Command: OPR-LPBK-T1

Message category: Network Maintenance
Application: Add/Drop, Rings

Definition:

Operate loopback test on a DS1 port (facility).

Restrictions:

All parameters in this command are position-defined. The port must be in maintenance state (OOS-MT) to operate a loopback test. The RLS-LPBK-T1 command is used to release the loopback test.

Function:

To operate a loopback test on a DS1 port.

Command Format:

OPR-LPBK-T1:[tid]:aidt1:[ctag]::[locn],[orgn],,[lpbktype],[rqsttype];

Command Parameters	
PARAMETER	**EXPLANATION**
[tid]	Identification of the target NE (1...20 characters). The NE SID code is the recommended value. The default value is null.
aidt1	The access identification code which is used to identify a DS1 from which the alarms are to be retrieved. The parameter may be preceded with "AID=", although it is not required. Enter the aid by substituting lower-case parameters with the values: dgx-T1-ds1port Sequential VT1/T1 dgx-T1-vtgrp-vtno Grouped VT1/T1 where: dgx = DG1, DG2, DG3 ds1port = 1...28 vtgrp = 1...7 vtno = 1...4 ***NOTE:*** *The T1/VT1 AID format is determined by the VTFORMAT parameter of the*

	SET-NE-ALL command. The *RTRV-COND-COM* command reports the AID format currently used by the NE. See Appendix *F* for details.
[ctag]	Correlation tag (1...6 characters) that links an input command with associated output responses. The default is 0.
[locn]	Location where the loopback test occurs. Valid values are: FEND Far end NEND Near end (Alcatel factory default)
[orgn]	Origin of the signal to be looped back. Valid values are: FEND Far end NEND Near end (Alcatel factory default)
[lpbktype]	Point at which signal is looped back. Valid values are: FACILITY Signal is looped back at the facility TERMINAL Signal is looped back at the terminal (Alcatel factory default)
[rqsttype] (see Table E)	Type of loopback request sent to the far end. Valid values are: DS2 DS2 loopback ESFLINE ESF frame data-link message FEAC Far-end alarm status request INBAND 4/4 or 5/3 inband code

Table E. Valid Combinations for T1 Loopback Commands

LOCN	ORGN	LPBKTYPE	RQSTTYPE	DESCRIPTION
NEND	NEND	TERMINAL	-	Looped inward toward VSCC
NEND	FEND	FACILITY	-	Looped outward toward DS1 facility
FEND	NEND	FACILITY	INBAND	Send: 4/4 (1100/1110) [1] or 5/3 (00001/001) [1] inband loop-up code on DS1 facility (see INBANDMODE for ED-T1 or ENT-T1 commands)
FEND	NEND	FACILITY	ESFLINE	Send ESF loopback activate code on DS1 facility. [2]
FEND	NEND	FACILITY	FEAC	Send FEAC

				activate code on DS1 facility
FEND	NEND	FACILITY	DS2	Send DS1/DS2 activate code on DS1 facility

[1] Loop-up/loopdown
[2] For ESF mode only:
Line loopback activate = 0001110 11111111
Line loopback deactivate = 00111000 11111111
Universal loopback deactivate = 00100100 11111111

Response Format:

Acknowledgment:

If, in less than 2 seconds, a normal or error response cannot be sent, the following acknowledgment response is sent:

```
IP <ctag>
```

After the above response, a new command input may be generated.

Normal Response:

```
    sid yy-mm-dd hh:mm:ss
M  c COMPLD
    /*
OPR-LPBK-T1:[tid]:aidt1:[ctag]::[locn],[orgn],,[lpbktype],[rqsttype]
*/
;
```

Error Response:

```
    sid yy-mm-dd hh:mm:ss
M  c DENY
    /*
OPR-LPBK-T1:[tid]:aidt1:[ctag]::[locn],[orgn],,[lpbktype],[rqsttype]
*/
    errcde
;
```

Response Parameters	
PARAMETER	**EXPLANATION**
sid	Source NE identification
yy-mm-dd	Year (2 digits), month, and day
hh:mm:ss	Hour (00...23), minute, and second
M	Message generated in response to an input

	command
c	If provided, ctag, otherwise 0
COMPLD	Completed
DENY	Input command is denied
/* */	Enclosed are human readable comments - unspecified format
errcde	Error code (See Appendix C)

Example:

Operate an inband loopback test on drop group 2, DS1 7 towards the DS1 facility.
OPR-LPBK-T1:RALGH:DG2-T1-7:45::NEND,FEND,,FACILITY,INBAND;

```
    RALGH 99-11-24 12:50:30
M  45 COMPLD
    /* OPR-LPBK-T1:RALGH:DG2-T1-7:45::NEND,FEND,,FACILITY,INBAND */
;
```

Related Commands:

ALW-LPBK-T1
INH-LPBK-T1
RLS-LPBK-T1
RMV-T1
RST-T1