

GPIB Command Syntax

for

E1960A GSM Mobile Test Application Revision A.08

E6701A GPRS Lab Application Revision A.01

E1964A GPRS Mobile Test Application Revision A.02

1000-1758 (to order use part number 5967-5193)



Agilent Technologies

Contents

Diagram Conventions	5
Description	5
ABORt Subsystem	6
AFGenerator	7
CALibration	7
CALL:ACTivated	8
CALL:ATTached	8
CALL:BA	8
CALL:BAND	10
CALL:BCCode	10
CALL:BCHannel	11
CALL:BURSt	12
CALL:CONNected	12
CALL:COUNT	13
CALL:DATA:PING	14
CALL:DCONNected	15
CALL:END	15
CALL:FUNction	16
CALL:HANDOver HANDoff	17
CALL:IMEI	17
CALL:LACode	17
CALL:MCCode	18
CALL:MNCCode	18
CALL:MS	19
CALL:NCCode	22
CALL:OPERating	22
CALL:ORIGinate	23
CALL:PAGing	23
CALL:PBPTest	23
CALL:PDTCH PDTChannel	24
CALL:PLOGging	26
CALL:PMNCode	27
CALL:POWer	28
CALL:RACode	28
CALL:RFGenerator	28
CALL:SETup	29
CALL:SIGNaling	31
CALL:STATus	31
CALL:TCHannel	32
CALL:TRANsferring	33
DISPlay	33
FETCh:AAUDio	34
FETCh:BERRor	36
FETCh:DAUDio	37
FETCh:DPOWer	38

FETCh:FBERror	39
FETCh:GBERror	39
FETCh:IQTuning	40
FETCh:ORFSpectrum	40
FETCh:PFERror	41
FETCh:PVTime	43
FETCh:TXPower	46
INITiate	47
READ	48
RFANalyzer	50
SETup:AAudio	52
SETup:BERRor	54
SETup:CONTinuous	55
SETup:DAudio	55
SETup:DPOWER	56
SETup:FBERror	57
SETup:GBERror	58
SETup:IQTuning	58
SETup:ORFSpectrum	61
SETup:PFERror	64
SETup:PVTime	66
SETup:TXPower	68
STATus:OPERation	70
STATus:PRESet	76
STATus:QUESTionable	76
Status Byte Register	82
Standard Event Status Register	83
SYSTEM:APPLication	83
SYSTEM:BEEPer	84
SYSTEM:CONFigure	84
SYSTEM:COMMunicate	85
SYSTEM:CORRection	85
SYSTEM:CURRent:TA	86
SYSTEM:DATE	87
SYSTEM:ERRor?	87
SYSTEM:FTRigger	87
SYSTEM:MEASurement	87
SYSTEM:PRESet	88
SYSTEM:ROSCillator	88
SYSTEM:SYNChronized	88
SYSTEM:TIME	88
SYSTEM:TZONE	89
SYSTEM:UTC	89
IEEE 488.2 Common Commands	89

Diagram Conventions

Description

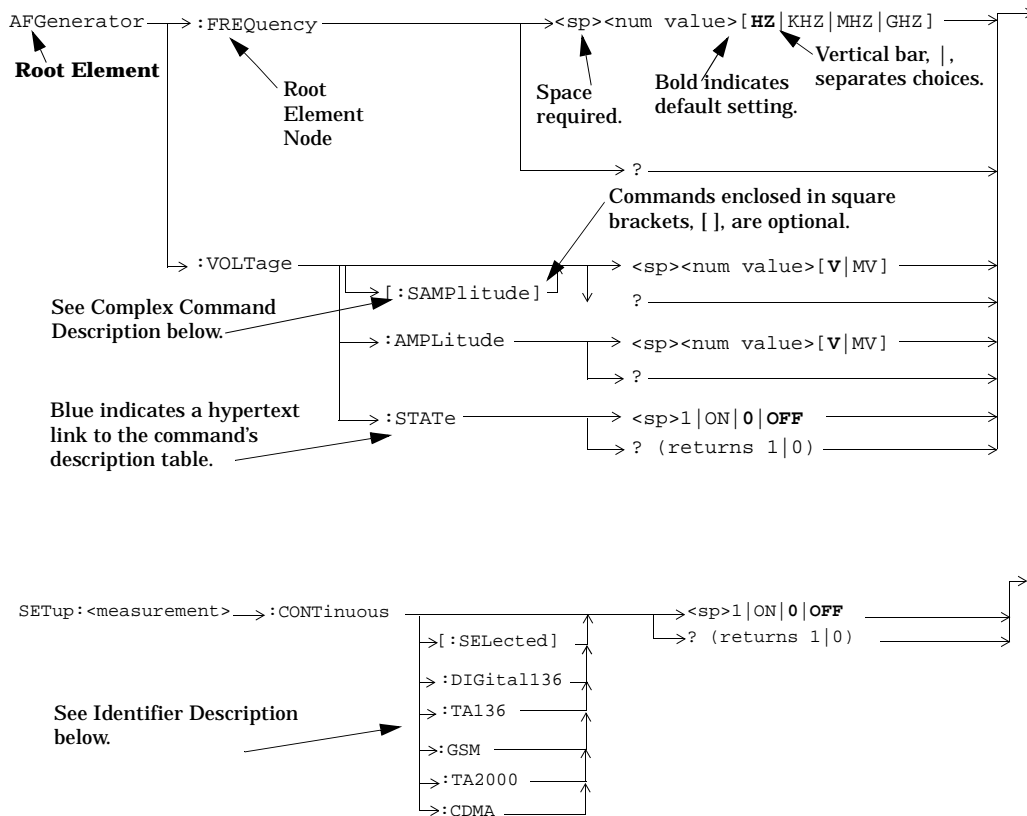


Diagram Description

Statement elements are connected by lines. Each line can be followed in only one direction, as indicated by the arrow at the end of the line. Any combination of statement elements that can be generated by starting at the **Root Element** and following the line the **direction of the arrow** is syntactically correct. The drawings show the proper use of spaces. Where spaces are required they are indicated by **<sp>**, otherwise no spaces are allowed between statement elements.

Diagram Conventions

Complex Command Description

A complex command sets the state of the parameter to ON, and is used to set a value for that parameter. These parameters; amplitude, frequency, gain, number, time, and value can be used as a complex command. Refer to the specific command for the parameter that applies.

Identifier Description

Some test applications are able to test more than one radio format. There may be commands/queries that are shared by more than one radio format in the some of these test applications. Identifiers are used to specify the radio format for the command/query. The command/query is sent to the active radio format if you don't use an identifier. An identifier must be used when sending commands to the inactive radio format.

Developing Code

It is recommended that you set the Test Set's operating environment to debug. To set the Test Set debug mode to "ON" use the following syntax:

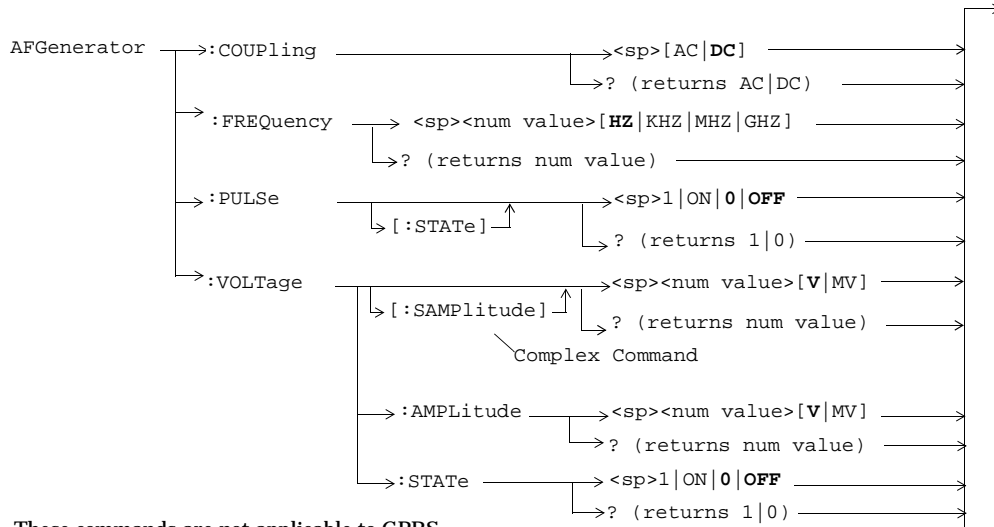
```
SYSTem:COMMunicate:GPiB:DEBUg ON
```

Units-of-Measure ABORt Subsystem

Amplitude (linear)	V
Frequency	Hz
Power (logarithmic)	dBm
Time	s

Syntax Diagram and Command Descriptions

AFGenerator



These commands are not applicable to GPRS.

CALibration

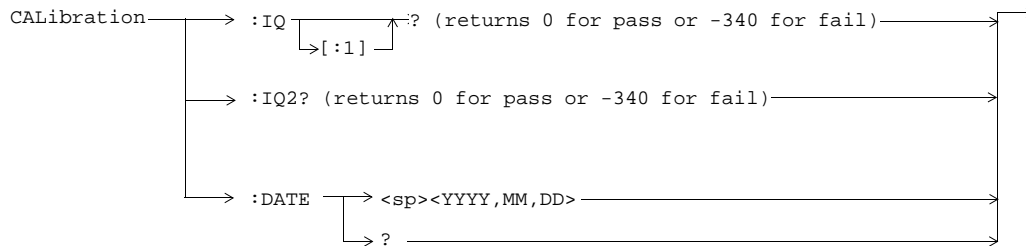
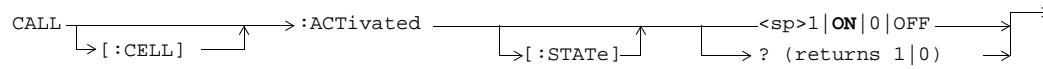


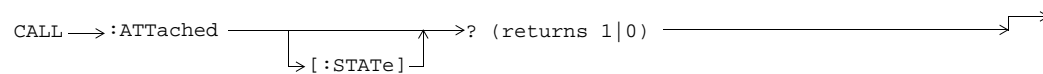
Diagram Conventions

CALL:ACTivated



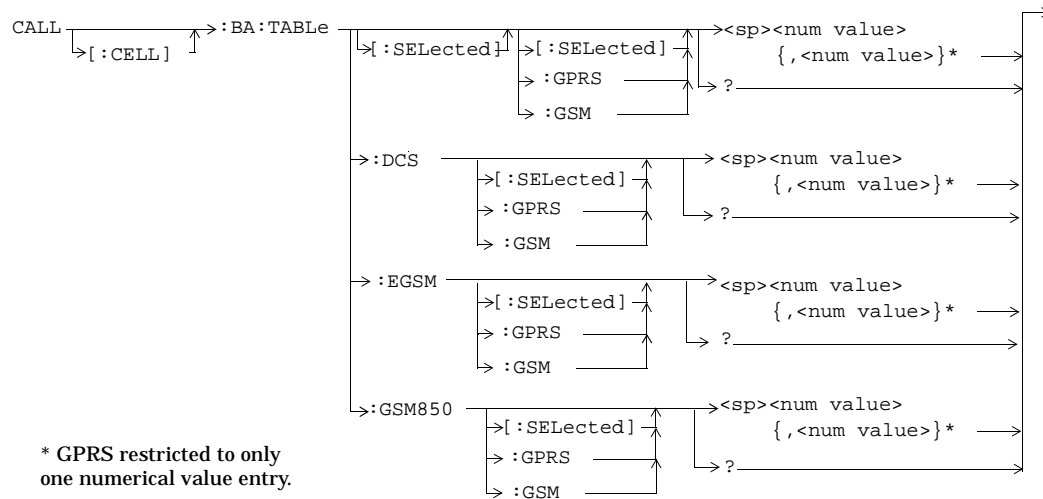
This command is not applicable to GPRS.

CALL:ATTached



This diagram is not applicable to GSM.

CALL:BA



* GPRS restricted to only one numerical value entry.

Diagram Conventions

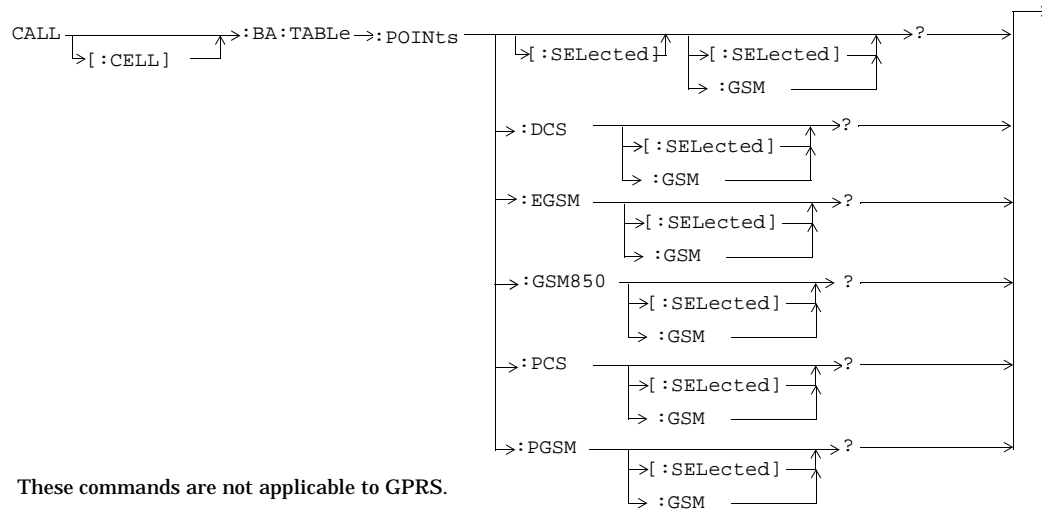
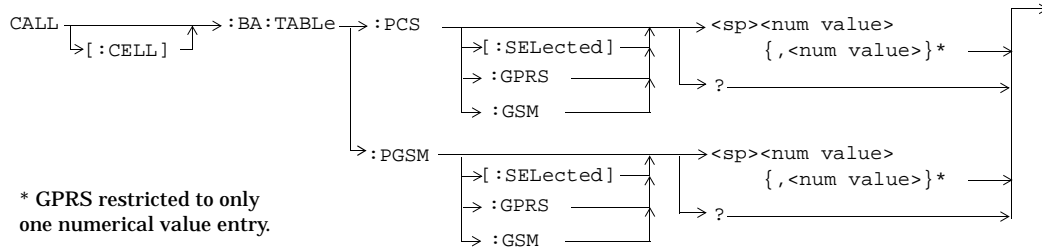
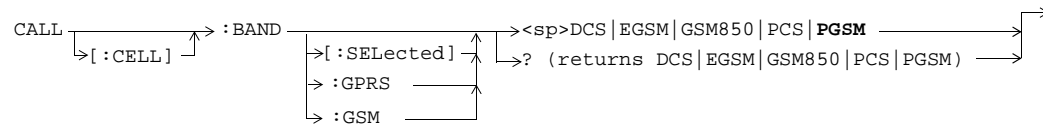
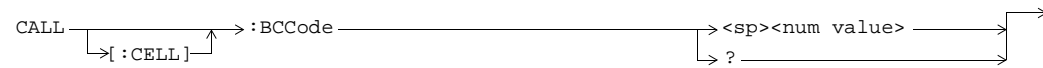


Diagram Conventions

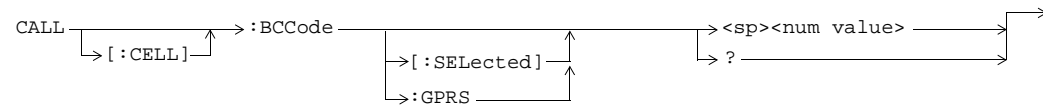
CALL:BAND



CALL:BCCode



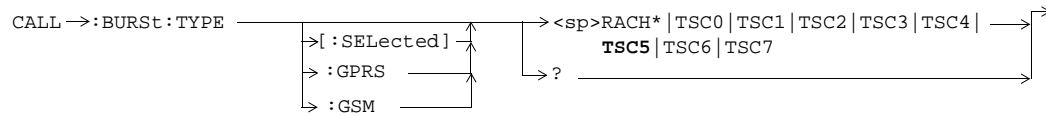
This command is not applicable to GPRS.



This command is applicable only to the GPRS *lab* application.

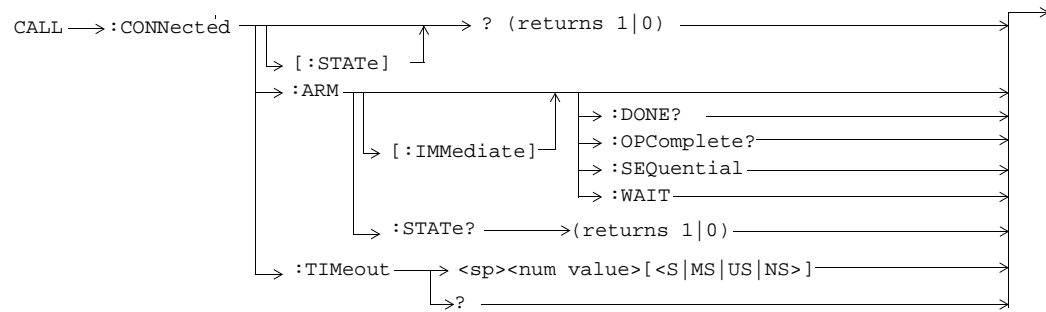
Diagram Conventions

CALL:BURSt



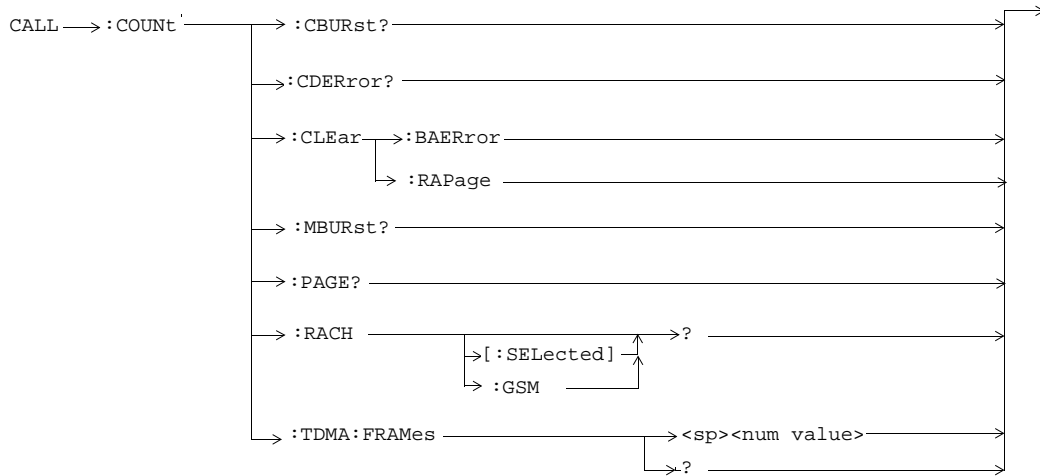
* Not applicable to GPRS.

CALL:CONNected

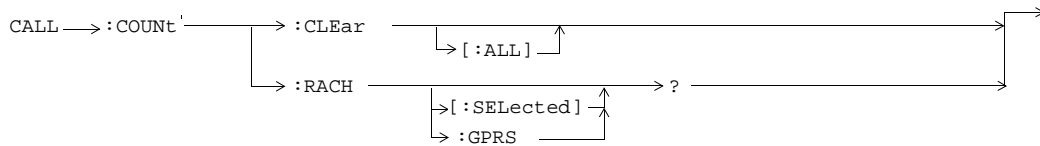


These commands are not applicable to GPRS.

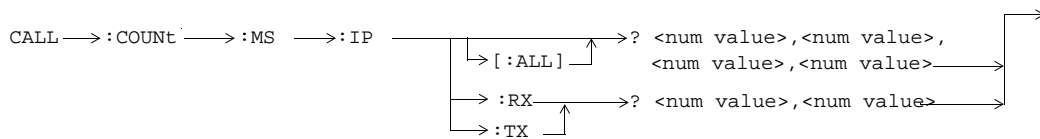
CALL:COUNT



These commands are not applicable to GPRS.



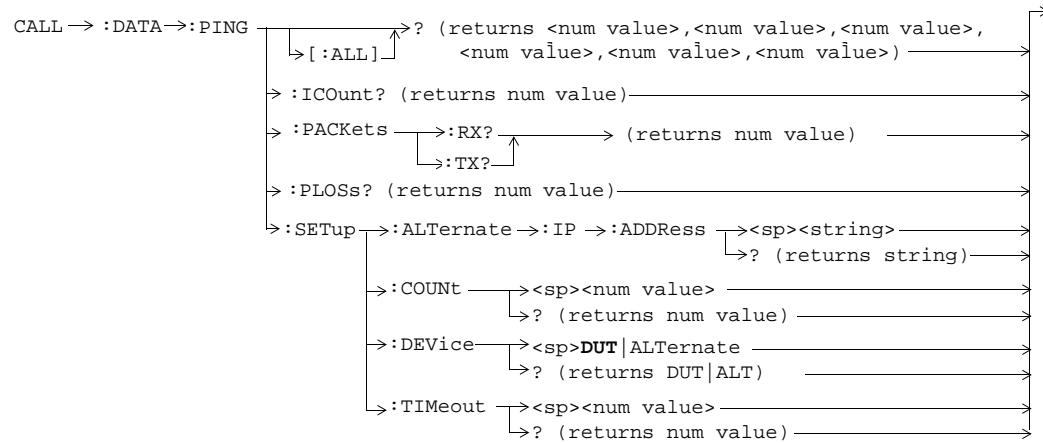
These commands are not applicable to GSM.



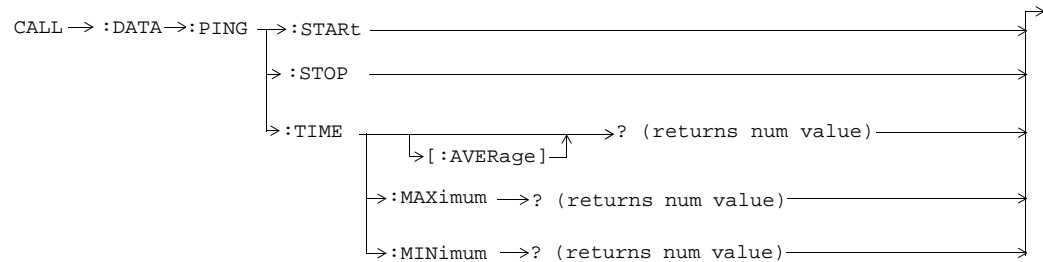
These commands are applicable only to the GPRS *lab* application.

Diagram Conventions

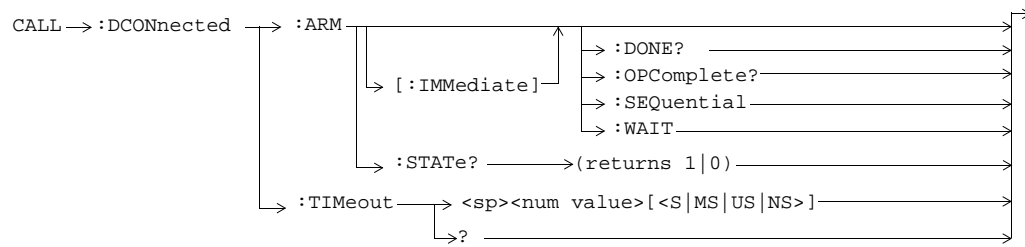
CALL:DATA:PING



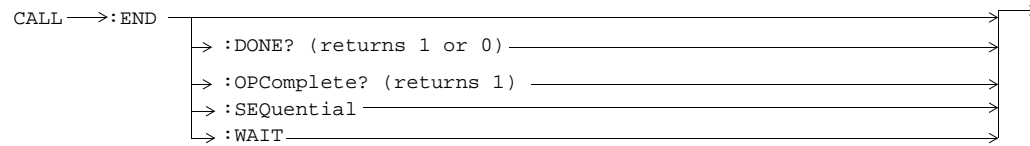
These commands are applicable only to the GPRS *lab* application.



These commands are applicable only to the GPRS *lab* application.

CALL:DCONnected

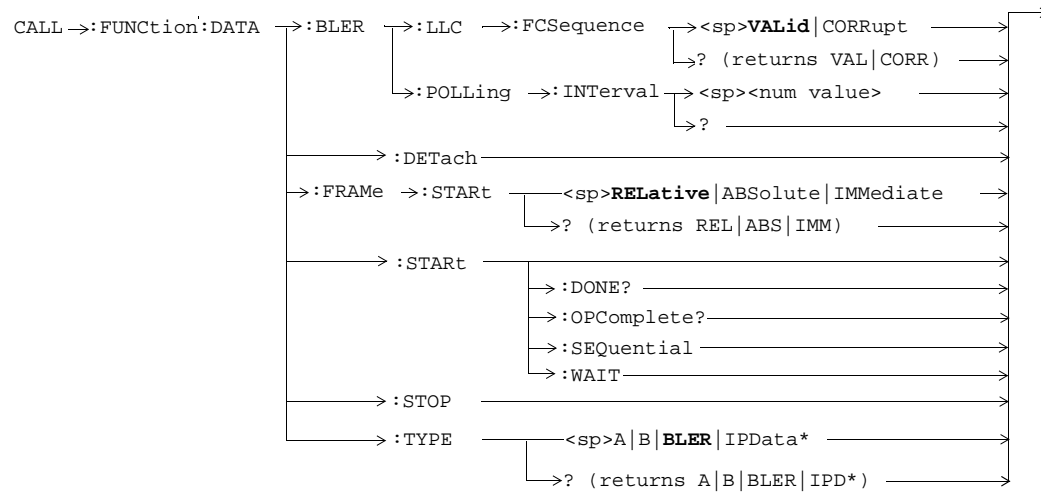
These commands are not applicable to GSM.

CALL:END

These commands are not applicable to GPRS.

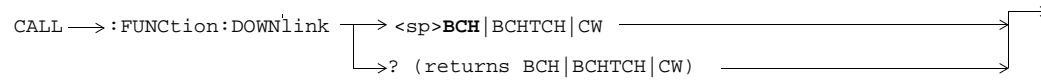
Diagram Conventions

CALL:FUNCTION



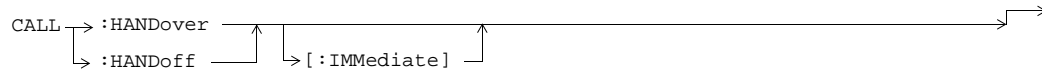
These commands are not applicable to GSM.

*This data type is applicable only to the GPRS *lab* application.



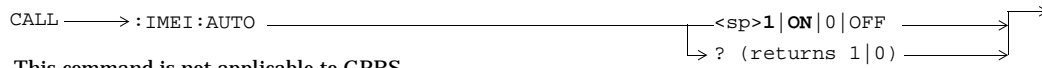
This command is not applicable to GPRS.

CALL:HANDoVer | HANDoFF



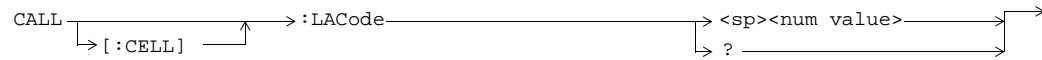
This command is not applicable to GSM.

CALL:IMEI

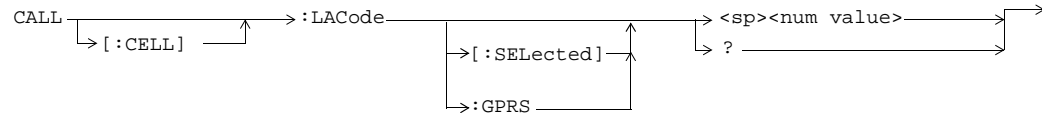


This command is not applicable to GPRS.

CALL:LACode



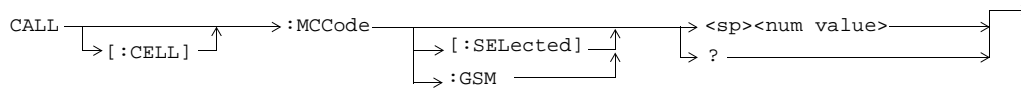
This command is not applicable to GPRS.



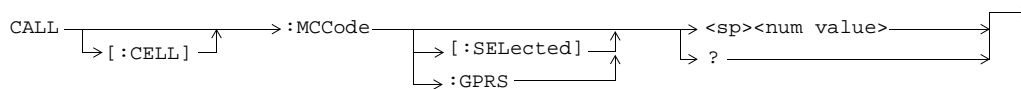
This command is applicable only to the GPRS *lab* application.

Diagram Conventions

CALL:MCCCode

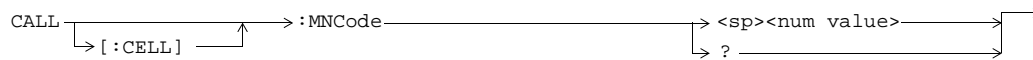


This command is not applicable to the GPRS.

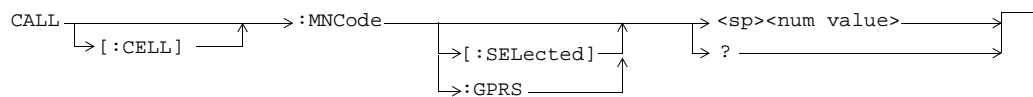


This command is applicable only to the GPRS *lab* application.

CALL:MNCode

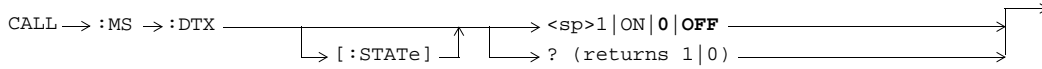


This command is not applicable to GPRS.

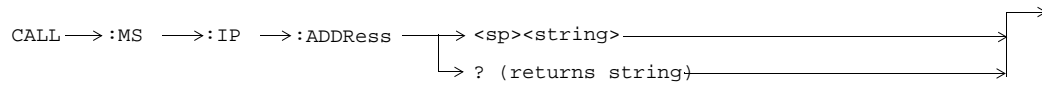


This command is applicable only to the GPRS *lab* application.

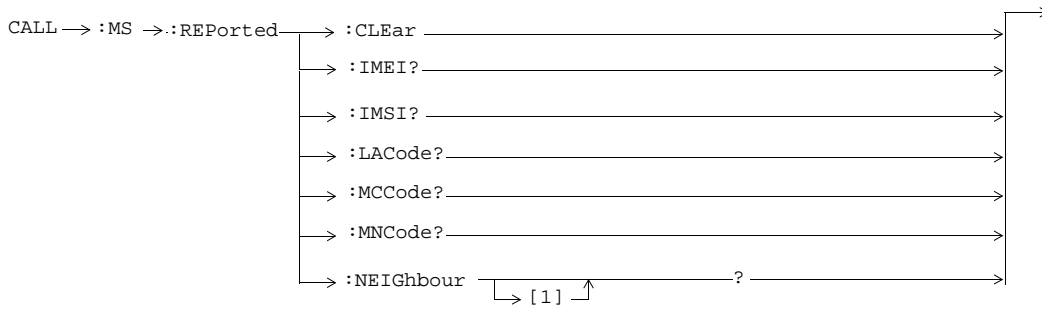
CALL:MS



This command is not applicable to GPRS.

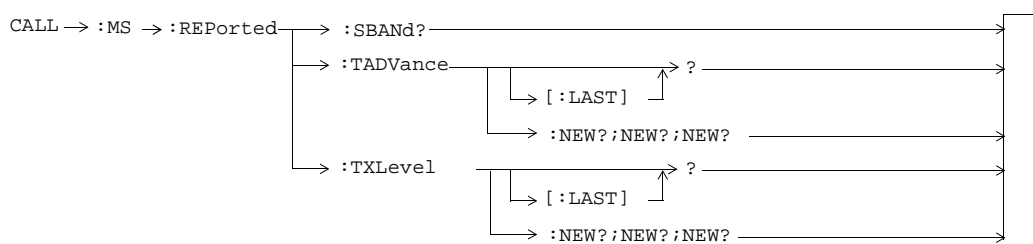
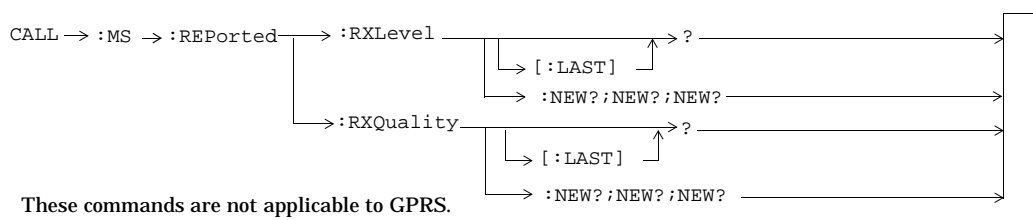
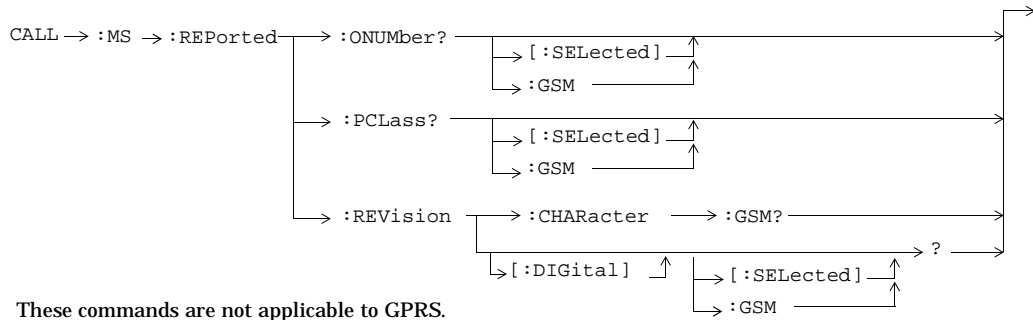


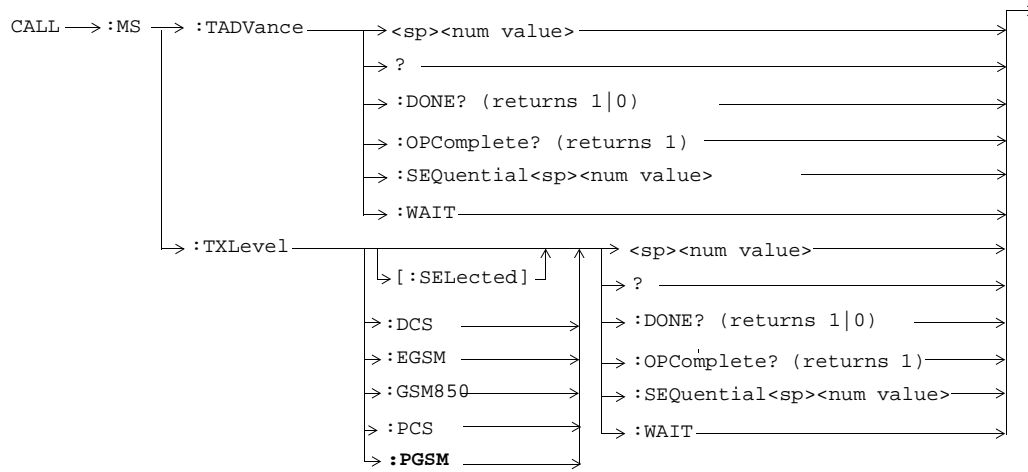
This command is applicable only to the GPRS *lab* application.



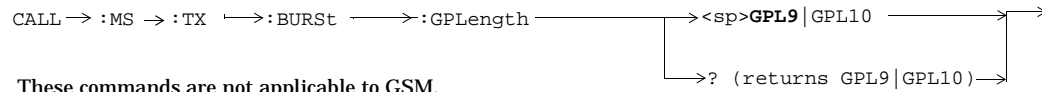
These commands are not applicable to GPRS.

Diagram Conventions





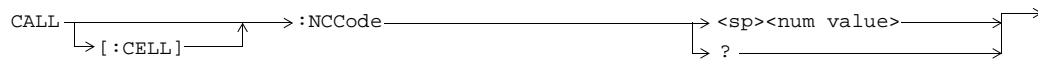
These commands are not applicable to GPRS.



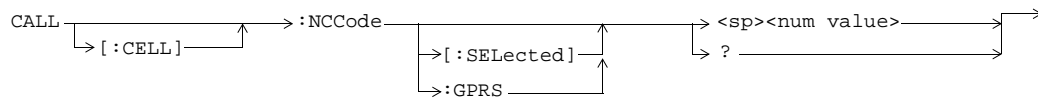
These commands are not applicable to GSM.

Diagram Conventions

CALL:NCCode

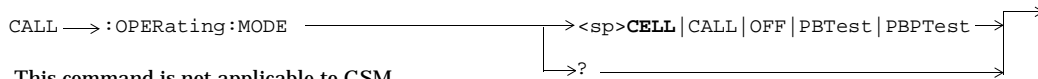


This command is not applicable to GPRS.

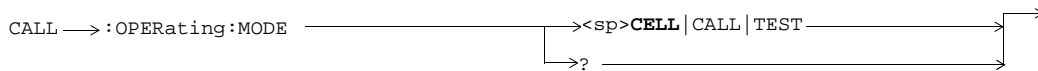


These commands are applicable only to the GPRS *lab* application.

CALL:OPERating

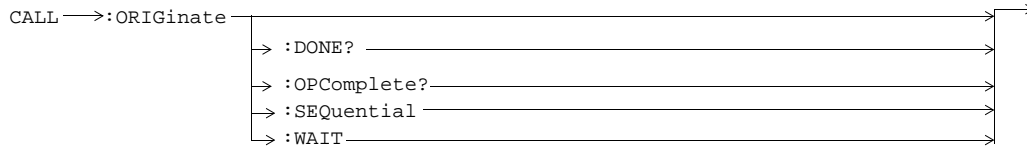


This command is not applicable to GSM.



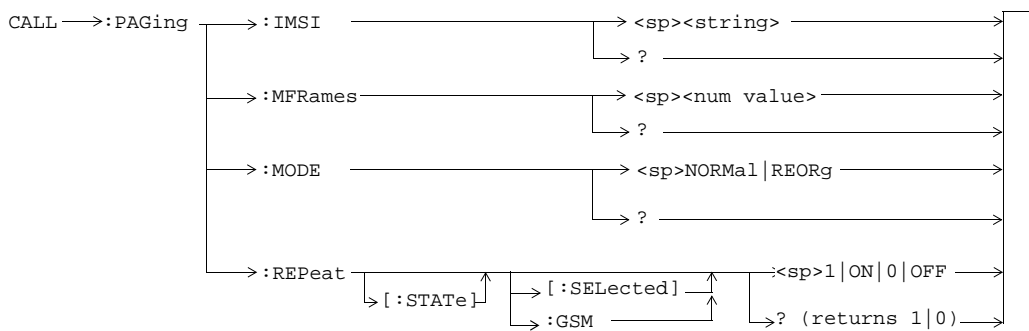
This command is not applicable to GPRS.

CALL:ORIGinate



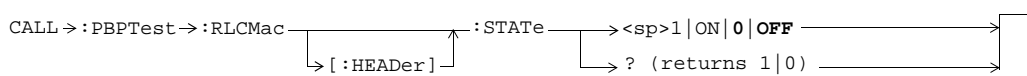
These commands are not applicable to GPRS.

CALL:PAGing



These commands are not applicable to GPRS.

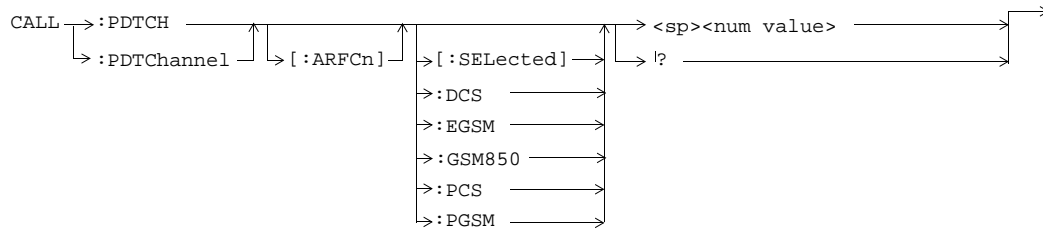
CALL:PBPTest



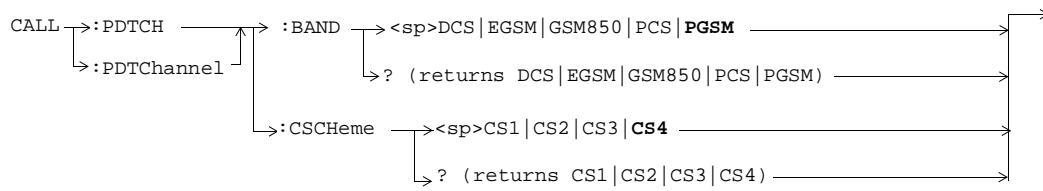
This command is not applicable to GSM.

Diagram Conventions

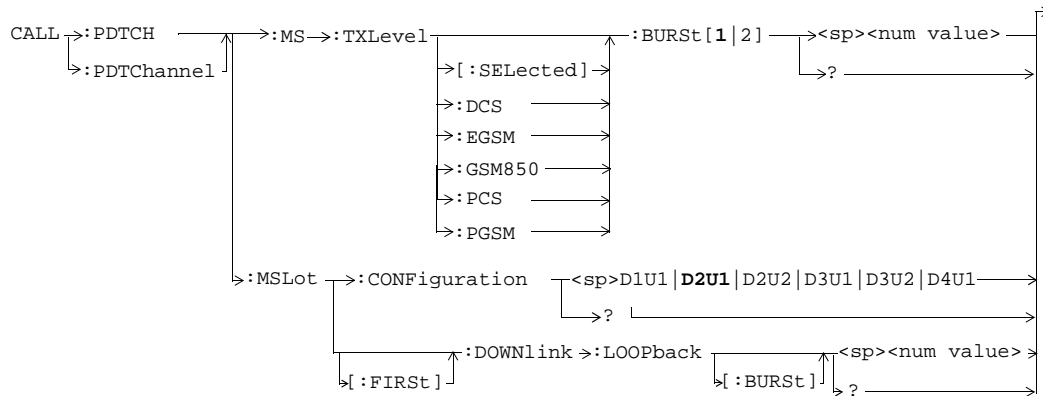
CALL:PDTCH | PDTChannel



These commands are not applicable to GSM.

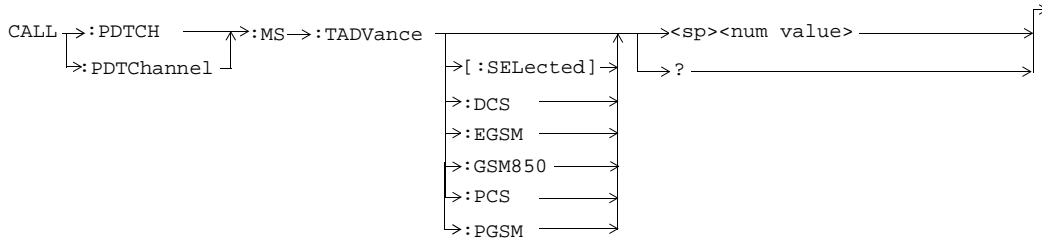


These commands are not applicable to GSM.

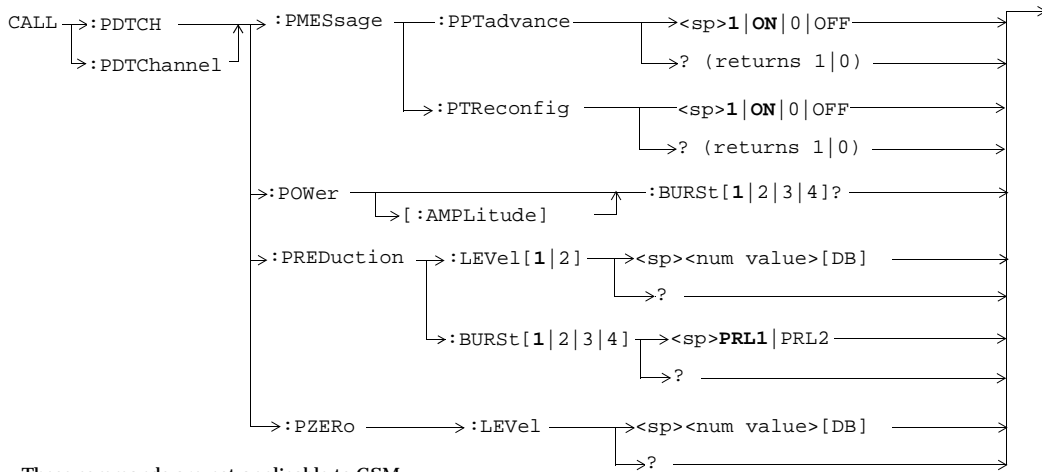


These commands are not applicable to GSM.

Diagram Conventions

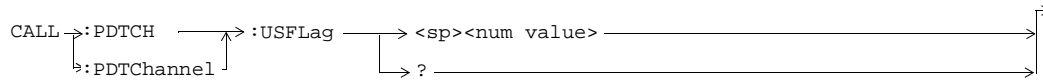


These commands are applicable only to the GPRS *lab* application.



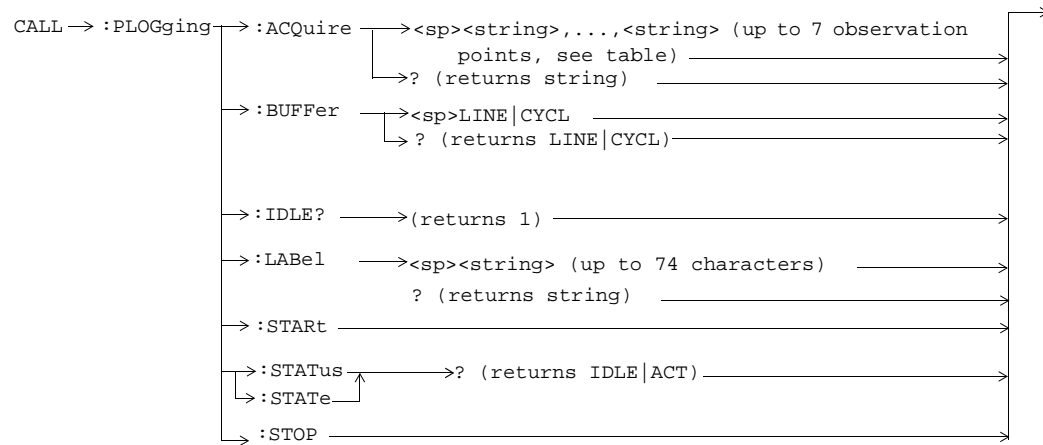
These commands are not applicable to GSM.

Diagram Conventions



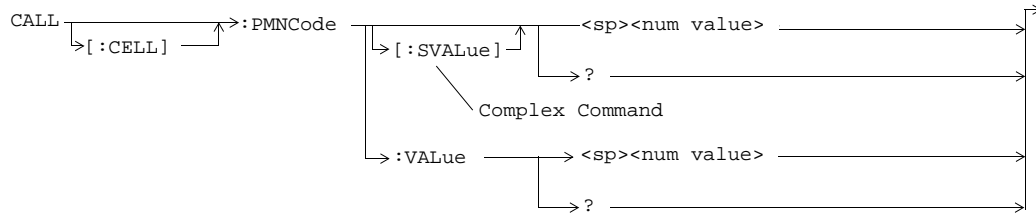
This command is not applicable to GSM.
 This commands applies only to the GPRS *lab* application; it is not applicable to the GPRS *test* application.

CALL:PLOGging

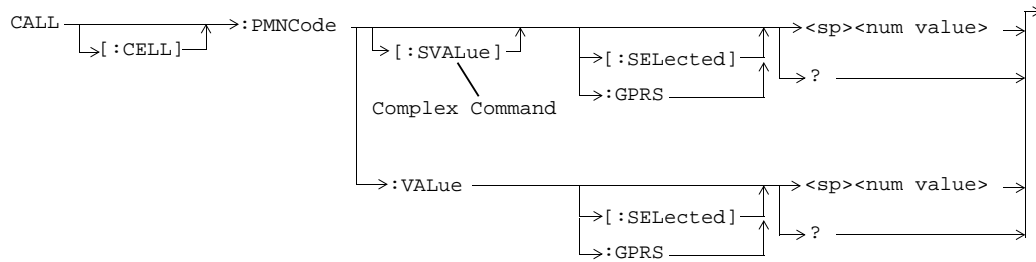


These commands are applicable only to the GPRS *lab* application.

CALL:PMNCode



These commands are not applicable to GPRS.



These commands are applicable only to the GPRS lab application.

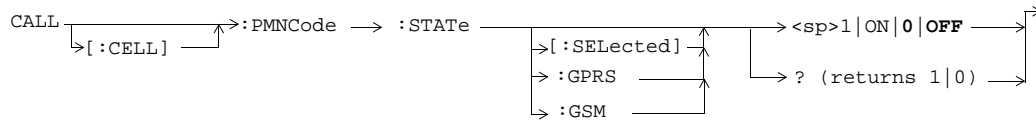
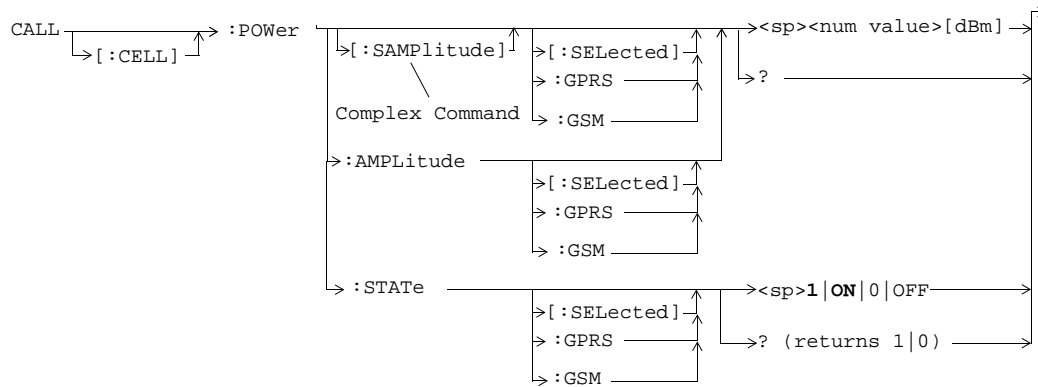
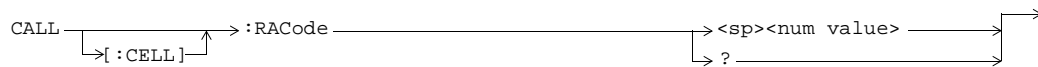


Diagram Conventions

CALL:POWer

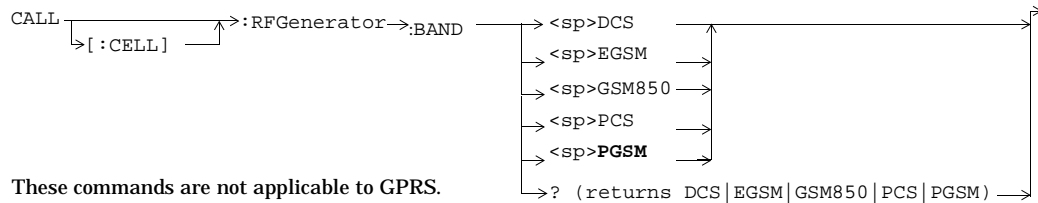


CALL:RACode



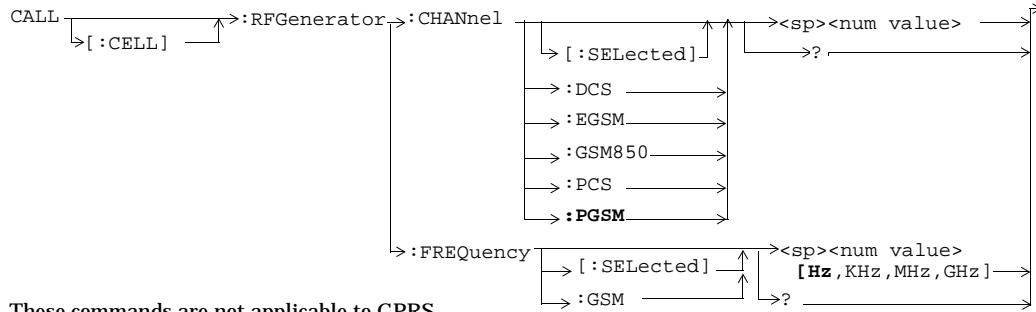
This is applicable only to the GPRS *lab* application.

CALL:RFGenerator

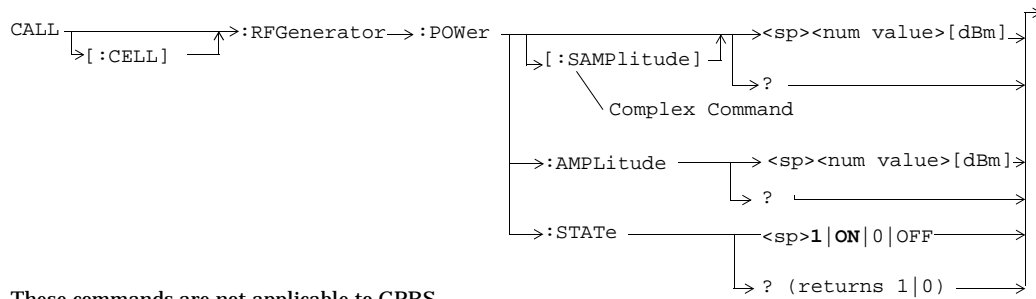


These commands are not applicable to GPRS.

Diagram Conventions

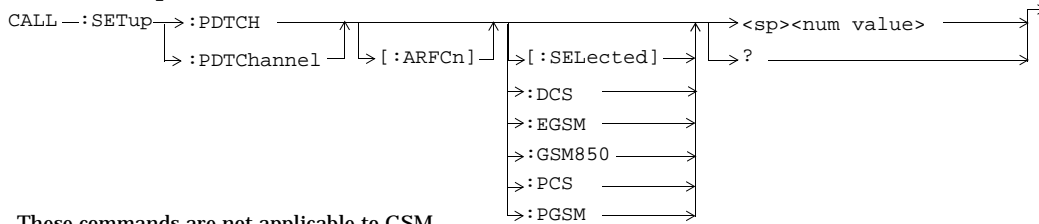


These commands are not applicable to GPRS.



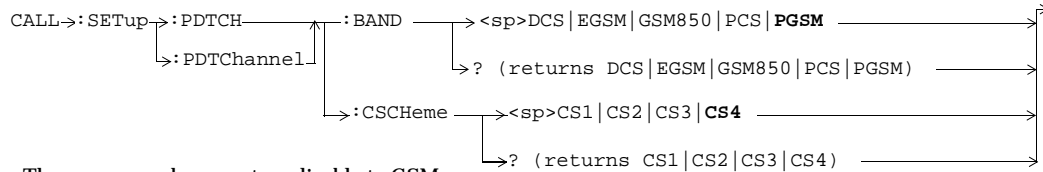
These commands are not applicable to GPRS.

CALL:SETup

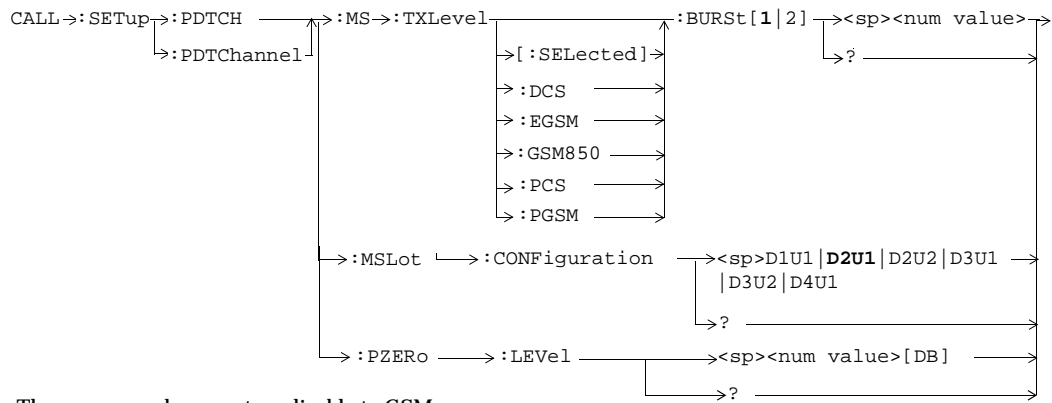


These commands are not applicable to GSM.

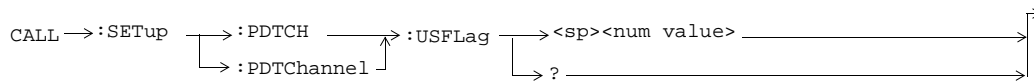
Diagram Conventions



These commands are not applicable to GSM.

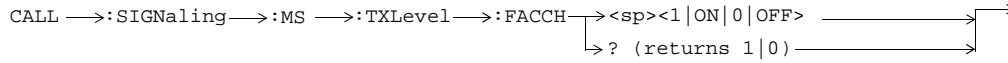


These commands are not applicable to GSM.



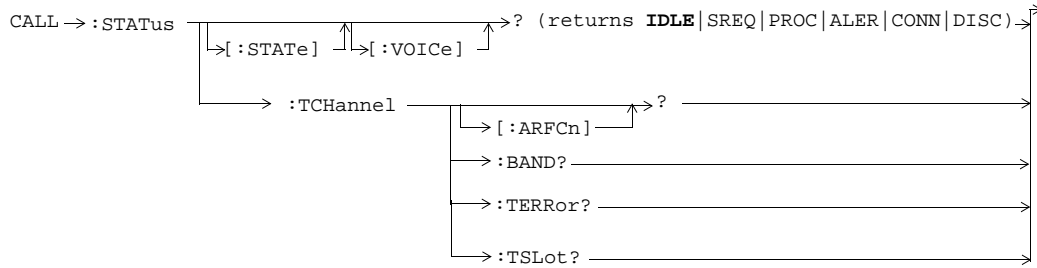
This command is applicable only to the GPRS *lab* application.

CALL:SIGNaling

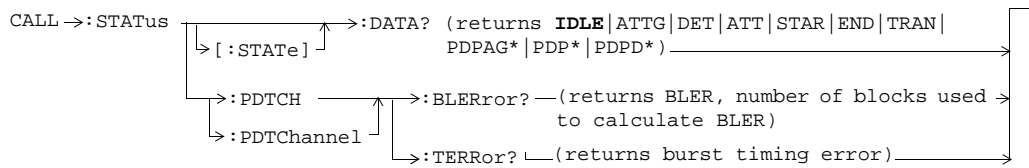


This command is not applicable to GPRS.

CALL:STATus



These commands are not applicable to GPRS.

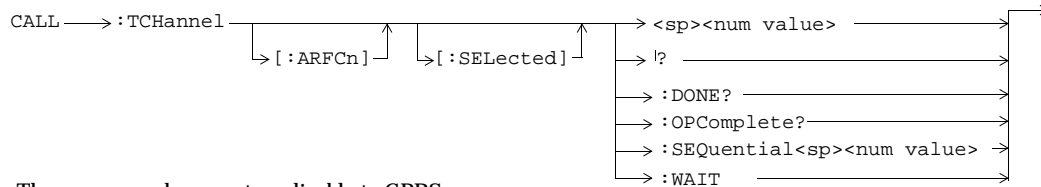


These commands are not applicable to GSM.

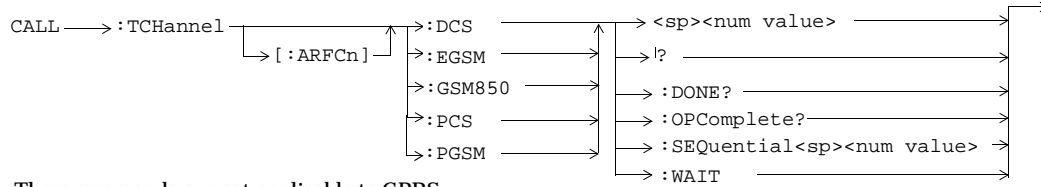
*These data connection states are applicable only to the GPRS *lab* application.

Diagram Conventions

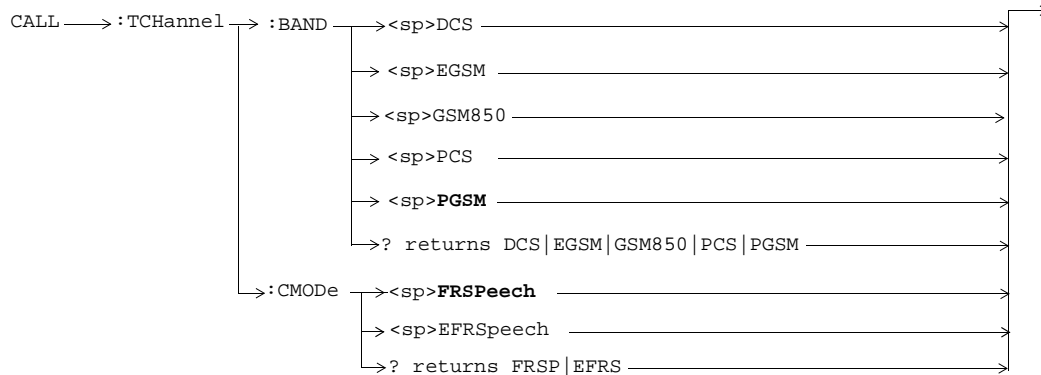
CALL:TCHannel



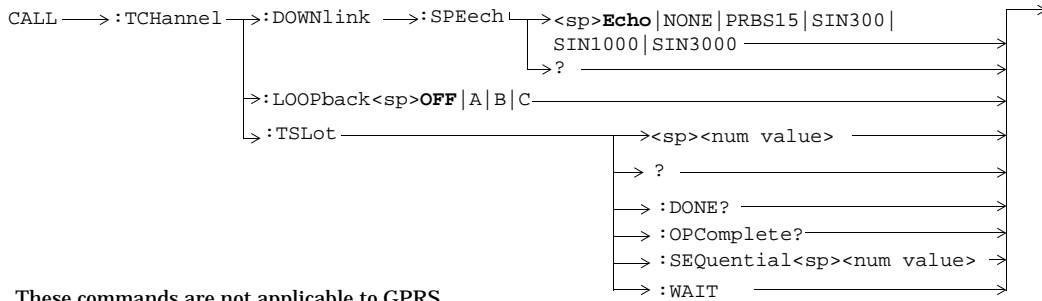
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

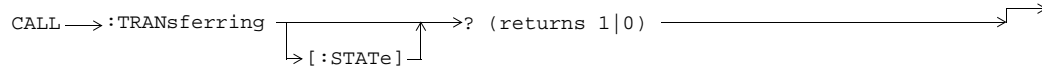


These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

CALL:TRANsferring



This command is not applicable to GSM.

DISPlay

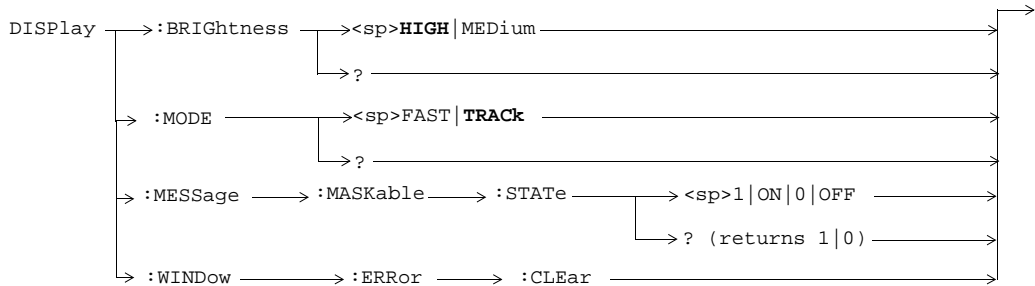
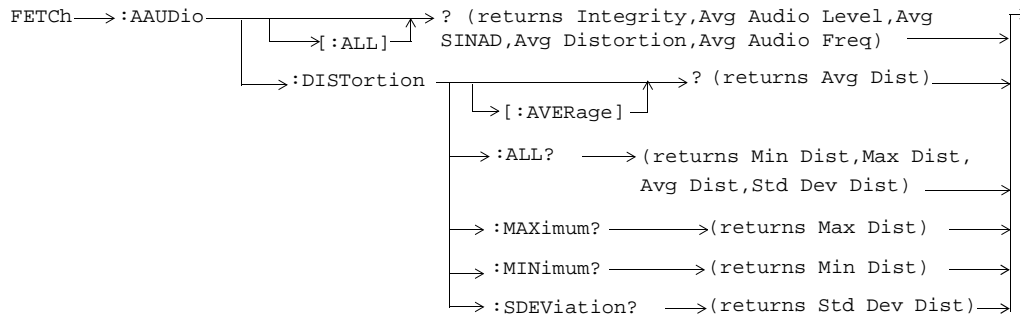
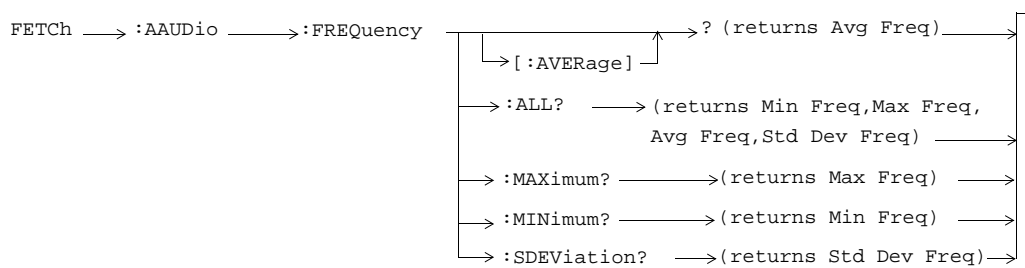


Diagram Conventions

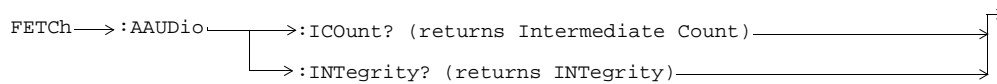
FETCH:AAUDIO



These commands are not applicable to GPRS.

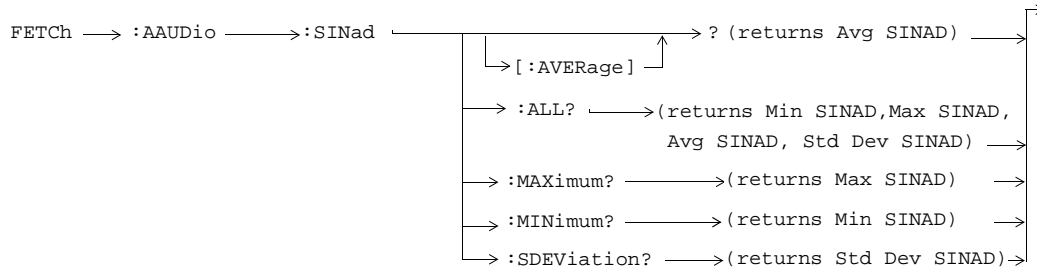


These commands are not applicable to GPRS.

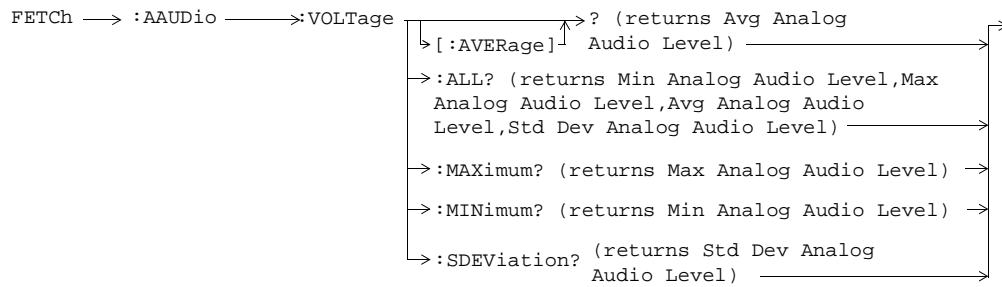


These commands are not applicable to GPRS.

Diagram Conventions



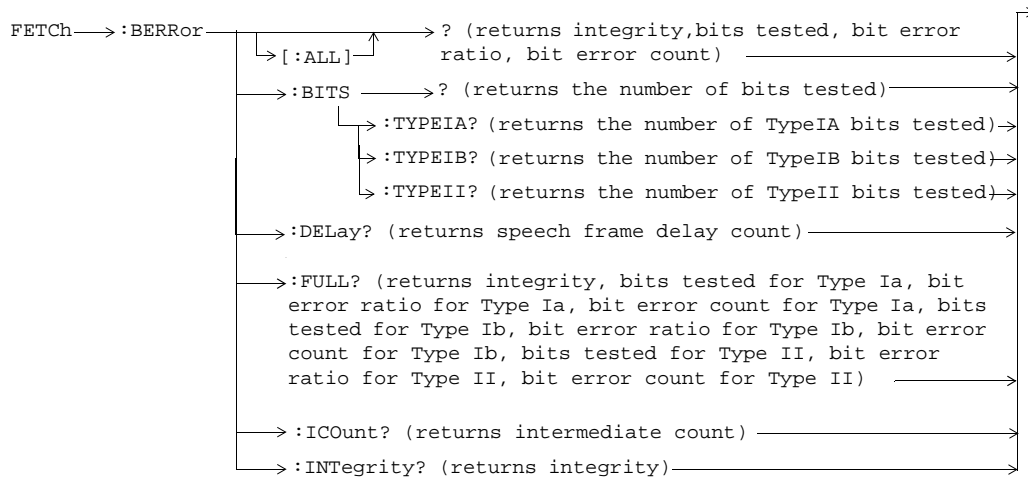
These commands are not applicable to GPRS.



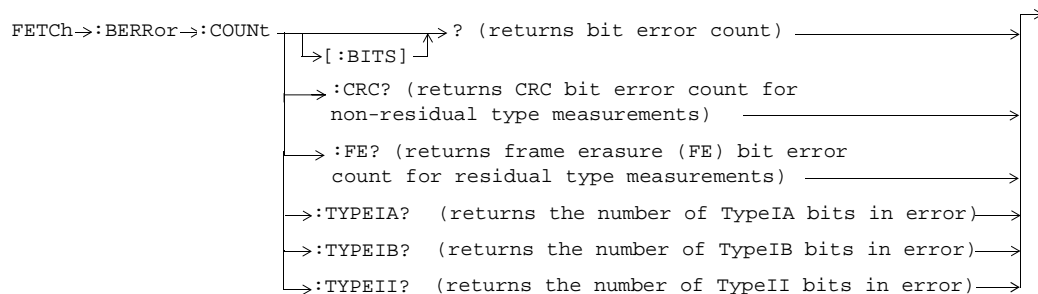
These commands are not applicable to GPRS.

Diagram Conventions

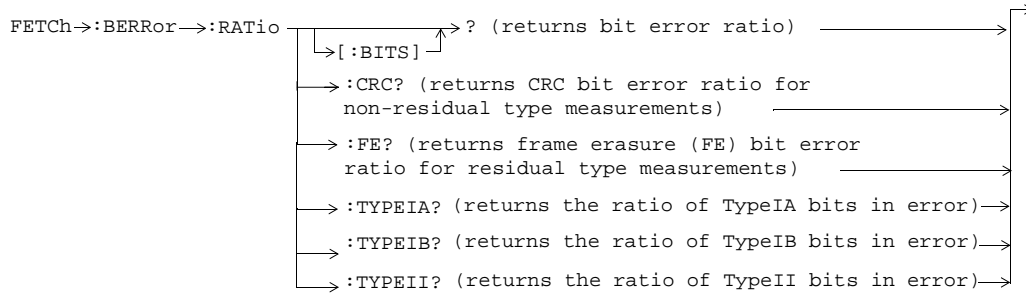
FETCH:BERRor



These commands are not applicable to GPRS.

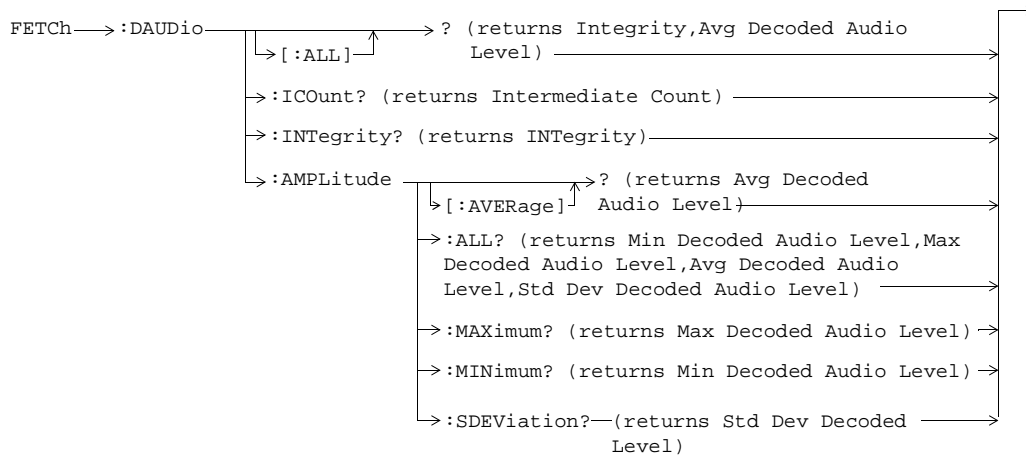


These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

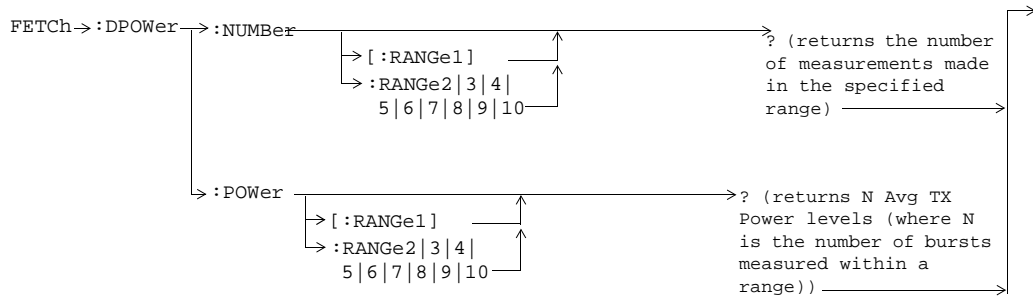
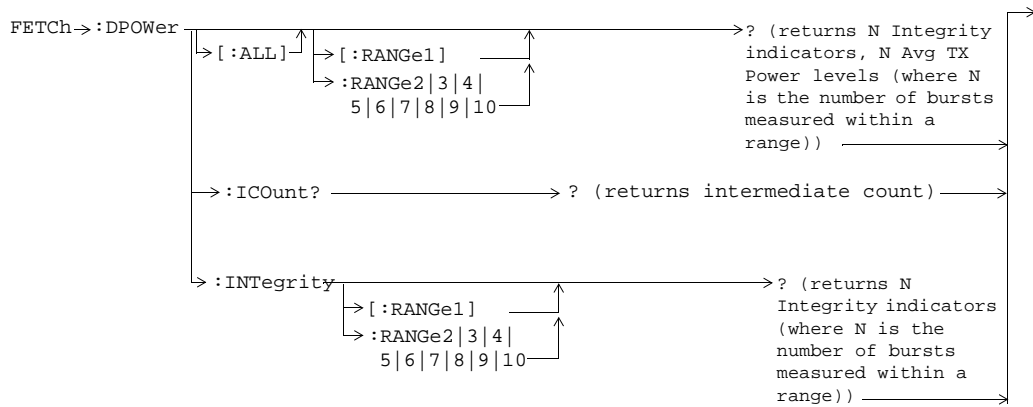
FETCH:DAUDio



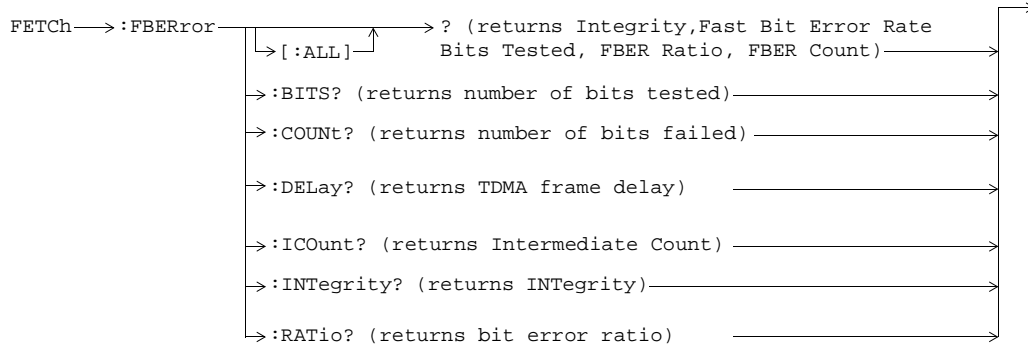
These commands are not applicable to GPRS.

Diagram Conventions

FETCH:DPOWER

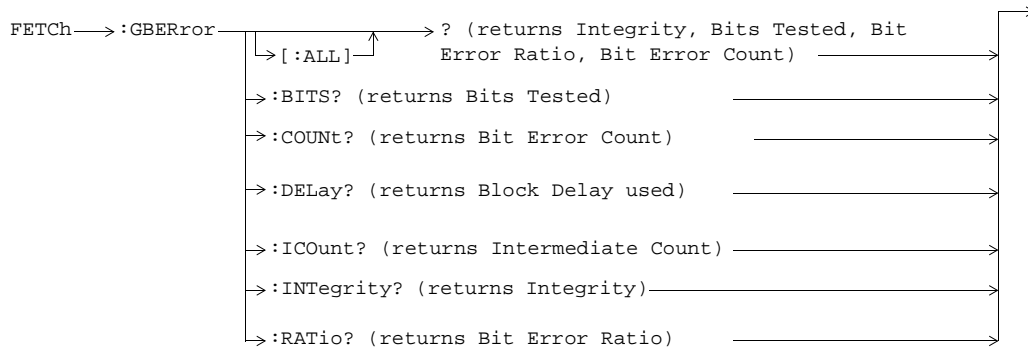


FETCH:FBERror



These commands are not applicable to GPRS.

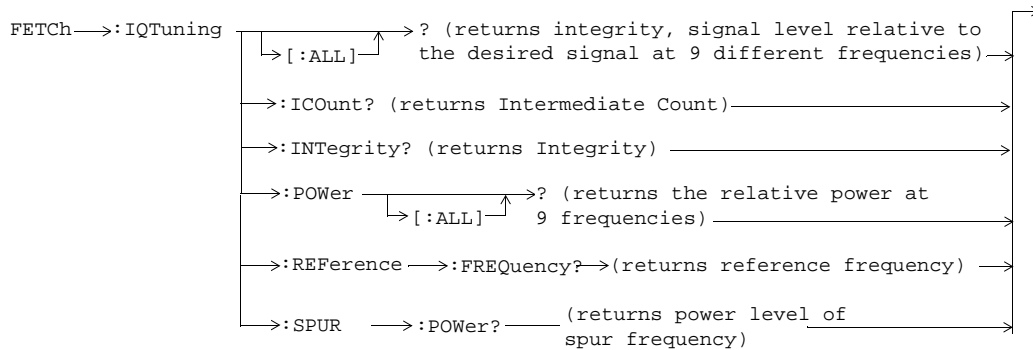
FETCH:GBERror



These commands are not applicable to GSM.

Diagram Conventions

FETCH:IQTuning



These commands are not applicable to GPRS.

FETCH:ORFSpectrum

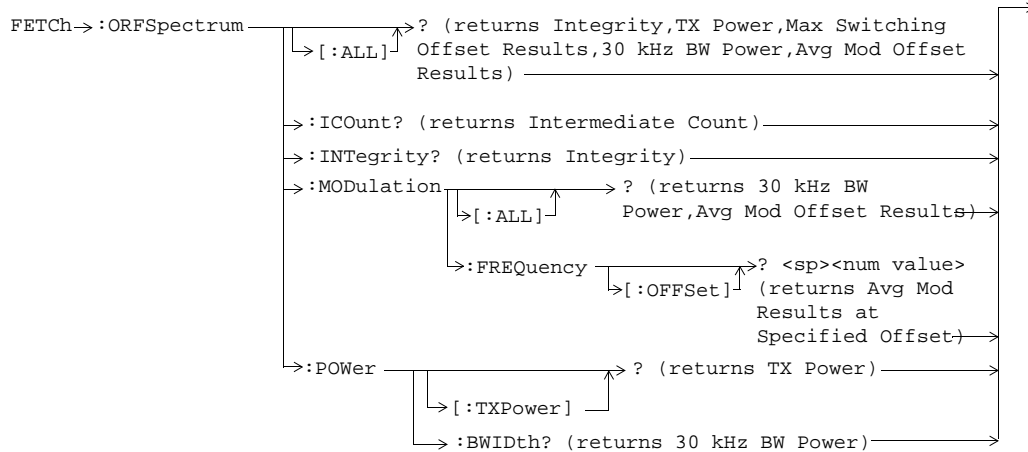
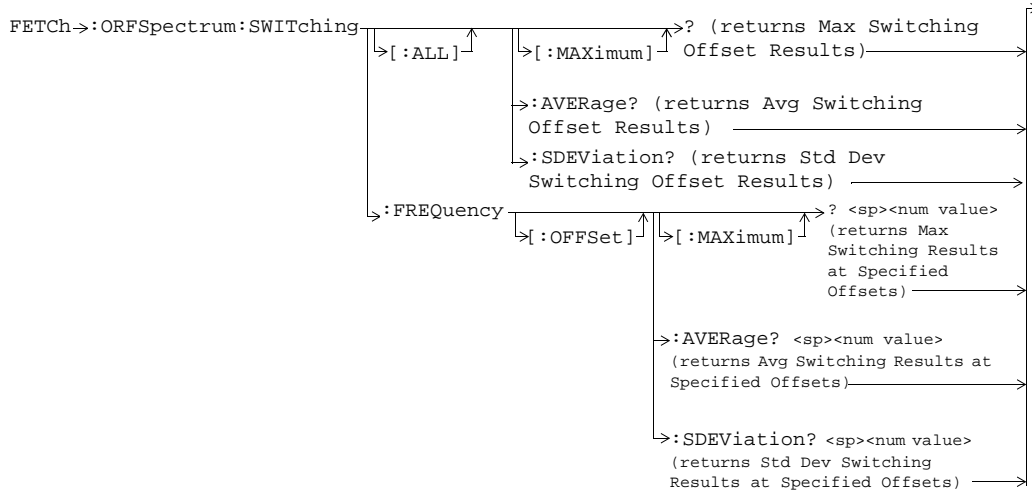


Diagram Conventions



FETCH:PFERror

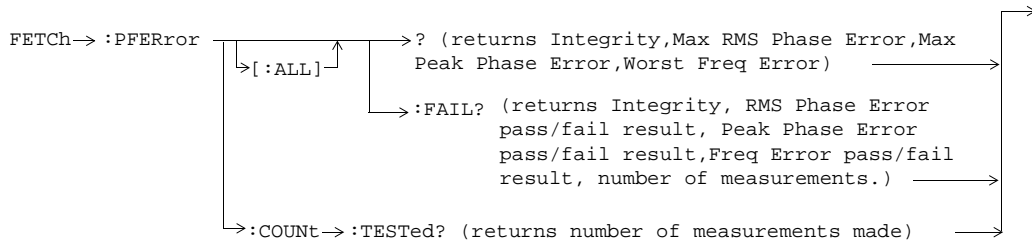
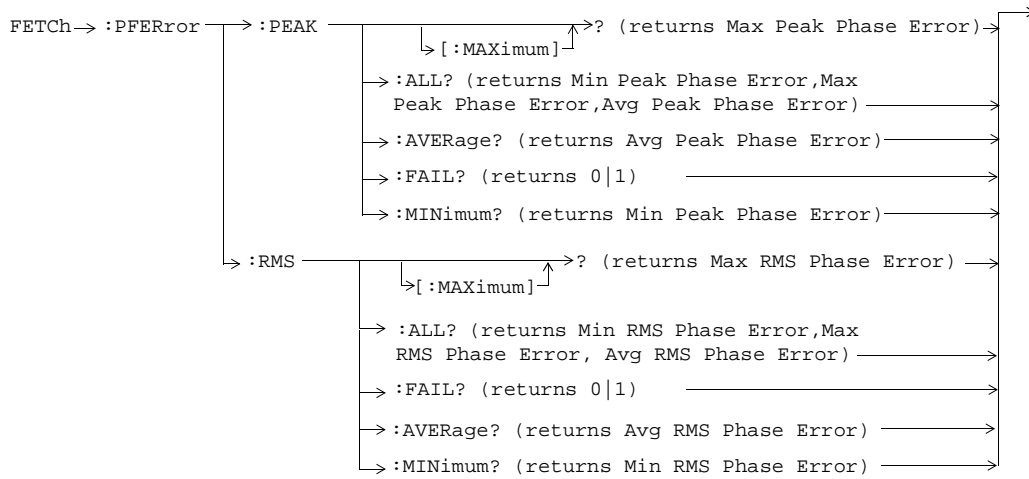
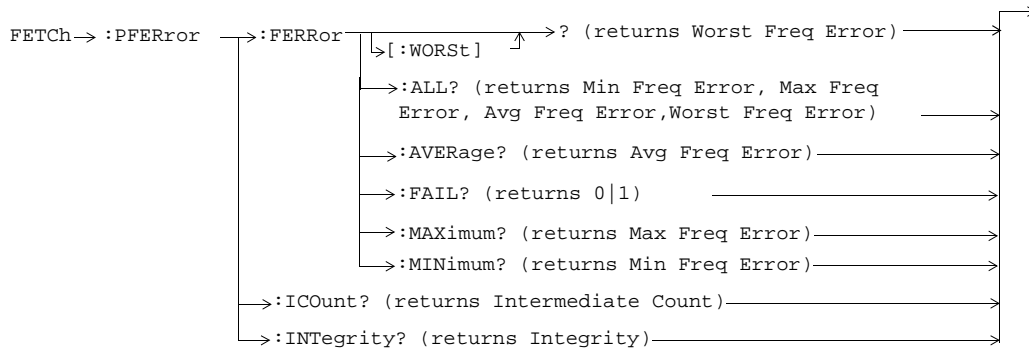
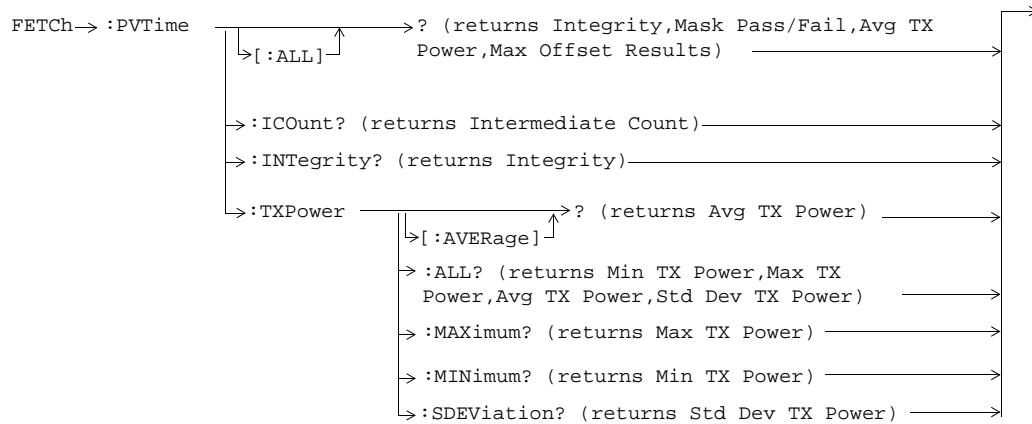
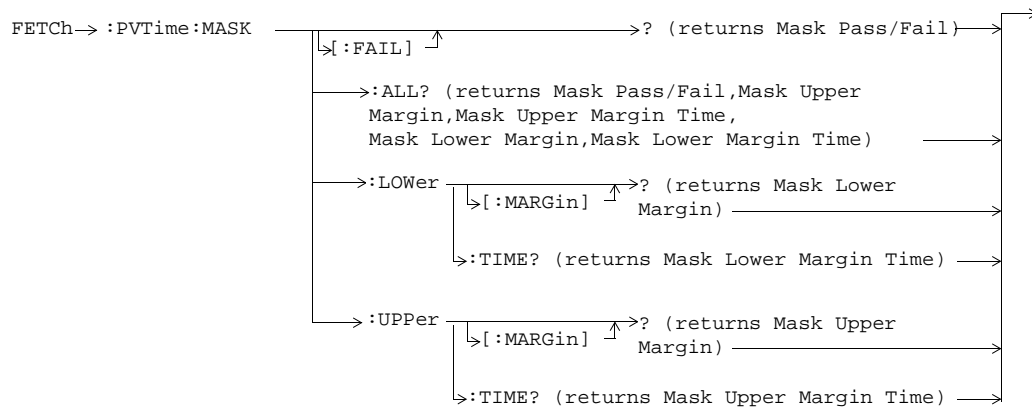


Diagram Conventions



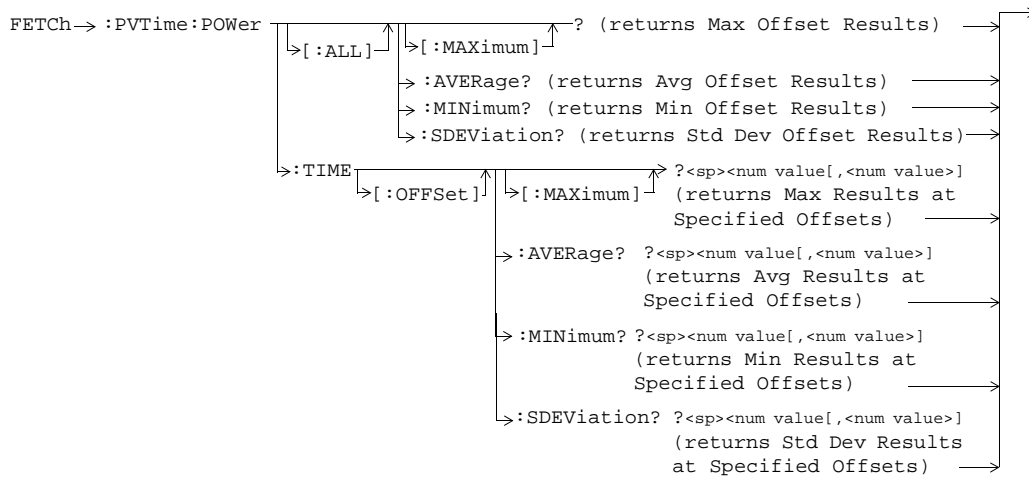
FETCH:PVTime

These commands are not applicable to GPRS.

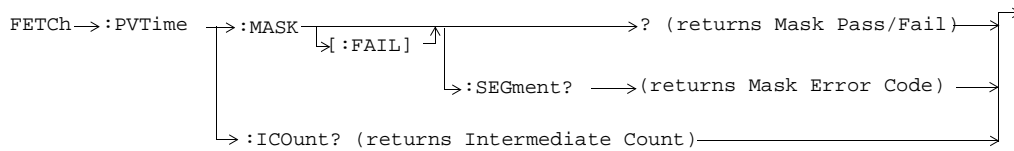


These commands are not applicable to GPRS.

Diagram Conventions

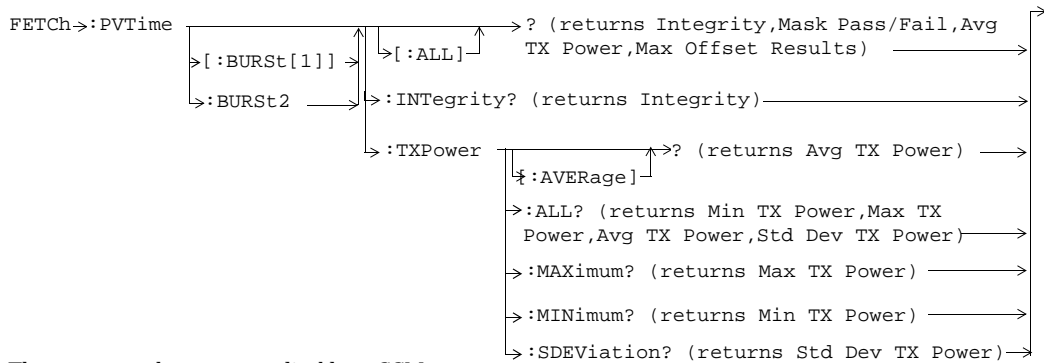


These commands are not applicable to GPRS.

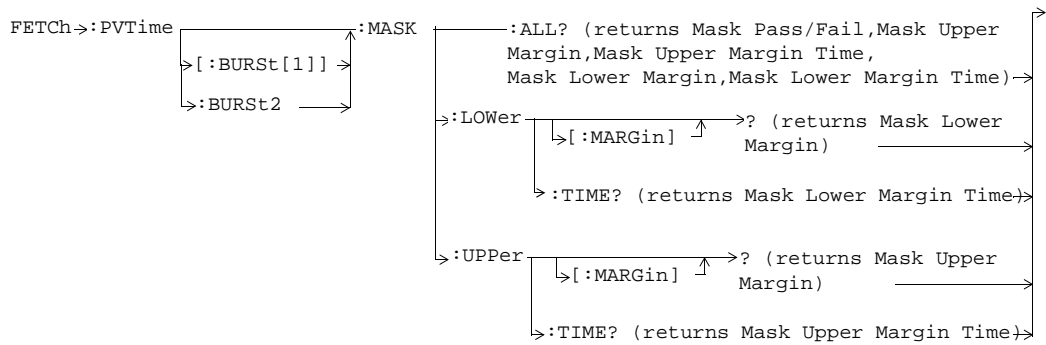


These commands are not applicable to GSM.

Diagram Conventions

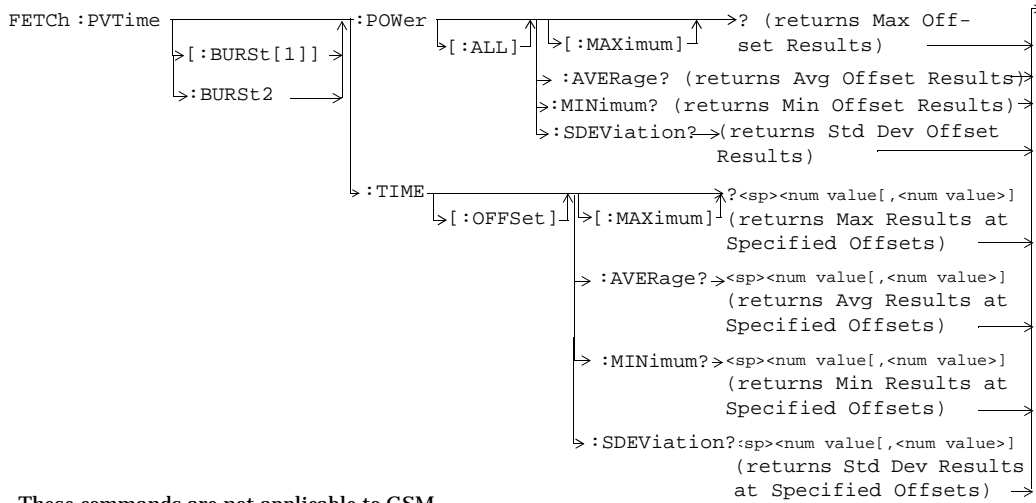


These commands are not applicable to GSM.



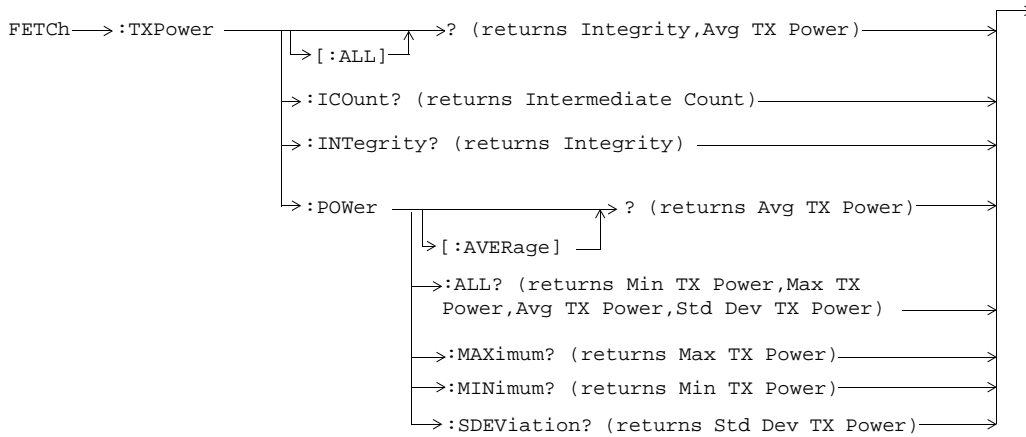
These commands are not applicable to GSM.

Diagram Conventions

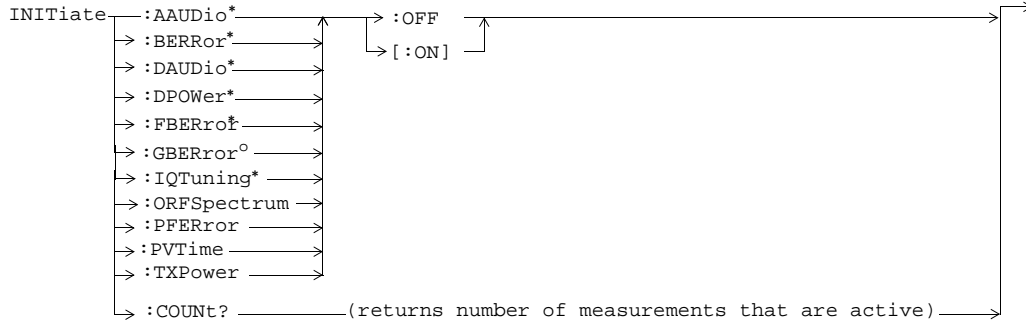


These commands are not applicable to GSM.

FETCH:TXPower

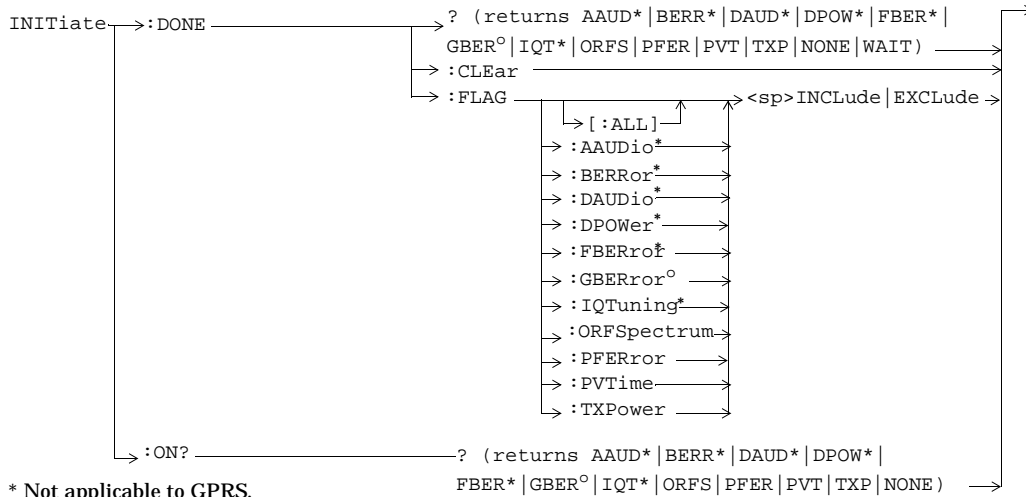


INITiate



* Not applicable to GPRS

^o Not applicable to GSM

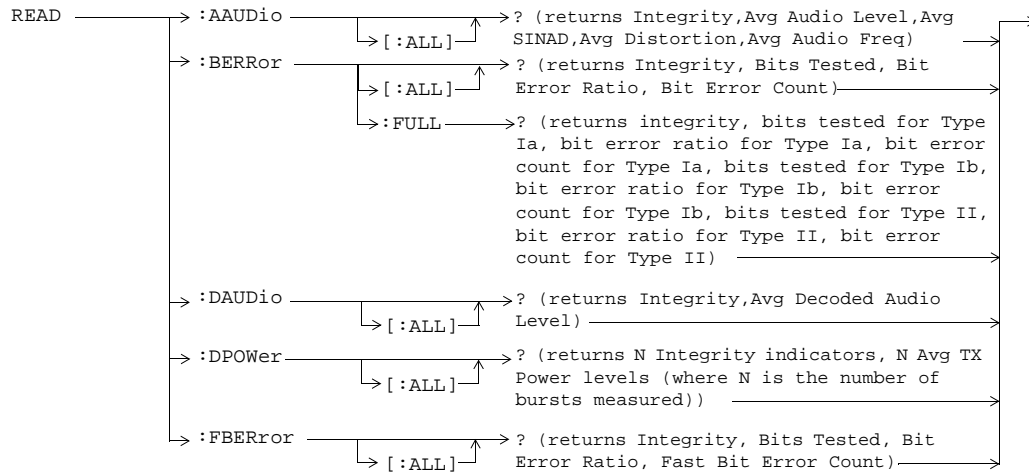


* Not applicable to GPRS.

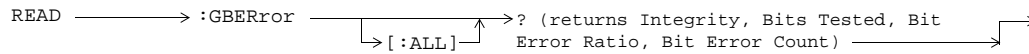
^o Not applicable to GSM

Diagram Conventions

READ

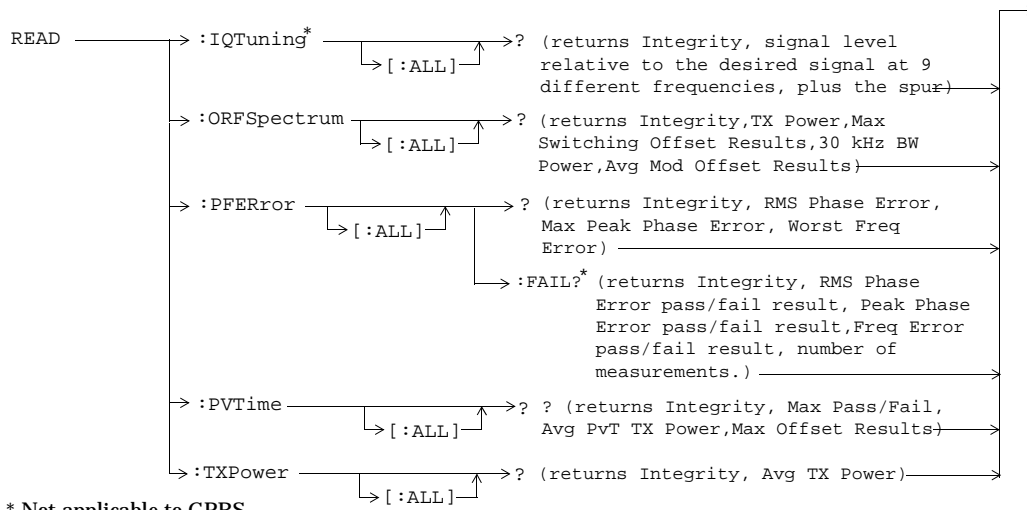


These commands are not applicable to GPRS.

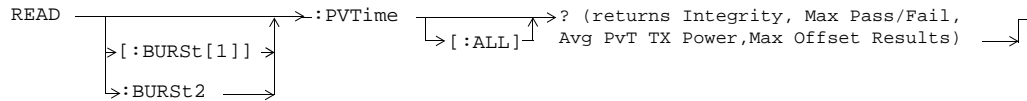


* This command is not applicable to GSM.

Diagram Conventions



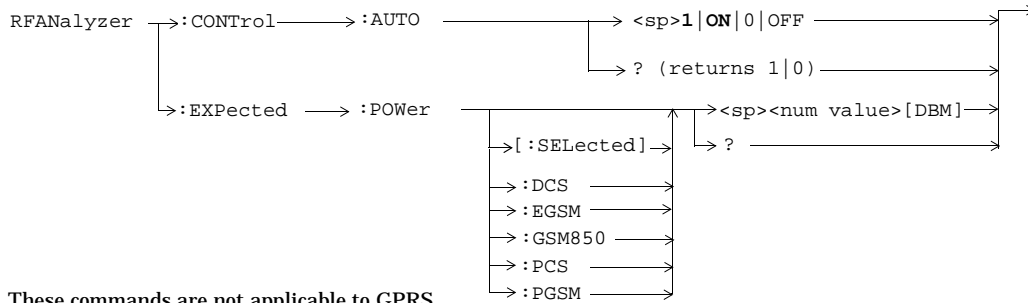
* Not applicable to GPRS.



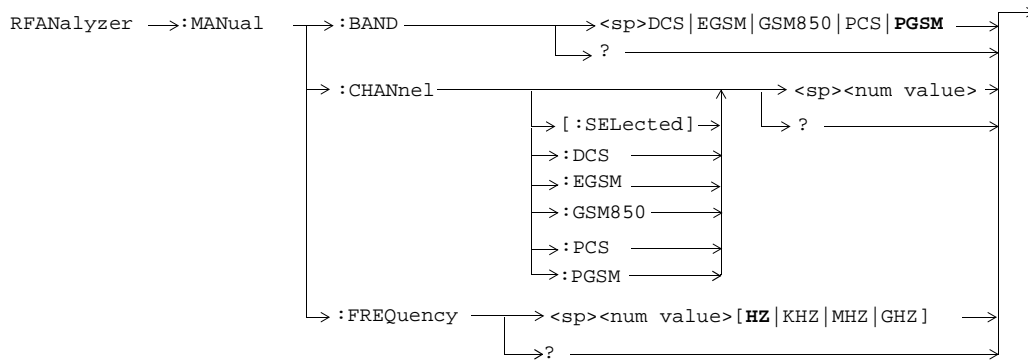
This command is not applicable to GSM.

Diagram Conventions

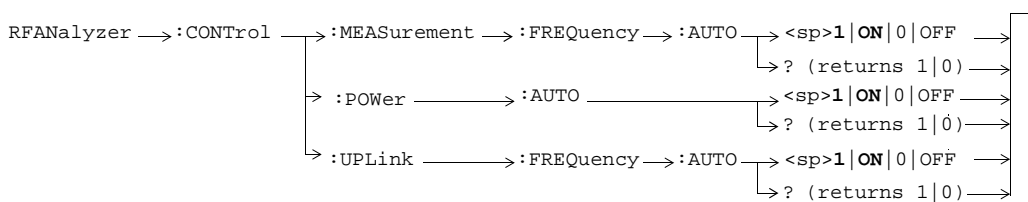
RFAnalyzer



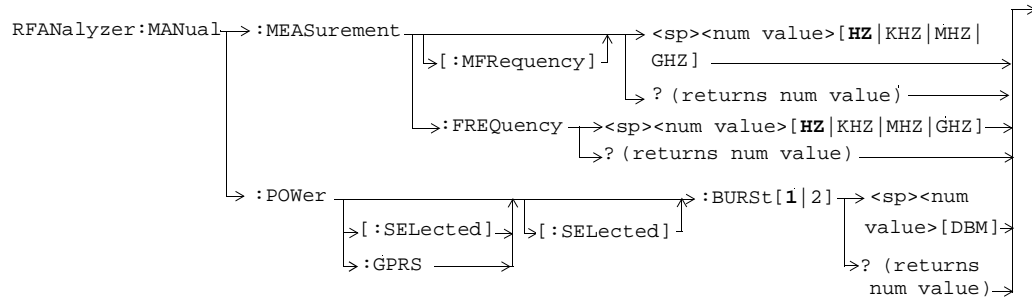
These commands are not applicable to GPRS.



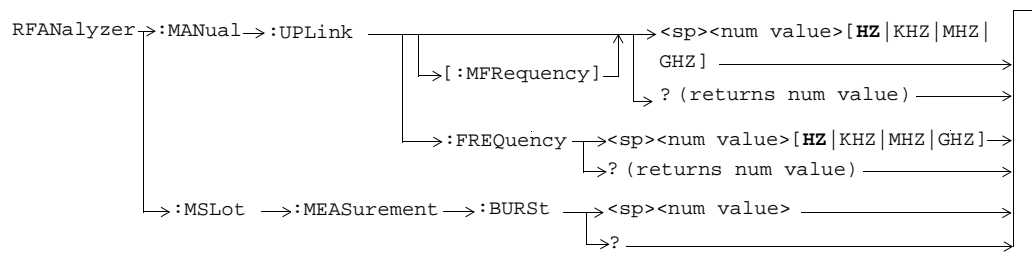
These commands are not applicable to GPRS.



These commands are not applicable to GSM.



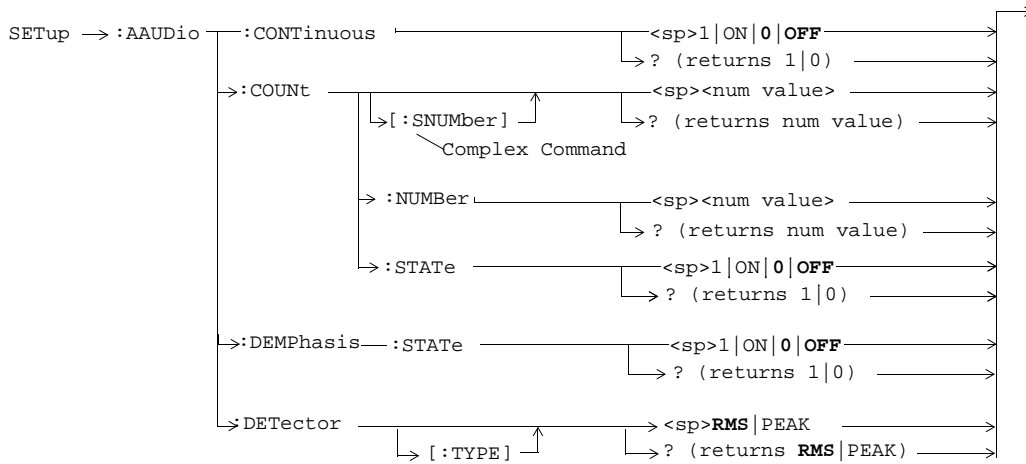
These commands are not applicable to GSM.



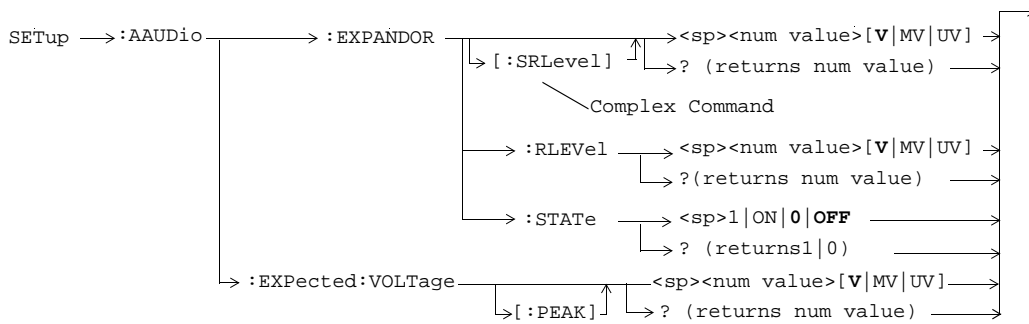
These commands are not applicable to GSM.

Diagram Conventions

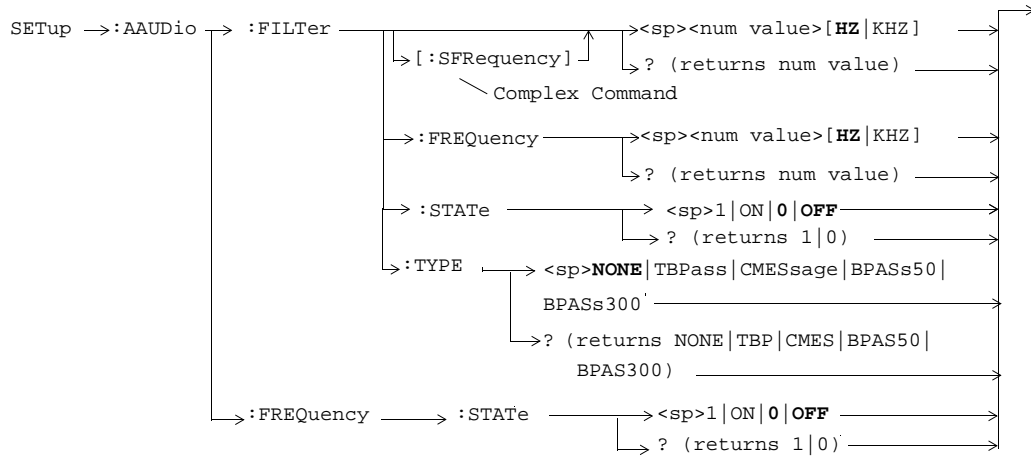
SETup:AAudio



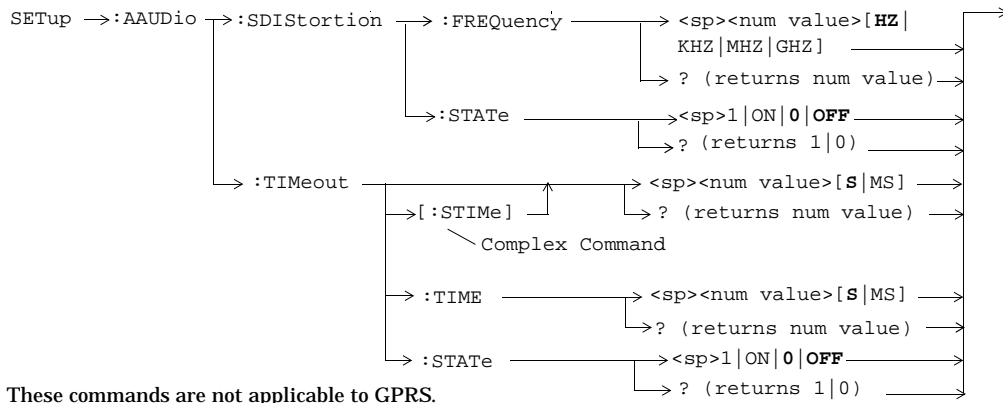
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.



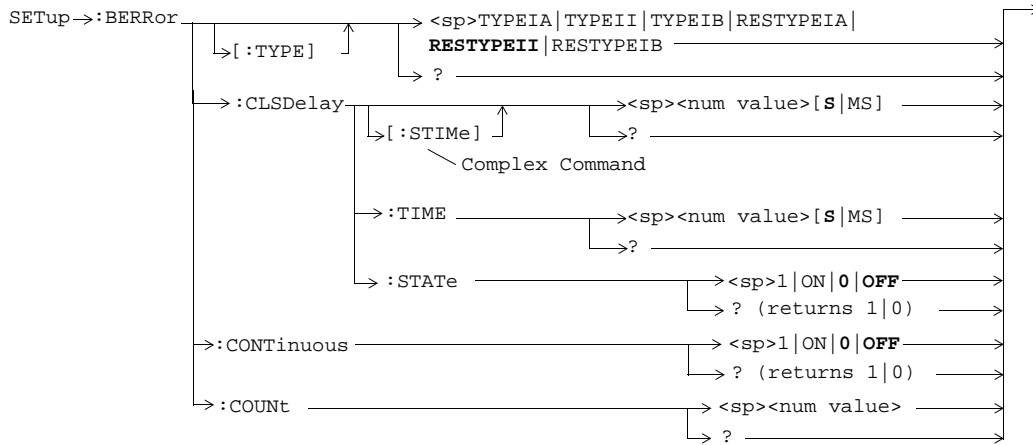
These commands are not applicable to GPRS.



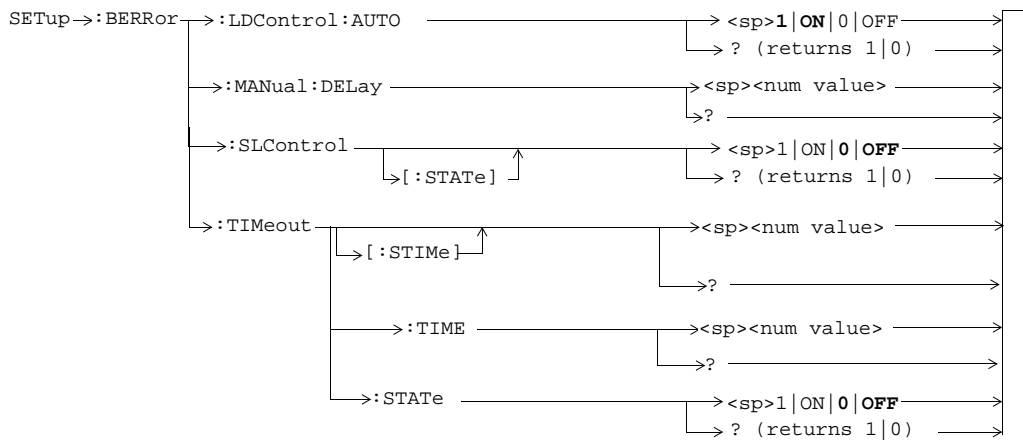
These commands are not applicable to GPRS.

Diagram Conventions

SETup:BERRor

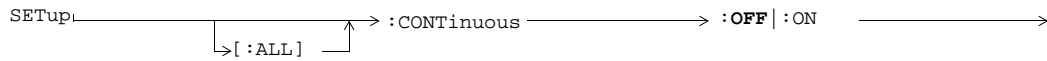


These commands are not applicable to GPRS.

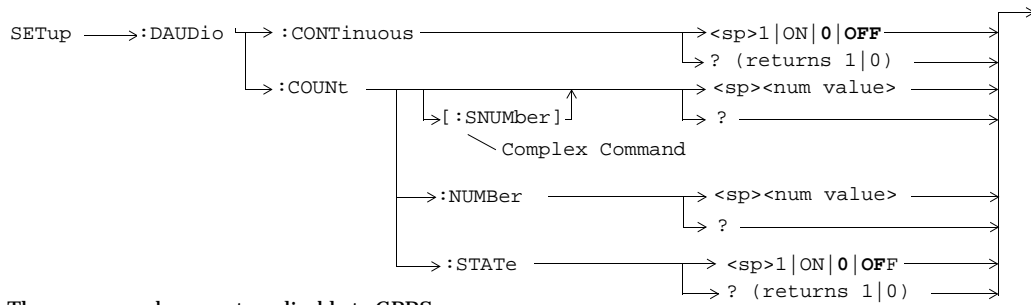


These commands are not applicable to GPRS.

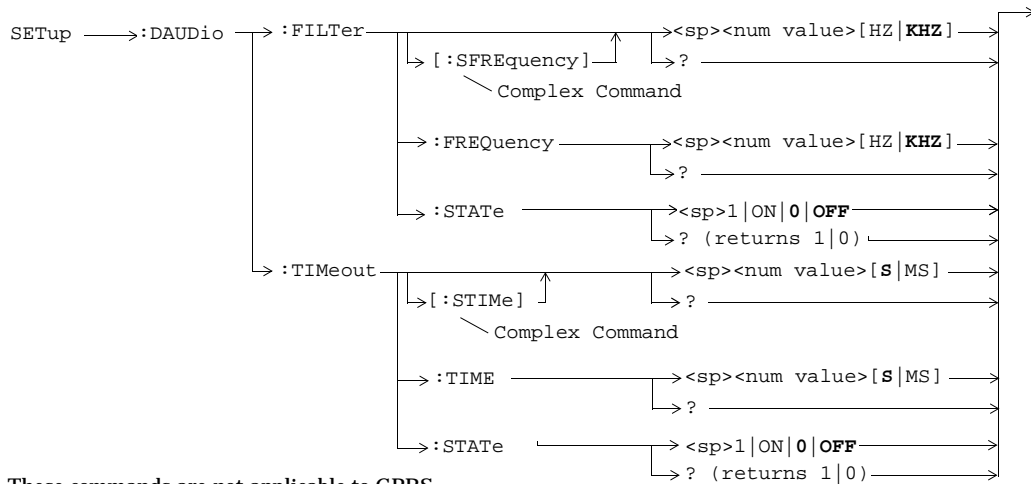
SETup:CONTInuous



SETup:DAUDio



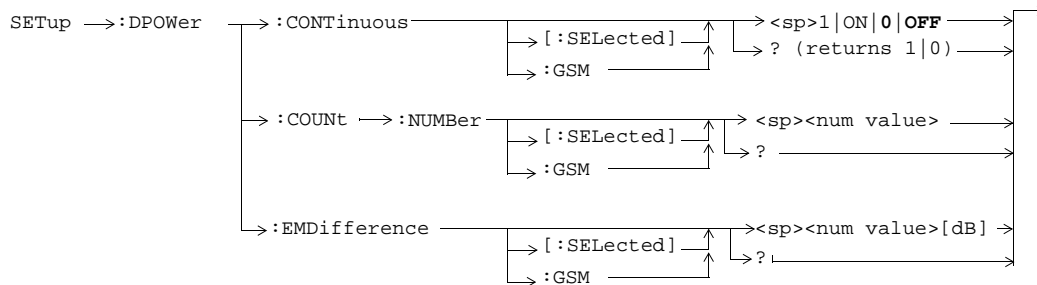
These commands are not applicable to GPRS.



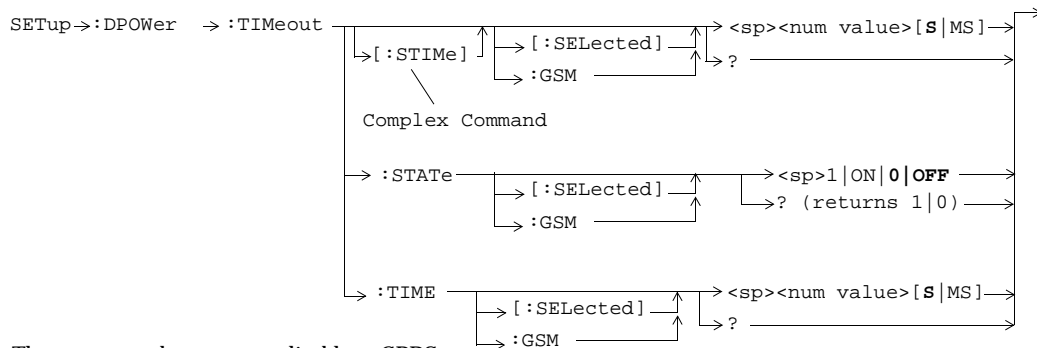
These commands are not applicable to GPRS.

Diagram Conventions

SETup:DPOWer

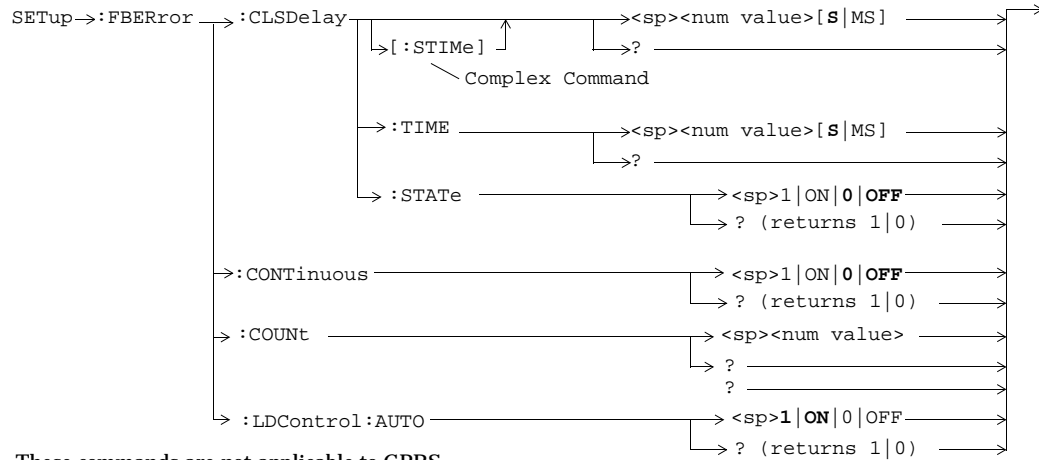


These commands are not applicable to GPRS.

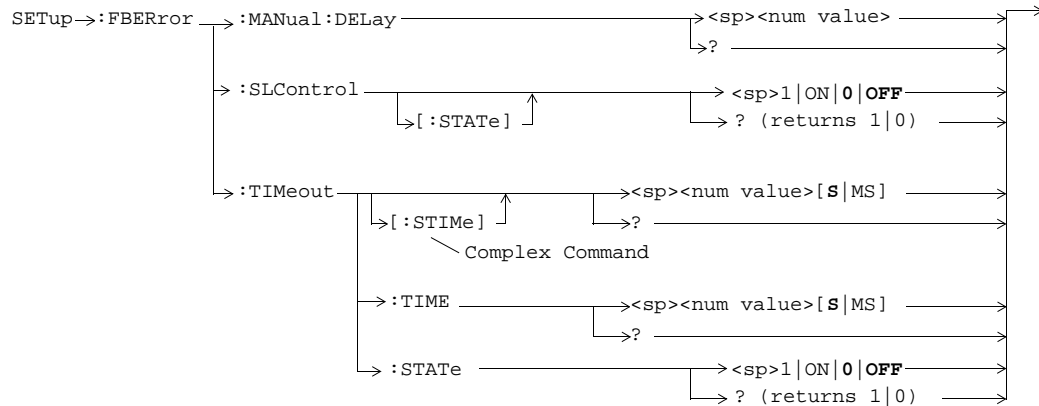


These commands are not applicable to GPRS.

SETup:FBError



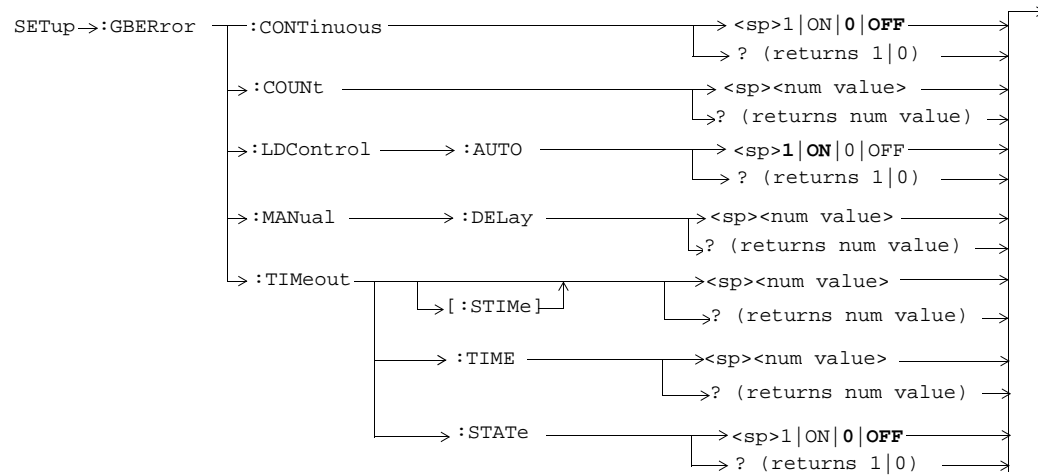
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

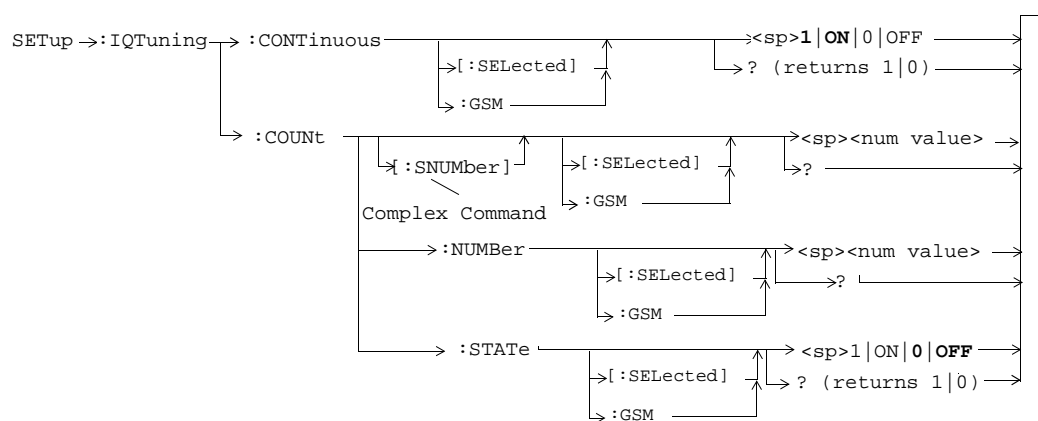
Diagram Conventions

SETup:GBERror



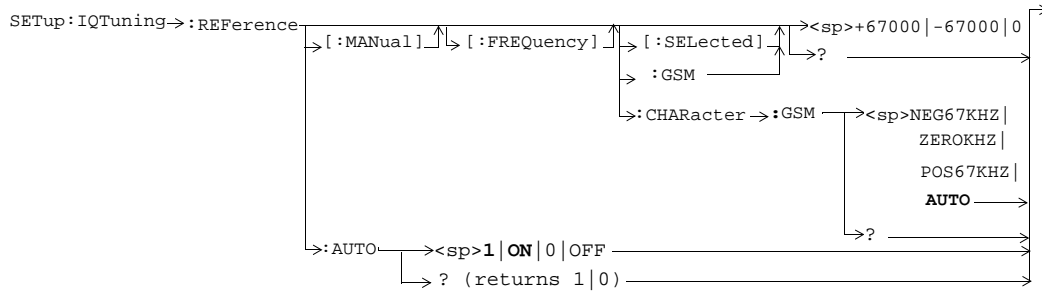
These commands are not applicable to GSM.

SETup:IQTuning

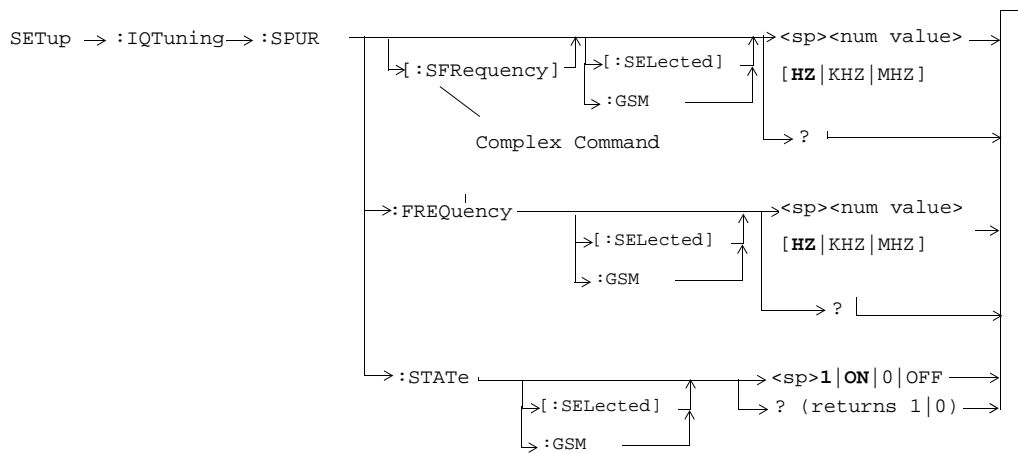


These commands are not applicable to GPRS.

Diagram Conventions

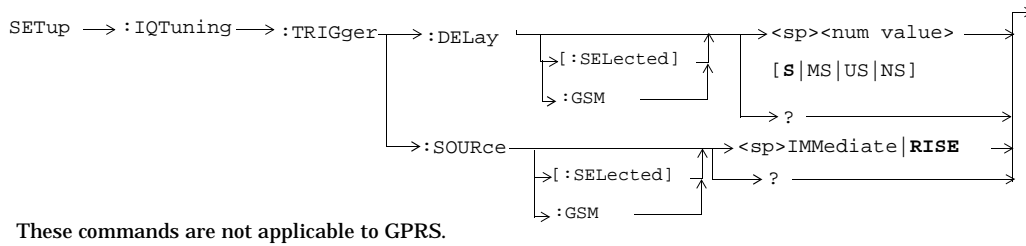
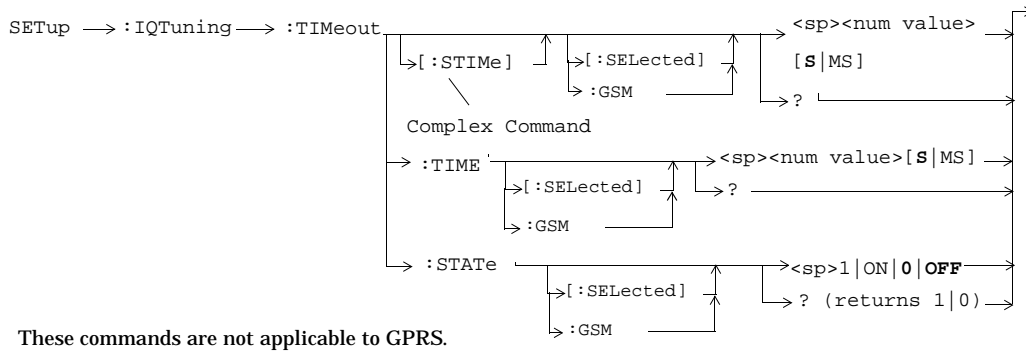


These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

Diagram Conventions



SETup:ORFSpectrum

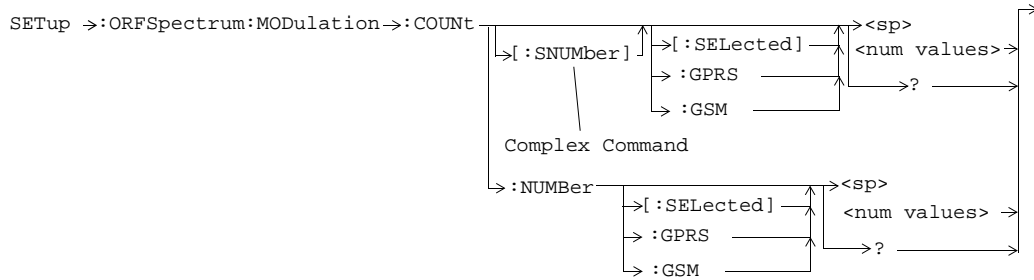
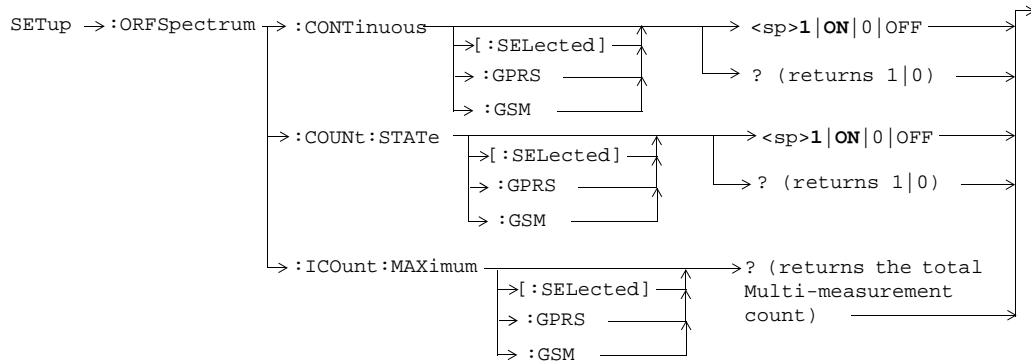


Diagram Conventions

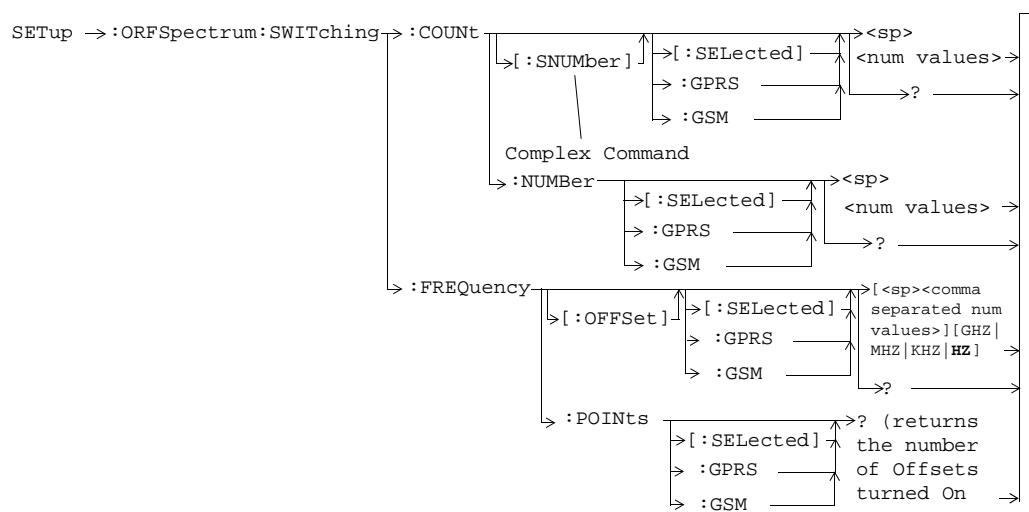
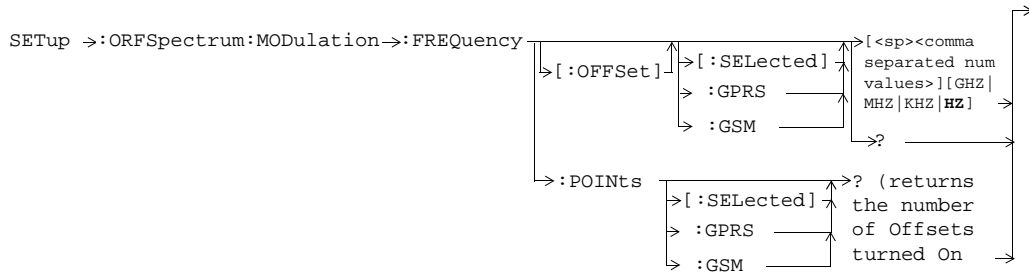


Diagram Conventions

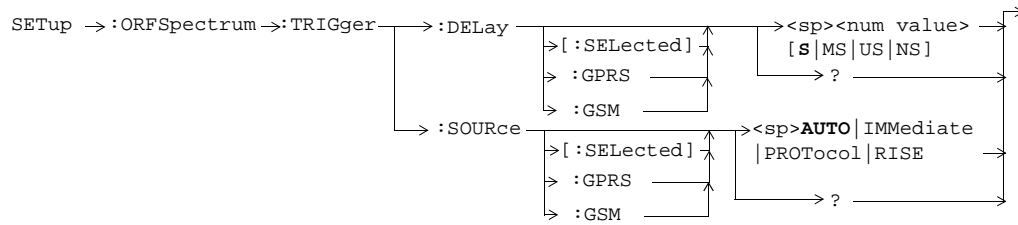
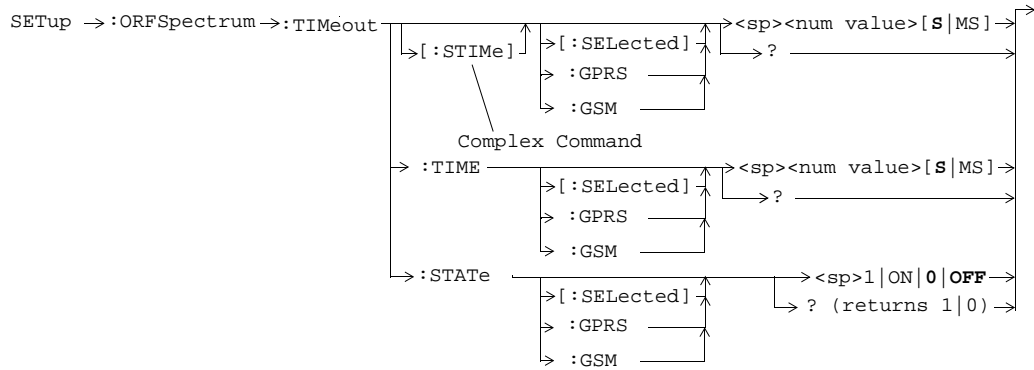


Diagram Conventions

SETup:PFERror

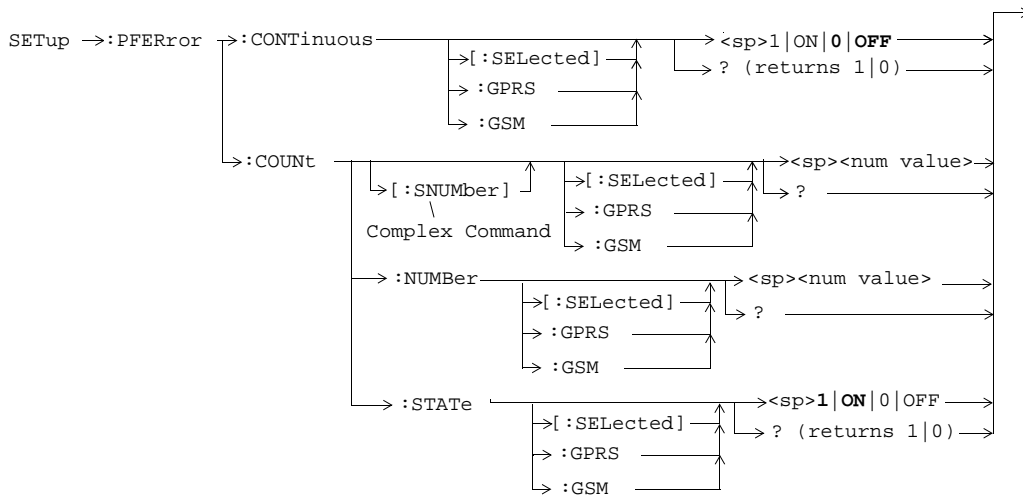
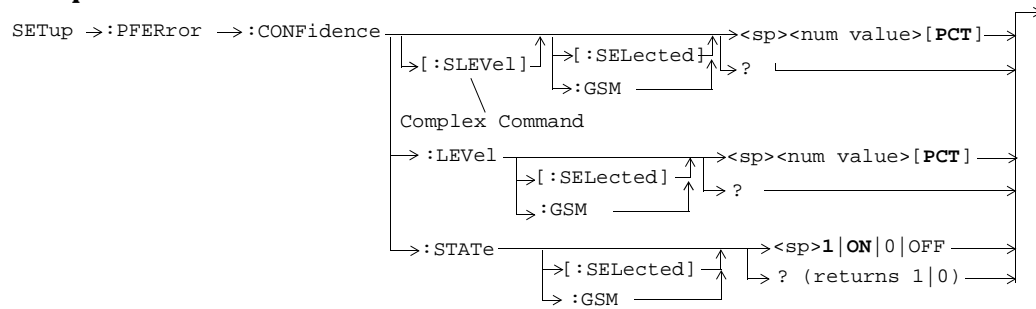


Diagram Conventions

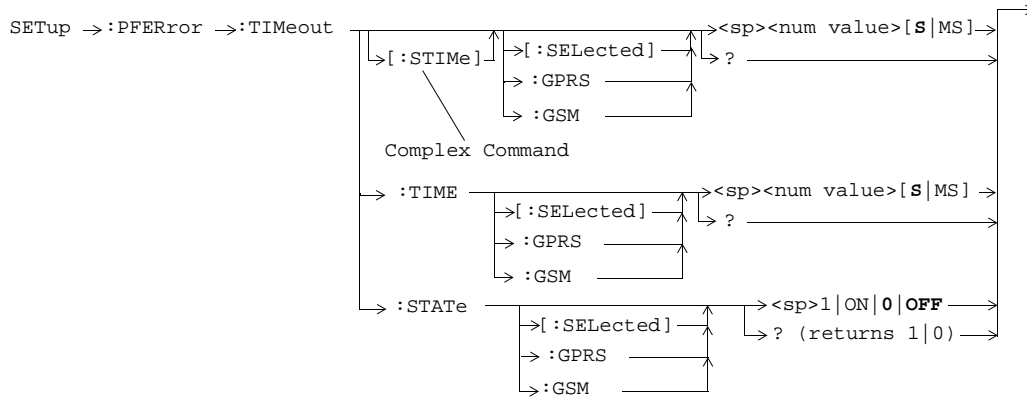
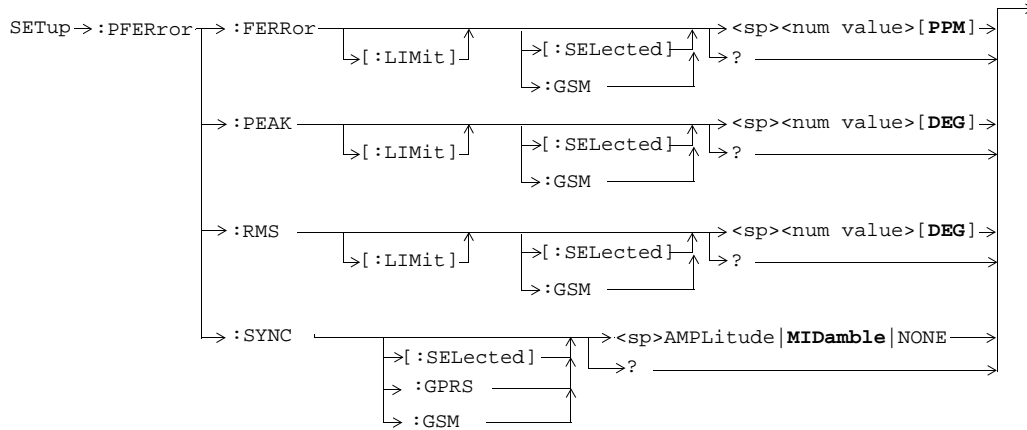
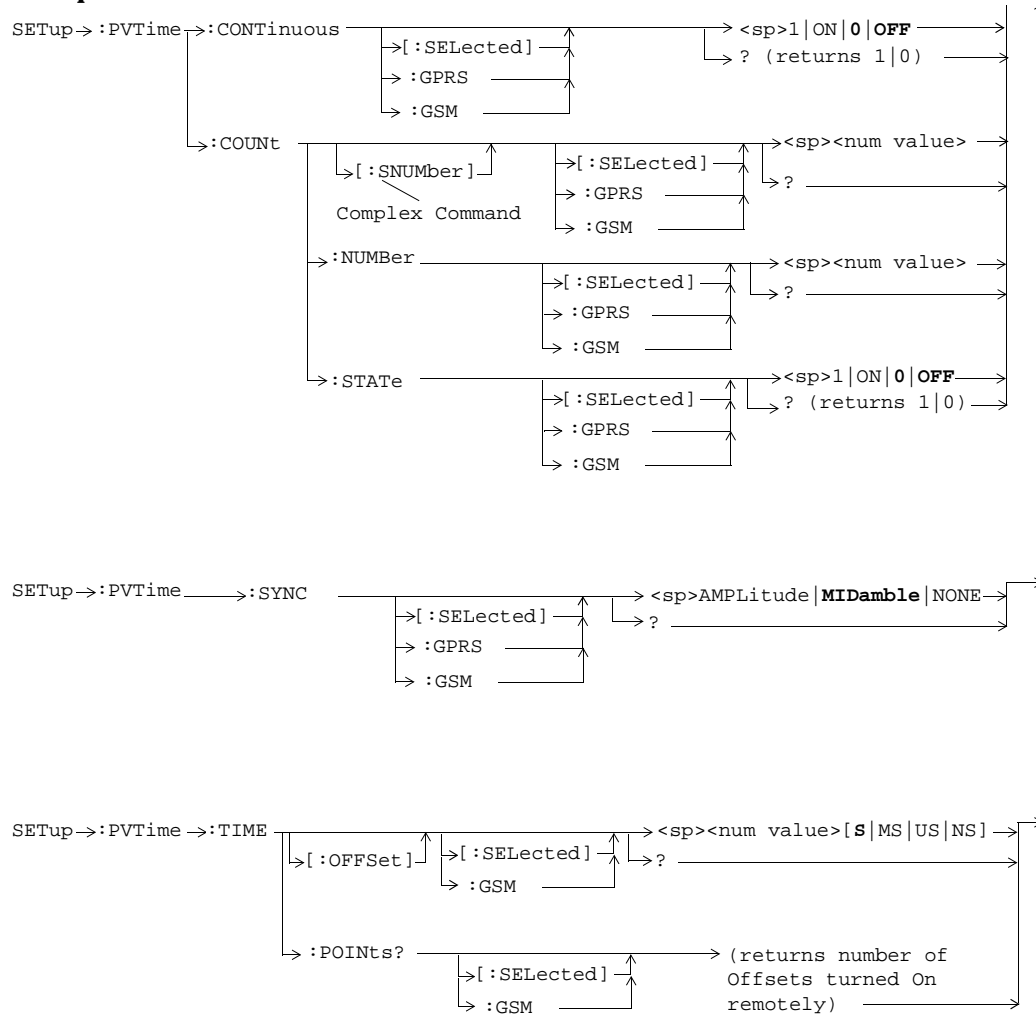


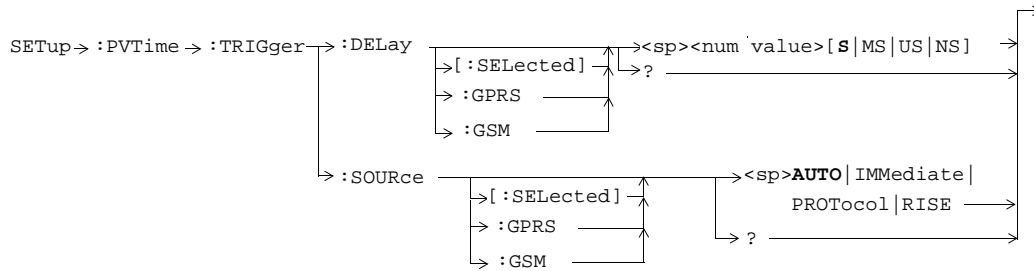
Diagram Conventions

SETup:PVTime



These commands are not applicable to GPRS.

Diagram Conventions



SETUp:TXPower

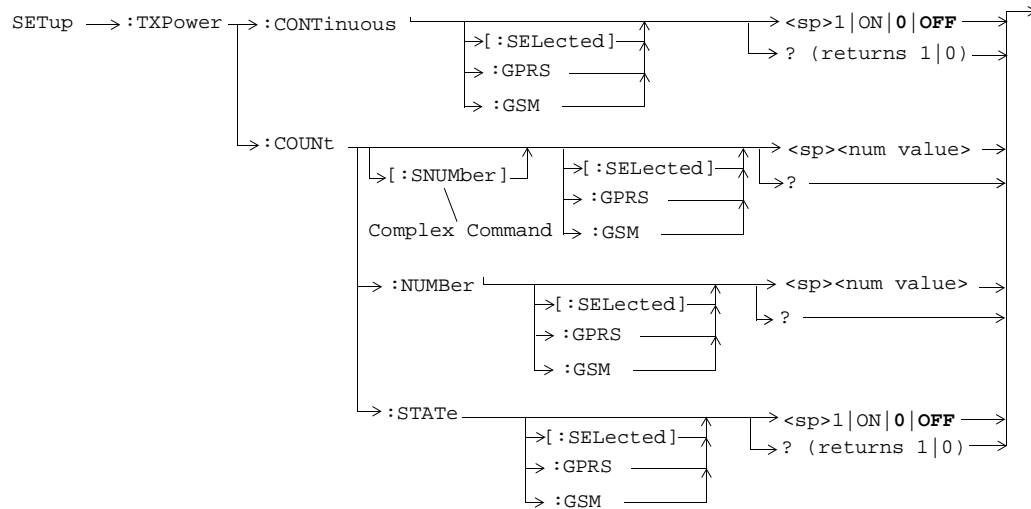


Diagram Conventions

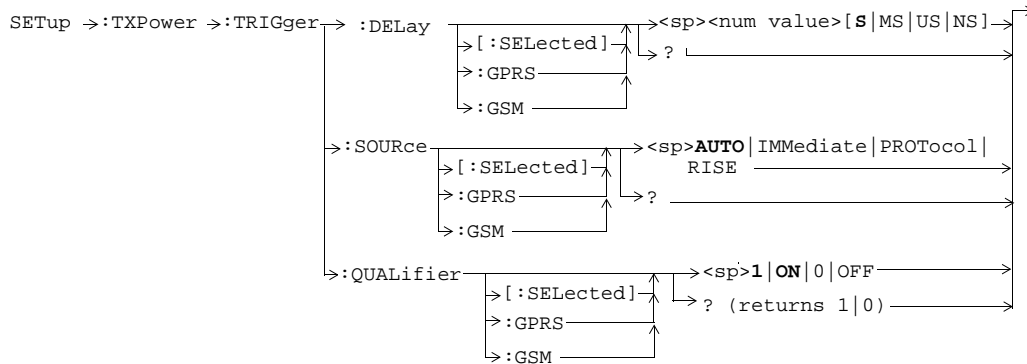
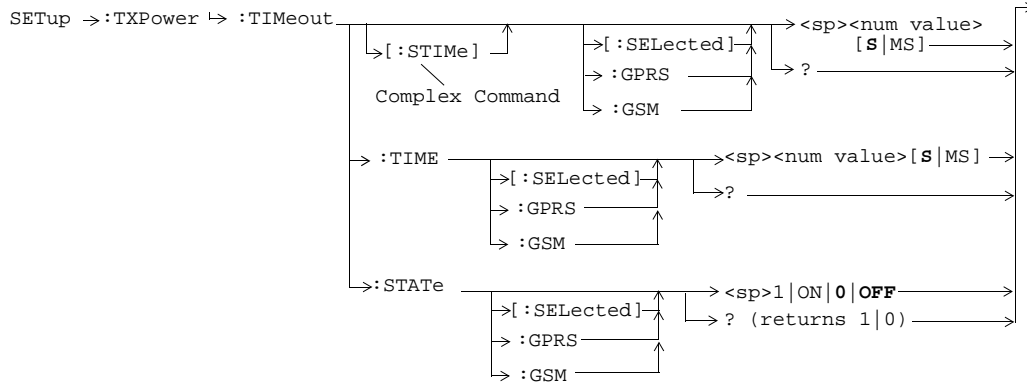


Diagram Conventions

STATUS:OPERation

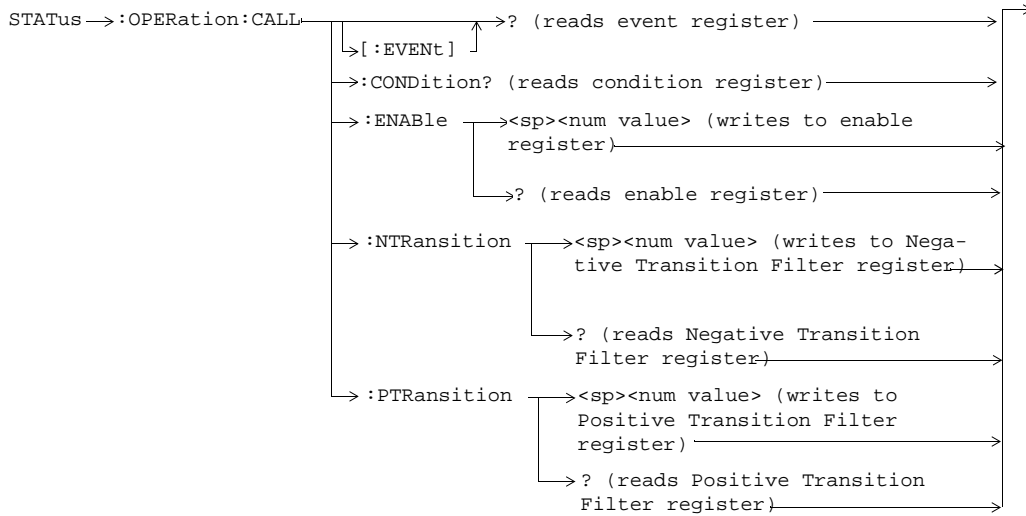
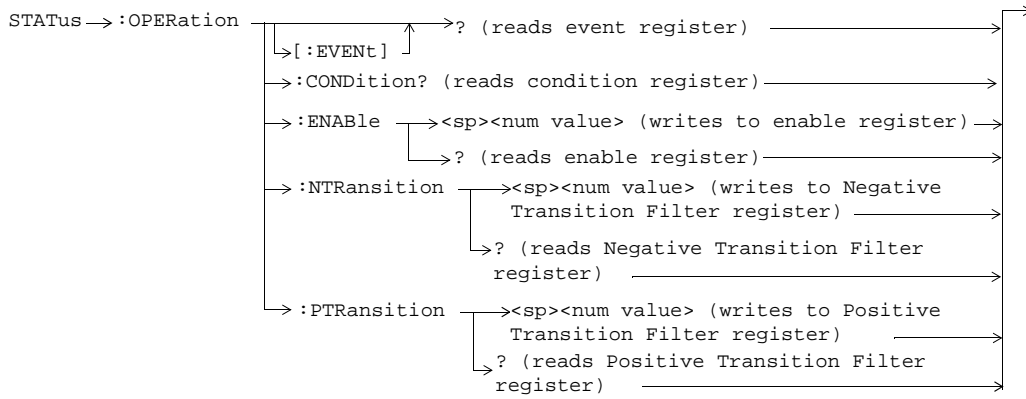


Diagram Conventions

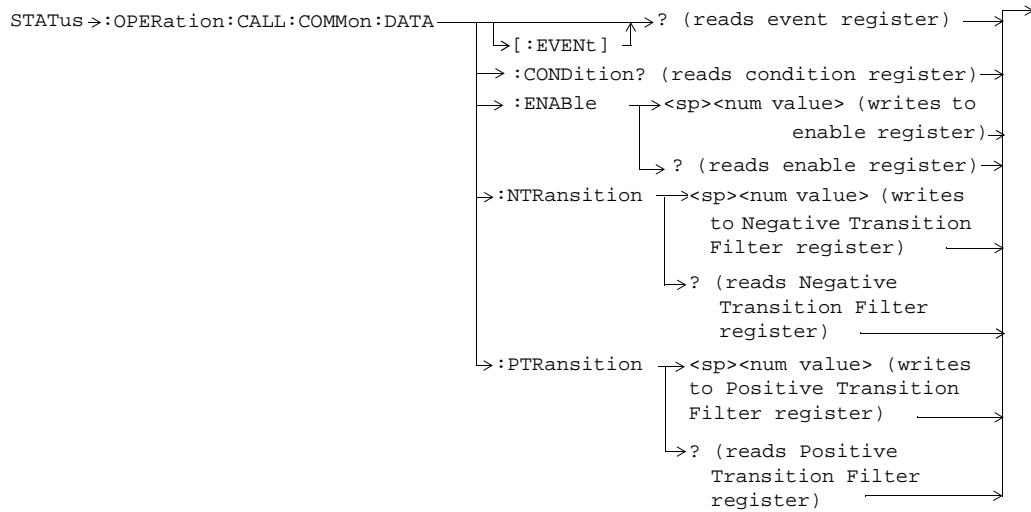
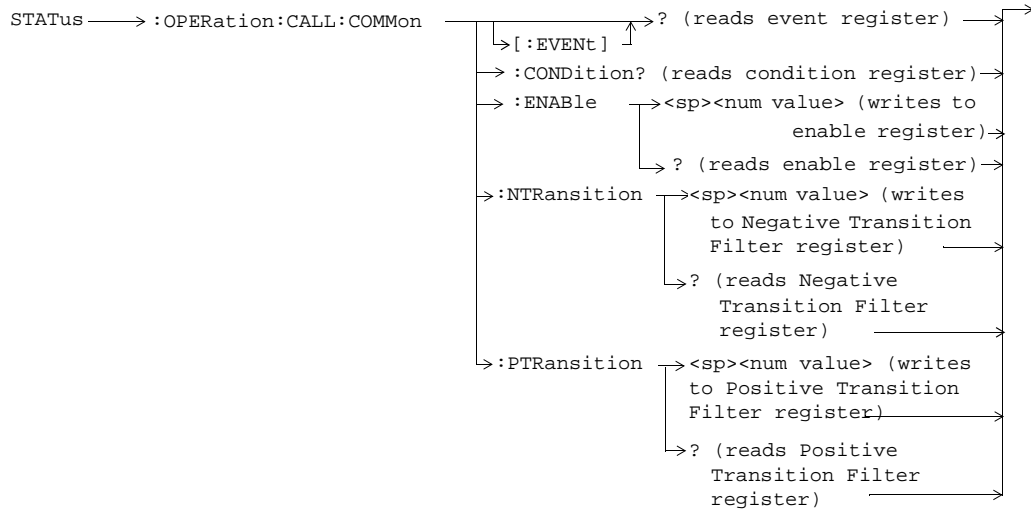
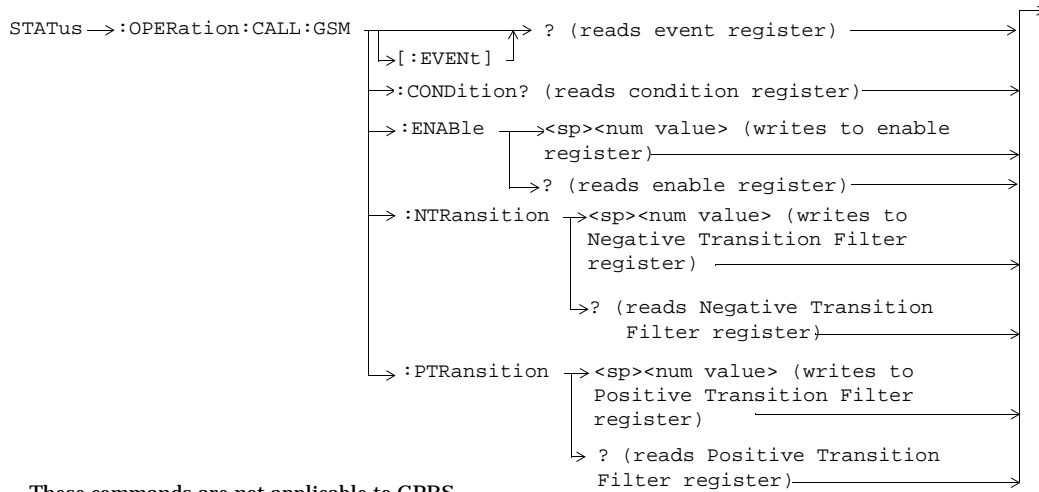
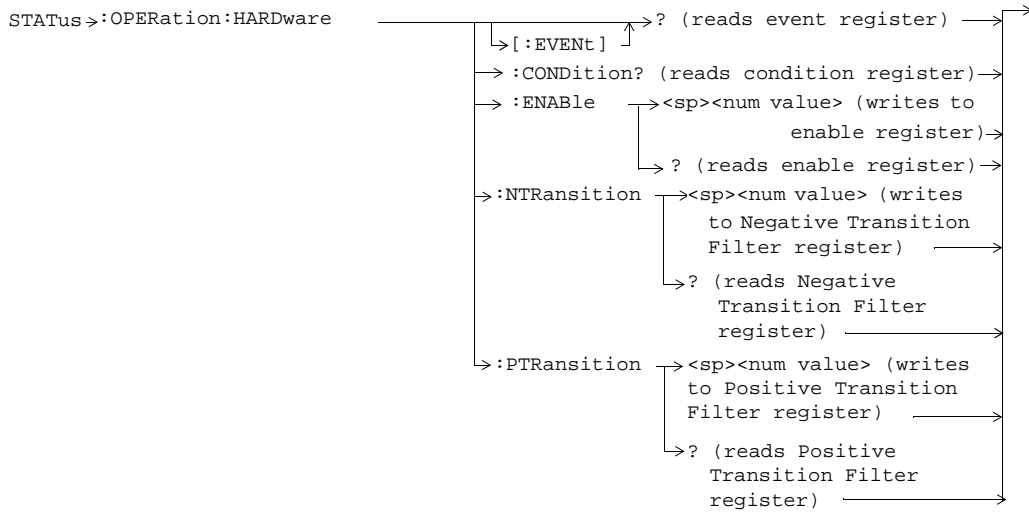


Diagram Conventions



These commands are not applicable to GPRS.



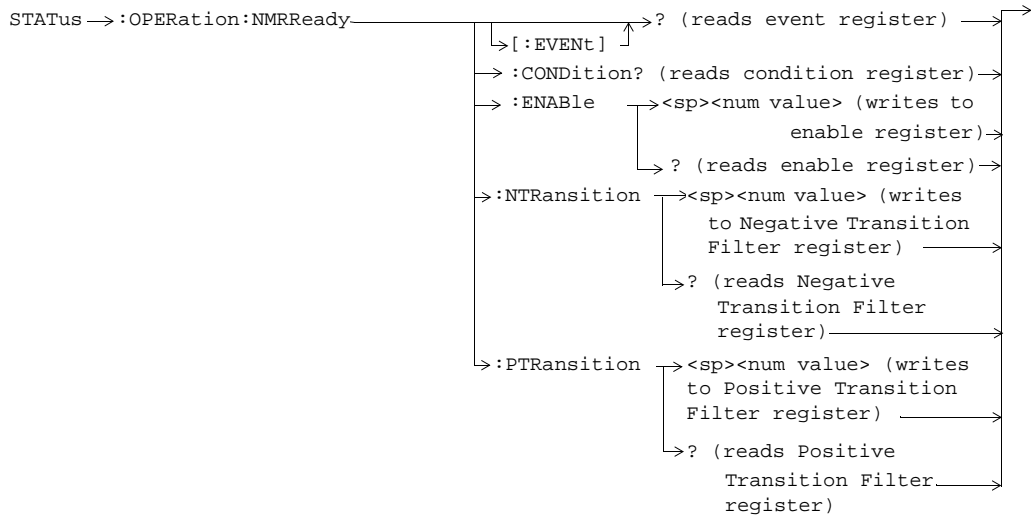
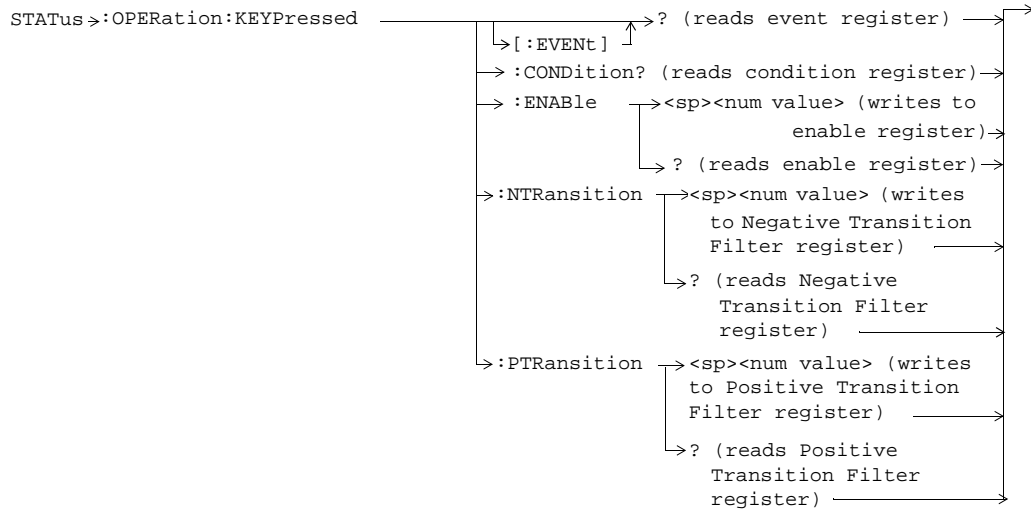
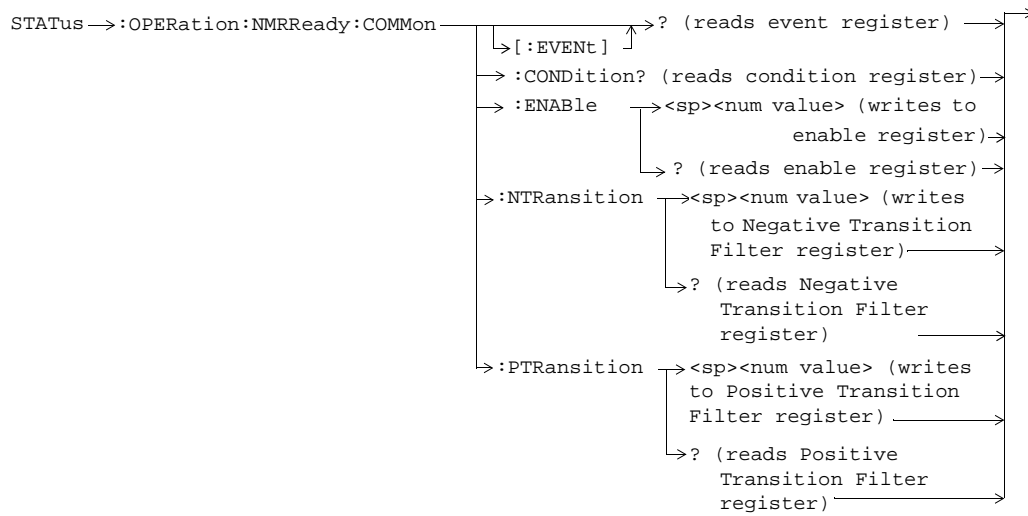
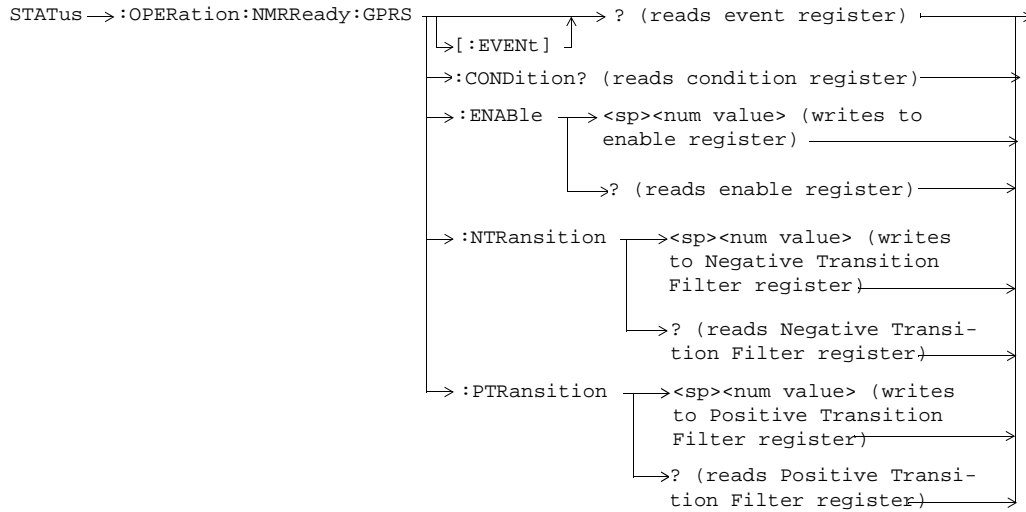
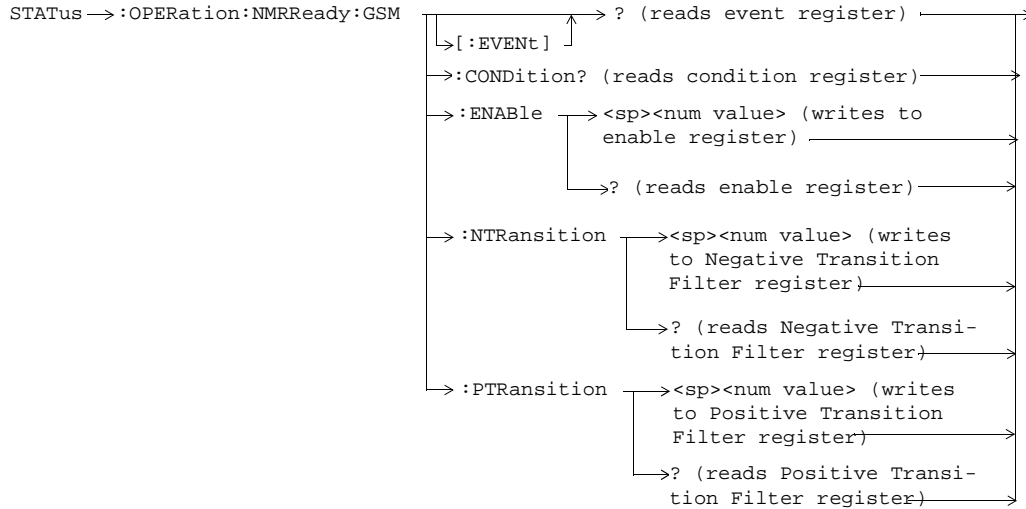


Diagram Conventions





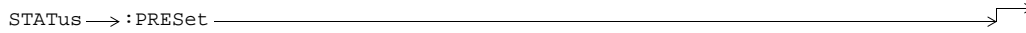
These commands are not applicable to GSM.



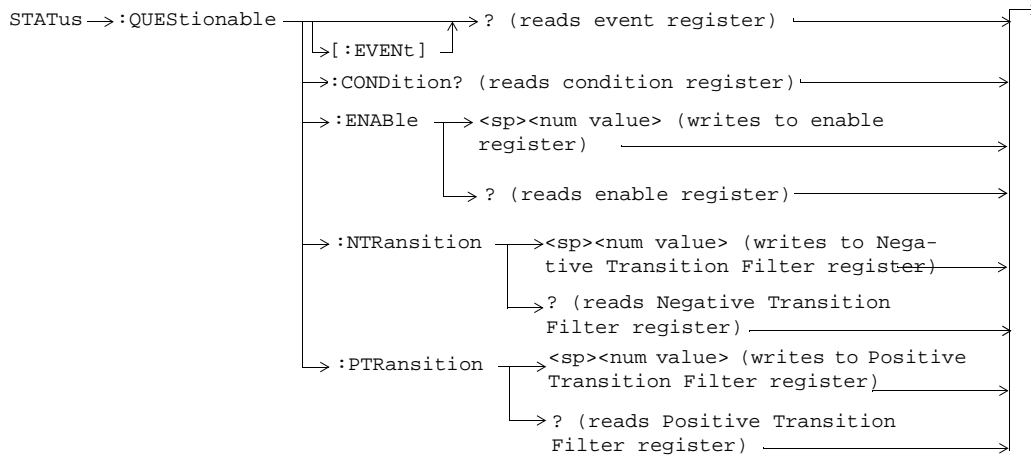
These commands are not applicable to GPRS.

Diagram Conventions

STATUS:PRESet



STATUS:QUEStionable



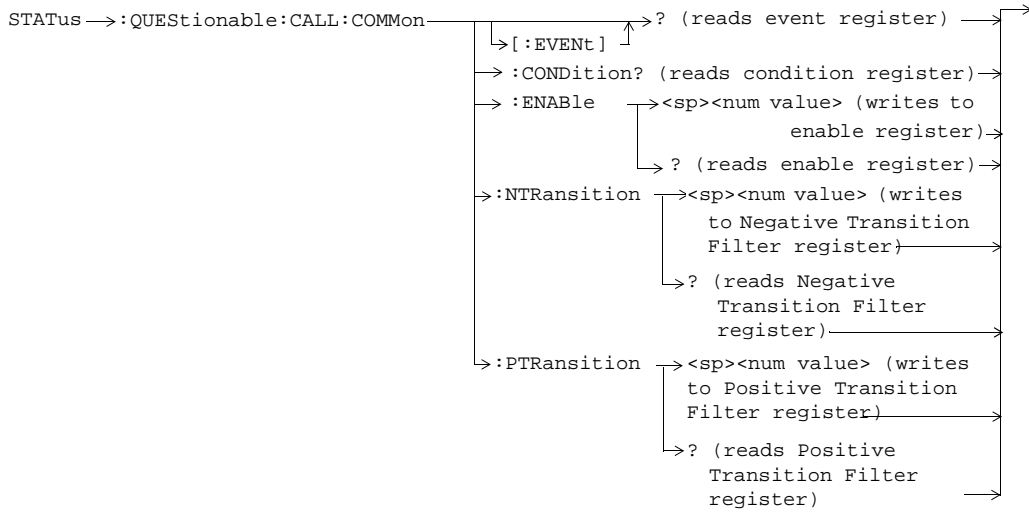
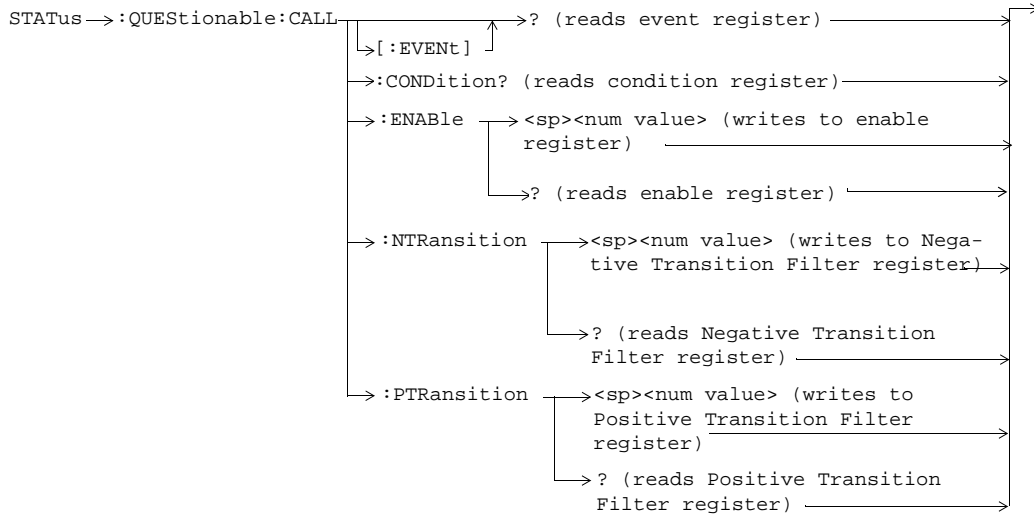
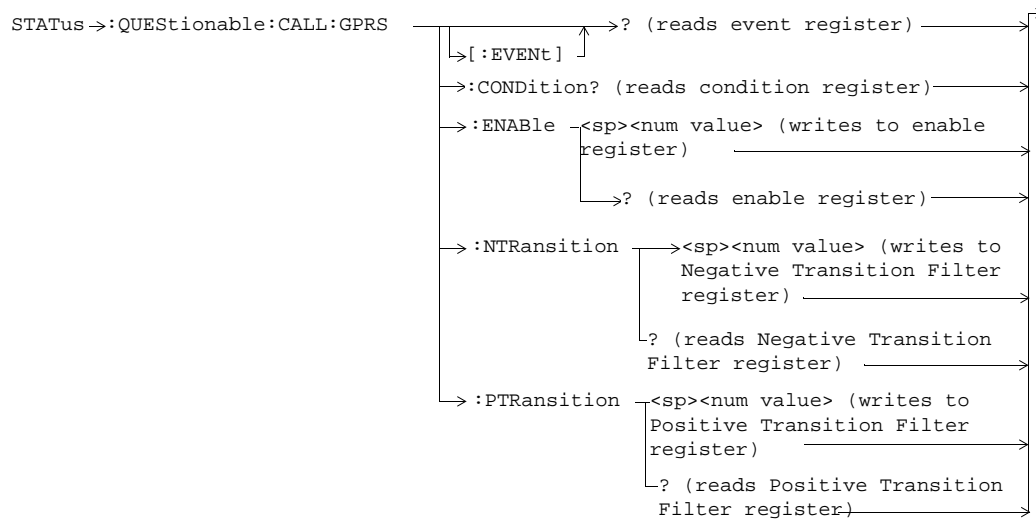


Diagram Conventions



These commands are not applicable to GSM.

Diagram Conventions

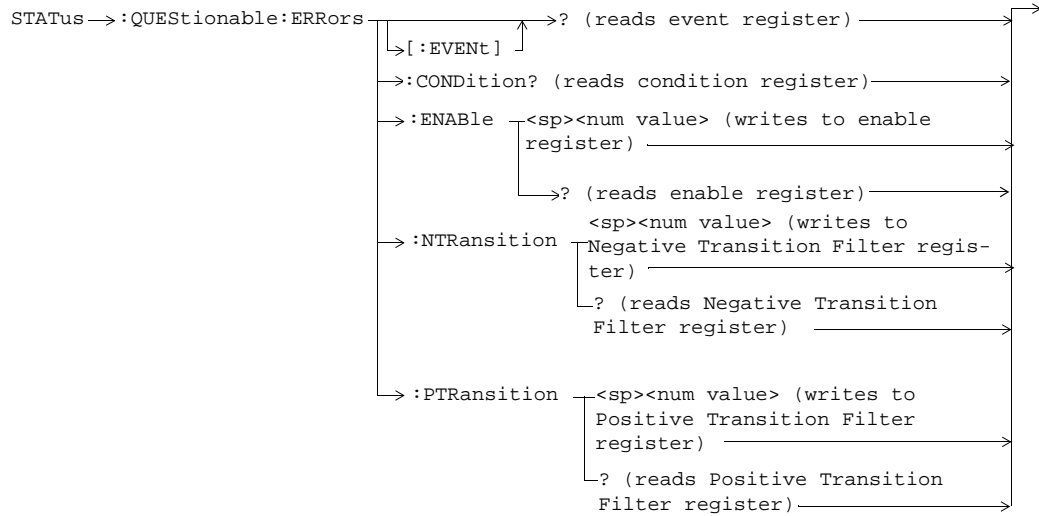
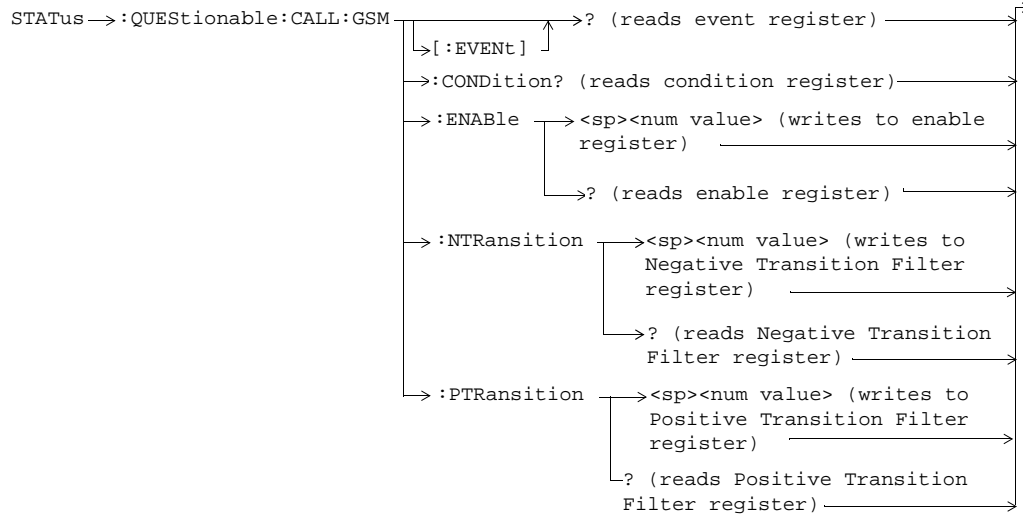
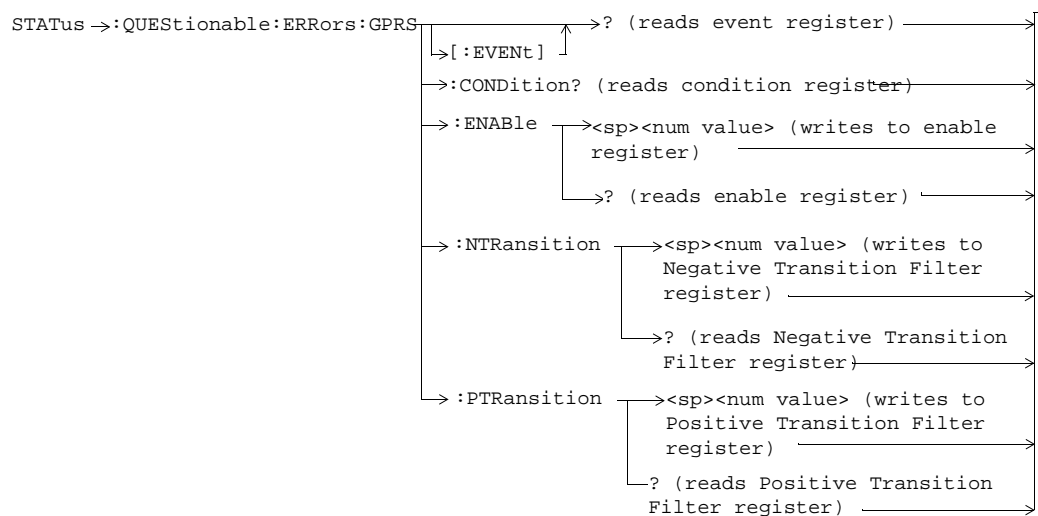
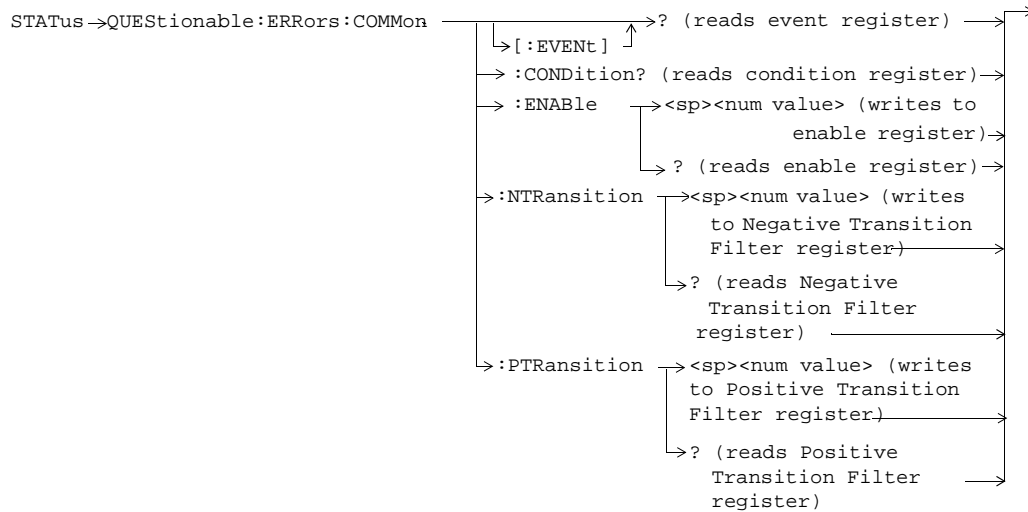
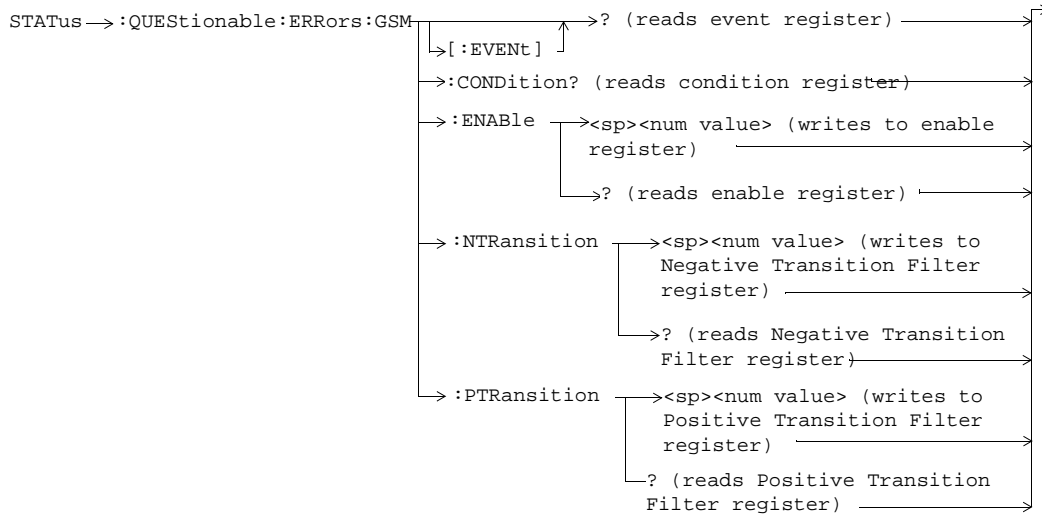


Diagram Conventions

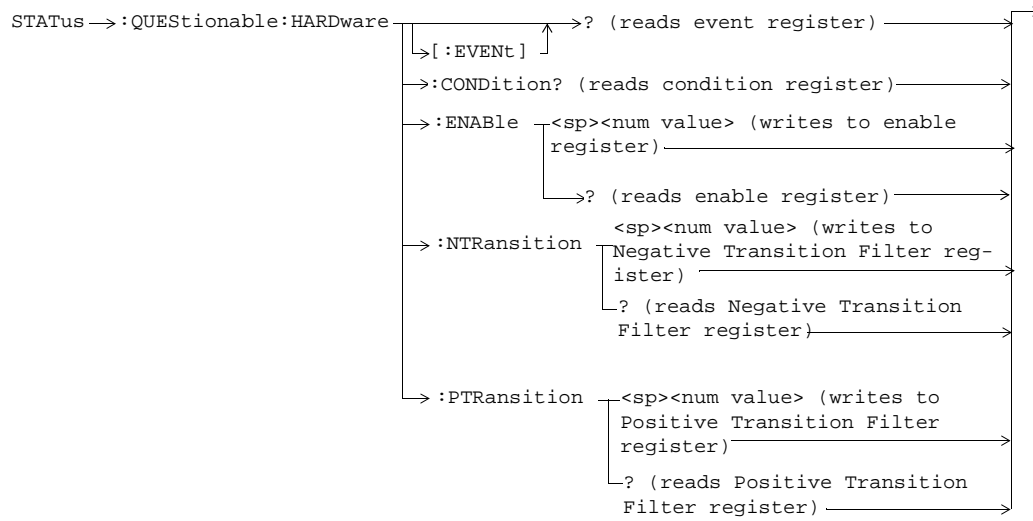


These commands are not applicable to GSM.



These commands are not applicable to GPRS.

Diagram Conventions



Status Byte Register

*STB?

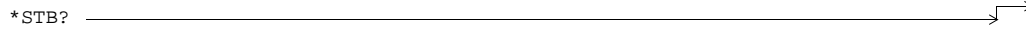
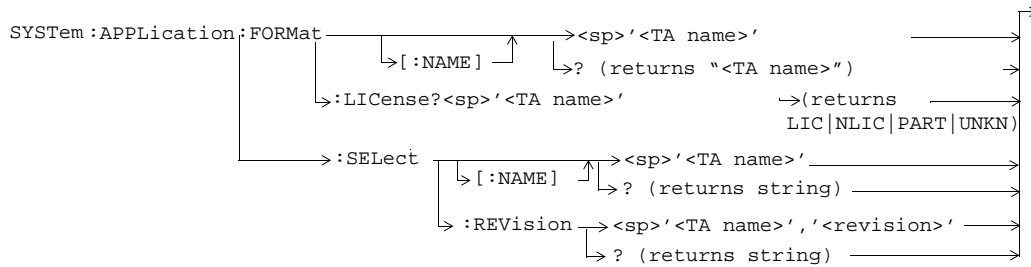
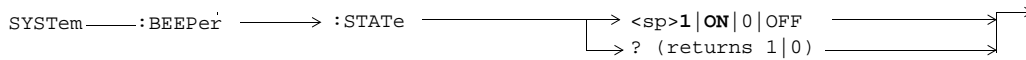


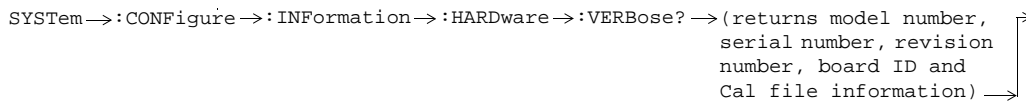
Diagram Conventions



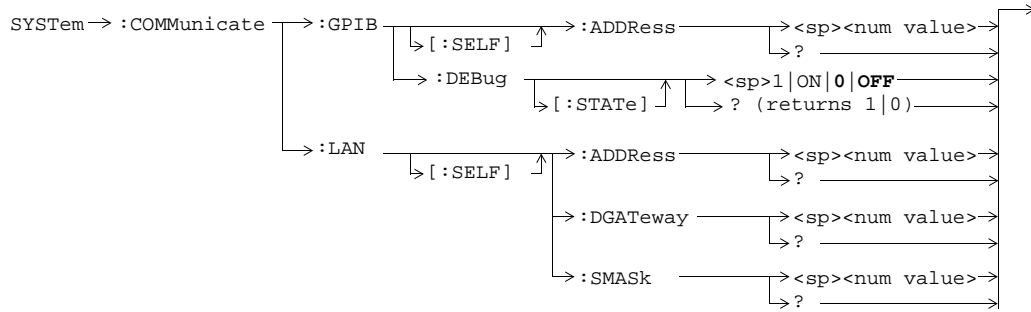
SYSTem:BEEPer



SYSTem:CONFIgure



SYSTem:COMMunicate



SYSTem:CORRection

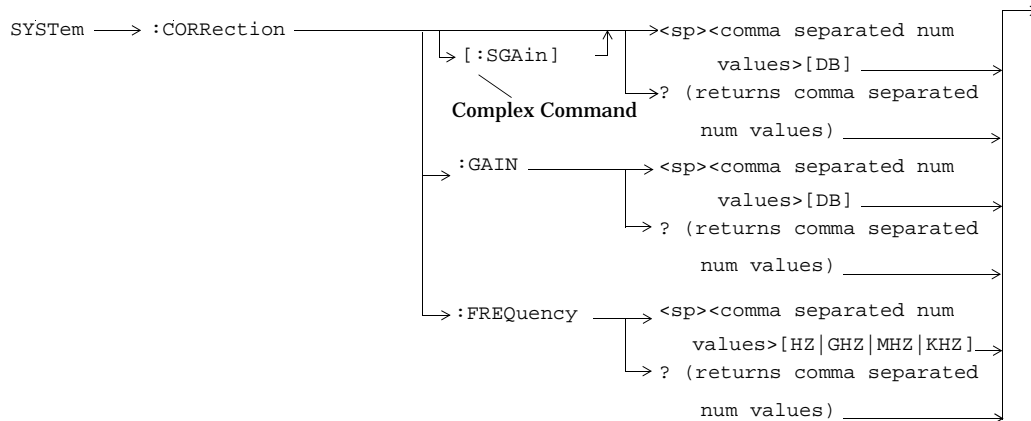
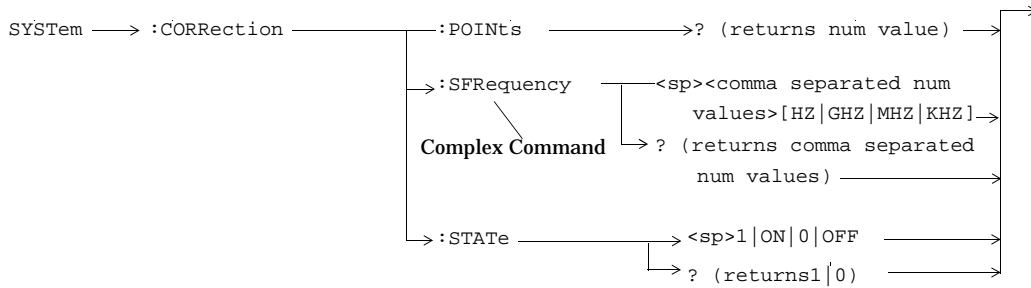
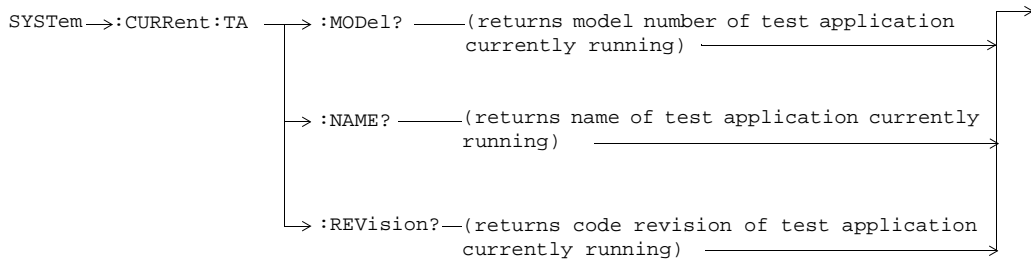


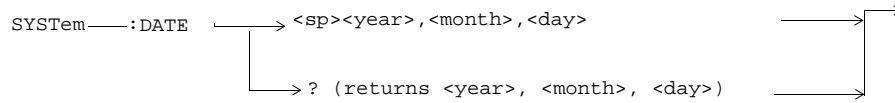
Diagram Conventions



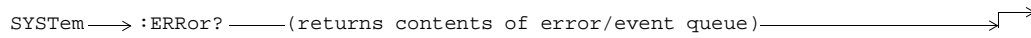
SYSTEM:CURRENT:TA



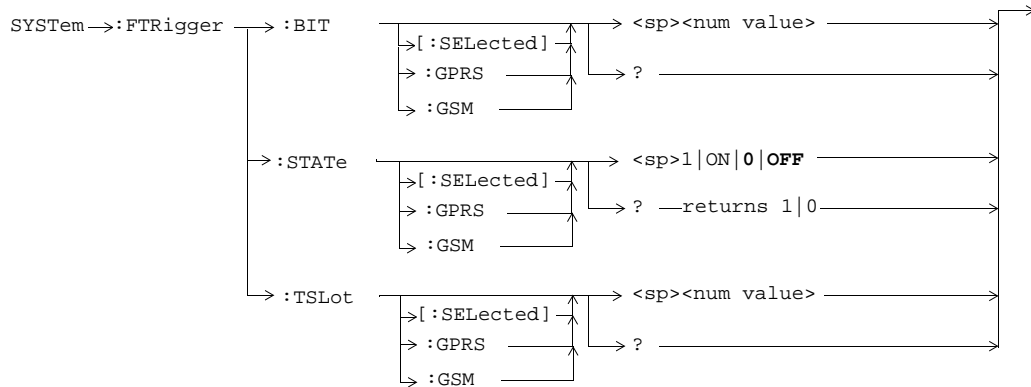
SYSTEM:DATE



SYSTEM:ERRor?



SYSTEM:FTRigger



SYSTEM:MEASurement

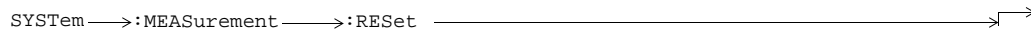
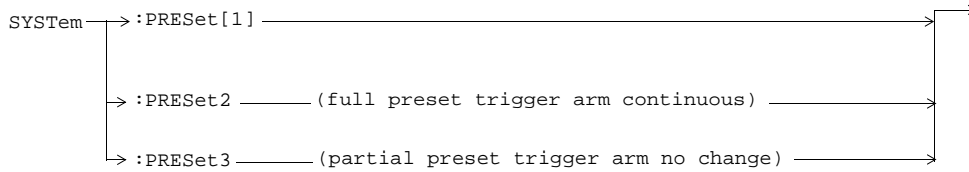
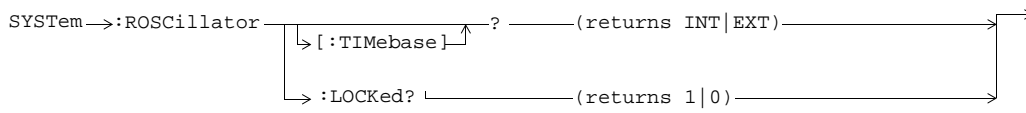


Diagram Conventions

SYSTEM:PRESet



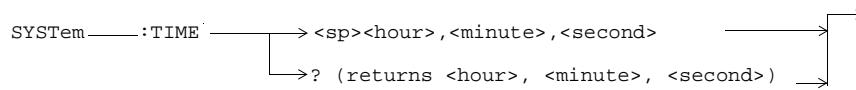
SYSTEM:ROSCillator

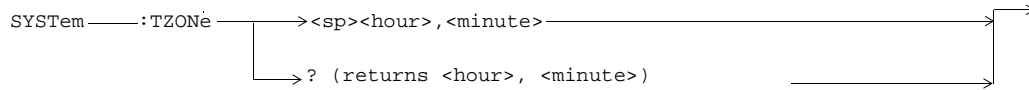
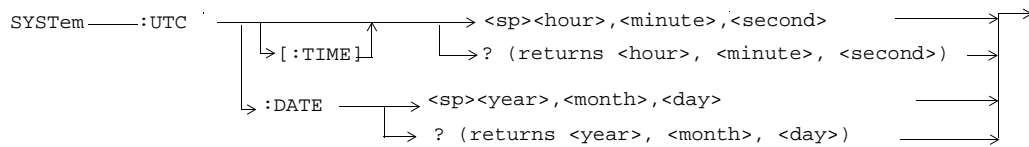


SYSTEM:SYNChronized



SYSTEM:TIME



SYSTem:TZONE**SYSTem:UTC****IEEE 488.2 Common Commands****Description*****CLS**

The *CLS, clear status command, is defined in "IEEE Std 488.2-1992", 10.3. This command will also clear and close the error message screen on the test set's display.

***ESE**

The *ESE, standard event status enable command, is defined in "IEEE Std 488.2-1992", 10.10.

***ESE?**

The *ESE?, standard event status enable query, is defined in "IEEE Std 488.2-1992", 10.11.

***ESR?**

The *ESR?, standard event status register query, is defined in "IEEE Std 488.2-1992", 10.12.

***IDN?**

The *IDN?, identification query, is defined in "IEEE Std 488.2-1992", 10.14. *IDN? is used to retrieve information about the test set in ASCII format.

*IDN?, returns ASCII codes 32 through 126 excluding comma and semicolon in four comma separated fields. Field 1 returns the manufacturer, field 2 returns the instrument model number, field 3 returns the serial

Diagram Conventions

number, field 4 returns 0.

***OPC**

The *OPC, operation complete command, is defined in "IEEE 488.2-1992", 10.18. *OPC causes the test set to continuously sense the No Operation Pending flag. When the No Operation Pending flag becomes TRUE, the OPC event bit in the standard event status register (ESR) is set to indicate that the state of all pending operations is completed. The *OPC common command is not recommended for use as an overlapped command.

***OPC?**

The *OPC?, operation complete query, is defined in "IEEE Std 488.2-1992", 10.19. The *OPC? query allows synchronization between the controller and the test set using either the message available (MAV) bit in the status byte, or a read of the output OPC?. The *OPC? query does not effect the OPC event bit in the Standard Event Status Register (ESR). The *OPC? common command is not recommended for use as an overlapped command.

***OPT?**

The *OPT?, option identification query, is defined in "IEEE Std 488.2-1992", 10.20. Each option will have a unique name, that name will be returned with the query.

***RST**

The *RST, full preset command, is defined in "IEEE Std 488.2-1992", 10.32. *RST is the recommended command when performing a full preset on the test set. A *RST restores the majority of settings to their default values.

- *RST sets trigger arm to single
- PRESet2 sets trigger arm to continuous

***SRE**

The *SRE, service request enable command, is defined in "IEEE Std 488.2-1992", 10.34. The parameter range for this command is 0 through 255.

***SRE?**

The *SRE?, service request enable query, is defined in "IEEE Std 488.2-1992", 10.35. Values returned by this query range from 0 through 255.

***STB?**

The *STB?, read status byte query, is defined in "IEEE Std 488.2-1992", 10.36. Values returned by this query range from 0 through 255.

***WAI**

The *WAI, wait-to-continue command, is defined in “IEEE Std 488.2-1992”, 10.39. The *WAI command prevents the test set from executing any further commands or queries until all pending operation flags are false. The *WAI common command is not recommended for use as an overlapped command.

Related Topics

“Call Processing Event Synchronization” on page 1

“Preset Descriptions” on page 1

Diagram Conventions

Index

Numerics

3 Digit MNC for PCS 1900, 27

A

Active Cell Status, 31
active cell, setting, 22
Active logging status, 26
Alternate Ping Address, 14
Amplitude, 7
Amplitude Offset, 85
Analog Audio Setup, 52
analog audio setup, 52
Application Selection, 83
Application Setup, 83
Application Switch, 83
Application, Revision, License, 83
ARFCN
 PDTCH, 24
Attached state, 8
Audio Analyzer
 Audio Frequency, 35
Audio Frequency, 35

B

BA Table, 8
Band Pass Filter Frequency
 AAUD, 52
 DAUD, 55
base station colour code, 10, 28
BCC (Base Station Colour Code),
 10, 28
BCH number, 11
Beeper State, 84
Bit Error Setup, 54
 GPRS, 58
BLER
 data connection type, 16
BLER (Block Error Rate), 31
BLER Block Polling Interval, 16
Block Delay, 58
Broadcast Chan, 11
Buffer Operation
 Cyclic, 26
 Linear, 26
Burst Synchronization
 PFER, 64
Burst Synchronization
 PVT, 66
Burst Timing Error
 GPRS, 31
 GSM, 31

C

calibrate IQ modulators, 7
calibration date, querying, 7
call connected query, 12

call state detector, 12, 15
Call Status, 31
Cell Activated State, 8
Cell Band, 10
Cell Info
 Cell Parameters, 10, 17, 18, 22,
 27, 28
Cell Parameters, 10, 17, 18, 22,
 27, 28
 BCC (Base Station Colour
 Code), 10
 LAC (Local Area Code), 17
 MCC (Mobile Country Code), 18
 MNC (Mobile Network Code),
 18
 for PCS band, 27
 NCC (Network Colour Code), 22
 RAC (Routing Area Code), 28
Cell Power, 28
Cell Power State, 28
Coding Scheme, 24
Corrupted Bursts, 8, 13, 17, 33
Counters, 13
Cyclic, 26

D

Data Conn Type, 16
data connected query, GPRS, 15
data connection state
 attached, 8
 transferring, 33
Data Connection Status, 31
Data Connection Type, 16
Date (yyyy.mm.dd), 87
date of calibration, querying, 7
debug feature, 6
Decode Errors, 8, 13, 17, 33
Decoded Audio Setup, 55
Deferred Parameters, setup, 29
Detach mobile, 16
Device to Ping, 14
discontinuance reception mode,
 23
Display mode, 33
Downlink Traffic Power, 25
DRX, 23
DUT IP Address, 19
DUT IP RX Bytes, 13
DUT IP RX Packets, 13
DUT IP TX Bytes, 13
DUT IP TX Packets, 13
DUT PDP Setup
 DUT IP Address, 19
dynamic power setup, 56

E

End Call, 15

End Data Connection, 16
ETSI Type A, data connection
 type, 16
ETSI Type B, data connection
 type, 16
Expected Audio Amplitude, 52
Expected Burst, 12
Expected Maximum Difference
 Dynamic Power, 56
Expected Peak Audio Amplitude,
 52
Expected Power, 50
Expected Power Control (receiver
 control), 51
External trigger Bit Position, 87
External trigger state, 87
External trigger Timeslot, 87

F

fast bit error results, 39
FBER Setup, 57
First Burst to Loop, GPRS, 24
for call connection, 12, 15
Format Switch, 84
Frequency, 7
frequency error results, 41

G

Get IMEI at Call Setup, 17
GMM/SM, 26
GPRS Bit Error Setup, 58
GSM_L3, 26
Guard Period Length, 21

H

Handover Execute, 17
Handover Setup
 Uplink State Flag, 30
Handover Setup, GPRS, 29
handover, making a, 17
HP-IB Address, 85

I

I/Q Tuning Setup, 58
Idle logging status, 26
IMEI, 17
initiate measurements, 47
IP, 26
IP Data, data connection type, 16
IQ Tuning results, 40

L

L1_Interface, 26
LAC (Local Area Code), 17
LAC (Location Area Code), 17

Index

- LAN IP Address, 85
- license, 84
- Linear, 26
- LLC, 26
- LLC Frame Check Sequence, 16
- location area code, 17
- Logging
 - Active, 26
 - Idle, 26
- M**
- Manual Band, 50
- Manual Channel, 50
- Manual Frequency, 50
- Max Frames Allowed for
 - Assignment, 8, 13, 17, 33
- MCC (Mobile Country Code), 18
- Measurement Burst, selecting for
 - GPRS, 51
- Measurement Frequency
 - Auto (receiver control), 51
 - manual (receiver control), 51
- Measurement Log, 87
- Measurement Offsets
 - PVT, 67
 - PVT, GPRS, 67
- Measurement Timeout
 - AAUD, 52
 - BERR, 54, 58
 - DAUD, 55
 - Dynamic Power, 56
 - FBER, 57
 - I/Q Tuning, 58
 - ORFS, 63
 - PFER, 65
 - PVT, 67
 - TXP, 69
- Measurement Type, 54
- Measurement Unit, 37
- measurements
 - initiate, 47
 - starting, 47
- Missing Bursts, 8, 13, 17, 33
- MNC (Mobile Network Code), 18
 - for PCS band, 27
- mobile country code, 18
- Mobile Loopback, 33
- mobile network code, 18
- Modulation Offset
 - ORFS, 61
- Modulation Offset #
 - ORFS, 61
- MS TX Level, GPRS, 24
- Multi-Measurement Count
 - I/Q Tuning, 58
 - PFER, 64
 - PVT, 66
- TXP, 68
- Multi-Measurement Count (Modulation)
 - ORFS, 61
- Multi-Measurement Count (Switching)
 - ORFS, 62
- Multi-measurement Count
 - Decoded Audio, 55
- Multislot Configuration, 24
- N**
- NCC (Network Colour Code), 22
- network colour code, 22
- Number of bits to test
 - BERR, 54, 58
 - FBER, 57
- Number of Bursts
 - Dynamic Power, 56
- O**
- Observation Points
 - GMM/SM, 26
 - GSM_L3, 26
 - IP, 26
 - L1 Interface, 26
 - LLC, 26
 - RLC/MAC, 26
 - SNDCP, 26
- Operating Mode, 22
- ORFS results, 40
- Originate Call, 23
- P**
- Packet Data Traffic Channel, 24
- Packet Loss, 14
- Packet Power Timing Advance, 25
- Packet Timeslot Reconfigure, 25
- Packets Received, 14
- Packets Transmitted, 14
- Pages, 8, 13, 17, 33
- paging
 - IMSI, 23
 - mode, 23
 - multiframes, 23
 - repeat, 23
- Paging IMSI, 23
- PDTCH
 - Absolute Downlink Power, 25
 - ARFCN, 24
 - Band, 24
 - downlink power control, 25
 - MS TX Level, 24
 - P0 reference level, 25
- PDTCH Protocol Control
 - Packet Power Timing Advance, 25
- Phase & Freq Setup, 64
- phase and frequency error results,
 - 41
- Ping, 14
- Ping Count, 14
- Ping Setup
 - Alternate Ping Address, 14
 - Device to Ping, 14
 - Ping Count, 14
 - Ping Timeout, 14
- Ping Timeout, 14
- power versus time results
 - GPRS, 45
 - GSM, 43
 - mask error code for GPRS, 44
- Power vs Time Measurement
 - Setup, 66
 - preset, 76
 - programming, debug feature, 6
- Protocol Logging, 26
- Pulse, 7
- R**
- RAC (Routing Area Code), 28
- RACHs, 8, 13, 17, 33
- reading results, 48
- Receiver Control, 50
 - Expected Power Control, 51
 - Measurement Frequency
 - Auto, 51
 - manual, 51
 - Uplink Frequency
 - Auto, 51
 - manual, 51
- Receiver Control, GPRS, 50, 51
- Reference Offset Frequency
 - I/Q Tuning, 58
- Repeat Paging, 23
- results
 - fast bit error, 39
 - GPRS power versus time, 45
 - GSM power versus time, 43
 - I/Q Tuning, 40
 - ORFS, 40
 - phase and frequency error, 41
 - READ, 48
 - transmit power, 46
- Rev. License, 83
- revisions, 84
- RF generator, 28
- RF generator calibration, 7
- RLC/MAC, 26
- RLC/MAC Header, GPRS, 23
- Round Trip (ms) min/avg/max, 14

Index

S

setup
 analog audio, 52
 dynamic power, 56
 signalling control, 8
SNDCCP, 26
Speech, 33
Speech Frames Delay, 54
Start Data Connection, 16
Start Logging, 26
start measurements, 47
Start Ping, 14
status byte, 82
status operation subsystem, 70
Stop Logging, 26
Stop Ping, 14
Summary Results
 Packet Loss, 14
 Packets Received, 14
 Packets Transmitted, 14
 Round Trip (ms) min/avg/max,
 14
Switching Offset
 ORFS, 62
synchronization, 12

T

TBF Frame Starting Position, 16
TDMA Frames Delay, 57
test application, 84
test applications installed, 84
Test Function, 16
test modes, setting, 22
Test Set Initiated Detach, 16
Time (hh.mm), 88
Time Offset
 PVT, 67
Time Offset for each burst
 PVT, GPRS, 67
Time Zone (hh.mm), 89
timeout, 12, 15
 for call connection, 12
 for data connection, 15
Timeslot, 33
Traffic Band, 32
Traffic Band, GPRS, 24
Traffic Channel, 32
Traffic Channel, GPRS, 24
Transferring state, 33
transmit power results, 46
Trigger Arm
 AAUD, 52
 BERR, 54, 58
 DAUD, 55
 FBER, 57
 I/Q Tuning, 58
 ORFS, 61
 PFER, 65
 PVT, 66
 TXP, 68
Trigger Delay
 I/Q Tuning, 58
 ORFS, 63
 TXP, 69
Trigger Qualifier
 PFER, 65
 TXP, 69
Trigger Source
 I/Q Tuning, 58
 ORFS, 63
 PFER, 65
 PVT, 68
 TXP, 69
triggering, 55
TX Power Setup, 68

U

Universal Coordinated Time
 (UTC), 89
Universal Coordinated Time
 (UTC) Date, 89
Uplink Frequency
 Auto (receiver control), 51
 manual (receiver control), 51
Uplink State Flag
 Handover Setup, 30
Use 3 Digit MNC for PCS 1900, 27