA? *n*	9-170
Message Center Address	O	20 to *	MSS:RDCCH:ENABle:MESSage:CENTer:ADDRess *n*	9-440	N/A	–
			MSS:RDCCH:MESSage:CENTer:TYPE *n*	9-427	RDCCH:MESSage:CENTer:TYPE?	9-170
			MSS:RDCCH:MESSage:CENTer:PLANid *n*	9-427	RDCCH:MESSage:CENTer:PLANid?	9-170
			MSS:RDCCH:MESSage:CENTer:ADDRess:ENCoding *n*	9-427	RDCCH:MESSage:CENTer:ENCoding?	9-170
			MSS:RDCCH:MESSage:CENTer:ADDRess *"n"*	9-427	RDCCH:MESSage:CENTer:ADDRess?	9-170
User Destination Address	O	20 to *	MSS:RDCCH:ENABle:USER:DEST:ADDRess *n*	9-440	N/A	–
			MSS:RDCCH:DEST:TYPE *n*	9-429	RDCCH:USER:DEST:TYPE?	9-171
			MSS:RDCCH:DEST:PLANid *n*	9-429	RDCCH:USER:DEST:PLANid?	9-171
			MSS:RDCCH:DEST:ADDRess:ENCoding *n*	9-429	RDCCH:USER:DEST:ENCoding?	9-171
			MSS:RDCCH:DEST:ADDRess *"n"*	9-429	RDCCH:USER:DEST:ADDRess?	9-171
Continued on Following Page						

Table 11-61 RACH - R-DATA

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
User Destination Subaddress	O	20 to 180	MSS:RDCCH:ENABle:USER:DEST: SUBaddress *n*	9-440	N/A	–
			MSS:RDCCH:DEST:SUBaddress: LENGth *n*	9-430	RDCCH:USER:DEST:SUBaddress: LENGth?	9-172
			MSS:RDCCH:DEST:SUBaddress: ODD_EVEN *n*	9-430	RDCCH:USER:DEST:SUBaddress: ODD_EVEN?	9-172
			MSS:RDCCH:DEST:SUBaddress: TYPE *n*	9-430	RDCCH:USER:DEST:SUBaddress: TYPE?	9-172
			MSS:RDCCH:DEST:SUBaddress: REServed *n*	9-430	RDCCH:USER:DEST:SUBaddress: REServed?	9-172
			MSS:RDCCH:DEST:SUBaddress: ADDRess *n,m*	9-430	RDCCH:USER:DEST:SUBaddress: ADDRess? *n*	9-172
User Originating Address	O	20 to *	MSS:RDCCH:ENABle:USER:ORIG: ADDRess *n*	9-441	N/A	–
			MSS:RDCCH:ORIG:TYPE *n*	9-431	RDCCH:USER:ORIG:TYPE?	9-172
			MSS:RDCCH:ORIG:PLANid *n*	9-431	RDCCH:USER:ORIG:PLANid?	9-172
			MSS:RDCCH:ORIG:ADDRess: ENCoding *n*	9-431	RDCCH:USER:ORIG:ENCoding?	9-172
			MSS:RDCCH:ORIG:ADDRess *"n"*	9-431	RDCCH:USER:ORIG:ADDRess?	9-172
Continued on Following Page						

Table 11-61 RACH - R-DATA (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
User Originating Subaddress	O	20 to 180	MSS:RDCCH:ENABle:USER:ORIG:SUBaddress *n*	9-441	N/A	–
			MSS:RDCCH:ORIG:SUBaddress:LENGth *n*	9-432	RDCCH:USER:ORIG:SUBaddress:LENGth?	9-173
			MSS:RDCCH:ORIG:SUBaddress:ODD_EVEN *n*	9-432	RDCCH:USER:ORIG:SUBaddress:ODD_EVEN?	9-173
			MSS:RDCCH:ORIG:SUBaddress:TYPE *n*	9-432	RDCCH:USER:ORIG:SUBaddress:TYPE?	9-173
			MSS:RDCCH:ORIG:SUBaddress:REServed *n*	9-432	RDCCH:USER:ORIG:SUBaddress:REServed	9-173
			MSS:RDCCH:ORIG:SUBaddress:ADDRess *n,m*	9-432	RDCCH:USER:ORIG:SUBaddress:ADDRess? *n*	9-173
User Originating Address Presentation Indicator	O	8	MSS:RDCCH:ENABle:USER:ORIG:PRES:PI *n*	9-441	N/A	–
			MSS:RDCCH:ORIG:PRESentation:PI *n*	9-433	RDCCH:USER:ORIG:PRESentation:PI?	9-173
			MSS:RDCCH:ORIG:PRESentation:SI *n*	9-433	RDCCH:USER:ORIG:PRESentation:SI?	9-173

Table 11-61 RACH - R-DATA (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGTYPE:RDATA: ACCept *n*	9-405	RDCCH:MSGtype?	9-160
R-Transaction Identifier	M	8	MSS:RDCCH:RTRANSaction *n*	9-426	RDCCH:RTRANSaction?	9-170
R-DATA Delay	O	8	MSS:RDCCH:ENABle:RDATA:DELay *n*	9-441	N/A	–
			MSS:RDCCH:RDATA:DELay *n*	9-433	RDCCH:RDATA:DELay?	9-174
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-62 RACH - R-DATA ACCEPT

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGTYPE:RDATA: REJect *n*	9-405	RDCCH:MSGtype?	9-160
R-Transaction Identifier	M	8	MSS:RDCCH:RTRANSaction *n*	9-426	RDCCH:RTRANSaction?	9-170
R-Cause	M	8	MSS:RDCCH:RCAUSe *n*	9-433	RDCCH:RCAUSe?	9-174
			MSS:RDCCH:RCAUSe:REServed *n*	9-433	RDCCH:RCAUSe:REServed?	9-174
R-DATA Delay	O	8	MSS:RDCCH:ENABle:RDATA:DELay *n*	9-441	N/A	–
			MSS:RDCCH:RDATA:DELay *n*	9-433	RDCCH:RDATA:DELay?	9-174
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-63 RACH - R-DATA REJECT

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:REGistration *n*	9-405	RDCCH:MSGtype?	9-160
Registration Type	M	4	MSS:RDCCH:REG:TYPE *n*	9-434	RDCCH:REG:TYPE?	9-174
SCM	M	5	MSS:RDCCH:SCM *n*	9-410	RDCCH:SCM?	9-162
Protocol Version	M	4	MSS:RDCCH:PROTocol:VERsion *n*	9-410	RDCCH:PROTocol:VERsion?	9-162
C-Number	O	20 to *	MSS:RDCCH:ENABle:CNUMber *n*	9-441	N/A	–
			MSS:RDCCH:CNUMber:TYPE *n*	9-434	RDCCH:CNUMBer:TYPE?	9-174
			MSS:RDCCH:CNUMber:PLANid *n*	9-434	RDCCH:CNUMBer:PLANid?	9-174
			MSS:RDCCH:CNUMber:ADDRess: ENCoding *n*	9-434	RDCCH:CNUMBer:ENCoding?	9-174
			MSS:RDCCH:CNUMber:ADDRess *"n"*	9-434	RDCCH:CNUMBer:ADDRess?	9-174
PFC Request	O	7	MSS:RDCCH:ENABle:PFC:REQuest *n*	9-442	N/A	–
			MSS:RDCCH:PFC:REQuest *n*	9-435	RDCCH:PFC:REQuest?	9-175
Message Encryption Mode	O	13	MSS:RDCCH:ENABle:MEM *n*	9-439	N/A	–
			MSS:RDCCH:MEM:MEA *n*	9-421	RDCCH:MEM:MEA?	9-167
			MSS:RDCCH:MEM:MED *n*	9-421	RDCCH:MEM:MED?	9-167
			MSS:RDCCH:MEM:MEK *n*	9-421	RDCCH:MEM:MEK?	9-167
Selected PSID/RSID	O	8	MSS:RDCCH:ENABle:PSID_RSID: SELect *n*	9-437	N/A	–
			MSS:RDCCH:PSID_RSID:SELect *n*	9-407	RDCCH:PSID_RSID:SELect?	9-160
User Group	O	28,32, 42,58	MSS:RDCCH:ENABle:USER:GROUP *n*	9-440	N/A	–
			MSS:RDCCH:USER:GROUP:STATus *n*	9-427	RDCCH:USER:GROUP:STATUS?	9-171
			MSS:RDCCH:USER:GROUP:TYPE *n*	9-428	RDCCH:USER:GROUP:TYPE?	9-171
			MSS:RDCCH:USER:GROUP:UGID: MS *n*	9-428	RDCCH:USER:GROUP:UGID:MS?	9-171
			MSS:RDCCH:USER:GROUP:UGID: LS *n*	9-428	RDCCH:USER:GROUP:UGiD:LS?	9-171

Continued on Following Page

Table 11-64 RACH - Registration

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Continued From Preceding Page						
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161
SID Report	O	23	MSS:RDCCH:ENABle:SID_REPort *n*	9-442	N/A	–
			MSS:RDCCH:SID_REPort *n*	9-435	RDCCH:SID_REPort?	9-175

Table 11-64 RACH - Registration (cont)

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:SERial *n*	9-405	RDCCH:MSGtype?	9-160
ESN	M	32	MSS:RDCCH:ESN *n*	9-436	RDCCH:ESN?	9-175

Table 11-65 RACH - Serial Number

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:SOC *n*	9-405	RDCCH:MSGtype?	9-160
SOC	M	12	MSS:RDCCH:SOC *n*	9-435	RDCCH:SOC?	9-175
Custom Control	M	1 to 2024	MSS:RDCCH:CUSTom:LENGth *n*	9-410	RDCCH:CUSTom:LENGth?	9-162
			MSS:RDCCH:CUSTom:CONTrol *n,x*	9-410	RDCCH:CUSTom:CONTrol? *n*	9-162
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-66 RACH - SOC Message Delivery

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:SPACHcon *n*	9-405	RDCCH:MSGtype?	9-160
Confirmed Message Type	M	6	MSS:RDCCH:CONFirmed:MSGtype *n*	9-436	RDCCH:CONFIRMed:MSGtype?	9-175
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-67 RACH - SPACH Confirmation

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:SSDUPcon *n*	9-406	RDCCH:MSGtype?	9-160
SSD Update Status	M	2	MSS:RDCCH:SSDUP:STATus *n*	9-436	RDCCH:SSDUP:STATus?	9-175
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-68 RACH - SSD Update Order Confirmation

Information Element		Length	TMAC COMMANDS ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:TEST *n*	9-406	RDCCH:MSGtype?	9-160
PSID/RSID Map	M	16	MSS:RDCCH:PSID_RSID:MAP *n*	9-407	RDCCH:PSID_RSID:MAP?	9-160
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-69 RACH - Test Registration

Information Element		Length	TMAC COMMANDS			
			ENCODE	Page	DECODE	Page
Protocol Discriminator	M	2	N/A	–	RDCCH:PD?	9-160
Message Type	M	6	MSS:RDCCH:MSGtype:UCHALcon *n*	9-406	RDCCH:MSGtype?	9-160
AUTHU	M	18	MSS:RDCCH:AUTHU *n*	9-436	RDCCH:AUTHU?	9-175
Subaddress	O	20 to 180	MSS:RDCCH:ENABle:SUBaddress *n*	9-437	N/A	–
			MSS:RDCCH:SUBaddress:LENGth *n*	9-408	RDCCH:SUBaddress:LENGth?	9-161
			MSS:RDCCH:SUBaddress: ODD_EVEN *n*	9-408	RDCCH:SUBaddress:ODD_EVEN?	9-161
			MSS:RDCCH:SUBaddress:TYPE *n*	9-408	RDCCH:SUBaddress:TYPE?	9-161
			MSS:RDCCH:SUBaddress:REServed *n*	9-408	RDCCH:SUBaddress:REServed?	9-161
			MSS:RDCCH:SUBaddress: ADDRess *n,m*	9-408	RDCCH:SUBaddress:ADDRess? *n*	9-161

Table 11-70 RACH - Unique Challenge Order Confirmation

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SECTION 12 - SPECIAL TEST KEY WORD INDEX

The following is a permuted index of all of the Special Test commands in the IFR-1900 CSA TMAC Users Manual. The **bold** words in the center column are the particular key words being indexed. Each full command is indexed by each word in the command.

Due to space limitations, the words "FACCH: or SACCH:" has been reduced to "FACCH:"

COMMAND								PAGE NO.
		BER:	RDTC:	DATA:	**45MHZ_OFFset**			9-447
		FOCC:	RAW:	WORD:	**A**			9-16
			FOCC:	STREAM:	**A**			9-5
			FOCC:	WORD:	**A**			9-5
			FOCC:	RAW:	**A:**	CHECK?		9-18
			FOCC:	RAW:	**A:**	DATA?		9-18
			FOCC:	RAW:	**A:**	PARITY?		9-18
		CSS:	MSCM:	ORDER:	**A_ALERT**			9-237
			FOCC:	CAPTure:	**A_ALERT**			9-7
		FOCC:	RAW:	CAPTure:	**A_ALERT**			9-16
		MSS:	RDCCH:	LENGth:	**ABBREViated**			9-391
			RDCCH:	LENGth:	**ABBREViated**			9-152
	RDCCH:	REMote:	RAW:	LENGth:	**ABBREViated**			9-153
	CSS:	FDTC:	FACCH:	RDATA:	**ACCept**			9-201
	MSS:	RDCCH:	MSGtype:	RDATA:	**ACCept**			9-405
		CSS:	FBCCH:	MSGtype:	**ACCess**			9-252
		CSS:	GLACT:	ACTion:	**ACCess**			9-232
CSS:	EBCCH:	NEIGHbor:	ANAlog:	CELL:	**ACCess:**	MS_PWR		9-293
CSS:	EBCCH:	NEIGHbor:	ANAlog:	CELL:	**ACCess:**	MS_PWR?		9-293
CSS:	EBCCH:	NEIGHbor:	ANAlog:	CELL:	**ACCess:**	RSS_MIN		9-293
CSS:	EBCCH:	NEIGHbor:	ANAlog:	CELL:	**ACCess:**	RSS_MIN?		9-293
CSS:	EBCCH:	NEIGHbor:	ANAlog:	MULti:	**ACCess:**	MS_PWR		9-303
CSS:	EBCCH:	NEIGHbor:	ANAlog:	MULti:	**ACCess:**	MS_PWR?		9-303
CSS:	EBCCH:	NEIGHbor:	ANAlog:	MULti:	**ACCess:**	RSS_MIN		9-303
CSS:	EBCCH:	NEIGHbor:	ANAlog:	MULti:	**ACCess:**	RSS_MIN?		9-303
CSS:	EBCCH:	NEIGHbor:	OTHER:	MULti:	**ACCess:**	MS_PWR		9-309
CSS:	EBCCH:	NEIGHbor:	OTHER:	MULti:	**ACCess:**	MS_PWR?		9-309
CSS:	EBCCH:	NEIGHbor:	OTHER:	MULti:	**ACCess:**	RSS_MIN		9-309
CSS:	EBCCH:	NEIGHbor:	OTHER:	MULti:	**ACCess:**	RSS_MIN?		9-309
CSS:	EBCCH:	NEIGHbor:	TDMA:	CELL:	**ACCess:**	MS_PWR		9-287
CSS:	EBCCH:	NEIGHbor:	TDMA:	CELL:	**ACCess:**	MS_PWR?		9-287
CSS:	EBCCH:	NEIGHbor:	TDMA:	CELL:	**ACCess:**	RSS_MIN		9-287
CSS:	EBCCH:	NEIGHbor:	TDMA:	CELL:	**ACCess:**	RSS_MIN?		9-287
CSS:	EBCCH:	NEIGHbor:	TDMA:	MULti:	**ACCess:**	MS_PWR		9-297
CSS:	EBCCH:	NEIGHbor:	TDMA:	MULti:	**ACCess:**	MS_PWR?		9-297
CSS:	EBCCH:	NEIGHbor:	TDMA:	MULti:	**ACCess:**	RSS_MIN		9-297
CSS:	EBCCH:	NEIGHbor:	TDMA:	MULti:	**ACCess:**	RSS_MIN?		9-297
			CSS:	FBCCH:	**ACCess:**	BURSTsize		9-259
			CSS:	FBCCH:	**ACCess:**	BURSTsize?		9-259
			CSS:	FBCCH:	**ACCess:**	MS_PWR		9-259
			CSS:	FBCCH:	**ACCess:**	MS_PWR?		9-259
			CSS:	FBCCH:	**ACCess:**	RSS_MIN		9-259
			CSS:	FBCCH:	**ACCess:**	RSS_MIN?		9-259
		CSS:	FDCCH:	SUPERframe:	**ACCess:**	PE		9-249
		CSS:	FDCCH:	SUPERframe:	**ACCess:**	PE?		9-249
		CSS:	FDCCH:	SUPERframe:	**ACCess:**	SCF		9-250
		CSS:	FDCCH:	SUPERframe:	**ACCess:**	SCF?		9-250
		CSS:	FDCCH:	SUPERframe:	**ACCess:**	TYPE:	NONE	9-249
		CSS:	FDCCH:	SUPERframe:	**ACCess:**	TYPE:	PROGram	9-249
		CSS:	FDCCH:	SUPERframe:	**ACCess:**	TYPE:	RANDom	9-248
		CSS:	FDCCH:	SUPERframe:	**ACCess:**	TYPE:	REServed	9-248
		CSS:	FDCCH:	SUPERframe:	**ACCess:**	TYPE?		9-249
FDCCH:	EBCCH:	NEIGHbor:	ANAlog:	CELL:	**ACCess:**	MS_PWR?		9-101
FDCCH:	EBCCH:	NEIGHbor:	ANAlog:	CELL:	**ACCess:**	RSS_MIN?		9-101
FDCCH:	EBCCH:	NEIGHbor:	ANAlog:	MULti:	**ACCess:**	MS_PWR?		9-109
FDCCH:	EBCCH:	NEIGHbor:	ANAlog:	MULti:	**ACCess:**	RSS_MIN?		9-109
FDCCH:	EBCCH:	NEIGHbor:	OTHER:	MULti:	**ACCess:**	MS_PWR?		9-112
FDCCH:	EBCCH:	NEIGHbor:	OTHER:	MULti:	**ACCess:**	RSS_MIN?		9-112
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	CELL:	**ACCess:**	MS_PWR?		9-97
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	CELL:	**ACCess:**	RSS_MIN?		9-97
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	**ACCess:**	MS_PWR?		9-105
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	**ACCess:**	RSS_MIN?		9-105
			FDCCH:	FBCCH:	**ACCess:**	BURSTsize?		9-84
			FDCCH:	FBCCH:	**ACCess:**	MS_PWR?		9-84
			FDCCH:	FBCCH:	**ACCess:**	RSS_MIN?		9-84
		MSS:	RDCCH:	MESSage:	**ACCESS:**	TYPE:	NONE	9-398
		MSS:	RDCCH:	MESSage:	**ACCESS:**	TYPE:	SFP	9-398

		MSS:	RDCCH:	MESSage:	**ACCESS:**	TYPE?		9-398
		CSS:	FBCCH:	MSGtype:	**ACCess?**			9-252
		CSS:	GLACT:	ACTion:	**ACCess?**			9-232
			FDTC:	VOCODER:	**ACELP**			9-27
		MSS:	RDTC:	VOCoder:	**ACELP**			9-445
			RDTC:	VOCoder:	**ACELP**			9-51
	MSS:	RDCCH:	MODE:	DATA:	**ACKED**			9-418
	MSS:	RDCCH:	MODE:	DATA:	**ACKED?**			9-418
		RDCCH:	MODE:	DATA:	**ACKED?**			9-166
	RDTC:	FACCH:	MODe:	DATA:	**ACKED?**			9-59
			RECC:	DATA:	**ACKED?**			9-45
			RDTC:	AUTO:	**ACKnowledge:**	ENABle		9-51
			RDTC:	AUTO:	**ACKnowledge:**	ENABle?		9-51
				FOCC:	**ACT?**			9-10
			CSS:	GLACT:	**ACTion:**	ACCess		9-232
			CSS:	GLACT:	**ACTion:**	ACCess?		9-232
			CSS:	GLACT:	**ACTion:**	BIS		9-232
			CSS:	GLACT:	**ACTion:**	BIS?		9-232
			CSS:	GLACT:	**ACTion:**	LOCAID		9-232
			CSS:	GLACT:	**ACTion:**	LOCAID?		9-232
			CSS:	GLACT:	**ACTion:**	LOCAL1		9-232
			CSS:	GLACT:	**ACTion:**	LOCAL1?		9-232
			CSS:	GLACT:	**ACTion:**	LOCAL2		9-232
			CSS:	GLACT:	**ACTion:**	LOCAL2?		9-232
			CSS:	GLACT:	**ACTion:**	NEWACC		9-232
			CSS:	GLACT:	**ACTion:**	NEWACC?		9-232
			CSS:	GLACT:	**ACTion:**	OLC		9-233
			CSS:	GLACT:	**ACTion:**	OLC?		9-233
			CSS:	GLACT:	**ACTion:**	RANDA		9-233
			CSS:	GLACT:	**ACTion:**	RANDA?		9-233
			CSS:	GLACT:	**ACTion:**	RANDB		9-233
			CSS:	GLACT:	**ACTion:**	RANDB?		9-233
			CSS:	GLACT:	**ACTion:**	REGINCR		9-233
			CSS:	GLACT:	**ACTion:**	REGINCR?		9-233
			CSS:	GLACT:	**ACTion:**	RESCAN		9-233
			CSS:	GLACT:	**ACTion:**	RESCAN?		9-233
				EDIT:	**ACTivity**			9-456
				EDIT:	**ACTivity?**			9-456
			CSS:	FBCCH:	**ADDitional:**	DCCH:	CHANnel	9-263
			CSS:	FBCCH:	**ADDitional:**	DCCH:	CHANnel?	9-263
			CSS:	FBCCH:	**ADDitional:**	DCCH:	SLOT	9-263
			CSS:	FBCCH:	**ADDitional:**	DCCH:	SLOT?	9-263
			CSS:	FBCCH:	**ADDitional:**	NUMBer		9-263
			CSS:	FBCCH:	**ADDitional:**	NUMBer?		9-263
		CSS:	FBCCH:	ENABLE:	**ADDitional:**	DCCH		9-274
		CSS:	FBCCH:	ENABLE:	**ADDitional:**	DCCH?		9-274
			FDCCH:	FBCCH:	**ADDitional:**	CHANnel?		9-86
			FDCCH:	FBCCH:	**ADDitional:**	NUMBer?		9-85
			FDCCH:	FBCCH:	**ADDitional:**	PT?		9-85
			FDCCH:	FBCCH:	**ADDitional:**	SLOT?		9-86
CSS:	FDTC:	ENABLE:	MESSage:	CENTer:	**ADDRess**			9-211
CSS:	FDTC:	ENABLE:	USER:	DEST:	**ADDRess**			9-213
CSS:	FDTC:	ENABLE:	USER:	ORIG:	**ADDRess**			9-214
	CSS:	FDTC:	MESSage:	CENTer:	**ADDRess**			9-218
	CSS:	FDTC:	USER:	DEST:	**ADDRess**			9-226
CSS:	FDTC:	USER:	DEST:	SUBaddress:	**ADDRess**			9-227
	CSS:	FDTC:	USER:	ORIG:	**ADDRess**			9-228
CSS:	FDTC:	USER:	ORIG:	SUBaddress:	**ADDRess**			9-230
		CSS:	SPACH:	CALLED:	**ADDRess**			9-355
	CSS:	SPACH:	CALLED:	SUBaddress:	**ADDRess**			9-356
		CSS:	SPACH:	CALLING:	**ADDRess**			9-357
	CSS:	SPACH:	CALLING:	SUBaddress:	**ADDRess**			9-358
		CSS:	SPACH:	DIRectory:	**ADDRess**			9-370
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FDCCH:	EBCCH:	MACA:	LIST:	OTHER:	NUMBer?		9-117
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FDCCH:	EBCCH:	NEIGHbor:	ANAlog:	CELL:	HL_FREQ?		9-100
FDCCH:	EBCCH:	NEIGHbor:	ANAlog:	CELL:	OFFset?		9-100
FDCCH:	EBCCH:	NEIGHbor:	ANAlog:	CELL:	PROTocol?		9-99
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FDCCH:	EBCCH:	NEIGHbor:	ANAlog:	CELL:	TYPE:	CELL?	9-100
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FDCCH:	EBCCH:	NEIGHbor:	OTHER:	MULti:	PSID_RSID:	INDicator?	9-112
FDCCH:	EBCCH:	NEIGHbor:	OTHER:	MULti:	PSID_RSID:	LENGth?	9-112
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FDCCH:	EBCCH:	NEIGHbor:	TDMA:	CELL:	DVCC?		9-96
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	CELL:	HL_FREQ?		9-96
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	CELL:	OFFset?		9-96
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	CELL:	PROTocol?		9-95
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FDCCH:	EBCCH:	NEIGHbor:	TDMA:	CELL:	SS_SUFF?		9-96
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	CELL:	SYNC?		9-96
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FDCCH:	EBCCH:	NEIGHbor:	TDMA:	INFO:	SERVice:	INDicator?	9-102
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	INFO:	SERVice:	MAP?	9-102
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FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	ACCess:	RSS_MIN?	9-105
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	CHAN?		9-103
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	DELay?		9-104
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	DVCC?		9-104
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	HL_FREQ?		9-104
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	NUMBer?		9-103
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	OFFset?		9-104
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	PROTocol?		9-103
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	PSID_RSID:	INDicator?	9-106
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FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	SS_SUFF?		9-104
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	SYNC?		9-104
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	TYPE:	CELL?	9-105
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	MULti:	TYPE:	NETwork?	9-105
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	NUMBer?			9-95
FDCCH:	EBCCH:	NEIGHbor:	TDMA:	PT?			9-95
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FDCCH:	EBCCH:	NONPublic:	PROBability:	LENGth?			9-95
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FDCCH:	FBCCH:	ALPHA:	SID:	LENGth?		9-89
FDCCH:	FBCCH:	ALPHA:	SID:	PT?		9-89
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FDCCH:	FBCCH:	BI?				9-80
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FDCCH:	FBCCH:	MACA:	LIST:	CHAN?		9-90
FDCCH:	FBCCH:	MACA:	LIST:	NUMBer?		9-90
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FDCCH:	FBCCH:	MACA:	STATus?			9-90
FDCCH:	FBCCH:	MACA:	TYPE?			9-90
FDCCH:	FBCCH:	MAP:	ARQ?			9-92
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FDCCH:	FBCCH:	MAP:	CODER?			9-92
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	CSS:	SPACH:	**USER:**	ORIG:	ENCoding?		9-365
	CSS:	SPACH:	**USER:**	ORIG:	PLANid		9-365
	CSS:	SPACH:	**USER:**	ORIG:	PLANid?		9-365
	CSS:	SPACH:	**USER:**	ORIG:	PRESentation:	PI	9-367
	CSS:	SPACH:	**USER:**	ORIG:	PRESentation:	PI?	9-367
	CSS:	SPACH:	**USER:**	ORIG:	PRESentation:	SI	9-367
	CSS:	SPACH:	**USER:**	ORIG:	PRESentation:	SI?	9-367
	CSS:	SPACH:	**USER:**	ORIG:	SUBaddress:	ADDRess	9-366
	CSS:	SPACH:	**USER:**	ORIG:	SUBaddress:	ADDRess?	9-366
	CSS:	SPACH:	**USER:**	ORIG:	SUBaddress:	LENGth	9-366
	CSS:	SPACH:	**USER:**	ORIG:	SUBaddress:	LENGth?	9-366
	CSS:	SPACH:	**USER:**	ORIG:	SUBaddress:	ODD_EVEN	9-366
	CSS:	SPACH:	**USER:**	ORIG:	SUBaddress:	ODD_EVEN?	9-366
	CSS:	SPACH:	**USER:**	ORIG:	SUBaddress:	REServed	9-366
	CSS:	SPACH:	**USER:**	ORIG:	SUBaddress:	REServed?	9-366
	CSS:	SPACH:	**USER:**	ORIG:	SUBaddress:	TYPE	9-366
	CSS:	SPACH:	**USER:**	ORIG:	SUBaddress:	TYPE?	9-366
	CSS:	SPACH:	**USER:**	ORIG:	TYPE		9-365
	CSS:	SPACH:	**USER:**	ORIG:	TYPE?		9-365
	FDCCH:	SPACH:	**USER:**	DEST:	ADDRess?		9-138
	FDCCH:	SPACH:	**USER:**	DEST:	ENCoding?		9-138

	FDCCH:	SPACH:	**USER:**	DEST:	LENGth?		9-138
	FDCCH:	SPACH:	**USER:**	DEST:	PLANid?		9-138
	FDCCH:	SPACH:	**USER:**	DEST:	PT?		9-138
	FDCCH:	SPACH:	**USER:**	DEST:	SUBaddress:	ADDRess?	9-139
	FDCCH:	SPACH:	**USER:**	DEST:	SUBaddress:	LENGth?	9-139
	FDCCH:	SPACH:	**USER:**	DEST:	SUBaddress:	ODD_EVEN?	9-139
	FDCCH:	SPACH:	**USER:**	DEST:	SUBaddress:	PT?	9-139
	FDCCH:	SPACH:	**USER:**	DEST:	SUBaddress:	REServed?	9-139
	FDCCH:	SPACH:	**USER:**	DEST:	SUBaddress:	TYPE?	9-139
	FDCCH:	SPACH:	**USER:**	DEST:	TYPE?		9-138
	FDCCH:	SPACH:	**USER:**	GROUP:	ID:	LS?	9-140
	FDCCH:	SPACH:	**USER:**	GROUP:	ID:	MS?	9-140
	FDCCH:	SPACH:	**USER:**	GROUP:	PT?		9-140
	FDCCH:	SPACH:	**USER:**	GROUP:	STATus?		9-140
	FDCCH:	SPACH:	**USER:**	GROUP:	TYPE?		9-140
	FDCCH:	SPACH:	**USER:**	ORIG:	ADDRess?		9-141
	FDCCH:	SPACH:	**USER:**	ORIG:	ENCoding?		9-141
	FDCCH:	SPACH:	**USER:**	ORIG:	LENGth?		9-140
	FDCCH:	SPACH:	**USER:**	ORIG:	PLANid?		9-141
	FDCCH:	SPACH:	**USER:**	ORIG:	PRESentation:	PI?	9-141
	FDCCH:	SPACH:	**USER:**	ORIG:	PRESentation:	SI?	9-141
	FDCCH:	SPACH:	**USER:**	ORIG:	PT?		9-140
	FDCCH:	SPACH:	**USER:**	ORIG:	SUBaddress:	ADDRess?	9-142
	FDCCH:	SPACH:	**USER:**	ORIG:	SUBaddress:	LENGth?	9-142
	FDCCH:	SPACH:	**USER:**	ORIG:	SUBaddress:	ODD_EVEN?	9-142
	FDCCH:	SPACH:	**USER:**	ORIG:	SUBaddress:	PT?	9-142
	FDCCH:	SPACH:	**USER:**	ORIG:	SUBaddress:	REServed?	9-142
	FDCCH:	SPACH:	**USER:**	ORIG:	SUBaddress:	TYPE?	9-142
	FDCCH:	SPACH:	**USER:**	ORIG:	TYPE?		9-140
	FDTC:	FACCH:	**USER:**	DEST:	ADDRess?		9-38
	FDTC:	FACCH:	**USER:**	DEST:	ENCoding?		9-38
	FDTC:	FACCH:	**USER:**	DEST:	LENGth?		9-38
	FDTC:	FACCH:	**USER:**	DEST:	PLANid?		9-38
	FDTC:	FACCH:	**USER:**	DEST:	SUBaddress:	ADDRess?	9-39
	FDTC:	FACCH:	**USER:**	DEST:	SUBaddress:	LENGth?	9-38
	FDTC:	FACCH:	**USER:**	DEST:	SUBaddress:	ODD_EVEN?	9-38
	FDTC:	FACCH:	**USER:**	DEST:	SUBaddress:	REServed?	9-39
	FDTC:	FACCH:	**USER:**	DEST:	SUBaddress:	TYPE?	9-38
	FDTC:	FACCH:	**USER:**	DEST:	TYPE?		9-38
	FDTC:	FACCH:	**USER:**	ORIG:	ADDRess?		9-39
	FDTC:	FACCH:	**USER:**	ORIG:	ENCoding?		9-39
	FDTC:	FACCH:	**USER:**	ORIG:	LENGth?		9-39
	FDTC:	FACCH:	**USER:**	ORIG:	PLANid?		9-39
	FDTC:	FACCH:	**USER:**	ORIG:	PRESentation:	LENGth?	9-40
	FDTC:	FACCH:	**USER:**	ORIG:	PRESentation:	PI?	9-40
	FDTC:	FACCH:	**USER:**	ORIG:	PRESentation:	REServed?	9-40
	FDTC:	FACCH:	**USER:**	ORIG:	PRESentation:	SI?	9-40
	FDTC:	FACCH:	**USER:**	ORIG:	SUBaddress:	ADDRess?	9-40
	FDTC:	FACCH:	**USER:**	ORIG:	SUBaddress:	LENGth?	9-39
	FDTC:	FACCH:	**USER:**	ORIG:	SUBaddress:	ODD_EVEN?	9-39
	FDTC:	FACCH:	**USER:**	ORIG:	SUBaddress:	REServed?	9-40
	FDTC:	FACCH:	**USER:**	ORIG:	SUBaddress:	TYPE?	9-40
	FDTC:	FACCH:	**USER:**	ORIG:	TYPE?		9-39
MSS:	RDCCH:	ENABle:	**USER:**	DEST:	ADDRess		9-440
MSS:	RDCCH:	ENABle:	**USER:**	DEST:	ADDRess?		9-440
MSS:	RDCCH:	ENABle:	**USER:**	DEST:	SUBaddress		9-440
MSS:	RDCCH:	ENABle:	**USER:**	DEST:	SUBaddress?		9-440
MSS:	RDCCH:	ENABle:	**USER:**	GROUP			9-440
MSS:	RDCCH:	ENABle:	**USER:**	GROUP?			9-440
MSS:	RDCCH:	ENABle:	**USER:**	ORIG:	ADDRess		9-441
MSS:	RDCCH:	ENABle:	**USER:**	ORIG:	ADDRess?		9-441
MSS:	RDCCH:	ENABle:	**USER:**	ORIG:	PRES:	PI	9-441
MSS:	RDCCH:	ENABle:	**USER:**	ORIG:	PRES:	PI?	9-441
MSS:	RDCCH:	ENABle:	**USER:**	ORIG:	SUBaddress		9-441
MSS:	RDCCH:	ENABle:	**USER:**	ORIG:	SUBaddress?		9-441
	MSS:	RDCCH:	**USER:**	GROUP:	STATus		9-427
	MSS:	RDCCH:	**USER:**	GROUP:	STATus?		9-427
	MSS:	RDCCH:	**USER:**	GROUP:	TYPE		9-428
	MSS:	RDCCH:	**USER:**	GROUP:	TYPE?		9-428
	MSS:	RDCCH:	**USER:**	GROUP:	UGID:	LS	9-428
	MSS:	RDCCH:	**USER:**	GROUP:	UGID:	LS?	9-428
	MSS:	RDCCH:	**USER:**	GROUP:	UGID:	MS	9-428
	MSS:	RDCCH:	**USER:**	GROUP:	UGID:	MS?	9-428
	MSS:	RDCCH:	**USER:**	MIN			9-428
	MSS:	RDCCH:	**USER:**	MIN?			9-428
		RDCCH:	**USER:**	DEST:	ADDRess?		9-171
		RDCCH:	**USER:**	DEST:	ENCoding?		9-171
		RDCCH:	**USER:**	DEST:	LENGth?		9-171

			RDCCH:	**USER:**	DEST:	PLANid?		9-171
			RDCCH:	**USER:**	DEST:	SUBaddress:	ADDRess?	9-172
			RDCCH:	**USER:**	DEST:	SUBaddress:	LENGth?	9-172
			RDCCH:	**USER:**	DEST:	SUBaddress:	ODD_EVEN?	9-172
			RDCCH:	**USER:**	DEST:	SUBaddress:	REServed?	9-172
			RDCCH:	**USER:**	DEST:	SUBaddress:	TYPE?	9-172
			RDCCH:	**USER:**	DEST:	TYPE?		9-171
			RDCCH:	**USER:**	GROUP:	STATUS?		9-171
			RDCCH:	**USER:**	GROUP:	TYPE?		9-171
			RDCCH:	**USER:**	GROUP:	UGID:	LS?	9-171
			RDCCH:	**USER:**	GROUP:	UGID:	MS?	9-171
			RDCCH:	**USER:**	ORIG:	ADDRess?		9-172
			RDCCH:	**USER:**	ORIG:	ENCoding?		9-172
			RDCCH:	**USER:**	ORIG:	LENGth?		9-172
			RDCCH:	**USER:**	ORIG:	PLANid?		9-172
			RDCCH:	**USER:**	ORIG:	PRESentation:	PI?	9-173
			RDCCH:	**USER:**	ORIG:	PRESentation:	SI?	9-173
			RDCCH:	**USER:**	ORIG:	SUBaddress:	ADDRess?	9-173
			RDCCH:	**USER:**	ORIG:	SUBaddress:	LENGth?	9-173
			RDCCH:	**USER:**	ORIG:	SUBaddress:	ODD_EVEN?	9-173
			RDCCH:	**USER:**	ORIG:	SUBaddress:	REServed?	9-173
			RDCCH:	**USER:**	ORIG:	SUBaddress:	TYPE?	9-173
			RDCCH:	**USER:**	ORIG:	TYPE?		9-172
		RDTC:	FACCH:	**USER:**	DEST:	ADDRess?		9-63
		RDTC:	FACCH:	**USER:**	DEST:	ENCoding?		9-63
		RDTC:	FACCH:	**USER:**	DEST:	LENGth?		9-63
		RDTC:	FACCH:	**USER:**	DEST:	PLANid?		9-63
		RDTC:	FACCH:	**USER:**	DEST:	SUBaddress:	ADDRess?	9-63
		RDTC:	FACCH:	**USER:**	DEST:	SUBaddress:	LENGth?	9-63
		RDTC:	FACCH:	**USER:**	DEST:	SUBaddress:	ODD_EVEN?	9-63
		RDTC:	FACCH:	**USER:**	DEST:	SUBaddress:	REServed?	9-63
		RDTC:	FACCH:	**USER:**	DEST:	SUBaddress:	TYPE?	9-63
		RDTC:	FACCH:	**USER:**	DEST:	TYPE?		9-63
		RDTC:	FACCH:	**USER:**	ORIG:	ADDRess?		9-64
		RDTC:	FACCH:	**USER:**	ORIG:	ENCoding?		9-64
		RDTC:	FACCH:	**USER:**	ORIG:	LENGth?		9-64
		RDTC:	FACCH:	**USER:**	ORIG:	PLANid?		9-64
		RDTC:	FACCH:	**USER:**	ORIG:	PRESentation:	LENGth?	9-65
		RDTC:	FACCH:	**USER:**	ORIG:	PRESentation:	PI?	9-65
		RDTC:	FACCH:	**USER:**	ORIG:	PRESentation:	REServed?	9-65
		RDTC:	FACCH:	**USER:**	ORIG:	PRESentation:	SI?	9-65
		RDTC:	FACCH:	**USER:**	ORIG:	SUBaddress:	ADDRess?	9-64
		RDTC:	FACCH:	**USER:**	ORIG:	SUBaddress:	LENGth?	9-64
		RDTC:	FACCH:	**USER:**	ORIG:	SUBaddress:	ODD_EVEN?	9-64
		RDTC:	FACCH:	**USER:**	ORIG:	SUBaddress:	REServed?	9-64
		RDTC:	FACCH:	**USER:**	ORIG:	SUBaddress:	TYPE?	9-64
		RDTC:	FACCH:	**USER:**	ORIG:	TYPE?		9-64
	CSS:	EBCCH:	MAP:	**USER?**				9-320
	CSS:	FBCCH:	MAP:	**USER?**				9-272
	FDCCH:	EBCCH:	MAP:	**USER?**				9-118
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	MSS:	RDCCH:	SUPPort:	**USER?**				9-413
		RDCCH:	SUPPort:	**USER?**				9-163
	CSS:	SPACH:	MSGtype1:	**USERalert**				9-344
	CSS:	SPACH:	MSGtype2:	**USERalert**				9-344
	CSS:	SPACH:	MSGtype3:	**USERalert**				9-344
	CSS:	SPACH:	MSGtype4:	**USERalert**				9-344
	CSS:	FBCCH:	PSID_RSID:	**VALUE**				9-267
CSS:	SPACH:	PSID_RSID:	AVAILable:	**VALUE**				9-369
	CSS:	FBCCH:	PSID_RSID:	**VALUE?**				9-267
CSS:	SPACH:	PSID_RSID:	AVAILable:	**VALUE?**				9-369
	FDCCH:	FBCCH:	PSID_RSID:	**VALUE?**				9-88
FDCCH:	SPACH:	PSID_RSID:	AVAILable:	**VALUE?**				9-144
		CSS:	CALL:	**VC**				9-187
	CSS:	FDTC:	VMI:	**VC**				9-230
CSS:	SPACH:	MODE:	VOICE:	**VC**				9-350
MSS:	RDCCH:	MODE:	VOICe:	**VC**				9-418
	MSS:	RDCCH:	VOICEMode:	**VC**				9-420
		CSS:	CALL:	**VC?**				9-187
	CSS:	FDTC:	VMI:	**VC?**				9-230
CSS:	SPACH:	MODE:	VOICE:	**VC?**				9-350
FDCCH:	SPACH:	MODE:	VOICE:	**VC?**				9-128
	FDTC:	FACCH:	VMI:	**VC?**				9-40
MSS:	RDCCH:	MODE:	VOICe:	**VC?**				9-418
	MSS:	RDCCH:	VOICEMode:	**VC?**				9-420
	RDCCH:	MODE:	VOICe:	**VC?**				9-165
		RDCCH:	VOICEMode:	**VC?**				9-166
RDTC:	FACCH:	MODe:	VOICe:	**VC?**				9-58

	CSS:	MSCM:	ORDER:	**VC_DES**		9-241
		FOCC:	CAPTure:	**VC_DES**		9-8
	FOCC:	RAW:	CAPTure:	**VC_DES**		9-17
	MSS:	RDCCH:	ENABle:	**VC_MAP**		9-437
		MSS:	RDCCH:	**VC_MAP**		9-414
	MSS:	RDCCH:	ENABle:	**VC_MAP?**		9-437
		MSS:	RDCCH:	**VC_MAP?**		9-414
			RDCCH:	**VC_MAP?**		9-164
	MSS:	RDCCH:	PROTocol:	**VERsion**		9-410
	MSS:	RDCCH:	PROTocol:	**VERsion?**		9-410
		RDCCH:	PROTocol:	**VERsion?**		9-162
		MSS:	RDCCH:	**VINtage:**	FIRMware	9-411
		MSS:	RDCCH:	**VINtage:**	FIRMware?	9-411
		MSS:	RDCCH:	**VINtage:**	SOFTware	9-411
		MSS:	RDCCH:	**VINtage:**	SOFTware?	9-411
			RDCCH:	**VINtage:**	FIRMware?	9-162
			RDCCH:	**VINtage:**	SOFTware?	9-162
		CSS:	CALL:	**VMAC**		9-188
		CSS:	FVC:	**VMAC**		9-198
		CSS:	MSCM:	**VMAC**		9-244
		CSS:	SPACH:	**VMAC**		9-345
		CSS:	CALL:	**VMAC?**		9-188
		CSS:	FVC:	**VMAC?**		9-198
		CSS:	MSCM:	**VMAC?**		9-244
		CSS:	SPACH:	**VMAC?**		9-345
		FDCCH:	SPACH:	**VMAC?**		9-125
			FOCC:	**VMAC?**		9-15
			FVC:	**VMAC?**		9-24
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		CSS:	FDTC:	**VMI:**	PM_V	9-230
		CSS:	FDTC:	**VMI:**	PM_V?	9-230
		CSS:	FDTC:	**VMI:**	VC	9-230
		CSS:	FDTC:	**VMI:**	VC?	9-230
		FDTC:	FACCH:	**VMI:**	PM_V?	9-40
		FDTC:	FACCH:	**VMI:**	VC?	9-40
	CSS:	FDTC:	ENABLE:	**VMI?**		9-214
			FDTC:	**VOCODER:**	ACELP	9-27
			FDTC:	**VOCODER:**	VSELP	9-27
		MSS:	RDTC:	**VOCoder:**	ACELP	9-445
		MSS:	RDTC:	**VOCoder:**	VSELP	9-445
			RDTC:	**VOCoder:**	ACELP	9-51
			RDTC:	**VOCoder:**	VSELP	9-51
CSS:	SPACH:	ENABLE:	MODE:	**VOICE**		9-378
MSS:	RDCCH:	ENABle:	MODE:	**VOICe**		9-438
	CSS:	SPACH:	MODE:	**VOICE:**	PM_V	9-350
	CSS:	SPACH:	MODE:	**VOICE:**	PM_V?	9-350
	CSS:	SPACH:	MODE:	**VOICE:**	VC	9-350
	CSS:	SPACH:	MODE:	**VOICE:**	VC?	9-350
	FDCCH:	SPACH:	MODE:	**VOICE:**	PM_V?	9-128
	FDCCH:	SPACH:	MODE:	**VOICE:**	PT?	9-128
	FDCCH:	SPACH:	MODE:	**VOICE:**	VC?	9-128
	MSS:	RDCCH:	MODE:	**VOICe:**	PM	9-418
	MSS:	RDCCH:	MODE:	**VOICe:**	PM?	9-418
	MSS:	RDCCH:	MODE:	**VOICe:**	VC	9-418
	MSS:	RDCCH:	MODE:	**VOICe:**	VC?	9-418
		RDCCH:	MODE:	**VOICe:**	PM?	9-165
		RDCCH:	MODE:	**VOICe:**	VC?	9-165
	RDTC:	FACCH:	MODe:	**VOICe:**	PM_V?	9-58
	RDTC:	FACCH:	MODe:	**VOICe:**	VC?	9-58
CSS:	SPACH:	ENABLE:	MODE:	**VOICE?**		9-378
MSS:	RDCCH:	ENABle:	MODE:	**VOICe?**		9-438
	CSS:	FVC:	ORDER:	**VOICE_MSG_WTG**		9-193
	CSS:	MSCM:	ORDER:	**VOICE_MSG_WTG**		9-241
		MSS:	RDCCH:	**VOICEMode:**	NUMBer	9-420
		MSS:	RDCCH:	**VOICEMode:**	NUMBer?	9-420
		MSS:	RDCCH:	**VOICEMode:**	PM	9-420
		MSS:	RDCCH:	**VOICEMode:**	PM?	9-420
		MSS:	RDCCH:	**VOICEMode:**	VC	9-420
		MSS:	RDCCH:	**VOICEMode:**	VC?	9-420
			RDCCH:	**VOICEMode:**	NUMBer?	9-166
			RDCCH:	**VOICEMode:**	PM?	9-166
			RDCCH:	**VOICEMode:**	VC?	9-166
	CSS:	FVC:	ENABLE:	**VOICEPrivacy**		9-195
	CSS:	FVC:	ENABLE:	**VOICEPrivacy?**		9-195
	CSS:	EBCCH:	MAP:	**VPM**		9-318
	CSS:	FBCCH:	MAP:	**VPM**		9-270
CSS:	FDTC:	ENABLE:	STATUS:	**VPM**		9-213
	CSS:	FDTC:	MAP:	**VPM**		9-216

		CSS:	FDTC:	**VPM**		9-230
	CSS:	EBCCH:	MAP:	**VPM?**		9-318
	CSS:	FBCCH:	MAP:	**VPM?**		9-270
CSS:	FDTC:	ENABLE:	STATUS:	**VPM?**		9-213
	CSS:	FDTC:	MAP:	**VPM?**		9-216
		CSS:	FDTC:	**VPM?**		9-230
	FDCCH:	EBCCH:	MAP:	**VPM?**		9-117
	FDCCH:	FBCCH:	MAP:	**VPM?**		9-91
	FDTC:	FACCH:	MAP:	**VPM?**		9-32
		FDTC:	FACCH:	**VPM?**		9-41
	RDTC:	FACCH:	MAP:	**VPM?**		9-57
		RDTC:	FACCH:	**VPM?**		9-65
		FDTC:	VOCODER:	**VSELP**		9-27
	MSS:	RDTC:	VOCoder:	**VSELP**		9-445
		RDTC:	VOCoder:	**VSELP**		9-51
MSS:	RDCCH:	MEASurement:	LTM:	**WER**		9-415
MSS:	RDCCH:	MEASurement:	LTM:	**WER?**		9-415
	RDCCH:	MEASurement:	LTM:	**WER?**		9-164
		CSS:	FOCC:	**WFOM**		9-185
		CSS:	FOCC:	**WFOM?**		9-185
			FOCC:	**WFOM?**		9-15
		FOCC:	RAW:	**WORD:**	A	9-16
		FOCC:	RAW:	**WORD:**	B	9-16
		FOCC:	RAW:	**WORD:**	BOTH	9-16
			FOCC:	**WORD:**	A	9-5
			FOCC:	**WORD:**	B	9-5
			FOCC:	**WORD:**	BOTH	9-5
	CSS:	FDCCH:	SUPERframe:	**ZERO**		9-250
		POWer:	FDTC: or RDTC:	**ZERO**		9-450
		CSS:	EBCCH:	**ZONE:**	DIRection	9-322
		CSS:	EBCCH:	**ZONE:**	DIRection?	9-322
		CSS:	EBCCH:	**ZONE:**	DST	9-322
		CSS:	EBCCH:	**ZONE:**	DST?	9-322
		CSS:	EBCCH:	**ZONE:**	MINutes	9-322
		CSS:	EBCCH:	**ZONE:**	MINutes?	9-322
		FDCCH:	EBCCH:	**ZONE:**	DIRection?	9-119
		FDCCH:	EBCCH:	**ZONE:**	DST?	9-119
		FDCCH:	EBCCH:	**ZONE:**	MINutes?	9-119

APPENDICES

APPENDIX A - PREDEFINED MACROS AND CONSTANTS

A-1 PREDEFINED MACROS

The following macros are predefined in the HOST and Special Test (Sp Tst):

```
*DMC "Chirp_1", BEGIN
    SOUND 1600,50
    DELAY 100
    SOUND 1600,50
END
```

```
*DMC "Chirp_2", BEGIN
    SOUND 1300,30
    SOUND 1500,30
    SOUND 1700,30
    SOUND 1500,30
    SOUND 1300,30
END
```

A-2 PREDEFINED CONSTANTS

The following colors are predefined constants in the HOST and Sp Tst:

WHITE	YELLOW	MAGENTA
RED	CYAN	GREEN
BLUE	DARK_GRAY	LIGHT_GRAY
BROWN	DARK_MAGENTA	DARK_RED
DARK_CYAN	DARK_GREEN	DARK_BLUE
BLACK		

The following Front Panel Keys are predefined constants and are equal to the corresponding keycodes (see Appendix B):

DEL	CE	RCL
STOR	SETUP	SGL_STEP
AUTO	GO	STOP
F_RIGHT	F_LEFT	RIGHT
LEFT	F_DOWN	F_UP
DOWN	UP	BACK_ARROW
ESC	ENTER	F1
F2	F3	F4
F5	F6	

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APPENDIX B - FRONT PANEL KEYS AND KEYCODES

B-1 TABLE OF FRONT PANEL KEYS AND KEYCODES

KEY	KEYCODE	KEY	KEYCODE	KEY	KEYCODE
F1	1152	+/-	1025	K	75
F2	2176	4	2056	L	76
F3	4224	5	2052	M	77
F4	8320	6	2050	N	78
F5	16512	M/μ	2049	O	79
F6	32896	1	4104	P	80
RF GEN	1088	2	4100	Q	81
RCVR	2112	3	4098	R	82
DPLX	4160	K/m	4097	S	83
AF GEN	8256	•	8208	T	84
SCOPE/ANLZ	16448	*	8200	U	85
MTRS	32832	0	8196	V	86
AUTO	1056	#	8194	W	87
SGL STEP	2080	ENTER	8193	X	88
GO	4128	A	65	Y	89
STOP	8224	B	66	Z	90
SETUP	16400	C	67	FIELD SELECT ←	257
STORE	32784	D	68	FIELD SELECT ↑	513
RCL	32776	E	69	FIELD SELECT ↓	258
CE	16388	F	70	FIELD SELECT →	514
DEL	32772	G	71	DATA SCROLL ↑[1]	264
7	1032	H	72	DATA SCROLL ↓[2]	260
8	1028	I	73	DATA SCROLL ←	520
9	1026	J	74	DATA SCROLL →	516

1. Same as turning DATA SCROLL Spinner to the right.
2. Same as turning DATA SCROLL Spinner to the left.

Table B-1 Front Panel Keys and Keycodes

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APPENDIX C - INDIVIDUAL SELF TEST COMMANDS (HOST Only)

C-1 GENERAL

This section describes the TMAC commands for the HOST individual Self Tests. The commands in this section should only be used while in the User Screen (**SCREEN:USER**). Each command responds with a series of values. Some of the tests may take several seconds to execute.

Use ***TST?** to conduct a complete self test. See para 2-17 and Section 3.

Any active test is completed and response returned before TMAC interprets any new commands.

C-2 RESPONSE DATA

Each test returns a standard set of response data which consists of four data values separated by commas as follows: TN,S,TP,TF. See Table C-1 for a description of this standard set of response data:

DATA VALUE	DESCRIPTION
TN	Self Test Number corresponding to the test number of the HOST Self Test. The HOST Self Test is accessible from the Auxiliary Functions Menu (see Section 5 of the IFR-1900 Operation Manual). Returns a value from 2 to 24.
S	Status result of test executed. 1 if test Passed; 0 Failed.
TP	Total Number of Passes for this test since Test Set was powered up. Returns 0 to 999.
TF	Total Number of Failures for this test since Test Set was powered up. Returns 0 to 999.

Table C-1 Standard Response Data (STD-DAT)

The data in Table C-1 are returned for each test. The Standard Response Data is referred to as STD-DAT. In addition to the STD-DAT, most tests return other response data which are appended (follows the STD-DAT) and are described in the command description.

All Pass or Fail status values not part of STD-DAT is denoted as 0/1/-1 where 0 = Fail, 1 = Pass and -1 = Not Tested. A status returns -1 if a previous portion of the test failed and caused the test to abort.

For returned status values of -1, any associated data values should be ignored.

The TP and TF values in STD-DAT should only be used when the Test Set is self tested using the commands listed in this section.

C-3 COMMANDS

TEST:TOD?
Returns Time of Day Clock self test status. Returns STD-DAT.

TEST:RAM?
Returns RAM Memory (CPU/Memory Board RAM) self test status. Returns STD-DAT,PS, PA,MS,MA.

PS - CPU RAM test status (0/1/-1).
PA - CPU RAM failed address (if applicable) (#h0 to #hFFFF).
MS - Memory Board RAM test status (0/1/-1).
MA - Memory Board RAM failed address (if applicable) (#h210000 to #h2FFFFF).

TEST:ROM?
Returns ROM Memory (CPU/Memory Board ROM) self test status. Returns STD-DAT,PS, PC,MS,MC.

PS - CPU ROM test status (0/1/-1).
PC - CPU ROM Checksum (#h0 to #hFF).
MS - Memory Board ROM test status (0/1/-1).
MA - Memory Board ROM Checksum (#h0 to #hFF).

TEST:WAITS?
Returns Wait State Generator self test status. Returns STD-DAT,S1,R1,S2,R2,S3,R3.

S1 - Register 1 test status (0/1/-1).
R1 - Register 1 value (#h3A expected).
S2 - Register 2 test status (0/1/-1).
R2 - Register 2 value (#h3A expected).
S3 - Register 3 test status (0/1/-1).
R3 - Register 3 value (#h5A expected).

TEST:BUSs?
Returns I/O Bus Communications self test status. Returns STD-DAT,CS,MS,FS,RS,ES.

CS - Counter Board communications (0/1/-1).
MS - Monitor Board communications (0/1/-1).
FS - Function Generator Board communications (0/1/-1).
RS - RF I/O Board communication status (0/1/-1).
ES - SCSI device communication status (0/1/-1).

TEST:SUPply?
Returns Voltage (Power Supply voltage) self test status. Returns STD-DAT,S5,V5,S15, V15,S15M,V15M.

S5 - +5 V measurement status (0/1/-1).
V5 - +5 V measurement in volts (5.0 ±10%).
S15 - +15 V measurement status (0/1/-1).
V15 - +15 V measurement in volts (15.0 ±10%).
S15M - -15 V measurement status (0/1/-1).
V15M - -15 V measurement in volts (-15.0 ±10%).

TEST:TEMP?
Returns Temperature (Ambient/RF Temperature) self test status. Returns STD-DAT,AS, AT,RS,RT.

AS - Ambient Temperature status (0/1/-1).
AT - Ambient Temperature measured in °C (0.0 to 80.0).
RS - RF Temperature status (0/1/-1).
RT - RF Temperature measured in °C (0.0 to 150.0).

TEST:SINAD?
Returns Audio SINAD self test status. Returns STD-DAT,SR.

SR - SINAD Reading in dB (10.0 ±1.5).

TEST:SCOPe?
Returns Scope Period and Level self test status. Returns STD-DAT,PS,LS,H1,V1,H2,V2, H3,V3,H4,V4,H5,V5,H6,V6.

PS - Period Status (0/1/-1).
LS - Level Status (0/1/-1).
H1 - Point 1 Horizontal position (0 to 400).
V1 - Point 1 Vertical position (0 to 255).
H2 - Point 2 Horizontal position (0 to 400).
V2 - Point 2 Vertical position (0 to 255).
H3 - Point 3 Horizontal position (0 to 400).
V3 - Point 3 Vertical position (0 to 255).
H4 - Point 4 Horizontal position (0 to 400).
V4 - Point 4 Vertical position (0 to 255).
H5 - Point 5 Horizontal position (0 to 400).
V5 - Point 5 Vertical position (0 to 255).
H6 - Point 6 Horizontal position (0 to 400).
V6 - Point 6 Vertical position (0 to 255).

TEST:AF?
Returns Audio Frequency Counter self test status. Returns STD-DAT,AF.

AF - Measured Audio Frequency (3789 ±30.0).

TEST:LPASs?
Returns Low-Pass Filter self test status. Returns STD-DAT,S5,R5,S10,R10,S20,R20.

S5 - 5 kHz measurement status (0/1/-1).
R5 - 5 kHz measurement in kHz (10.0 ±10%).
S10 - 10 kHz measurement status (0/1/-1).
R10 - 10 kHz measurement kHz (50 to 90% of R5).
S20 - 20 kHz measurement status (0/1/-1).
R20 - 20 kHz measurement kHz (≤10% of R5).

TEST:BPASs?
Returns Band-Pass (CWT) Filter self test status. Returns STD-DAT,S1,R1,S2,R2,S3,R3, S4,R4,S5,R5,S6,R6.

S1 - 300 Hz measurement status (0/1/-1).
R1 - 300 Hz measurement in kHz (<15% of R3).
S2 - 450 Hz measurement status (0/1/-1).
R2 - 450 Hz measurement in kHz (10 to 50% of R3).
S3 - 1 kHz measurement status (0/1/-1).
R3 - 1 kHz measurement (BASELINE).
S4 - 2 kHz measurement status (0/1/-1).
R4 - 2 kHz measurement.
S5 - 4.2 kHz measurement status (0/1/-1).
R5 - 4.2 kHz measurement in kHz (≤30% of R3).
S6 - 4.9 kHz measurement status (0/1/-1).
R6 - 4.9 kHz measurement in kHz (≤10% of R3).

TEST:HPASs?
Returns High-Pass Filter self test status. Returns STD-DAT,S10,R10,S3,R3,S15,R15.

S10 - 10 kHz measurement status (0/1/-1).
R10 - 10 kHz measurement in kHz (10.0 ±10%).
S3 - 3 kHz measurement status (0/1/-1).
R3 - 3 kHz measurement in kHz (50 to 90% of R10).
S15 - 15 kHz measurement status (0/1/-1).
R15 - 15 kHz measurement in kHz (≤10% of R10).

TEST:LOCK?
Returns Phaselock Loops self test status. Returns STD-DAT,RS,GS,AS.

RS - Receiver lock status (0/1/-1).
GS - Generator lock status (0/1/-1).
AS - Analyzer lock status (0/1/-1).

TEST:POWer?
Returns Power Meter self test status. Returns STD-DAT,S1.

S1 - 10 MHz measurement (2.0 to 20.0).

TEST:LEVel?
Returns Analyzer Level self test status. Returns STD-DAT,S1,P1,B1,L1,R1,S2,P2,B2,L2, R2,S3,P3,B3,L3,R3,S4,P4,B4,L4,R4.

S1 - 10 MHz level test status (0/1/-1).
P1 - 10 MHz baseline position (≥127).
B1 - 10 MHz baseline value in dB.
L1 - 10 MHz 1 division to left of baseline in dB (<B1 to 30).
R1 - 10 MHz 1 division to right of baseline in dB (<B1 to 30).
S2 - 64 MHz level test status (0/1/-1).
P2 - 64 MHz baseline position (≥127).
B2 - 64 MHz baseline value in dB.
L2 - 64 MHz 1 division to left of baseline in dB (<B2 to 30).
R2 - 64 MHz 1 division to right of baseline in dB (<B2 to 30).
S3 - 577.9999 MHz level test status (0/1/-1).
P3 - 577.9999 MHz baseline position (≥127).
B3 - 577.9999 MHz baseline value in dB.
L3 - 577.9999 MHz 1 division to left of baseline in dB (<B3 to 30).
R3 - 577.9999 MHz 1 division to right of baseline in dB (<B3 to 30).
S4 - 918.0125 MHz level test status (0/1/-1).
P4 - 918.0125 MHz baseline position (≥127).
B4 - 918.0125 MHz baseline value in dB.
L4 - 918.0125 MHz 1 division to left of baseline in dB (<B4 to 30).
R4 - 918.0125 MHz 1 division to right of baseline in dB (<B4 to 30).

TEST:AMMOD?
Returns AM Modulation self test status. Returns STD-DAT,SR,SP,DS,MS,MD.

SR - Scope Reference level in dB.
SP - Second Peak level in dB (17 ±3 from SR).
DS - Difference Status (0/1/-1).
MS - Modulation Status (0/1/-1).
MD - Modulation Reading in % (30.0 ±6.0).

TEST:SYNTH?
Returns Synthesizer Response self test status. Returns STD-DAT,SC,DS,RHS,RHL,RLS, RLL,GHS,GHL,GLS,GLL.

SC - Scope Center level (0 to 255).
DS - Digitizer check status (0/1/-1).
RHS - Receiver highest level status (0/0/-1).
RHL - Receiver highest level (≤SC + 25).
RLS - Receiver lowest level status (0/1/-1).
RLL - Receiver lowest level (≥SC - 25).
GHS - Generator highest level status (0/0/-1).
GHL - Generator highest level (≤SC + 25).
GLS - Generator lowest level status (0/1/-1).
GLL - Generator lowest level (≥SC - 25).

TEST:RF?
Returns RF Counter self test status. Returns STD-DAT,RC.

RC - RF Error measurement in Hz (0.0 ±30.0)

TEST:FMDEV?
Returns FM Deviation self test status. Returns STD-DAT,PR,MR,DR.

PR - Plus Deviation Reading.
MR - Minus Deviation Reading.
DR - Calculated Deviation in Hz (5.0 ±1.0)

TEST:DISP?
Returns Analyzer Dispersion self test status. Returns STD-DAT,CS,CP,P1,P5,DS,MS.

CS - Center Test status (0/1/-1).
CP - Center Point position (0 to 400).
P1 - Point 1 position (0 to 400).
P5 - Point 5 position (0 to 400).
DS - Dispersion status (0/1/-1).
MS - Multiple (5) Peak status (0/1/-1).

TEST:RSELect?
Returns Receiver Selectivity self test status. Returns STD-DAT,S1,NR1,CL1,CR1,CS1, L10,R10,S10,L40,R40,S40,S2,NR2,CL2,CR2,CS2,L100,R100,S100,L400,R400,S400.

S1 - FM1 Test status (0/1/-1).
NR1 - Noise Signal Reading.
CL1 - Center level in dBm (-127.0 to 0).
CR1 - Center Signal Reading.
CS1 - Center Level status (0/1/-1).
L10 - 10 kHz Offset level in dBm (CL1 ±3.0).
R10 - 10 kHz Signal Reading.
S10 - 10 kHz Offset Level status (0/1/-1).
L40 - 40 kHz Offset level in dBm (<CL1 - 3.0).
R40 - 40 kHz Signal Reading.
S40 - 40 kHz Offset Level status (0/1/-1).
S2 - FM3 Test status (0/1/-1).
NR2 - Noise Signal Reading.
CL2 - Center level in dBm (-127.0 to 0).
CR2 - Center Signal Reading.
CS2 - Center Level status (0/1/-1).
L100 - 100 kHz Offset level in dBm (CL2 ±3.0).
R100 - 100 kHz Signal Reading.
S100 - 100 kHz Offset Level status (0/1/-1).
L400 - 400 kHz Offset level in dBm (<CL2 - 3.0).
R400 - 400 kHz Signal Reading.
S400 - 400 kHz Offset Level status (0/1/-1).

TEST:AUX?
Returns Special Test Self Test status. Returns STD-DAT,S1,S2,S3,S4,S5,S6,S7,S8.

S1 - SCSI Bus status (0/1/-1).
S2 - Time of Day Clock status (0/1/-1).
S3 - Wait-State Generator status (0/1/-1).
S4 - CPU ROM Test status (0/1/-1).
S5 - Memory Board ROM Test status (0/1/-1).
S6 - CPU RAM Test status (0/1/-1).
S7 - Memory Board RAM Test status (0/1/-1).
S8 - UUT Board Test status (0/1/-1).

TEST:BATTery?
Returns 0 if bad NV-RAM battery or 1 if good.

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APPENDIX F – LAYER 3 TMAC COMMANDS

F-1 INTRODUCTION

Appendix F contains the new commands associated with the raw Layer 3 transmit and receive capabilities for the IFR-1900 CSA. Appendix F also contains information on the new GPIB commands and register additions pertaining to ANSI-136 event status reporting.

F-2 NEW BCCH TRANSMIT COMMANDS

CSS:FBCCH:L3:LENGTH *m,n*
or
CSS:EBCCH:L3:LENGTH *m,n*
Sets the length of the layer 3 messages. There can be up to 16 layer 3 messages. Each message is 1 to 255 octets in length. The command sets the length *n* from 0 to 255 (number of octets) for the selected layer 3 message from 0 to 15, indicated by the message number parameter *m*. A length setting of 0 prevents the indicated message from transmitting. To disable all raw layer 3 messages, set the length of each to 0.

CSS:FBCCH:L3:LENGTH? *m*
or
CSS:EBCCH:L3:LENGTH? *m*
Returns the programmed length value for the message selected by the message number parameter *m*.

CSS:FBCCH:L3:DATA *m,i,pd*[,*pd*[,...,*pd*]]
or
CSS:EBCCH:L3:DATA *m,i,pd*[,*pd*[,...,*pd*]]
Programs the FBCCH or EBCCH raw layer 3 data for up to 16 messages. The message number parameter *m* selects the message being programmed (0-15). The message length can be up to 255 octets long. The IFR-1900 requires multiple commands to program that amount of data. Therefore the current command starts programming data into the location (starting octet) indicated by the index parameter *i* (0-255). The program data parameter *pd* can either be an octet value (0-255) or a string (up to 128 characters). A string is interpreted as hexadecimal values (0-9, A-F or a-f). More than one octet value or string can be included in one command.

Exceeding the maximum 255 with the program data plus the index generates error number -222. String data with an illegal hexadecimal ASCII character generates error -141.

Examples:
css:fbcch:l3:data 0,0,"15AD8EA09FE3"
css:fbcch:l3:data 0,0,#h15,#had,#h8e,#ha0,#h9f,#he3

Both commands program the first six octets of message 0 of the FBCCH.

CSS:FBCCH:L3:DATA? *m,i,n*
or
CSS:EBCCH:L3:DATA? *m,i,n*
Returns the programmed data for the selected message *m* (0-15), starting at the octet indicated by index *i* (0-255). The length parameter *n* (0-64) determines the number of data octets returned.

Settings where the length *n* plus the index *i* exceeds 255 generate error number -222.

F-3 NEW SPACH TRANSMIT COMMANDS

CSS:SPACH:L3:LENGTH *m,n*
Sets the length of the layer 3 messages. There can be up to four layer 3 SPACH messages sent in one layer 2 message. The command sets the length *n* from 0 to 255 (number of octets) for the selected layer 3 message from 0 to 3, indicated by the message number parameter *m*. A length setting of 0 prevents the indicated message from transmitting.

CSS:SPACH:L3:LENGTH? *m*
Returns the programmed length value for the message selected by the message number parameter *m*.

CSS:SPACH:L3:DATA *m,i,pd*[,*pd*[,...,*pd*]]
Programs the SPACH raw layer 3 data for up to four messages. The message number parameter *m* selects the message being programmed (0-3). The message length can be up to 255 octets long. The IFR-1900 requires multiple commands to program that amount of data. Therefore the current command starts programming data into the location (starting octet) indicated by the index parameter *i* (0-255). The program data parameter *pd* can either be an octet value (0-255) or a string (up to 128 characters). A string is interpreted as hexadecimal values (0-9, A-F or a-f). More than one octet value or string can be included in one command.

Exceeding the maximum 255 with the program data plus the index generates error number -222. String data with an illegal hexadecimal ASCII character generates error -141.

CSS:SPACH:L3:DATA? *m,i,n*
Returns the programmed data for the selected message *m* (0-3), starting at the octet indicated by index *i* (0-255). The length parameter *n* (0-64) determines the number of data octets returned.

Settings where the length *n* plus the index *i* exceeds 255 generate error number -222.

CSS:SPACH:MSGtype*n*:RAW
Specifies the message type *n* (1 to 4) as RAW. The message type must be specified as RAW for the programmed layer 3 message to be built into the transmitted message. The RAW messages may be mixed with other layer 3 message types.

F-4 NEW FDTC TRANSMIT COMMANDS

CSS:FDTC:FACCH:L3:LENGTH *n*
or
CSS:FDTC:SACCH:L3:LENGTH *n*
Sets the length of the layer 3 message. The message is 1 to 255 octets in length. The command sets the length *n* from 0 to 255 (number of octets). A length setting of 0 prevents the message from transmitting.

CSS:FDTC:FACCH:L3:LENGTH?
or
CSS:FDTC:SACCH:L3:LENGTH?
Returns the programmed length value.

CSS:FDTC:FACCH:L3:DATA *i,pd*[,*pd*[,...,*pd*]]
or
CSS:FDTC:SACCH:L3:DATA *i,pd*[,*pd*[,...,*pd*]]
Programs the FDTC FACCH or SACCH raw layer 3 data. The length of a message can be up to 255 octets long. The IFR-1900 requires multiple commands to program that amount of data. Therefore the current command starts programming data into the location (starting octet) indicated by the index parameter *i* (0-255). The program data parameter *pd* can either be an octet value (0-255) or a string (up to 128 characters). A string is interpreted as hexadecimal values (0-9, A-F or a-f). More than one octet value or string can be included in one command.

Exceeding the maximum 255 with the program data plus the index generates error number -222. String data with an illegal hexadecimal ASCII character generates error -141.

CSS:FDTC:FACCH:L3:DATA? *i,n*
or
CSS:FDTC:SACCH:L3:DATA? *i,n*
Returns the programmed data starting at the octet indicated by index *i* (0-255). The length parameter *n* (0-64) determines the number of data octets returned.

Settings where the length *n* plus the index *i* exceeds 255 generate error number -222.

CSS:FDTC:FACCH:L3:SEND
or
CSS:FDTC:SACCH:L3:SEND
Sends the FDTC FACCH or SACCH layer 3 message.

F-5 NEW RDCCH RECEIVE COMMANDS

RDCCH:L3:LENGTH?
Returns the length of the layer 3 data that was last decoded or –1 if already read or not available.

RDCCH:L3:DATA? *i,n*
Returns the layer 3 data that was last received. The length parameter *n* determines the maximum number of octets (0-64) to return. The index parameter *i* indicates the offset into the receive buffer in octets (0-255).

F-6 NEW RDTC RECEIVE COMMANDS

RDTC:FACCH:L3:LENGTH?
or
RDTC:SACCH:L3:LENGTH?
Returns the length of the layer 3 data that was last decoded or –1 if already read or not available.

RDTC:FACCH:L3:DATA? *i,n*
or
RDTC:SACCH:L3:DATA? *i,n*

Returns the layer 3 data that was last received. The length parameter *n* indicates the maximum number of octets (0-64) to return. The index parameter *i* indicates the offset into the receive data in octets (0-255). The data returned starts at the selected offset.

Examples:
rdtc:facch:l3:data? 0,64
rdtc:facch:l3:data? 64,28

These two commands return the first 92 octets of data.

F-7 USING THE NEW LAYER 3 TMAC

The new TMAC commands are used for transmitting and receiving user generated layer 3 raw data. These commands used with the existing TMAC commands give the user flexibility to build Broadcast Channel and SPACH messages by using the IFR-1900 CSA layer 3 message building or that defined by the user. All existing TMAC commands work as before.

To build a broadcast channel with the layer 3 data only, disable all message types (i.e. **css:fbcch:msgtype:struct 0**).

All layer 1, layer 2 and structure information must still be programmed.

F-8 STATUS MECHANISM

The layout for the Status Mechanism, required for new System Operational Status reporting, is as follows:

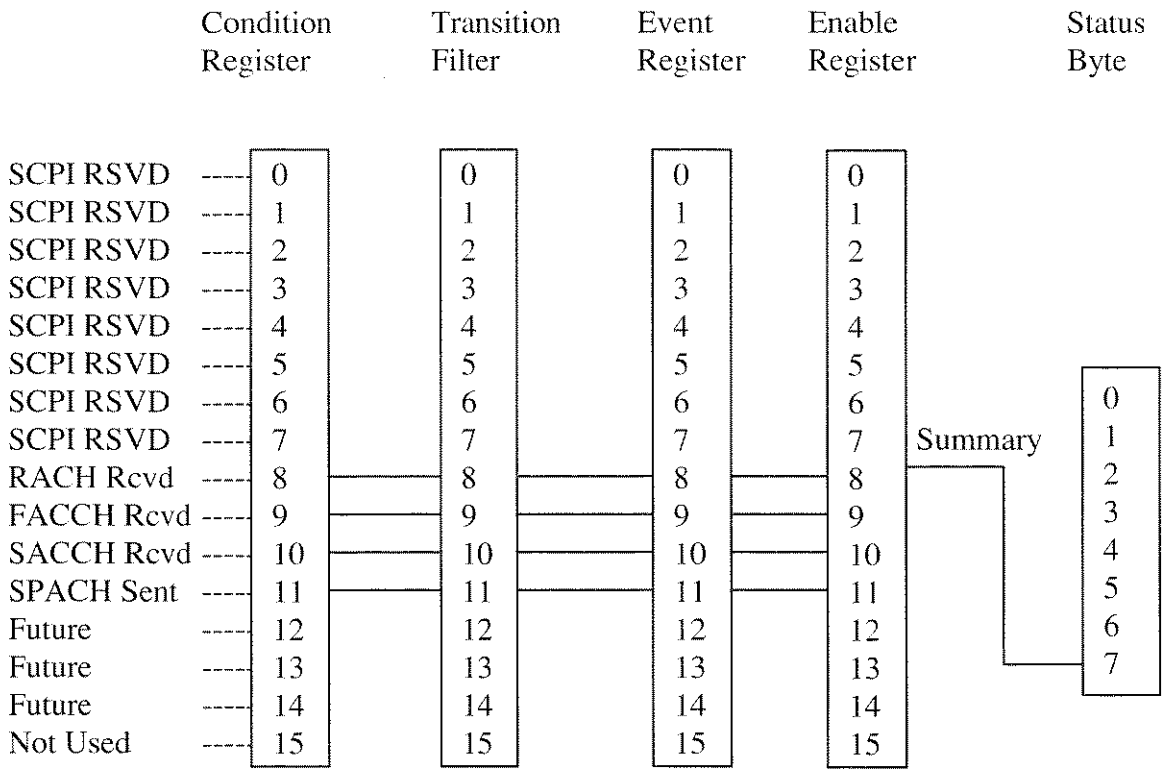

Figure F-1 IFR-1900 CSA Status Mechanism

F-9 NEW SYSTEM STATUS AND GPIB COMMANDS

STATus:

OPERation:

CONDition *n*
[STATus:OPERation:CONDition n]
Sets bits on the Operation Condition Register to simulate hardware stimulus or some programmatic event. Numeric expression *n* ranges in value from 0 through 32767.

CONDition?
[STATus:OPERation:CONDition?]
Returns the contents (value) of the condition register associated with the operational status structure. Reading the condition register is nondestructive.

EVENt?
[STATus:OPERation:EVENt?]
Returns the contents (value) of the event register associated with the operational status structure. Reading the event register clears it.

ENABle *n*
[STATus:OPERation:ENABle n]
Sets the enable mask, allowing the true condition in the event register to be reported to the Status Byte. If a bit is a 1 in the enable register and the associated event bit transition is true, a positive transition occurs for bit 7 of the Status Byte. Numeric expression *n* ranges in value from 0 through 65535.

ENABle?
[STATus:OPERation:ENABle?]
Returns the setting of the Operational Status Enable Register.

PTRansition *n*
[STATus:OPERation:PTRansition n]
Sets the positive transition filter. Setting a bit in the positive transition filter causes a 0 to 1 transition in the corresponding bit of the Operation Condition register to cause a 1 to be written in the associated bit of the corresponding event register. Numeric expression *n* ranges in value from 0 through 65535.

PTRansition?
[STATus:OPERation:PTRansition?]
Returns the setting for the Operation Status positive transition filter.

NTRansition *n*
[STATus:OPERation:NTRansition n]
Sets the negative transition filter. Setting a bit in the positive transition filter causes a 1 to 0 transition in the corresponding bit of the Operation Condition register to cause a 1 to be written in the associated bit of the corresponding event register. Numeric expression *n* ranges in value from 0 through 65535.

NTRansition?
[STATus:OPERation:NTRansition?]
Returns the setting for the Operation Status negative transition filter.

STATus:

PRESet:
[STATus:PRESet]
Configures the SCPI status data structures. The PRESet command affects the enable register, the transition filter registers and queue enabling. PRESet clears the **OPERation:ENABle** register, sets the **OPERation:PTRansition** register to ones and the **OPERation:NTRansition** register to zeros.

> **PRESet** does NOT affect the "status byte," "standard event status," any of the event registers or items from the error queue. Use the ***CLS** command to clear the event registers and queues in the device reporting mechanism.

F-10 IFR-1900 CSA SPECIAL GPIB CONSIDERATIONS

The IFR-1900 CSA GPIB is a subset of the GPIB found on the IFR-1900 Communications Service Monitor. The IFR-1900 CSA operates only as a GPIB Talker/Listener device. The major difference between the IFR-1900 Communications Service Monitor and the IFR-1900 CSA is the CSA Status Subsystem contains only the Status Byte Register (**STB**), Standard Event Register (**ESR**) and Operation Status Register with status commands and queries pertaining to those registers.

F-10-1 CSA SPECIFIC GPIB COMMANDS

The following commands are used when operating the IFR-1900 CSA on the GPIB:

GPIB:ADDRess *a*
Sets the CSA Talker/Listener address to the value *a* (0-31).

GPIB:MASK *m*
Sets the SRQ interrupt mask or Service or Request Enable Register value.

***SRE** *m*
Operates the same as **GPIB:MASK** for Version 4.1A on.

***SRE?**
Returns the ***SRE** mask setting.

GPIB:SRQ *s*
Sets a user defined Status Byte value *s* (0-255). The GPIB:SRQ command is used in macros to signal the GPIB host of a user defined event.

GPIB:RESET
Resets the CSA GPIB interface.

***STB?**
Returns the value of the Status Byte register.

***ESR?**
Returns the value of the Standard Event Register.

***ESE** *m*
Sets Standard Event Status Enable Register mask.

***ESE?**
Returns the Standard Event Enable Register mask.

F-10-2 CSA STATUS BYTE REGISTER (STB)

The Status Byte, used to activate an RQ interrupt, reports an event occurrence. A Status Byte bit determines an SRQ and RQS, if the corresponding Service Request enable register bit is set. Bits 0 through 5 and bit 7 of the Status Byte and Service Request Enable Registers undergo a bitwise AND operation. The result sets bit 6, the RQS bit, of the Status Byte. Setting the RQS bit to 1 generates an SRQ signal to the GPIB host.

Use the ***STB?**, ***SRE** and ***SRE?** commands or queries to access the SRE and STB registers.

The CSA Status Byte is defined as follows:

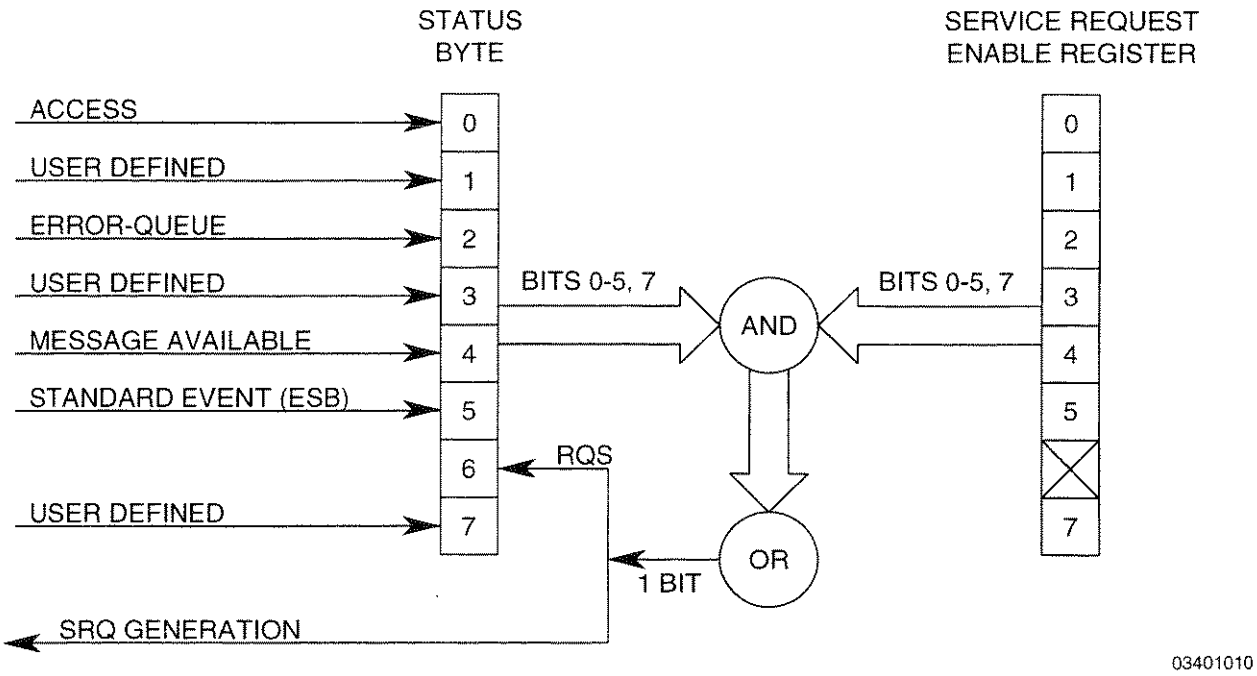

Figure F-2 IFR-1900 CSA Status Byte and SRQ Enable Register

The Access bit is set whenever a mobile phone accesses the CSA and the CSA flips the BUSY/IDLE bit to BUSY.

The Error Queue bit is set whenever the CSA GPIB ERROR QUEUE contains one or more error messages as a result of a user or device generated error.

The Message Available or MAV bit is set whenever the CSA GPIB output QUEUE contains one or more characters as a result of a GPIB host query command.

The remaining User Defined Bytes are set by the **GPIB:SRQ** command by a user direct or programmed occurrence. The Standard Event Summary from the Events Status Register sets the ESB bit 5 (see F-10-3). A Service Request Condition sets the RQS bit 6. The Operational Register Summary from the System Operational Status reporting registers sets the Operation Status bit 7 (see F-8).

F-10-3 CSA EVENTS STATUS REGISTER

The Events Status Register provides more detailed status of the standard event bit (ESB) found in the STB. The model for this register is as follows:

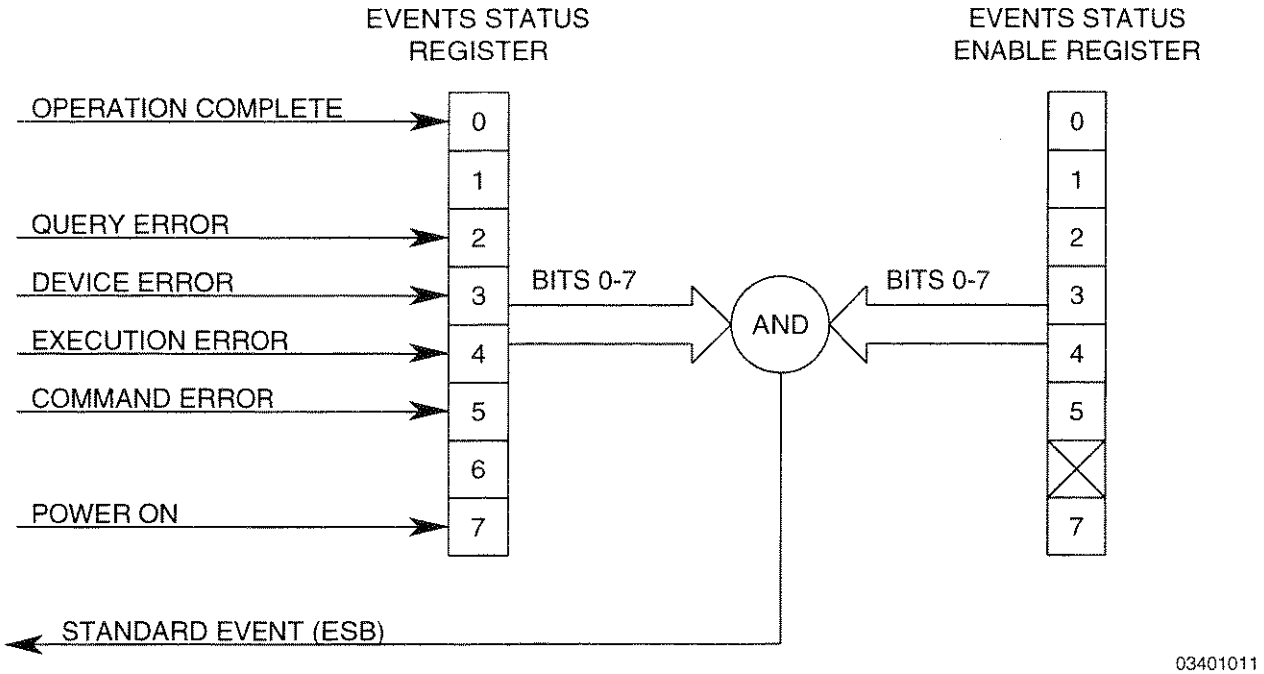

Figure F-3 IFR-1900 CSA Events Status Register

The Operation Complete (OPC) bit 0 does not get set unless previously setup with the ***OPC** command as follows, according to the IEEE standard:

- The ***OPC** command allows synchronization between a **controller** and several **devices**. The OPC event bit in the Events Status Register (ESR) is used to effect the synchronization.

  The **device** shall exit the Operation Complete Idle State (OCIS) and enter the Operation Complete Active State (OCAS) when the ***OPC** command is executed.

  In the OCAS, the device continuously senses the No-Operation-Pending flag. When sensing the No-Operation-Pending flag as TRUE, the **device** shall set the OPC event bit in the ESR, exit OCAS and enter the OCIS.

- The application programmer may enable bit 0 (corresponding to the OPC event bit) in the ESR and also bit 5 (corresponding to the ESB summary message) in the Service Request Enable Register so the **device** requests service whenever the OPC event bit becomes TRUE.

Reporting an error number from –400 to –499 sets the Query Error bit 2.

Reporting an error number from –300 to –399 sets the Device Error bit 3.

Reporting an error number from –200 to –299 sets the Execution Error bit 4.

Reporting an error number from –100 to –199 sets the Command Error bit 5.

Initial power on sets the Power On (PON) bit 7.

Use the ***ESR?**, ***ESE** *m*, and ***ESE?** commands to access the ESR and ESE registers.

APPENDIX D - SCREEN CHARACTERS

Table D-1 lists all the possible screen characters that are resident with the HOST. The below characters may be displayed using the following TMAC command: `print chr (code)`.

CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE
M	20	/	47	J	74	e	101
T	21	0	48	K	75	f	102
0	22	1	49	L	76	g	103
1	23	2	50	M	77	h	104
2	24	3	51	N	78	i	105
3	25	4	52	O	79	j	106
4	26	5	53	P	80	k	107
5	27	6	54	Q	81	l	108
6	28	7	55	R	82	m	109
7	29	8	56	S	83	n	110
8	30	9	57	T	84	o	111
9	31	:	58	U	85	p	112
(space)	32	;	59	V	86	q	113
!	33	<	60	W	87	r	114
"	34	=	61	X	88	s	115
#	35	>	62	Y	89	t	116
$	36	?	63	Z	90	u	117
%	37	@	64	[	91	v	118
&	38	A	65	\	92	w	119
'	39	B	66	]	93	x	120
(	40	C	67	^	94	y	121
)	41	D	68	_	95	z	122
*	42	E	69	'	96	{	123
+	43	F	70	a	97	Ω	124
,	44	G	71	b	98	}	125
-	45	H	72	c	99	Φ	126
.	46	I	73	d	100		

Table D-1 HOST Screen Characters

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APPENDIX E - ABBREVIATIONS

	A
A	Ampere
ac	Alternating Current
ACELP	Algebraic Codebook Excited Linear Predictive
AF	Audio Frequency
AGC	Automatic Gain Control
AM	Amplitude Modulation
AMPS	Advanced Mobile Phone Service
ANLZ	Analyzer
ANSI	American National Standards Institute
ANT	Antenna
ASCII	American National Standard Code for Information Interchange
	B
BFO	Beat Frequency Oscillator
BER	Bit Error Rate
bps	Bits per second
	C
CCH	Control Channel
ccw	Counterclockwise
cw	Clockwise
C Wt	C-Weight
	D
dB	Decibels
dBm	Decibels relative to 1 milliwatt
dc	Direct Current
DCS	Digital Coded Squelch
Demod Audio	Demodulated Audio
DMM	Digital Multimeter
DSAT	Digital Supervisory Audio Tone
DST	Digital Signalling Tone
DTMF	Dual Tone Multi-Frequency
	E
ESD	Electrostatic discharge
ESN	Electronic Serial Number
ETACS	Enhanced Total Access Communications System
Ext	External
EXT MOD	External Modulation
	F
FACCH	Fast Associated Control Channel
FDTC	Forward Digital Traffic Channel
FM	Frequency Modulation
FOCC	Forward Control Channel
Freq	Frequency
Func Gen	Function Generator
FVC	Forward Voice Channel

	G
Gen	Generator
GHz	Gigahertz
GND	Ground
GPIB	General Purpose Interface Bus
	H
Hz	Hertz
Hex	Hexadecimal
	I
Id	Identification
IEEE	Institute of Electrical and Electronic Engineers
IMTS	Improved Mobile Telephone Service
I/O	Input/Output
	K
kbps	kilobits per second
kHz	kilohertz
kΩ	kilo ohm
	L
LSB	Lower Sideband
Lvl	Level
	M
MHz	Megahertz
MIN	Mobile Identification Number
MOD	Modulation
MODL	Modulation Level
MΩ	Mega ohm
ms	Milliseconds
msg	message
MTS	Mobile Telephone Service
mV	Millivolts
mW	Milliwatts
	N
N/A	Not applicable
NAMPS	Narrow Band Advanced Mobile Phone Service
NVRAM	Non-Volatile Random Access Memory
	O
Opn	Operation
	P
PM	Phase Modulation
PWR	Power

R	
RAM	Random Access Memory
RBW	Resolution Bandwidth
RCI	Remote Command Interpreter
RCL	Recall
RCV	Receive
Rcvr	Receiver
RDTC	Reverse Digital Traffic Channel
RECC	Reverse Control Channel
Res	Resolution
RF	Radio Frequency
RF Pwr	RF Power
Rgtr	Register
RMS	Root Mean Square
RVC	Reverse Voice Channel
S	
SACCH	Slow Associated Control Channel
SAT	Supervisory Audio Tone
SCC	Supervisory Audio Tone Color Code
sec	Second
SIN	Sine
SQU	Square
SSB	Single Side Band
SSD	Shared Secret Data
Std	Standard
T	
TDMA	Time Division Multiple Access
TERM	Terminal
TRI	Triangle
Tx	Transmit
U	
USB	Upper Sideband
UUT	Unit Under Test
V	
V	Volt
VCHAN	Voice Channel
Vrms	Voltage Root Mean Square
VSELP	Vector Sum Excited Linear Prediction
W	
W	Watt
X	
Xmtr	Transmitter

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