

ADDENDUM 1
to
DIGITAL CLOCK DISTRIBUTOR
500 SERIES
INPUT/OUTPUT REFERENCE GUIDE
RELEASE 5.03.xx

1. GENERAL

1.001 This is an addendum to Issue 2 of Telecom Solutions' Digital Clock Distributor 500 Series Input/Output Reference Guide Release 5.03.xx (part number 097-45018-15) which is part of the TL1 User's Guide (997-45018-06). Place this addendum in front of Issue 2 of the Input/Output Reference Guide, Release 5.03.xx.

1.002 Whenever this addendum is reissued, the reason for reissue will be given in this paragraph.

2. CHANGES

2.001 The changes listed below were made. Changed areas are marked by change bars.

- On Page 30, a caution was added to the trouble-code parameter for TO cards in the ED-EQPT command.

- On Page 76, a caution was added to the trouble-code parameter for TO cards in the RTRV-EQPT command
- On Page 86, the RTRV-PM-PORT command format was modified.
- On Page 101, the SET-ATTR-PORT command format was modified.

2.002 To implement the changes in the previous paragraph, do the following:

- Replace pages 29/30 of Issue 2 of 097-45018-15 with the attached pages 29/30.
- Replace pages 75/76 of Issue 2 of 097-45018-15 with the attached pages 75/76.
- Replace pages 85/86 of Issue 2 of 097-45018-15 with the attached pages 85/86.
- Replace pages 101/102 of Issue 2 of 097-45018-15 with the attached pages 101/102.

COMMAND CODE: ED-EQPT

PURPOSE

EDIT EQUIPMENT

This command changes equipment parameters.

INPUT FORMAT

ED-EQPT:[<tid>]:<aid>:<ctag>:: [<framing>], [<troublecode>],
 [<portseverity>], [<osc1>], [<osc2>], [<integration>];

Any parameter left blank causes no change to that parameter. The parameter values in the table below are as follows:

a = 1-2 b = 1-12 (1-10 for TOTA-5)

aid	parameter	value	meaning
GTI-a	framing	CAS	channel assigned sequence
		CAS4	channel assigned sequence with frame aligned sequence with cyclic redundancy check 4
		CRC4	frame alignment sequence framing with cyclic redundancy check 4
		D4	D4 framing format
		ESF	ESF framing format
		FAS	frame alignment sequence framing
	troublecode	INH	all outputs are squelched when card has major alarm
		ALW	AIS is sent on all outputs when card has major alarm
	portseverity	(null)	(not applicable)
	osc1	RB	oscillator 1 (OSC A) is rubidium clock
		QTZ	oscillator 1 (OSC A) is quartz clock
	osc2	RB	oscillator 2 (OSC B) is rubidium clock
		QTZ	oscillator 2 (OSC B) is quartz clock
	integration	1	see Table E
		2	see Table E
		3	see Table E
		4	see Table E

COMMAND CODE: ED-EQPT (Contd)

INPUT FORMAT (Contd)

aid	parameter	value	meaning
MRC-a	framing	(null)	(not applicable)
	troublecode		
	portseverity		
	osc1	RB	oscillator 1 (OSCA) is rubidium clock
		QTZ	oscillator 1 (OSCA) is quartz clock
		NONE	oscillator 1 (OSCA) is not equipped
	osc2	RB	oscillator 2 (OSCB) is rubidium clock
		QTZ	oscillator 2 (OSCB) is quartz clock
NONE		oscillator 2 (OSCB) is not equipped	
integration	(null)	(not applicable)	
TO-b	framing	CAS	channel assigned sequence
		CAS4	channel assigned sequence with frame aligned sequence with cyclic redundancy check 4
		CRC4	frame alignment sequence framing with cyclic redundancy check 4
		D4	D4 framing format
		ESF	ESF framing format
		FAS	frame alignment sequence framing
	troublecode	INH	all outputs are squelched upon card failure
		ALW	AIS is sent on all outputs upon card failure Caution: If any port on the card is set for ANALOG, the trouble-code must be set to INH.
	portseverity	MJ	port failure causes major alarm
		MN	port failure causes minor alarm
	osc1	(null)	(not applicable)
	osc2		
	integration		

COMMAND CODE: RTRV-EQPT (Contd)

RESPONSE FORMAT (Contd)

aid	parameter	value	meaning
CLK-a	framing	(null)	(not applicable)
	troublecode		
	portseverity		
	osc1		
	osc2		
	integration		
GTI-a	framing	CAS	channel assigned sequence
		CAS4	channel assigned sequence with frame aligned sequence with cyclic redundancy check 4
		CRC4	frame alignment sequence framing with cyclic redundancy check 4
		D4	D4 framing format
		ESF	ESF framing format
		FAS	frame alignment sequence framing
	troublecode	INH	all outputs are squelched when card has major alarm
		ALW	AIS is sent on all outputs when card has major alarm
	portseverity	(null)	(not applicable)
	osc1	RB	oscillator 1 (OSC A) is rubidium clock
		QTZ	oscillator 1 (OSC A) is quartz clock
	osc2	RB	oscillator 2 (OSC B) is rubidium clock
		QTZ	oscillator 2 (OSC B) is quartz clock
	integration	1	see Table E
		2	see Table E
		3	see Table E
		4	see Table E
	LTI-a	framing	(null)
troublecode			
portseverity			
osc1			
osc2			
integration			

COMMAND CODE: RTRV-EQPT (Contd)

RESPONSE FORMAT (Contd)

aid	parameter	value	meaning
MRC-a	framing	(null)	(not applicable)
	troublecode		
	portseverity		
	osc1	RB	oscillator 1 (OSCA) is rubidium clock
		QTZ	oscillator 1 (OSCA) is quartz clock
		NONE	oscillator 1 (OSCA) is not equipped
	osc2	RB	oscillator 2 (OSCB) is rubidium clock
		QTZ	oscillator 2 (OSCB) is quartz clock
		NONE	oscillator 2 (OSCB) is not equipped
	integration	(null)	(not applicable)
PSM -b	framing	(null)	(not applicable)
	troublecode		
	portseverity		
	osc1		
	osc2		
	integration		
	TO-c		
CAS4		channel assigned sequence with frame aligned sequence with cyclic redundancy check 4	
CRC4		frame alignment sequence framing with cyclic redundancy check 4	
D4		D4 framing format	
ESF		ESF framing format	
FAS		frame alignment sequence framing	
troublecode		INH	all outputs are squelched upon card failure
		ALW	AIS is sent on all outputs upon card failure Caution: If any port on the card is set for ANALOG, the trouble-code must be set to INH.
portseverity		MJ	port failure causes major alarm
		MN	port failure causes minor alarm
osc1		(null)	(not applicable)
osc2			
integration			

COMMAND CODE: RTRV-LOG (Contd)

EXAMPLE

Input:

RTRV-LOG:::115::LOG;

Response:

```
SANJOSE-114 1998-01-08 16:11:28
M 115 COMPLD
"LOG"
/*
"1998-01-07 11:06:42 INIT-LOG:::1::LOG"
"SANJOSE-114:1998-01-18 16:35:26 PSM-1-4:MN,OOF,NSA:
/* OOF DETECTED */"
"SANJOSE-114:1998-01-18 16:41:34 CLK-1:ACTIVE,SC:
/* CLOCK IS SUPPLYING SIGNAL */"
*/
;
```

This example, tagged as command 115, displays all event information stored in the event log in the MIS card.

COMMAND CODE: RTRV-PM-PORT

PURPOSE

RETRIEVE PERFORMANCE MONITORING PORT

This command displays the current set of PM data for one or more facilities. The PM data may be used to examine events that are not reported by automatic messages, or to evaluate the system after maintenance operations. PM data is retrieved from the specified time period to the current time period.

INPUT FORMAT

```
RTRV-PM-PORT:[<tid>]:<aid>:<ctag>::<montype>,,,,[<mondatt>],
[<montm1>|<montm2>];
```

The output parameter values in the table below are as follows:

a = 1-2 b = 1-4 c = 1-11

aid	parameter	value	meaning
MRC-a-b	montype	ALL	all montypes for this <aid>
		BPV	bipolar violations
		CRC	cyclic redundancy check errors
	mondatt	(null)	current day
	montm1	(null)	current time

COMMAND CODE: SET-ATTR-PORT

PURPOSE

SET ATTRIBUTE PORT

This command sets the notification code associated with the specified event. This attribute governs whether the event is reported automatically. Alarmed events are reported automatically by the REPORT ALARM message. Non-alarmed events are reported automatically by the REPORT EVT message.

INPUT FORMAT

SET-ATTR-PORT: [<tid>]:<aid>:<ctag>::<ntfcncde>,<condtype>;

The parameter values in the table below are as follows:

a = 1-2 b = 1-4 or ALL c = 2-4 (c > b) d = 1-11

aid	ntfcncde	condtype	meaning
MRC-a-b[&&-c]	CR, MJ, MN, NA, or NR	AIS	alarm indication signal
		BPV	bipolar violations
		CRC	cyclic redundancy check errors
		FFREQ	fractional frequency threshold exceeded
		LOS	loss of signal
		OOF	out of frame errors
		ALL	all condtypes

COMMAND CODE: SET-ATTR-PORT (Contd)

INPUT FORMAT

aid	ntfcncde	condtype	meaning
PSM-d-b[&&-c]	CR, MJ, MN, NA, or NR	AIS	alarm indication signal
		ALL	all condtypes
		BPV	bipolar violations
		CRC	cyclic redundancy check errors
		LOS	loss of signal
		MTIE1	1 second threshold
		MTIE4	4 second threshold
		MTIE16	16 second threshold
		MTIE64	64 second threshold
		MTIE128	128 second threshold
		MTIE512	512 second threshold
		MTIE900	900 second threshold
		TDEV1	1 second threshold
		TDEV4	4 second threshold
		TDEV16	16 second threshold
		TDEV64	64 second threshold
TDEV128	128 second threshold		

EXAMPLE

Input:

```
SET-ATTR-PORT::MRC-1-4:137::MJ,AIS;
```

Response:

```
SANJOSE-114 1997-12-08 15:04:13
M 137 COMPLD
;
```

This example, tagged as command 137, sets the alarm indication signal to a major alarm on span 4 of MRC 1.