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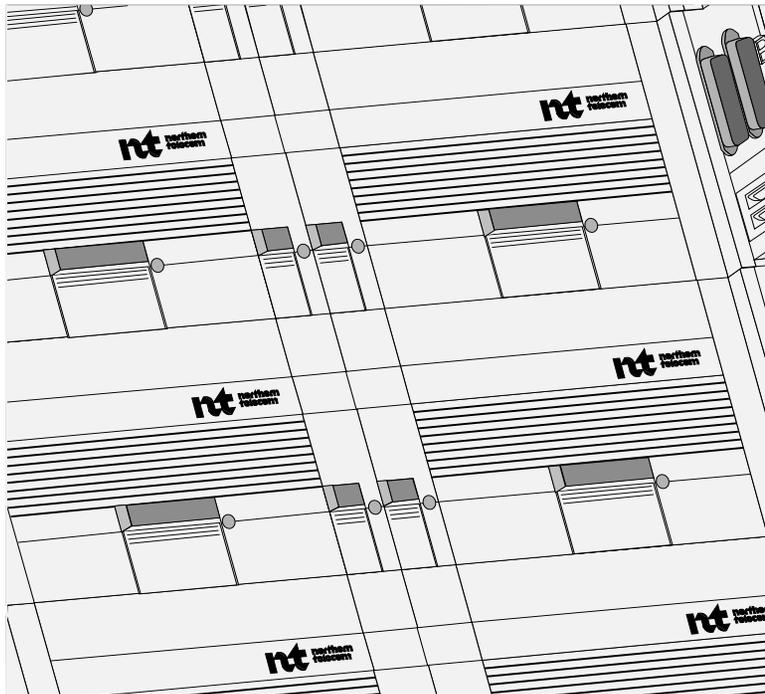
SONET Products

AccessNode

Provisioning Quick Reference Guide

Issue 1.0 February 1999

Front cover



NORTEL
NETWORKS™

SONET Products

AccessNode

Provisioning Quick Reference Guide

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Title page

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Note: With the February 1999 release, references to the software release number (such as AN15 or AN16) have been deleted, making this document release-independent. This document will be rereleased only when technical changes occur.

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About this document

This quick reference guide summarizes the tasks you perform when provisioning an AccessNode system.

Who should use this guide

It is intended for personnel who are familiar with AccessNode equipment and its interfaces.

How this guide is organized

The procedures in this guide are grouped according to the tasks you must perform when provisioning the system. The tasks, and the procedures within each task, appear in the order in which they are to be performed as shown on page 3.

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AccessNode provisioning

Provisioning overview

“Provisioning task list” on page 3 lists in sequence the tasks you must perform to provision different configurations of AccessNode systems. To identify which procedures to perform, locate the column that matches your configuration and perform each procedure that has an “X” in that column.

The procedures contain the information required to perform each action, but without the level of detail found in the AccessNode documentation suite. If you require additional information for a procedure, refer to the AccessNode document identified at the start of the task.

Note: If a procedure within a task appears in a different document, the last three digits of the document number are listed in parenthesis after the procedure title.

Prerequisites

To perform these procedures you will need:

- a VT100-compatible terminal or laptop computer with a VT100 emulation package
- an OPC user ID and password that allow you access to the OPC Provisioning Manager tool
- the NE user ID and password for the admin security level, for each network element (NE) to be provisioned

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Group and slot associations

Many of the procedures in this guide require you to enter a circuit pack group number in a command string. The group number you enter depends on the type of common equipment shelf and the slot occupied by the circuit pack.

Note: Refer to *Mapper Layouts Planning Guide*, 323-3001-154, in the *Engineering, Configuration, and Ordering Guide*, Volume 1 for engineering guidelines for your specific system type.

Use “Group and slot associations” on page 8 to determine the group number that corresponds to a DS1, DS3, STS-1, OC-3, or OC-12 in an ABM or TBM common-equipment shelf. If you want to perform a procedure on all groups of the same type on a shelf, enter **all** in the command string.

Using the OPC UI

When performing provisioning functions at the OPC, use the arrow or Tab keys to move from field to field on the screen. Once the required field is highlighted, press Space or Keypad 0 to select it.

To display the menu for a command in the main window, highlight the command and press Ctrl_L T (or Keypad,).

You can enter information in a field in one of three ways:

- type directly in the field
- press Ctrl_L / (or Keypad 3) to display the chooser menu associated with the field, move the cursor to the required entry, then press Ctrl_A (or Keypad 0) to select it
- press Ctrl_L (or Keypad Enter) to display the list item menu associated with the field, move the cursor to the required entry, then press Ctrl_A (or Keypad 0) to select it

In the OPC procedures in this guide, the keystrokes required to perform provisioning functions are included (in brackets) only when they differ from the keystrokes listed here.

For detailed information on using the OPC UI and accessing the OPC tools, refer to *OPC User Interface Description*, 323-3001-301, in *Operations, Administration, and Provisioning*, Volume 4A.

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Provisioning task list

Task	Page	Point-to-Point						Ring node		DFA		SE	
		Universal		Integrated		Combined		FCOT	RFT	OPC	RFT	OPC	RFT
		FCOT	RFT	FCOT	RFT	FCOT	RFT						
Provisioning common equipment													
Enabling or disabling equipment alarms	9	x	x	x	x	x	x	x	x	x	x	x	x
Provisioning processor parameters	11	x	x	x	x	x	x	x	x	x	x	x	x
Assigning the bay frame location ID	11	x	x	x	x	x	x	x	x	x	x	x	x
Provisioning OC-3 or OC-12 equipment performance monitoring thresholds	12	x	x	x	x	x	x	x	x				x
Assigning the shelf position number (TBM only)	13			x				x					
Provisioning protection switching													
Provisioning DS1, DS3, or STS-1 protection parameters	14	x	x	x	x	x	x	x	x	x	x		x
Provisioning OC-3 or OC-12 protection parameters	15	x	x	x	x	x	x	x	x				x
Provisioning the OC-12 VTBM ring wait-to-restore period	15							x	x				
Scheduling a shelf event or exercise (302)	16	x	x	x	x	x	x	x	x	x	x	x	x
Scheduling the exerciser for all ADMs in a ring	18							x	x				
Scheduling the exerciser for one ADM	19							x	x				
(Sheet 1 of 5)													

Left even

Provisioning task list (Continued)

Task	Page	Point-to-Point						Ring node		DFA		SE	
		Universal		Integrated		Combined		FCOT	RFT	OPC	RFT	OPC	RFT
		FCOT	RFT	FCOT	RFT	FCOT	RFT						
Facility provisioning													
Adding a facility to the system	20	x	x	x	x	x	x	x	x		x		x
Enabling or disabling DS1 or STS-1 facility alarms	21	x	x	x	x	x	x	x	x	x	x		x
Enabling or disabling DS3, STS-1, OC-3, OC-12, or COMM facility alarms	22	x	x	x	x	x	x	x	x	x	x		x
Enabling or disabling TIC/STS-1 and VT1.5 facility alarms	23	x	x		x	x	x	x	x		x		x
Provisioning DS1 facility parameters	26	x	x	x	x	x	x	x	x	x	x		x
Provisioning DS3 or STS-1 facility parameters	29	x	x	x	x	x	x	x	x	x	x		x
Provisioning OC-3 or OC-12 facility parameters	31	x	x	x	x	x	x	x	x	x	x		x
Provisioning DS1, DS3, STS-1, OC-3, OC-12, VT path, or STS path facility performance monitoring thresholds	32	x	x	x	x	x	x	x	x	x	x		x
Provisioning SDCC connections	36	x	x	x	x	x	x	x	x				x
Synchronization													
Enabling or disabling timing reference alarms	37	x		x		x		x	x				
Provisioning ESI or TXC equipment alarm points	38							x	x	x	x		
Enabling or disabling ESI facility alarms	39									x	x		
Provisioning synchronization-status messaging	40							x	x				
(Sheet 2 of 5)													

Right odd

Provisioning task list (Continued)

Task	Page	Point-to-Point						Ring node		DFA		SE	
		Universal		Integrated		Combined		FCOT	RFT	OPC	RFT	OPC	RFT
		FCOT	RFT	FCOT	RFT	FCOT	RFT						
Using the PSTN CI tool (for Hong Kong)													
Selecting the Hong Kong PSTN load	46		x		x		x		x		x		x
Host provisioning													
Adding a new host to an RFT	48				x		x		x		x		x
Making a host the primary alarm host	48				x		x		x		x		x
Managing OC-12 VTBM rings													
Scheduling an audit of configuration data	49							x	x				
Editing the APS ID for a ring ADM	51							x	x				
Sending configuration data to a ring ADM	52							x	x				
Editing the ring name	52							x	x				
(Sheet 3 of 5)													

Left even

Provisioning task list (Continued)

Task	Page	Point-to-Point						Ring node		DFA		SE	
		Universal		Integrated		Combined		FCOT	RFT	OPC	RFT	OPC	RFT
		FCOT	RFT	FCOT	RFT	FCOT	RFT						
Setting up connections at the OPC													
Modifying the list of connections	53	x		x		x		x					
Finding available channels	57	x		x		x		x					
Finding available tributaries	55	x		x		x		x					
Adding an STS connection	58	x		x		x		x					
Adding a VT connection	59							x					
Editing an STS connection	61	x		x		x		x					
Editing a VT connection	62							x					
Deleting an STS connection	66	x		x		x		x					
Deleting a VT-managed STS-1 connection	67							x					
Deleting a VT connection	69							x					
Scheduling an audit of connection data	71							x					
Provisioning line card services													
Bulk-provisioning POTS service on a universal system	72	x				x							
Bulk-provisioning services on a TR-08 shelf	73			x		x		x		x		x	
Adding a new universal circuit	74	x				x							
Adding a DS1 tandem, DS1 tandem VT, TR-08, or TR-08 VT circuit	75	x		x		x		x		x		x	
Modifying circuit details	77	x				x							
Deleting a circuit	80	x		x		x		x		x		x	
(Sheet 4 of 5)													

Right odd

Provisioning task list (Continued)

Task	Page	Point-to-Point						Ring node		DFA		SE	
		Universal		Integrated		Combined		FCOT	RFT	OPC	RFT	OPC	RFT
		FCOT	RFT	FCOT	RFT	FCOT	RFT						
Modifying log and alarm settings													
Setting service-level logs and alarms	81	x		x		x		x		x		x	
Setting line card-level logs and alarms	83	x		x		x		x		x		x	
Enabling or disabling line card alarms	84	x		x		x		x		x		x	
Enabling or disabling ISDN alarms	86			x		x		x		x		x	
Managing NE and OPC databases													
Performing a manual NE database backup	87	x	x	x	x	x	x	x	x	x	x	x	x
Saving OPC data to tape	88	x		x		x		x		x		x	
Scheduling an OPC backup	89	x		x		x		x		x		x	
(Sheet 5 of 5)													

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Group and slot associations

Mapper and shelf function		Mapper slot																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
DS1	DS1-fed ABM	G1	G2	P	G4	G5	G6															
	ABM FCOT or FCOT_BLSR	G1	G2	P	G4	G5	G6	G7	G8													
	TBM FCOT				G3	G4								G5	G6	P	G8	G9	G10	G11	G12	
	TBM FCOT_BLSR	G1	G2	G3	G4										G5	G6	P	G8	G9	G10	G11	G12
	TBM TN_BLSR	G1	G2	G3	G4										G5	G6	G7	G8	G9	G10	G11	G12
DS3	ABM	P	S	G1		G2		G3														
	TBM FCOT	P	S											G1		-		G3		G4		
	TBM FCOT_BLSR or TN_BLSR	P	S											G1		G2*		G3		G4		
STS-1	TN_BLSR		S	P										G1		G2		G4		G4		
OC-3	ABM tributary		G3		G4		G1S		G2S													
	TBM tributary		G3		G4		G1S		G2S					G5		G6		G7		G8		
	Feeder										G1	G2										
OC-12	Feeder										G1	G2										
OC-12	Feeder VTBM										G1	G2										

*For DS3 TBM FCOT_BLSR fiber-fed shelves, this group is available only if no DS1s are provisioned for that shelf.

Provisioning common equipment

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Provisioning and Operations Procedures*, 323-3001-310, in *Operations, Administration, and Provisioning*, Volume 4B.

Enabling or disabling equipment alarms

Step	Action						
1	Login to the NE user interface.						
2	<p>For circuit packs AIC, DS1, DS3, STS-1, OC-3, OC12, PROC, TIC, ESI, or TXC do substep a.</p> <p>For circuit packs SH (shelf), IRTU, MIC, or TAC, do substep b.</p> <p>For circuit packs CDSP, LIC, or MTAC, do substep c.</p> <p>a. Display the equipment alarm provisioning screen:</p> <pre>eq <type> <group>; almprov ↵</pre> <p>where</p> <table> <tr> <td><type></td> <td>aic, ds1, ds3, sts1, oc3,oc12, proc, tic, esi, or txc</td> </tr> <tr> <td><group></td> <td>for DS1, DS3, STS-1, OC-3, or OC-12: see "Group and slot associations" on page 8 for ESI: g1 (top card) or g2 (bottom card) for TXC: g1, or g2 for TIC, AIC, or PROC: a or b</td> </tr> </table> <p>Go to step 3.</p> <p>b. Display the equipment alarm provisioning screen:</p> <pre>eq <type>; almprov ↵</pre> <p>where</p> <table> <tr> <td><type></td> <td>irtu, mic, sh, or tac</td> </tr> </table> <p>Go to step 3.</p> <p>—continued—</p>	<type>	aic, ds1, ds3, sts1, oc3,oc12, proc, tic, esi, or txc	<group>	for DS1, DS3, STS-1, OC-3, or OC-12: see "Group and slot associations" on page 8 for ESI: g1 (top card) or g2 (bottom card) for TXC: g1, or g2 for TIC, AIC, or PROC: a or b	<type>	irtu, mic, sh, or tac
<type>	aic, ds1, ds3, sts1, oc3,oc12, proc, tic, esi, or txc						
<group>	for DS1, DS3, STS-1, OC-3, or OC-12: see "Group and slot associations" on page 8 for ESI: g1 (top card) or g2 (bottom card) for TXC: g1, or g2 for TIC, AIC, or PROC: a or b						
<type>	irtu, mic, sh, or tac						

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Enabling or disabling equipment alarms (continued)

Step	Action
	<p>c. Display the equipment alarm provisioning screen: eq> <type>; <details> <CDS#> <group>; almprov ↵ where <type> cdsp, lic, or mtac <details> dtlcdsp, dtlic, or dtlmtac <CDS # > copper distribution shelf: 1 to 7 <group> for LIC: a, b, c, or d for MTAC or CDSP: a or b</p>
3	<p>Set the alarm points to either on or off: editstat <alarm #> <status> ↵ y ↵ where <alarm # number of the alarm <status> on or off</p> <p>Repeat this step for each alarm point to be provisioned.</p>
4	<p>Repeat steps 2 and 3 for each piece of equipment to be provisioned.</p> <p>- end -</p>

Provisioning processor parameters

Step	Action
1	Display the processor equipment screen: eq proc <group> ↵ where <group> processor unit: a or b
2	If required, toggle the data synchronization setting: datasync ↵
3	If required, toggle the Rex test enable setting: rexena ↵
- end -	

Assigning the bay frame location ID

Step	Action
1	Access the shelf equipment screen and select a shelf: eq sh ↵
2	Access the edit shelf screen: edit ↵
3	Assign the bay frame location ID: location <location id> ↵ where <location id> up to 7 ASCII characters
<p>Note: When typing the bay frame location ID, place it within single quotes ('ID'); otherwise all the text converts to uppercase. Use single quotes if the ID includes spaces or special characters (?,=), or if the first character is a number.</p>	
- end -	

Right odd

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Provisioning OC-3 or OC-12 equipment performance monitoring thresholds

Step	Action
1	Display the performance monitoring screen: pm ↵
2	Display the equipment threshold provisioning screen: eqpperf <type> <group>; threshld; edit ↵ where <type> oc3 or oc12 <group> see "Group and slot associations" on page 8
3	Set the first threshold status for parameter one to on or off: statust1 1 <status> ↵
4	Provision the first threshold value for parameter one: valuet1 1 <value> ↵ where <value> any positive integer
5	Provision the type of report to be generated when a threshold is crossed: rpttype <type> ↵ where <type> alm or palrt
6	Repeat from step 2 for each OC-3 or OC-12 to be provisioned. - end -

Assigning the shelf position number (TBM only)

Right odd

Step	Action
1	Access the shelf equipment screen and select a shelf: equipmnt sh ↵
2	Access the edit shelf screen: edit ↵
3	Assign the shelf position number: shpos <position #> ↵ where <position #> 1 to 3 (The shelves are numbered from top to bottom.) - end -

Left even

Provisioning protection switching

Provision the same OC-3 and OC-12 protection parameters at both the central office NE and at each remote NE.

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Protection Switching Procedures*, 323-3001-311, in *Operations, Administration, and Provisioning*, Volume 4B.

Provisioning DS1, DS3, or STS-1 protection parameters

Step	Action
1	Display the detailed protection screen: pr; dtlprot <type>; protprov ↵ where <type> ds1, ds3, or sts1
2	If required, provision the wait-to-restore period: waittor <duration> ↵ where <duration> 200 or 300
3	If required, provision the priority level for protection: priority <unit> <level> ↵ where <unit> see "Group and slot associations" on page 8 <level> low or high

Repeat this step for each DS1, DS3, or STS-1 group.

- end -

Provisioning OC-3 or OC-12 protection parameters

Right odd

Step	Action
1	Display the detailed protection screen: pr; dtlprot <type>; protprov ↵ where <type> is oc3 or oc12 For oc3 or oc12, see “Group and slot associations” on page 8
2	Provision the switch mode: swmode <mode>↵ y↵ where <mode> uni or bi
3	For point-to-point (OC-12 or OC-3 feeder), set route diversity on or off: routediv <status>↵ where <status> on or off - end -

Provisioning the OC-12 VTBM ring wait-to-restore period

Step	Action
1	Display the detailed protection screen: protectn; dtlprot oc12; protprov ↵
2	Provision the wait-to-restore period: waittor <# of minutes>↵ where <# of minutes> 5, 6, 7, 8, 9, 10, 11, or 12 - end -

Left even

Scheduling a shelf event or exercise (302)

- | Step | Action |
|------|---|
| 1 | From the main menu level of the NE UI, access the system administration screen and display the NE profile parameters:
admin nep ↵ |

- | | |
|---|--|
| 2 | Access the edit schedule screen:
schedule;edit ↵ |
|---|--|

If you are setting this parameter	Then do
frequency	step 3
strtime	step 4
strtdat	step 5
endtime	step 6
enddate	step 7

- | | |
|---|--|
| 3 | Specify how often the event or exercise is to run:
frequency <event #> <frequency> <unit> ↵
where
<event #> for exerciser: 1; for backup: 2
<frequency> for day: 1 to 730
for hour: 1 to 17543
for minute: 60 to 32767
for second: 3600 to 32767
<unit> for day: d; for hour: h
for minute: m; for second: s |
|---|--|

- | | |
|---|--|
| 4 | Specify the time the event or exercise is to start:
strtime <event #> <hour> <minute> ↵
where
<event> for exerciser: 1; for backup: 2
<hour> 0 to 23; defaults to current hour
<minute> 0 to 59; defaults to 0 |
|---|--|

—continued—

Scheduling a shelf event or exercise (302) (continued)

Right odd

Step	Action
5	<p>Specify the date the event or exercise is to start:</p> <p>strtdate <event #> <day> <month> <year>.␣</p> <p>where</p> <p><event> for exerciser: 1; for backup: 2</p> <p><day> 1 to 31; defaults to current day</p> <p><month> 1 to 12; defaults to 1</p> <p><year> 1976 to 2039; defaults to 1976</p>
6	<p>Specify the time the event or exercise is to stop:</p> <p>endtime <event #> <hour> <minute>.␣</p> <p>where</p> <p><event> for exerciser: 1; for backup: 2</p> <p><hour> 0 to 23; defaults to -, which means forever</p> <p><minute> 0 to 59; defaults to 0</p> <p>To schedule the exerciser continually, do not enter an endtime. Instead press Return after specifying the event you want to schedule.</p>
7	<p>Specify the date the event or exercise is to stop:</p> <p>enddate <event #> <day> <month> <year>.␣</p> <p><i>See step 5 for parameter values.</i></p> <p><i>To schedule the exerciser continually, do not enter an enddate.</i></p> <p><i>Instead press Return after specifying the event you want to schedule.</i></p> <p style="text-align: center;">- end -</p>

Left even

Scheduling the exerciser for all ADMs in a ring

Step	Action
------	--------

This procedure is performed at the OPC. For a summary of the keystrokes required to navigate in an OPC screen, see “Using the OPC UI” on page 2.

- | | |
|----|--|
| 1 | Select the Network Summary tool from the Surveillance toolset. |
| 2 | From the Network Summary main window, display the Protection option and select the required ring name. |
| 3 | From the list item menu for the Ring ADM, select Schedule exercisers . |
| 4 | From the list item menu for the Ring ADM list, select Schedule all . |
| 5 | Click OK to confirm that you want to set the schedule exercisers for all ADMs in the ring. |
| 6 | In the Start Time field, type the exerciser start time (hh:mm). |
| 7 | In the Start date field, select either today or tomorrow from the chooser menu. |
| | To specify an end time and end date, do step 8.
To set the exerciser to run continuously, go to step 9. |
| 8 | In the End time and End date fields, type the required time (hh:mm) and date (dd/mm/yyyy).
Go to step 11. |
| 9 | In the “and repeat every” field, type how often the exerciser is to run. The value you type depends on the unit of frequency:
Days: 1 to 730 Hours: 1 to 17543
Minutes: 60 to 32767 Seconds: 3600 to 32767 |
| 10 | In the “and repeat every” unit field, select the unit from the chooser menu: Days , Hours , Minutes , or Seconds . |
| 11 | Tab to the Offset buttons and select the desired offset time.
To specify an offset time other than the default time of 1 minute, select the appropriate button. |
| 12 | Select OK to update the information. |
| 13 | Select Done twice to close the dialog and return to the Network Summary main window. |

- end -

Scheduling the exerciser for one ADM

Right odd

Step	Action
------	--------

This procedure is performed at the OPC. For a summary of the keystrokes required to navigate in an OPC screen, see “Using the OPC UI” on page 2.

- 1 From the Network Summary main window, display the Protection menu and select the ring name.
- 2 In the Protection Details dialog, select **Schedule exercisers** from the list item menu for the Ring ADM.
- 3 In the Exerciser Schedule List dialog, select **Edit Schedule** from the list item menu for the required ADM.
- 4 In the Start Time field, type the exerciser start time (hh:mm).
- 5 In the Start date field, select either **today** or **tomorrow** from the chooser menu.
To specify an end time and end date, do step 6.
To set the exerciser to run continuously, go to step 7.
- 6 In the End time and End date fields, type the required time (hh:mm) and date (dd/mm/yyyy). Go to step 8.
- 7 In the “and repeat every” field, type how often the exerciser is to run.
The value you type depends on the unit of frequency:
Days: 1 to 730 Hours: 1 to 17543
Minutes: 60 to 32767 Seconds: 3600 to 32767
In the “and repeat every” unit field, select the unit from the chooser menu: **Days, Hours, Minutes, or Seconds.**
- 8 Select **OK** to update the information.
- 9 Select **Done** twice to close the dialog and return to the Network Summary main window.

- end -

Left even

Facility provisioning

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Provisioning and Operations Procedures, 323-3001-310*, in *Operations, Administration, and Provisioning, Volume 4B*.

Adding a facility to the system

Step	Action
1	Place the circuit pack in the slot if it is not already present.
2	<p>Display the screen for the facility to be added: To add a DS1, DS3, or STS-1 facility, do substep a. To add an OC-3 or OC-12 facility, do substep b.</p> <p>a. Display the DS1, DS3, or STS-1 facility screen: fa <type> <group> <port> ↵ where <type> ds1, ds3, or sts1 <group> see "Group and slot associations" on page 8 <port> for DS1: 1 to 14; for DS3 or STS-1: 1 to 3</p> <p>Go to step 4.</p> <p>b. Display the OC-3 or OC-12 facility screen: fa <type> <group> ↵ where <type> oc3 or oc12 <group> see "Group and slot associations" on page 8</p>
3	Edit the facility provisioning options as necessary. (Refer to the procedures on provisioning facility parameters in this guide for more details.)
4	<p>Add the new facility: add ↵</p>
5	For DS1, DS3, and STS-1 facilities, repeat step 2a through step 4 for each facility to be added.

- end -

Enabling or disabling DS1 or STS-1 facility alarms

Right odd

Step	Action				
1	<p>Display the DS1 facility alarm provisioning screen:</p> <pre>fa ds1 <group> <port>; almprov ↵</pre> <p>where</p> <table> <tr> <td><group></td> <td>see "Group and slot associations" on page 8</td> </tr> <tr> <td><port></td> <td>1 to 14, or all</td> </tr> </table>	<group>	see "Group and slot associations" on page 8	<port>	1 to 14, or all
<group>	see "Group and slot associations" on page 8				
<port>	1 to 14, or all				
2	<p>Set the DS1 facility alarm point on or off:</p> <pre>editstat <#> <status>↵</pre> <pre>y↵</pre> <p>where</p> <table> <tr> <td><#></td> <td>alarm point number</td> </tr> <tr> <td><status></td> <td>on or off</td> </tr> </table> <p>Repeat this step for each DS1 alarm point to be set.</p>	<#>	alarm point number	<status>	on or off
<#>	alarm point number				
<status>	on or off				
3	<p>Display the STS-1 facility alarm provisioning screen:</p> <pre>select sts1 <group> <port>↵</pre> <p>where</p> <table> <tr> <td><group></td> <td>STS1 group number</td> </tr> <tr> <td><port></td> <td>1 to 14, or all</td> </tr> </table>	<group>	STS1 group number	<port>	1 to 14, or all
<group>	STS1 group number				
<port>	1 to 14, or all				
4	<p>Set the STS-1 facility alarm point on or off:</p> <pre>editstat <alarm point#> <status>↵</pre> <pre>y ↵</pre> <p>See step 3 for the parameter values.</p>				
5	<p>Repeat from step 3 for each port.</p>				

- end -

Left even

Enabling or disabling DS3, STS-1, OC-3, OC-12, or COMM facility alarms

Step	Action
1	<p>Display the alarm provisioning screen for the appropriate facility: For a DS3 or STS-1 facility, do substep a. For an OC-3 or OC-12 facility, do substep b. For a COMM facility, do substep c.</p> <p>a. Display the DS3 or STS-1 facility screen: fa <type> <group> <port>; almprov ↵ where <type> ds3 or sts1 <group> see "Group and slot associations" on page 8 <port> 1 to 3 Go to step 2.</p> <p>b. Display the OC-3 or OC-12 facility screen: fa <type> <group>; almprov ↵ where <type> oc3 or oc12 <group> see "Group and slot associations" on page 8 Go to step 2.</p> <p>c. Display the COMM screen: fa comm; ports <type>; dtlport <port>; almprov ↵ where <type> sdcc, eoc, csc, omc, vlcm, cnet, or tmc <port> port number</p>
2	<p>Set the alarm point on or off: editstat <#> <status> ↵ y ↵ where <#> alarm point number <status> on or off</p> <p style="text-align: center;">—continued—</p>

Enabling or disabling DS3, STS-1, OC-3, OC-12, or COMM facility alarms (continued)

Step	Action
	Repeat this step for each alarm point to be set.
3	For DS3 or STS-1 alarms, repeat from step 1a for each DS3 or STS-1 facility. For OC-3 or OC-12 alarms, repeat from step 1b for the second group. For COMM alarms, repeat from step 1c for each channel and port.
	- end -

Enabling or disabling TIC/STS-1 and VT1.5 facility alarms

The two tables on page 25 list the default VT1.5 and STS-1 assignments for each type of system.

Step	Action
1	Display the TIC/STS-1 facility alarm provisioning screen for the STS-1 to be provisioned: fa tic <port #>; almprov. ␣ where <port #> number of the STS-1 AccessNode supports STS-1: 1 and 2 AccessNode Express supports STS-1: 1, 2, and 3 If you provisioned default connections, see the tables on page 25. If you did not provision default connections, refer to the Connection Manager tool.
2	Set the STS-1 facility alarm point on or off: editstat <#> <status> ␣ y ␣

—continued—

Left even

Enabling or disabling TIC/STS-1 and VT1.5 facility alarms (continued)

Step	Action
	where <#> alarm point number <status> on or off Repeat this step for each alarm to be provisioned.
3	Return to the TIC/STS-1 facility screen: quit ↵
4	Display the alarm provisioning screen for the VT1.5 to be provisioned: subptsel <subport #>; almprov ↵ where <subport #> 1 to 28
5	Set the VT1.5 facility alarm point on or off: editstat <#> <status> ↵ y ↵ See step 2 for the parameter values.
6	Select the next VT1.5 to be provisioned: select <subport #> ↵ <i>See step 4 for the parameter values.</i>
7	Repeat steps 5 and 6 for each VT1.5 to be provisioned.
8	Return to the TIC/STS-1 facility screen: quit 2 ↵
9	To provision alarms for another STS-1, go to step 10. Otherwise, end this procedure here.
10	Display the alarm provisioning screen for the next STS-1 to be provisioned: select <port #>; almprov ↵ <i>See step 1 for the parameter values.</i>
11	Repeat from step 2 for the selected STS-1.
	- end -

Right odd

VT1.5 assignments

If you have this configuration	Then the VT1.5s assignments are
integrated	up to 28 VT1.5s are used on STS-1 #1 (see note)
universal	up to 28 VT1.5s are used on STS-1 #2
integrated, with TR-08 circuits	VT1.5s 1, 5, 9, 13, 17, 21, and 25 are used for the "A" span on STS-1 #1, which corresponds to DS1 ports 1, 5, 9, and 13 on DS1 card # 1, and DS1 ports 3, 7, and 11 on DS1 card #2 respectively (see note)
Note: For DS1-fed AccessNodes, all GR-303, TR-08, and tandem DS1 traffic must be on DS1/VT mappers G1 and G2. DS1/VT mapper G4 can only be used for OMC links.	

Default STS-1 assignments

If you have this type of system	Then this STS-1	Carries this type of traffic
Fiber-fed ring	no default assignments	
Fiber-fed point-to-point, integrated (TBM-ABM)	1	GR-303 TR08 DS1 tandem
	2	unused
	3	transport
	4 through 12 (for OC-12 only)	transport
Fiber-fed point-to-point, universal (ABM-ABM)	1	GR-303 TR08 DS1 tandem
	2	UDLC
	3	unused
	4 through 12 (for OC-12 only)	transport
Single-ended	1	GR-303, TR08, DS1 tandem
	2	unused
	3	DS1 transport
DS1-fed	1	GR-303, TR08, DS1 tandem, OMC DS1s
	2	OMC DS1s
	3	unused

Left even

Provisioning DS1 facility parameters

The table on page 25 lists the DS1 provisioning parameters and their default values

Step	Action																
1	<p>From the NE Status screen, display the facility provisioning screen: fa ds1 <group> <port> ↵</p> <p>where <group> see "Group and slot associations" on page 8 <port> 1 to 14, or all</p>																
2	<p>Take the facility out of service: chgstate oos ↵ y ↵</p>																
3	<p>Display the edit screen for the facility: edit ↵</p>																
4	<p>Set or change any of the parameters listed below.</p> <table border="1"> <thead> <tr> <th>If provisioning</th> <th>Then do</th> </tr> </thead> <tbody> <tr> <td>facility identifier</td> <td>substep a</td> </tr> <tr> <td>line coding</td> <td>substep b</td> </tr> <tr> <td>line build-out</td> <td>substep c</td> </tr> <tr> <td>frame format</td> <td>substep d</td> </tr> <tr> <td>alarm encoding</td> <td>substep e</td> </tr> <tr> <td>synchronization</td> <td>substep f</td> </tr> <tr> <td>performance monitoring</td> <td>substep g</td> </tr> </tbody> </table> <p>a. Provision the facility identifier: facid <identifier> ↵</p> <p>where <identifier> alphanumeric string to up 38 characters —continued—</p>	If provisioning	Then do	facility identifier	substep a	line coding	substep b	line build-out	substep c	frame format	substep d	alarm encoding	substep e	synchronization	substep f	performance monitoring	substep g
If provisioning	Then do																
facility identifier	substep a																
line coding	substep b																
line build-out	substep c																
frame format	substep d																
alarm encoding	substep e																
synchronization	substep f																
performance monitoring	substep g																

Provisioning DS1 facility parameters (continued)

Right odd

Step	Action
	<p>b. Provision the type of line coding: lcoding <type> ↵ where <type> see the table page 28</p>
	<p>c. Provision the line build-out range: lbo <range> ↵ where <range> see the table on page 28</p>
	<p>d. Provision the type of framing format: framefmt <format> ↵ where <format> see the table on page 28</p>
	<p>e. Provision the type of alarm coding: alarmenc <encoding> ↵ where <encoding> see the table on page 28</p>
	<p>f. Provision the synchronization mode: synchr <mode> ↵ where <mode> see the table on page 28</p>
	<p>g. Provision performance monitoring: pmprov <status> ↵ where <status> disable or enable</p>
5	<p>Return the facility to service: chgstate is ↵</p>
6	<p>Repeat from step 2 for each DS1 facility to be provisioned.</p>
7	<p>Repeat from step 2 for each DS1 group to be provisioned.</p>
	<p>- end -</p>

Left even

DS1 provisioning parameters

Parameter	Setting				Default
	GR-303 DS1	TR-08 DS1	Tandem DS1	Transport DS1	
facility identifier	an alphanumeric string up to 38 characters				no entry
line coding	b8zs	amizcs	amizcs, b8zs, or ami		ami
line build-out	short (0 to 150 ft or 0 to 46 m) medium (150 to 450 ft or 46 to 137 m) long (450 to 655 ft or 137 to 200 m)				short
frame format	extended superframe	with span A: dlc with spans B, C and D: superframe	superframe or extended superframe, depending on the circuit order	superframe, extended superframe, dlc for TR-08, or null	superframe
alarm encoding	ones			ones or zeros	ones
synchronization mode	bytesynchronous			asynchronous	bytesynchronous
performance monitoring	enabled or disabled				enabled

DS3 and STS-1 provisioning parameters

Parameter	Setting	Default
facility identifier	an alphanumeric string up to 38 characters	no entry
line build-out	cable RG59B/U: short (0 to 164 ft or 0 to 50 m) long (164 to 250 ft or 50 to 76 m) cables 734/728A: short (0 to 225 ft or 0 to 68 m) long (225 to 450 ft or 68 to 137 m)	short
Tx parity correction	on or off	off
Rx parity correction	on or off	off
framing	for clear-channel DS3s or STS-1s: off When off is selected, also set Tx and Rx parity to off, and ignore DS3 or STS-1 path performance monitoring.	on

Provisioning DS3 or STS-1 facility parameters

The table on page 28 lists the DS3 and STS-1 provisioning parameters and their default values.

- | Step | Action | | | | | | |
|---------|--|--------|-------------|---------|---|--------|----------------------------------|
| 1 | <p>From the NE Status screen, display the facility provisioning screen:
 fa <type> <group> <port>; edit ↵</p> <p>where</p> <table> <tr> <td><type></td> <td>ds3 or sts1</td> </tr> <tr> <td><group></td> <td>see "Group and slot associations" on page 8</td> </tr> <tr> <td><port></td> <td>for DS3 or STS-1: 1 to 3, or all</td> </tr> </table> | <type> | ds3 or sts1 | <group> | see "Group and slot associations" on page 8 | <port> | for DS3 or STS-1: 1 to 3, or all |
| <type> | ds3 or sts1 | | | | | | |
| <group> | see "Group and slot associations" on page 8 | | | | | | |
| <port> | for DS3 or STS-1: 1 to 3, or all | | | | | | |
| 2 | <p>Take the facility out of service:
 chgstate oos ↵
 y ↵</p> | | | | | | |
| 3 | <p>Display the edit screen for the facility:
 edit ↵</p> | | | | | | |
| 4 | <p>Set or change any of the parameters listed below.</p> | | | | | | |

If provisioning	Then do
facility identifier	substep a
line build-out	substep b
transmit (Tx) parity correction	substep c
receive (Rx) parity correction	substep d
framing	substep e

- a. Provision the facility identifier:
facid <identifier> ↵
- where
- | | |
|--------------|---|
| <identifier> | alphanumeric string to up 38 characters |
|--------------|---|
- continued—

Left even

Provisioning DS3 or STS-1 facility parameters (continued)

Step	Action
	<p>b. Provision the line build-out range: lbo <range> ↵ where <range> see the table on page 28</p>
	<p>c. Provision the transmit (Tx) parity correction state: txparity <state> ↵ where <state> see the table on page 28</p>
	<p>d. Provision the receive (Rx) parity correction state: rxparity <state> ↵ <i>See substep c for the parameter values.</i></p>
	<p>e. Provision the framing state: framing <state> ↵ <i>See substep c for the parameter values.</i></p>
5	Return the facility to service: chgstate is ↵
6	Repeat from step 2 for each DS3 or STS-1 facility to be provisioned.
7	Repeat from step 2 for each DS3 or STS-1 group to be provisioned. - end -

Provisioning OC-3 or OC-12 facility parameters

Right odd

Step	Action
1	<p>Display the OC-3 or OC-12 facility screen:</p> <p>fa <type> <group>↵</p> <p>where</p> <p><type> oc3 or oc12</p> <p><group> see "Group and slot associations" on page 8</p>
2	<p>Select the edit facility screen:</p> <p>edit ↵</p>
3	<p>Set or change the required facility parameters: For the facility identifier, do substep a.</p> <p>For the signal degrade threshold, do substep b.</p> <p>For the signal fail threshold, do substep c.</p> <p>a. Provision the facility identifier:</p> <p>facid <identifier>↵</p> <p>where</p> <p><identifier> to 38 alphanumeric characters</p> <p>b. Provision the exponent for the signal degrade threshold:</p> <p>linesdth <exponent>↵</p> <p>where</p> <p><exponent> 4, 5, 6, 7, 8, 9, or 10</p> <p>for example, 4 represents 1.0E-4 (1x10⁻⁴)</p> <p>c. Change the OC-3 or OC-12 signal fail threshold:</p> <p>linesfth <exponent>↵</p> <p>where</p> <p><exponent> 3, 4, or 5</p>
4	<p>Repeat from step 1 for each optical facility.</p> <p>- end -</p>

Left even

Provisioning DS1, DS3, STS-1, OC-3, OC-12, VT path, or STS path facility performance monitoring thresholds

Step	Action
1	<p>From the NE Status screen, display the performance monitoring screen:</p> <p>pm ↵</p>
2	<p>Select a facility:</p> <p>For DS1, DS3, or STS-1, do substep a. For OC-3 or OC-12, do substep b. For STS path, do substep c. For VT path, do substep d.</p> <p>a. Select a DS1, DS3, or STS-1 facility:</p> <p>facperf <type> <group> <port> <direction> ↵</p> <p>where</p> <p><type> ds1, ds3, or sts1 <group> see "Group and slot associations" on page 8 <port > for DS1: 1 to 14; for DS3 or STS-1: 1 to 3 <direction> for DS3 only: tx or rx</p> <p>Go to step 3.</p> <p>b. Select an OC-3 or OC-12 facility:</p> <p>facperf <type> <group> <origin> ↵</p> <p>where</p> <p><type> oc3 or oc12 <group> see "Group and slot associations" on page 8 <origin> for OC12 only: near or far (default is near)</p> <p>Go to step 3.</p> <p>—continued—</p>

Provisioning DS1, DS3, STS-1, OC-3, OC-12, VT path, or STS path facility performance monitoring thresholds (continued)

Right odd

- | Step | Action |
|------|---|
| | <p>c. Select an STS path:</p> <p>facperf path sts oc12 <group> <sts #> <origin> ↵</p> <p>where</p> <p><group> see "Group and slot associations" on page 8</p> <p><sts #> 1 to 12</p> <p><origin> near or far (default is near)</p> <p>Go to step 3.</p> <p>d. Select a VT path:</p> <p>facperf path vt ds1 <group> <port #> ↵</p> <p>where</p> <p><group> see "Group and slot associations" on page 8</p> <p><port> 1 to 14</p> |
| 3 | <p>Display the thresholds edit screen:</p> <p>threshld; edit ↵</p> |
| 4 | <p>Set or change any of the parameters listed below:</p> |

If you want to generate	Then do
section report for OC-3 or OC-12	substep a
line or path report for DS1 or path report for VT or STS path	substep b
line report for DS3, STS-1, OC-3, or OC-12	substep c
path report for DS3	substep d
status of threshold one for DS1, DS3, STS-1, OC-3, or OC-12	substep e
value of threshold one for DS1, DS3, STS-1, OC-3, or OC-12	substep f
status of threshold two for DS1, DS3, STS-1, OC-3, or OC-12	substep g
value of threshold two for DS1, DS3, STS-1, OC-3, or OC-12	substep h

—continued—

Left even

Provisioning DS1, DS3, STS-1, OC-3, OC-12, VT path, or STS path facility performance monitoring thresholds (continued)

Step	Action
a.	Provision the report type to be generated for OC-3 or OC-12 when a section threshold is crossed: srpttype <type> ↵ where <type> alm or palrt
b.	Provision the line or path report type as alm or palrt for DS1, STS path, or VT path: rpptype <type> ↵ <i>See substep a for the parameter values.</i>
c.	Provision the line report type as alm or palrt for DS3, STS-1, OC-3, or OC-12: lrptype <type> ↵ <i>See substep a for the parameter values.</i>
d.	Provision the path report type as alm or palrt for DS3: prptype <type> ↵ <i>See substep a for the parameter values.</i>
e.	Provision the first threshold status: statust1 <parameter> <status> ↵ y ↵ where <parameter> for DS1 Rx, OC-3, or OC-12 Rx: 1 to 8 for DS3 Rx: 1 to 9 for DS3 Tx: 1 to 6 for STS path: 1 to 4 for VT path: 1 to 2 <status> on or off (if you do not enter the status, the value toggles)

—continued—

Provisioning DS1, DS3, STS-1, OC-3, OC-12, VT path, or STS path facility performance monitoring thresholds (continued)

Step	Action
f.	<p>Provision the first threshold value and interval: valuet1 <parameter #> <threshold> <interval> ↵ y ↵</p> <p>where</p> <p><parameter> see substep e <threshold> for untimed: 1 to 4294967295 for day: 1 to 33152 for 15min: 1 to 1388700</p> <p><interval> 15min, day, or unt</p>
g.	<p>Provision the second threshold status: statust2 <parameter #> <status> ↵ y ↵</p> <p><i>See substep e for the parameter values.</i></p>
h.	<p>Provision the second threshold value and interval: valuet2 <parameter #> <threshold> <interval> ↵ y ↵</p> <p><i>See substep f for the parameter values.</i></p>
5	<p>Repeat from step 2 for each facility, path, or optical group.</p> <p style="text-align: center;">- end -</p>

Left even

Provisioning SDCC connections

Step	Action
------	--------

1 Display the COMM facility screen:

fa comm; ports sdcc; dtlport <port>↓

where

<port> is one of the following:

If you are provisioning this group	Then select this SDCC port number
g3	1
g4	2
g1s/g2s	3
g2s	4
g1	5
g2	6
g5	7
g6	8
g7	9
g8	10

2 Select **add**.

3 If you are installing a single-ended AccessNode, repeat this procedure for the other NE.

If you are connecting to other equipment that requires SDCC, enable the SDCC on that equipment.

- end -

Synchronization

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Provisioning and Operations Procedures*, 323-3001-310, in *Operations, Administration, and Provisioning*, Volume 4B.

Enabling or disabling timing reference alarms

Step	Action
1	From the NE Login Manager screen, log in to the NE you want to provision.
2	Display the timing reference protection screen: protectn; trefprot ↵
3	Display the timing reference provisioning screen: almprov ↵
4	Enable or disable a specific alarm: editstat <alarm point#> [<state>] ↵ y ↵ <p style="margin-left: 40px;">where <alarm point#> number of the alarm <state> on or off, or blank to toggle</p>

- end -

Right odd

Left even

Provisioning ESI or TXC equipment alarm points

- | Step | Action | | | | | | |
|--------------------------|--|--------------------------|------------|------------------|--|------------------|--|
| 1 | From the NE Login Manager screen, log in to the NE you want to provision. | | | | | | |
| 2 | Complete the instructions in the following table. | | | | | | |
| | <table border="1"> <thead> <tr> <th>If you want to provision</th> <th>Then enter</th> </tr> </thead> <tbody> <tr> <td>ESI alarm points</td> <td>eq esi <group>↵
where
<group> g1 or g2</td> </tr> <tr> <td>TXC alarm points</td> <td>eq txc <group>↵
where
<group> g1 or g2</td> </tr> </tbody> </table> | If you want to provision | Then enter | ESI alarm points | eq esi <group> ↵
where
<group> g1 or g2 | TXC alarm points | eq txc <group> ↵
where
<group> g1 or g2 |
| If you want to provision | Then enter | | | | | | |
| ESI alarm points | eq esi <group> ↵
where
<group> g1 or g2 | | | | | | |
| TXC alarm points | eq txc <group> ↵
where
<group> g1 or g2 | | | | | | |
| 3 | Display the Equipment Alarm Provisioning screen by entering:
almprov ↵ | | | | | | |
| 4 | Set the alarm points to either On or Off by entering:
editstat <#> <status> ↵
y ↵
where
<#> the number of the alarm point
<status> on or off | | | | | | |
| 5 | Repeat step 4 for each alarm point to be provisioned. | | | | | | |
| 6 | Repeat steps 1 through 4 for each ESI or TXC to be provisioned.
- end - | | | | | | |

Enabling or disabling ESI facility alarms

Right odd

Step	Action
1	From the NE Login Manager screen, log in to the NE you want to provision.
2	Display the ESI alarm provisioning screen: fa esi <type>; almprov ↵ where <type> bitsa, bitsb, g1out, or g2out
3	Set the alarm points on or off: editstat <#> <status>↵ y↵ where <#> number of the alarm point <status> on or off
4	Repeat step 3 for each alarm point to be set.
5	Repeat from step 2 for each ESI facility. <p style="text-align: center;">- end -</p>

Left even

Provisioning synchronization-status messaging

To provision synchronization-status messaging for an OC-12 VTBM system, you must log in to one network element at a time and repeat the steps in this procedure for each network element in the system.

Step	Action
1	<p>Set the network element clock source by entering:</p> <pre>eq sh; edit. clocksrc <clock source type>. yes.</pre> <p>where</p> <p><clock source type> ESI or linetimed</p>
2	<p>Access the Timing Reference Source screen by entering:</p> <pre>pr tp;trefsrc.</pre>
3	<p>Change the OCA and OCB source by entering either:</p> <pre>ocasrc <unit>. or ocbsrc <unit>.</pre> <p>where</p> <p><unit> g1 for ocasrc and g2 for ocbsrc</p> <p>Note: The ocasrc and ocbsrc command works only if the Source Tracking field on the G1OUT and G2OUT facility screens displays Off.</p> <p>—continued—</p>

Provisioning synchronization-status messaging (continued)

Right odd

Step	Action
------	--------

Provisioning the ESI inputs (BITSA and BITSB)

4 Access the ESI Facility BITSA/BITSB Edit screen by entering:

fa esi <unit>↵

where

<unit> **bitsa** or **bitsb**

5 If the network element is *not* externally timed, put BITSA and BITSB out of service (OOS) by entering:

chgstate oos↵

yes↵

6 You must change the framing format parameter of BITSA and BITSB if the network element meets the following conditions:

- The network element is externally timed.
- The network element is connected to a BITS that supplies DS1s with the extended superframe framing format.

To change the framing format, enter:

sigfmt cc↵

Note: The ESI BITSA/BITSB facility must be out of service before you change the frame format.

Provisioning the timing sources for the network element

7 Determine if the shelf has an ESI.

If the shelf	Complete the following
has an ESI	<p>a. eq esi <circuit pack group>↵</p> <p>where</p> <p><circuit pack group> g1 or g2</p> <p>b. Change the target clock mode by entering:</p> <p>edittarg holdover↵</p>
does not have an ESI	protectn ↵

—continued—

Left even

Provisioning synchronization-status messaging (continued)

Step	Action
------	--------

8	Determine if the shelf is DS1-fed.
---	------------------------------------

If the shelf	Complete the following
is DS1-fed	trefsrc <source> ↵ where <source> REFASrc REFBsrc
is not DS1-fed	trefprot. ↵ edit. ↵

9	Change the timing reference source:
---	-------------------------------------

source <reference #> <unit> ↵
yes ↵

where

<reference #> **1, 2, 3, or 4**

<unit> **bitsa, bitsb, g1, g2, or null**

Repeat this step for each timing source as required.

10	If necessary, specify the quality level of a timing source by entering:
----	---

qlevel <reference #> <quality level> ↵
yes ↵

—continued—

Provisioning synchronization-status messaging (continued)

Step	Action
------	--------

where

<reference #> 1, 2, 3, or 4

<quality level>

ST1	Stratum 1
STU	stratum traceability unknown
ST2	Stratum 2
ST3	Stratum 3
SMC	+/- 20 ppm clock
DUS	do not use for synchronization
AUTO	reset the quality level to the level received in the synchronization status message

- 11 Complete the instructions in the following table.

If the shelf	Complete the following
has an ESI	<p>a. eq <circuit pack group></p> <p>where</p> <p><circuit pack group> g1 or g2</p> <p>b. Change the target filter mode by entering:</p> <p>edittarg normal</p>
does not have an ESI	The procedure is complete.

Provisioning timing distribution

Note: Unless the network element will provide timing distribution to a TransportNode system, put the ESI DS1 outputs (G1OUT and G2OUT) out of service.

—continued—

Right odd

Left even

Provisioning synchronization-status messaging (continued)

Step	Action						
12	<p>Access the ESI Facility G1OUT and G2OUT screens by entering:</p> <p>fa esi <unit>↵</p> <p>where</p> <p><unit> g1out or g2out</p>						
13	<p>Complete the instructions in the following table:</p> <table border="1"> <thead> <tr> <th>If the network element will</th> <th>Do the following</th> </tr> </thead> <tbody> <tr> <td>use DS1s with the extended superframe format to provide timing distribution</td> <td>Change the framing format by entering: edit↵ framefmt extended↵</td> </tr> <tr> <td>not provide timing distribution to a BITS</td> <td>chgstate oos↵ yes↵</td> </tr> </tbody> </table>	If the network element will	Do the following	use DS1s with the extended superframe format to provide timing distribution	Change the framing format by entering: edit ↵ framefmt extended ↵	not provide timing distribution to a BITS	chgstate oos ↵ yes ↵
If the network element will	Do the following						
use DS1s with the extended superframe format to provide timing distribution	Change the framing format by entering: edit ↵ framefmt extended ↵						
not provide timing distribution to a BITS	chgstate oos ↵ yes ↵						
14	<p>Determine the source for timing distribution.</p> <p>—continued—</p>						

Provisioning synchronization-status messaging (continued)

Right odd

Step	Action
------	--------

15 Complete the instructions in the following table:

To provision the timing distribution to follow	Do the following
the best quality-timed OC-12 line	Enter: srctrack best. ␣ yes. ␣ Note: The Source Tracking field must display Off for this command to work. If the field displays Act, enter srctrack off , then enter srctrack best .
a fixed OC-12 line	Enter: source <source> ␣ where <source> oca or ocb Note: The Source Tracking field must display Off for this command to work.

Provisioning the threshold AIS generation mode at network elements that will provide timing distribution

16 At the ESI Facility G1OUT screen and at the ESI Facility G2OUT screen, change the threshold AIS parameter by entering:

thesais <quality level>␣

where

<quality level> **st2**, **st3**, or **smc** to set the threshold AIS

null to disable the threshold AIS

- end -

Left even

Using the PSTN CI tool

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Provisioning and Operations Procedures, 323-3001-310*, in *Operations, Administration, and Provisioning, Volume 4B*.

Selecting the Hong Kong PSTN load

Use this procedure only when installing a network element in Hong Kong. When you change the PSTN load, all active calls are dropped and all active line testing is canceled.

Step	Action
1	From the NE Login Manager screen, log in to the NE you want to provision.
2	Exit to the CI prompt: quit all ↵
3	Open the PSTN CI tool: pstnci ↵
4	Determine the status of the PSTN load: qpstn ↵
5	If the load is North American and you are in Hong Kong, change the PSTN load: selhk ↵ y ↵
6	Close the PSTN CI tool: quit ↵

- end -

Using the LNADJ CI tool

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Provisioning and Operations Procedures*, 323-3001-310, in *Operations, Administration, and Provisioning*, Volume 4B.

Setting the Hong Kong adjustable gain

Use this procedure only when installing a network element in Hong Kong. When you change the PSTN load, all active calls are dropped and all active line testing is canceled.

Step	Action
1	From the NE Login Manager screen, log in to the NE you want to provision.
2	Exit to the CI prompt: quit all ↵
3	Open the LNADJ CI tool: Inadjci ↵
4	Determine the status of the LNADJ by entering: queryattrib <start shelf type> <shelf number> <slot number> >end shelf type> <shelf number> <slot number> queryattrib cds 1 1 cds 1 5
5	Change the adjustable gain by entering: setpots <shelf type> <service type> <attributes> ↵ setpots cds 1 1 lpstres txgain '-0.0' setpots cds 1 1 lpstres rxgain '-10.0'
6	Reset the adjustable gain to the default values by entering: defaultpots <shelf type>
7	Close the LNADJ CI tool: quit ↵

- end -

Right odd

Left even

Host provisioning

This task is performed at the OPC. For a summary of the keystrokes required to navigate in an OPC screen, see “Using the OPC UI” on page 2.

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Provisioning and Operations Procedures*, 323-3001-310, in *Operations, Administration, and Provisioning*, Volume 4B.

Adding a new host to an RFT

Step	Action
1	Select the Host Provisioning Manager tool from the Prov Admin toolset.
2	From the Host Provisioning Manager main window, display the RFT chooser menu and select the RFT.
3	In the Add Host field, type the Host CLLI (up to 16 characters) of the host you want to add, then press Return.

- end -

Making a host the primary alarm host

Step	Action
1	Select the Host Provisioning Manager tool from the Prov Admin toolset.
2	From the main window of the Host Provisioning Manager, display the RFT chooser menu and select the RFT.
3	Select the host you want to be the primary alarm host.
4	Select Make Primary from the list item menu.
5	Select OK to complete the process.

- end -

Managing OC-12 VTBM rings

This task is performed at the OPC. For a summary of the keystrokes required to navigate in an OPC screen, see “Using the OPC UI” on page 2.

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Provisioning and Operations Procedures*, 323-3001-310, in *Operations, Administration, and Provisioning*, Volume 4B.

Right odd

Scheduling an audit of configuration data

Step	Action
1	Select the Configuration Manager tool from the Network Admin toolset.
2	In the Configuration Manager main window, select the ring for which you want to schedule an audit.
3	Select Edit/Delete configuration from the list item menu.
4	In the Configuration Manager: Ring window, select Schedule configuration audits from the Options menu. To enter the default settings (daily, starting at 6:30 a.m. today), do step 5. To enter any other setting, go to step 6.
5	In the Schedule Configuration Data Audit dialog, select Default . Go to step 7.
6	To enter non-default settings: <ol style="list-style-type: none"> In the Run every field, specify how often the audit is to run. The value you type here depends on the unit of time you select. For minute(s) the valid values are: 15 to 59 For hour(s) the valid values are: 1 to 23 For day(s) the valid values are: 1 to 7 Select the time button that corresponds to the desired unit of time: minute(s), hour(s), or day(s).

—continued—

Left even

Scheduling an audit of configuration data (continued)

Step	Action
	<ul style="list-style-type: none">c. In the Next run field, type the hours and minutes, separated by a colon (hh:mm).d. In the date field, select today or tomorrow from the chooser menu.
7	Select OK to update the audit schedule.
8	Return to the Configuration Manager main window.

- end -

Editing the APS ID for a ring ADM

Right odd

Each ring ADM must have a unique APS ID.

CAUTION

Risk of traffic loss

This procedure might affect traffic if it is performed while a protection switch is active.

Step	Action
1	From the Configuration Manager main window, select the ring you want to edit.
2	Select Edit configuration from the ring list item menu.
3	In the Configured Ring ADM list in the Configuration Manager: Ring window, select the ring ADM to be edited.
4	Select Edit from the list item menu for the ring ADM.
5	From the cascade menu that appears, select APS ID .
6	In the Ring ADM APS ID field of the Edit Ring ADM APS Id dialog, select the new ID from the chooser menu.
7	Select OK to update the APS ID and close the dialog.
8	Repeat steps 3 to 7 for each APS ID to be edited.
9	Select Save and send configuration , then select Yes to continue the operation.
10	Select Done to return to the Configuration Manager: Ring window.
11	To save the revised configuration data, select Transfer data to backup OPC from the Options menu.
12	Select Yes to confirm the save operation.
13	Select Done to return to the Configuration Manager: Ring window.

- end -

Left even

Sending configuration data to a ring ADM

Step	Action
1	In the Configuration Manager main window, select the ring that contains the ring ADM.
2	Select Edit configuration from the ring list item menu.
3	From the Configured Ring ADM list in the Configuration Manager: Ring window, select the ring ADM that requires new configuration data.
4	Select Send node map to NE from the list item menu for the ADM, then select Yes .
5	Select Done to close the confirmation dialog.

- end -

Editing the ring name

Step	Action
1	In the Configuration Manager main window, select the ring you want to edit.
2	Select Edit configuration from the ring list item menu.
3	In the Configuration Manager: Ring window, select Edit Configuration Name from the Options menu.
4	In the Name field of the Edit Configuration dialog, backspace over the existing name and type a new name (up to 20 characters).
5	Select OK , then select Yes to complete the operation.

- end -

Setting up connections at the OPC

This task is performed at the OPC. For a summary of the keystrokes required to navigate in an OPC screen, see “Using the OPC UI” on page 2.

If you are logged in to the primary OPC, your connection changes are transferred to the backup OPC when you save them. If you are logged in to the backup OPC, you must repeat the connection changes on the primary OPC when it becomes active.

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Provisioning and Operations Procedures*, 323-3001-310, in *Operations, Administration, and Provisioning*, Volume 4B.

Modifying the list of connections

Step	Action
1	From the Connection Manager main window, display the View menu. To sort the connections in the list, go to step 2. To filter connections from the list, go to step 3.
2	To sort the connections: <ol style="list-style-type: none"> a. Select Sort from the View menu. b. From the cascade menu that appears, select the sorting option. Go to step 1.
3	From the View menu, select Filter . <i>The Filter dialog displays all NEs in the OPC span of control</i>

—continued—

Right odd

Left even

Modifying the list of connections (continued)

Step	Action														
4	Determine what you want to do: <table border="1"><thead><tr><th>If you want to display</th><th>Then do</th></tr></thead><tbody><tr><td>no STS connections</td><td>step 5</td></tr><tr><td>only new or modified connections</td><td>step 6</td></tr><tr><td>STS- and VT-managed connections</td><td>step 7</td></tr><tr><td>only STS-managed connections</td><td>step 8</td></tr><tr><td>only VT-managed connections</td><td>step 9</td></tr><tr><td>the revised connection list to confirm the revisions</td><td>step 10</td></tr></tbody></table>	If you want to display	Then do	no STS connections	step 5	only new or modified connections	step 6	STS- and VT-managed connections	step 7	only STS-managed connections	step 8	only VT-managed connections	step 9	the revised connection list to confirm the revisions	step 10
If you want to display	Then do														
no STS connections	step 5														
only new or modified connections	step 6														
STS- and VT-managed connections	step 7														
only STS-managed connections	step 8														
only VT-managed connections	step 9														
the revised connection list to confirm the revisions	step 10														
5	To exclude all STS connections: <ol style="list-style-type: none">Display the list item menu for an end NE on the connection you want to exclude and select Remove.From the cascade menu that appears, select: This NE to exclude the selected NE, or This Configuration to exclude all NEs in the ring.Move to the other end NE for the connection and repeat substeps a and b.Select Apply to revise the list as specified. Go to step 4.														
6	To display new or modified connections only, select New or modified connections only in the Filter dialog. Go to step 4.														
7	To display STS-managed and VT-managed connections, select All in the Filter dialog. Go to step 4.														
8	To display only STS-managed connections, select STS-managed only in the Filter dialog. Go to step 4.														
9	To display only VT-managed connections, select VT-managed only in the Filter dialog. Go to step 4.														

—continued—

Modifying the list of connections (continued)

Step	Action
10	To confirm that the revisions have been applied, display the revised Connection list in the main window (Ctrl_W +). If you want to return to the Filter dialog and select another option, press +. Otherwise, select OK to close the Filter dialog and return to the Connection Manager main window.

- end -

Finding available tributaries

Step	Action						
1	From the Connection Manager main window, display the Options menu (Ctrl_L T, then Shift +).						
2	Display the Options menu (Ctrl_L T, then Shift +), and select Show tributary usage .						
3	In the Configuration field of the Tributary Usage dialog, select the required configuration from the chooser menu.						
4	In the NE field, select, from the chooser menu, one of the end NEs in the connection. <i>The NE ID appears in the field, and associated tributary facilities appear in the Tributary list.</i>						
5	Do one of the following:						
	<table border="1"> <thead> <tr> <th>If you are provisioning</th> <th>Then go to</th> </tr> </thead> <tbody> <tr> <td>an STS-1 or STS-3c connection</td> <td>step 6</td> </tr> <tr> <td>a VT1.5 connection</td> <td>step 8</td> </tr> </tbody> </table>	If you are provisioning	Then go to	an STS-1 or STS-3c connection	step 6	a VT1.5 connection	step 8
If you are provisioning	Then go to						
an STS-1 or STS-3c connection	step 6						
a VT1.5 connection	step 8						
6	For an STS-1 or STS-3c connection, locate an available tributary facility (not "VT-managed" or "unavailable") in the Tributary list and note the card type, circuit pack group number, and port number.						

—continued—

Right odd

Left even

Finding available tributaries (continued)

Step	Action						
7	Repeat steps 4 and 6 for the other end NE in the connection. Go to step 16.						
8	For a VT1.5 connection, locate (in the Tributary list) a DS-1 tributary that is available or VT-managed and note the card type and circuit pack group number.						
	<table border="1"> <thead> <tr> <th>If the tributary is</th> <th>Then</th> </tr> </thead> <tbody> <tr> <td>available</td> <td>You can use any port for the VT1.5 connection. Go to step 15.</td> </tr> <tr> <td>VT-managed</td> <td>You must view the tributary subrate usage to find an available port on the tributary. Go to step 9.</td> </tr> </tbody> </table>	If the tributary is	Then	available	You can use any port for the VT1.5 connection. Go to step 15.	VT-managed	You must view the tributary subrate usage to find an available port on the tributary. Go to step 9.
If the tributary is	Then						
available	You can use any port for the VT1.5 connection. Go to step 15.						
VT-managed	You must view the tributary subrate usage to find an available port on the tributary. Go to step 9.						
9	Select a VT-managed tributary in the Tributary Usage list.						
10	Select View Subrate Usage from the tributary list item menu.						
11	Locate an available port in the Subrate Usage dialog and note the port number.						
12	Select Done to close the Subrate Usage dialog and return to the Tributary Usage dialog.						
13	In the NE field, select the other end NE from the chooser menu.						
14	Repeat steps 9 to 12 for the other end NE in the connection. Go to step 16.						
15	In the NE field, select, from the chooser menu, the other end NE and note the card type and circuit pack group number.						
16	Select Done to close the Tributary Usage dialog.						

- end -

Finding available channels

Right odd

Step	Action						
1	From the Connection Manager main window, display the Options menu (Ctrl_L T, then Shift +).						
2	Select Show STS-1 channel usage in the Options menu.						
3	In the Configuration field of the resulting dialog, select the required configuration from the chooser menu.						
4	In the End NE A field, select, from the chooser menu, one of the end NEs that terminate the connection.						
5	In the End NE Z field, select the other end NE from the chooser menu.						
6	Do one of the following:						
	<table border="1"> <thead> <tr> <th>If you are provisioning</th> <th>Then go to</th> </tr> </thead> <tbody> <tr> <td>an STS-1 or STS-3c connection</td> <td>step 7</td> </tr> <tr> <td>a VT1.5 connection</td> <td>step 9</td> </tr> </tbody> </table>	If you are provisioning	Then go to	an STS-1 or STS-3c connection	step 7	a VT1.5 connection	step 9
If you are provisioning	Then go to						
an STS-1 or STS-3c connection	step 7						
a VT1.5 connection	step 9						
7	For an STS-1 connection, locate an available STS-1 channel in the STS-1 Usage list, and note the channel number. For an STS-3c connection, locate three available STS-1 channels that are consecutive and adjacent, and note the first channel number (1, 4, 7, or 10).						
8	Select Done to return to the Connection Manager main window. Go to step 12.						
9	For a VT1.5 connection: If the Usage column shows Not available and the Complete VT-Managed STS-1 Channel column shows Available, the channel provides contiguous VT-managed STS-1 bandwidth. To find out if there is available VT channel bandwidth, select an STS-1 channel that shows Not Available in the Usage column and Available in the Complete VT-Managed STS-1 Channel column.						
10	Select Show VT Channel Usage from the list item menu for the highlighted channel.						
11	In the VT Channel Usage dialog, locate an available VT group and number and note this information.						
12	Select Done twice to return to the Connection Manager main window.						

- end -

Left even

Adding an STS connection

Step	Action
1	In the Connection Manager main window, select Add .
2	In the Connection ID field in the Add connection dialog, type a unique name for the connection (up to 40 alphanumeric characters). This is an optional field.
3	In the Configuration field, select the required configuration from the chooser menu.
4	Specify the connection details: <ol style="list-style-type: none"> a. In the STS-1 Channel field, select the STS-1 channel from the chooser menu. <p>Note: To set up a single connection for an STS-3c signal, manually connect three consecutive STS-1 channels. STS-3c connections are only supported on channels 1 to 3, 4 to 6, 7 to 9, or 10 to 12.</p> <ol style="list-style-type: none"> b. In the Level field, select VT-managed or STS-managed. c. In the End NE A field, select from the chooser menu one of the end NEs that terminate the connection. d. In the Tributary field, type the tributary facility information you noted in the list of STS-1 connections. <p><i>The Group and Slot fields are automatically filled in.</i></p> <p>Note: When adding an STS-1 connection between DS1s to obtain end-to-end continuity, ensure that an odd circuit pack group at one end is connected to an odd circuit pack group at the other end (for example, G5 to G1, or G3 to G7).</p> <ol style="list-style-type: none"> e. In the STS-1 Channel field, type the channel information you noted in the list of STS connections. f. Move to the End NE Z field and repeat substeps c to e for the other end NE in the connection.
5	Select OK , then select Yes to confirm the data.
6	Select OK to return to the Connection Manager main window.

- end -

Adding a VT connection

To provision VT1.5 connections, you must first add VT-managed STS-1 connections to the connection data.

- | Step | Action |
|------|---|
| 1 | In the Connection Manager main window, select Add . |
| 2 | In the Connection ID field, type a unique name for the new connection. |
| 3 | In the Configuration field, select the required configuration from the chooser menu. |
| 4 | Specify the connection details: <ol style="list-style-type: none"> In the STS-1 Channel field, type the STS-1 channel number from your list. In the Level field, select VT-Managed from the chooser menu. In the End NE A field, select, from the chooser menu, the NE at one end of the connection. In the End NE Z field, select, from the chooser menu, the other end NE in the connection. Select the Route button corresponding to the correct route. |
| 5 | Select Apply . |
| 6 | Check that the connection data is correct, then select Yes and OK . |
| 7 | Select OK to return to the Connection Manager main window. |

If the VT-managed STS-1 connection	Then
spans two or more rings in the same OPC span of control	Repeat steps 1 to 6 for each additional ring. Then go to step 8.
is in a single ring in the same span of control	Go to step 8.

—continued—

Right odd

Left even

Adding a VT connection (continued)

Step	Action								
8	<p>Provision the VT1.5 connections for the VT-managed STS-1 connection:</p> <ol style="list-style-type: none"> Select Manage VT connections from the list item menu for the VT-managed STS-1 connection. Select Add. 								
9	In the Connection ID field, type a unique name for the new connection (up to 40 alphanumeric characters).								
10	In the Tributary field for Connection Termination A, type the VT group and VT number from your list.								
11	In the Tributary field for Connection Termination Z, type the VT group and VT number from your list.								
12	Continue to enter information from your list:								
	<table border="1"> <thead> <tr> <th>If you want to</th> <th>Then do</th> </tr> </thead> <tbody> <tr> <td>select fields to remain on screen when you add a VT1.5 connection using Apply in the VT Connection dialog</td> <td>step 13</td> </tr> <tr> <td>add the connection to the connection list and keep the Add VT Connection dialog open</td> <td>step 14</td> </tr> <tr> <td>add the connection to the connection list and close the Add VT Connection dialog</td> <td>step 16</td> </tr> </tbody> </table>	If you want to	Then do	select fields to remain on screen when you add a VT1.5 connection using Apply in the VT Connection dialog	step 13	add the connection to the connection list and keep the Add VT Connection dialog open	step 14	add the connection to the connection list and close the Add VT Connection dialog	step 16
If you want to	Then do								
select fields to remain on screen when you add a VT1.5 connection using Apply in the VT Connection dialog	step 13								
add the connection to the connection list and keep the Add VT Connection dialog open	step 14								
add the connection to the connection list and close the Add VT Connection dialog	step 16								
13	<p>To select fields to remain on screen:</p> <ol style="list-style-type: none"> Select the Preference button in the Add VT Connection dialog. In the Set Preferences Apply dialog, select the fields you want to preserve and deselect the fields you want to clear. <i>An asterisk appears beside each field you select.</i> Select OK to close the Set Preferences for Apply dialog. 								
14	<p>To add the connection and keep the dialog open:</p> <ol style="list-style-type: none"> In the Add VT Connection dialog, select Apply. Check the data then select Yes to add the connection. 								

—continued—

Adding a VT connection (continued)

Step	Action
15	Repeat steps 9 to 12 to add other connections.
16	Select OK . If the data is correct, select Yes .
17	Select OK to confirm the data and add the connection.

- end -

Editing an STS connection

Step	Action
1	In the Connection Manager main window, move to the Connection ID field, and select the connection to be edited.
2	Select Edit from the list item menu for the connection.
3	In the Connection ID field, type a unique name for the connection, then select OK .
4	Select Yes to confirm the data, then select OK to update the connection data and return to the Connection Manager main window.

- end -

Left even

Editing a VT connection

To edit any connection information other than the connection ID for a VT-managed STS-1 connection, first delete the VT1.5 connections that the VT-managed STS-1 connection carries.

The connection ID can be edited in service. However, the facilities must be out of service before you can edit any other connection information.

CAUTION

Risk of traffic loss

If the facility assignment of a DS1-TIC VT connection is edited with the facilities in service, traffic will be lost. Ensure that the facilities are out of service before editing connection information.

If you want to edit	Then go to
a VT-managed STS connection	step 16
a VT1.5 connection	step 1

Step	Action
1	In the Connection Manager main window, display the Options menu (Ctrl_L T, then Shift +), and select Manage VT connections .
2	In the Configuration field of the Manage VT Connections dialog, select the required configuration from the chooser menu.
3	Specify the connection details: <ol style="list-style-type: none"> a. In the End NE A field, select from the chooser menu one of the end NEs that terminate the connection. b. In the End NE Z field, select from the chooser menu the other end NE that terminates the connection. c. In the STS-1 Channel field, type the STS-1 channel for the connection. d. Select the Route button corresponding to the correct route.
4	In the connection list, move to the VT1.5 connection to be edited.

—continued—

Editing a VT connection (continued)

Right odd

Step	Action
------	--------

5	Select Edit from the list item menu for the connection.
---	---

6	Do one of the following:
---	--------------------------

If you want to change the	Then do
connection ID	step 7
DS1 assignment to tandem service	step 8
DS1 assignment to GR-303 DMS service	step 9
DS1 assignment to TR-08 service	step 10
DS1 assignment to VLCM	step 11
DS1 assignment to Data Direct	step 12
DS1 assignment to unassigned	step 13
To save your changes	step 14

7	In the Connection ID field, type a unique name for the connection. Go to step 6.
---	--

8	In the Facility Assignment field, select Tandem from the chooser menu. Go to step 6.
---	---

9	For GR-303 service:
---	---------------------

Note: Before assigning a facility, unassign the facility and deprovision the line terminations.

a. In the Facility Assignment field, select **Assign as GR-303** from the chooser menu.

b. In the IG Number field of Assign DS1 as GR-303 DMS dialog, select the required IG number from the chooser menu.

The host name appears in the Host Name field and a link number in the RDT Link Number field.

The RDTLink Number assigned to the DS1 port must match the RDTLink number assigned to the port (SMA port for a DMS) to which it is physically connected.

Table RDTINV on the Host contains the RDTLink Number to the port pairings. This number is the next available logical number for the Host.

—continued—

Left even

Editing a VT connection (continued)

Step	Action
	<ul style="list-style-type: none">c. In the RDTLink Number field, type a different number if desired.d. Select OK. Go to step 6.
10	For TR-08 service: <ul style="list-style-type: none">a. In the Facility Assignment field, select Assign as TR-08 from the chooser menu.b. In the System Number field of the Assign DS1 as TR-08 dialog, select the required system number from the chooser menu.c. If you want to change the ID, move to the Link ID field, and select a new link ID from the chooser menu.d. Select OK. Go to step 6.
11	To change the DS1 assignment to VLCM service: <ul style="list-style-type: none">a. Use the arrow keys to move to the Assign as VLCM command.b. In the System Number field, press Ctrl_L (or Keypad 3) to display the chooser menu.c. Select the required system number, then select Space. Go to step 6.
12	To change the DS1 assignment to Data Direct, move to the Assign as Data Direct command, then press Space . Go to step 6.
13	To remove the DS1 assignment, select Unassigned from the chooser menu in the Facility Assignment field. Go to step 6.
14	To save the changes, select OK ; then select Yes to confirm your request.
15	Select OK to update the VT1.5 connection list; then select Done to return to the Connection Manager main window.

—continued—

Editing a VT connection (continued)

Step	Action
16	If you want to edit a VT-managed STS connection: <ol style="list-style-type: none">From the Connection Manager main window, select the VT-managed STS-1 connection to be edited.Select Edit from the connection list item menu.In the Connection ID field, type a unique name for the connection, then select OK.Select Yes to confirm the data, then select OK to update the connection data.
17	Select OK to return to the Connection Manager main window.

- end -

Right odd

Left even

Deleting an STS connection

Use this procedure to delete an STS connection between two network elements in the operations controller (OPC) span of control.

CAUTION

Risk of traffic loss

This procedure affects any traffic being carried by the connection. Ensure that the equipment is out of service before you delete a connection.

When deleting an STS-1 connection that terminates on TIC port 1, if the association to the RFT containing the TIC is up, facility assignments are checked. If there are any facilities assigned for GR-303, TR-08, or Tandem services on that connection, you must unassign the facilities before you delete them.

Step	Action
------	--------

CAUTION

Risk of traffic loss

The Connection Manager allows connections to be deleted when the association to the RFT containing the TIC is down. When the association to the RFT containing the TIC is down, facility assignments cannot be checked. To avoid deleting a connection that might still have DS1 facility assignments, do not delete a connection when the association to the RFT containing the TIC is down.

- 1 In the Connection Manager main window, select the connection you want to delete.
- 2 Select **Delete** from the list item menu.
- 3 Select **Yes** to confirm the change.

- end -

Deleting a VT-managed STS-1 connection

Use this procedure to delete a VT-managed STS-1 connection between two network elements in the OPC span of control. Delete all VT1.5 add-drop and pass-through connections before you perform this procedure.

CAUTION

Risk of traffic loss

This procedure affects any traffic being carried by the connection. Ensure that the equipment is out of service before you delete a connection.

When deleting an STS-1 or VT connection that terminates on TIC port 1, if the association to the RFT containing the TIC is up, facility assignments are checked. If there are any facilities assigned for GR-303, TR-08, or Tandem services on that connection, you must unassign the facilities before you delete them.

Step	Action
------	--------

CAUTION

Risk of traffic loss

The Connection Manager allows connections to be deleted when the association to the RFT containing the TIC is down. When the association to the RFT containing the TIC is down, facility assignments cannot be checked. To avoid deleting a connection that might still have DS1 facility assignments, do not delete a connection when the association to the RFT containing the TIC is down.

Step	Action
------	--------

- 1 In the Connection Manager main window, select the connection you want to delete.
- 2 Select **Show Contained VTs** from the list item menu.
- 3 Select **Delete** from the list item menu.

—continued—

Right odd

Left even

Deleting a VT-managed STS-1 connection (continued)

Step	Action
4	Select Yes then select the Done .
5	Select Delete from the list item menu.
6	Select Yes to confirm the change.

- end -

Deleting a VT connection

Use this procedure to delete a VT connection between two network elements in the OPC span of control. The connection is removed permanently from the OPC and network element connection data.

CAUTION

Risk of traffic loss

This procedure affects any traffic being carried by the connection. Ensure that the equipment is out of service before you delete a connection.

The Connection Manager allows connections to be deleted when the association to the RFT containing the TIC is down. When the association to the RFT containing the TIC is down, facility assignments cannot be checked. To avoid deleting a connection that might still have DS1 facility assignments, do not delete a connection when the association to the RFT containing the TIC is down.

When deleting a VT connection that terminates on TIC port 1, if the association to the RFT containing the TIC is up, facility assignments are checked. If there are any facilities assigned for GR-303, TR-08, or Tandem services on that connection, you must unassign the facilities before you delete them.

Step	Action
1	From the Connection Manager main window, display the Options menu and select Manage VT connections .
2	In the Configuration field, select the configuration you want from the chooser menu.
3	In the STS-1 Channel field, enter the STS-1 channel for the connection you want to delete.
4	In the End NE A field, select from the chooser menu one of the end NEs that terminate the connection.
5	In the End NE Z field, select from the chooser menu the other end NE that terminates the connection.

—continued—

Right odd

Left even

Deleting a VT connection (continued)

Step	Action
6	Select the Route button corresponding to the correct route.
7	Select Delete from the list item menu.
8	Select Yes and Done to confirm the change.

- end -

Scheduling an audit of connection data

OPC data is compared with data from all NEs in the OPC span of control. For results of the audit, see the Event Browser.

Step	Action
1	<p>In the Connection Manager main window, display the Options menu (Ctrl_L T, then Shift +) and select Schedule connection audits.</p> <p>To enter the default settings (7 a.m. daily, starting tomorrow, if it is now later than 7 a.m.), do step 2.</p> <p>To change the frequency of the audit, go to step 3.</p>
2	<p>Select Default in the Schedule Connection Data Audit dialog. Go to step 4.</p>
3	<p>To change the frequency of the audit:</p> <ol style="list-style-type: none"> In the Run every field, type how often the audit is to run. The value you type here depends on the unit of time: <ul style="list-style-type: none"> For minute(s), the valid values are: 15 to 59 For hour(s), the valid values are: 1 to 23 For day(s), the valid values are: 1 to 7 Select the Time button that corresponds to the desired unit of time (minutes, hours, or days). In the Next run field, type the hours and minutes, separated by a colon (hh:mm). In the date field, select today or tomorrow from the chooser menu.
4	<p>Select OK to update the audit schedule.</p>

- end -

Right odd

Left even

Provisioning line card services

This task is performed at the OPC. For a summary of the keystrokes required to navigate in an OPC screen, see “Using the OPC UI” on page 2.

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Line Card Provisioning Procedures*, 323-3001-315, in *Operations, Administration, and Provisioning*, Volume 4B.

Bulk-provisioning POTS service on a universal system

When typing a range of shelves or slots, separate the start and end of the range by a dash.

Step	Action
1	In the Default Provisioning tool main window, move to the first NE field.
2	Display the chooser menu and select the NE for which you want to provision circuits. To provision a range of circuits in one or more shelves, go to step 3. To provision all circuits between the NE pair, go to step 6.
3	In the CD shelf field for the NE, type the shelf number or range of shelves to be provisioned.
4	If provisioning a single slot or range of slots in a single shelf, type the slot number or range of slots in the Slot field.
5	Repeat steps 3 and 4 for the other NE. Note: The number of shelves or slots in the range must be the same for both the NE pair.
6	To provision the circuits, select Provision .
7	Check the information displayed then select Yes .
8	Select Done to return to the main window.

- end -

Bulk-provisioning services on a TR-08 shelf

Right odd

Before performing this procedure, assign DS1s for TR-08 service using the Connection Manager tool.

Step	Action
1	From the TR-08 Default Provisioning tool main window, move to the first NE field.
2	Display the chooser menu for the first NE field and select the NE ID of the NE with the links.
3	In the TR-08 System field, select the TR-08 system number from the chooser menu.
4	If the second NE field is not already filled in, select the NE ID from the chooser menu.
5	In the CD Shelf field, type the shelf number.
6	In the Service field for link A, select, from the chooser menu, the type of service to be assigned to the link: POTSRT , UVGRT , COINRT , or DPT . Repeat this step for links B, C, and D.
7	To provision the circuits, select Provision .
8	Check the information displayed then select Yes .
9	Select Done to return to the main window.

- end -

Left even

Adding a new universal circuit

Step	Action
1	From the Provisioning Manager main window, display the Operations menu and select Add Circuit .
2	Tab from field to field while filling in the NE, CDS, and slot information you have readily available.
3	Continue entering data and selecting choices until all fields are filled in then select OK .
4	Specify the circuit details: <ol style="list-style-type: none"> a. In the Circuit ID field, type a CLLI for the circuit (up to 40 characters). b. In the Loop type field for the first NE, type the loop type or select it from the chooser menu. c. In the Service Code field, type the service code, or select it from the chooser menu. (If only one service code is valid for the other NE, the loop type and service code are automatically filled in. Go to substep e.) d. If the loop type and service code are not automatically filled in, enter values in these fields, as in substeps b and c. e. If you want to modify the resulting Line Termination Attributes form, go to step 5. If not, go to step 6.
5	Select the Line Termination Attribute to be modified. <ol style="list-style-type: none"> a. If the attribute has a check button, move to the required option and select it. Go to step 6. b. If the attribute is a data entry field, select the Select All command in the field menu and type the required value.
6	Select OK to save the circuit definition. Note: If a DX service in one NE is connected to a DX service in the other NE, terminate at least one side of the DX circuit before placing it in service.
7	Select OK to initiate the Add Circuit process.
8	Select OK to return to the Provisioning Manager main window.

- end -

Adding a DS1 tandem, DS1 tandem VT, TR-08, or TR-08 VT circuit

Right odd

Step	Action
1	From the Provisioning Manager main window, display the Operations menu and select Add Circuit .
2	Tab from field to field while filling in the information you have readily available.
3	Continue entering data and selecting choices until all fields are filled in then select OK .
4	Select OK to continue. Note: If the Connection Manager tool is used to reassign a DS1 port during a Provisioning Manager session, you must restart the Provisioning Manager tool to reflect the change.
5	Specify the circuit details: <ol style="list-style-type: none"> In the Circuit ID field, type a CLLI for the circuit if desired (maximum of 40 characters). In the Loop Type field, type the loop type, or select it from the chooser menu. Note: Refer to the tables of values for loop types, service codes, and attributes in <i>Line Card Provisioning Procedures</i>, 323-3001-315, in <i>Operations, Administration, and Provisioning</i>, Volume 4B. In the Service Code field, type the service code, or select it from the chooser menu. If you want to modify the resulting Line Termination Attributes form, go to step 6. If not, go to step 7.
6	Select the line termination attribute to be modified. <ol style="list-style-type: none"> If the attribute has a check button, move to the required option and select it. If the attribute is a data entry field, select the Select All command in the field menu and type the required value.

—continued—

Left even

Adding a DS1 tandem, DS1 tandem VT, TR-08, or TR-08 VT circuit (continued)

Step	Action
7	Select OK to save the circuit definition. Note: You may receive a warning, pointing out the location/type of a detected problem. The system will allow the provisioning, but you must correct the problem.
8	Select OK to initiate the add circuit process. Select OK to return to the main window.
9	Repeat from step 2 for each circuit to be added.

- end -

Modifying circuit details

Right odd

Step	Action								
1	From the Provisioning Manager window, display the Operations menu and select Detail Circuit .								
2	In the Type field, select the channel type from the chooser menu: CDS line card , DS1 tandem channel , DS1 TR-08 channel , DS1 tandem VT channel , or TR-08 VT channel								
	<table border="1"> <thead> <tr> <th>If you are modifying a</th> <th>Then do</th> </tr> </thead> <tbody> <tr> <td>CDS line card (universal circuit)</td> <td>step 3</td> </tr> <tr> <td>DS1 tandem or DS1 TR-08 circuit</td> <td>step 4</td> </tr> <tr> <td>DS1 tandem VT or TR-08 VT circuit</td> <td>step 5</td> </tr> </tbody> </table>	If you are modifying a	Then do	CDS line card (universal circuit)	step 3	DS1 tandem or DS1 TR-08 circuit	step 4	DS1 tandem VT or TR-08 VT circuit	step 5
If you are modifying a	Then do								
CDS line card (universal circuit)	step 3								
DS1 tandem or DS1 TR-08 circuit	step 4								
DS1 tandem VT or TR-08 VT circuit	step 5								
3	Specify the universal circuit being modified: <ol style="list-style-type: none"> In the NE field, type the NE ID, NE name, or both, or select it from the chooser menu. In the CD Shelf field, type the CDS number of the shelf containing the circuit (1 to 7). In the Slot field, type the slot number of the circuit, or select it from the chooser menu. Go to step 6. 								
4	Specify the DS1 tandem or DS1 TR-08 circuit being modified: <ol style="list-style-type: none"> In the NE field, type the NE ID, NE name, or both, or select it from the chooser menu. In the Slot field, type the slot number of the circuit, or select it from the chooser menu. In the DS1 Port field, type the DS1 port carrying the circuit (1 to 14), or select it from the chooser menu. In the DS0 Channel field, type the DS0 channel carrying the circuit (1 to 24). Go to step 6. 								
5	Specify the DS1 tandem VT or TR-08 VT circuit being modified: <ol style="list-style-type: none"> In the NE field, type the NE ID, NE name, or both, or select it from the chooser menu. In the VT group field, type the number of the VT group carrying the circuit (1 to 7), or select it from the chooser menu. 								

—continued—

Left even

Modifying circuit details (continued)

- | Step | Action |
|--|--|
| | <ul style="list-style-type: none">c. In the VT number field, type the VT number within the VT group (1 to 4), or select it from the chooser menu.d. In the DS0 Channel field, type the DS0 channel (1 to 24) carrying the circuit. |
| 6 | Select OK to continue. |
| 7 | Change the circuit ID, loop type, or service code as required: <ul style="list-style-type: none">a. To change the circuit ID, select the Select all command in the Field menu, and type the new circuit ID.b. To change the loop type, type the new loop type in the Loop Type field, or select it from the chooser menu.c. To change the service code, type the new service code in the Service Code field, or select it from the chooser menu. <p>If you want to modify the resulting Line Termination Attributes form, go to step 8. If not, go to step 9.</p> |
| <div style="border: 1px solid black; padding: 5px;"><p>CAUTION
Risk of loss of service
For a DDS circuit, service is temporarily interrupted when error correction is turned ON or OFF. For a DDS 56 Kb/s or 64 Kb/s circuit, service is interrupted when error correction is turned ON, until it is turned OFF again, IF a different service already occupies the next consecutive DS0 channel.</p></div> | |
| 8 | Select the Line Termination Attribute. <ul style="list-style-type: none">a. If the attribute has a check button, move to the required option and select it.b. If the attribute is a data entry field, select the Select All command in the field menu and type the required value. |
| 9 | Select OK to save the circuit definition.
Note: For a universal circuit, if a DX service in one NE is connected to a DX service in the other NE, be sure to terminate at least one side of the DX circuit before placing it in service. |

—continued—

Modifying circuit details (continued)

Step	Action
10	Select OK to initiate the modification process.
11	Repeat from step 2 for each circuit of the same type to be modified. Repeat from step 1 to modify circuit details for another type of circuit.

- end -

Right odd

Left even

Deleting a circuit

Perform this procedure to delete any unnecessary circuits after you have bulk-provisioned a CDS.

Step	Action
------	--------

- | | |
|---|--|
| 1 | From the Provisioning Manager window, display the Operations menu and select Delete Circuit . |
| 2 | Specify the circuit: <ol style="list-style-type: none"> In the Type field, select the circuit type from the chooser menu. In the NE field, type the NE ID, NE name, or both, or select it from the chooser menu. |

If you are deleting a	Then do
CDS line card (universal circuit)	step 3
DS1 tandem or DS1 TR-08 circuit	step 4
DS1 tandem VT or TR-08 VT circuit	step 5

- | | |
|---|---|
| 3 | Specify the universal circuit to be deleted: <ol style="list-style-type: none"> In the CD Shelf field, type the CDS number of the shelf that contains the circuit (1 to 7). In the Slot field, type the slot number for the circuit (1 to 96). Go to step 6. |
| 4 | Specify the DS1 tandem or DS1 TR-08 circuit: <ol style="list-style-type: none"> In the DS1 Slot field, type the DS1/VT mapper slot number carrying the circuit, or select it from the chooser menu. In the DS1 Port field, type the DS1 port (1 to 14), or select it from the chooser menu. In the DS0 Channel field, type the DS0 channel (1 to 24) carrying the circuit. Go to step 6. |
| 5 | Specify the DS1 tandem VT or DS1 TR-08 VT circuit to be deleted: <ol style="list-style-type: none"> In the VT group field, type the number of the VT group, or select it from the chooser menu. In the VT number field, type the VT number within the VT group, or select it from the chooser menu. In the DS0 Channel field, type the DS0 channel (1 to 24) carrying the circuit. |

—continued—

Deleting a circuit (continued)

Step	Action
6	Select OK to conclude the circuit definition. Select OK to initiate the deletion process.
7	Repeat from step 2 for each circuit of the same type to be deleted. Repeat from step 1 to delete a circuit of another type.

- end -

Modifying log and alarm settings

This task is performed at the OPC. For a summary of the keystrokes required to navigate in an OPC screen, see “Using the OPC UI” on page 2.

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Line Card Provisioning Procedures*, 323-3001-315, in *Operations, Administration, and Provisioning*, Volume 4B.

Setting service-level logs and alarms

Step	Action
1	From the Alarm Provisioning Manager main window, display the line card alarm provisioning dialog.
2	In the Scope of Provisioning field, select Service level from the chooser menu.
3	Select OK to confirm the selection. To view the current setting of an NE, go to step 4. To clear the service-level log/alarm setting list, go to step 5. To set a service-level trouble event for one NE, go to step 6.

—continued—

Left even

Setting service-level logs and alarms

Step	Action
4	<p>View the current setting:</p> <ol style="list-style-type: none">In the Service level provisioning screen, select the required NE.Select Display Setting, then select OK to confirm the selection.The log/alarm setting list appears, displaying the current setting associated with each service type. Use the tab and arrow keys to view the settings for the selected NE. Go to step 3.
5	<p>Clear the service-level log/alarm setting list:</p> <ol style="list-style-type: none">In the Service level provisioning screen, select Deselect All from the chooser menu.Go to step 3.
6	<p>Set a service-level trouble event for an NE:</p> <ol style="list-style-type: none">In the Service level provisioning screen, select the NE for which you want to set a service-level trouble event.In the Display Setting field, select the type of service.From the chooser menu, select one of these options: Set as default, Set as Log, or Set as Alarm If you select Set as Alarm, use the chooser menu to specify the severity level for the alarm.
7	<p>Select Apply to transfer the alarm information to the selected NE.</p>
8	<p>Select OK to confirm the transfer.</p>
9	<p>Select Cancel twice to return to the Alarm Provisioning Manager window.</p>

- end -

Setting line card-level logs and alarms

Right odd

Step	Action
1	From the Alarm Provisioning Manager main window, display the line card alarm provisioning dialog.
2	In the Scope of Provisioning field, select Line card from the chooser menu.
3	Select OK .
4	Specify the location in the Line card level LC alarm provisioning screen: <ol style="list-style-type: none"> In the NE ID field, select the NE ID from the chooser menu. In the CD Shelf field, select the CD shelf number from the chooser menu. In the Slot number field, enter the number of the slot.
5	If you want to view the current settings, select Current setting .
6	In the Log/Alarm field, select one of these options from the chooser menu: Reset to service-level, Log, or Alarm If you select Set as Alarm, use the chooser menu to specify the severity level for the alarm.
7	Select Apply to transfer the information to the selected NE.
8	Select OK to confirm the transfer.
9	Select Cancel twice to return to the Alarm Provisioning Manager window.

- end -

Left even

Enabling or disabling line card alarms

The LC Equip Alarm Provisioning screen is accessible only if a line card reports events as alarms, not as logs.

Step	Action								
1	<p>From the NE status screen, display the LC Equip Alarm Provisioning screen:</p> <pre>eq lc <cds #> <slot #>; almprov ↵</pre> <p>where</p> <table> <tr> <td><cds #></td> <td>1 to 7 (copper distribution shelf number)</td> </tr> <tr> <td><slot #></td> <td>1 to 96 (line card slot number)</td> </tr> </table> <p>Note 1: To modify alarm reporting on a multi-slot line, display the master slot for the service, not the slave slot.</p> <p>Note 2: For AccessNode Express, display the LC Equip Alarm Provisioning screen by entering:</p> <pre>eq anxic <vm #> <slot #> ↵</pre> <pre>almprov ↵</pre> <p>where</p> <table> <tr> <td><vm #></td> <td>1 to 28 (ANX shelf number)</td> </tr> <tr> <td><slot #></td> <td>1 to 48 (line card slot number)</td> </tr> </table>	<cds #>	1 to 7 (copper distribution shelf number)	<slot #>	1 to 96 (line card slot number)	<vm #>	1 to 28 (ANX shelf number)	<slot #>	1 to 48 (line card slot number)
<cds #>	1 to 7 (copper distribution shelf number)								
<slot #>	1 to 96 (line card slot number)								
<vm #>	1 to 28 (ANX shelf number)								
<slot #>	1 to 48 (line card slot number)								
2	<p>Set individual alarm points to on or off:</p> <pre>editstat <alarm point #> <status> ↵</pre> <pre>y ↵</pre> <p>where</p> <table> <tr> <td><alarm point #></td> <td>Line card fail alarm: 1 Line card missing alarm: 2</td> </tr> <tr> <td><status></td> <td>on or off</td> </tr> </table> <p>Repeat this step to modify alarm generation for other alarm points on this line card.</p> <p style="text-align: center;">—continued—</p>	<alarm point #>	Line card fail alarm: 1 Line card missing alarm: 2	<status>	on or off				
<alarm point #>	Line card fail alarm: 1 Line card missing alarm: 2								
<status>	on or off								

Enabling or disabling line card alarms (continued)

Step	Action
3	To change alarm settings on another line card: select <cds #> <slot #> ↵ Repeat step 2 to modify alarm generation for the line card you selected. - end -

Right odd

Left even

Enabling or disabling ISDN alarms

This procedure enables or disables generation of the loss of synchronization (LOS) alarm for all ISDN circuits in the NE.

Step	Action
------	--------

- | | |
|---|---|
| 1 | Log in to the NE user interface at the RFT. |
| 2 | Invoke the SMCSTMCI command interpreter: |

SMCSTMCI ↵

If you want to	Then go to
view the ISDN LOS Event Notification setting	step 3
change the ISDN LOS Event Notification setting	step 4

- | | |
|---|---------------------------|
| 3 | View the current setting: |
|---|---------------------------|

view_isdn_los_status ↵

- | | |
|---|-----------------------------|
| 4 | Change the current setting: |
|---|-----------------------------|

change_isdn_los_status <status> ↵

y ↵

where

<status> enabled or disabled

Note: If you use this tool to disable ISDN alarms, it does not clear existing ISDN NT1 alarms. This tool disables new ISDN alarms once the NT1 is placed on line.

- | | |
|---|---|
| 5 | Leave the SMCSTMCI command interpreter: |
|---|---|

quit ↵

- end -

Managing NE and OPC databases

Some of these tasks are performed at the OPC. For a summary of the keystrokes required to navigate in an OPC screen, see “Using the OPC UI” on page 2.

For additional information on any procedure in this section, refer to the corresponding detailed procedure in *Data Administration Procedures*, 323-3001-304, in *Operations, Administration, and Provisioning*, Volume 4A.

Performing a manual NE database backup

Step	Action
1	<p>From the NE Status screen, display the equipment shelf screen and back up the NE database to the OPC:</p> <p>eq sh; backupdb ↵ y ↵</p> <p><i>The backup process can take up to five minutes.</i></p>
2	<p>Check the logs buffer to confirm the completion of the backup:</p> <p>logutil ↵ open FWDB ↵</p> <p><i>The FWDB logs show the status of the backup. An FWDB300-series log indicates if there is a problem with the backup. An FWDB400-series log indicates a successful backup.</i></p> <p><i>Refer to Log Report Manual, 323-3001-840, in Maintenance, Volume 5B.</i></p>
3	<p>Quit Logutil:</p> <p>quit ↵</p>

- end -

Left even

Saving OPC data to tape

Before starting, insert the backup tape in the local OPC tape drive. The Save operation can take up to 12 minutes.

Step	Action
------	--------

CAUTION

Risk of damaging circuit packs

Electrostatic discharge can damage electrostatic-sensitive devices. Always ground yourself before handling tapes.

- 1 Select the OPC Save and Restore tool from the OPC Admin toolset.
- 2 In the OPC Save and Restore main window, select **Display tape details**.
- 3 In the resulting Tape Details dialog, verify that the correct tape is inserted, then select **Done**.
- 4 In the OPC Save and Restore main window, select **Save OPC data to tape**, then select **Yes** to confirm your request.
- 5 Do one of the following:
 - a. If the tape is blank, select **Done** to continue the save operation. Go to step 6.
 - b. If you are overwriting existing data, select **OK**. Go to step 6.
 - c. If you want to cancel the operation, select **Cancel**, then select **OK** to confirm your cancellation request.
- 6 Select **Done** to close the completion dialog.

- end -

Scheduling an OPC backup

Use this procedure to start, define, or discontinue a scheduled backup operation.

Step	Action
------	--------

CAUTION

Risk of damaging circuit packs

Electrostatic discharge can damage electrostatic-sensitive devices. Always ground yourself before handling tapes.

- 1 Select the OPC Save and Restore tool from the OPC Admin toolset.

If you want to	Then go to
begin a scheduled backup	step 2
edit an existing backup schedule	step 3
discontinue a currently scheduled backup	step 8

Note: The default state for the scheduler is disabled.

- 2 In the OPC Save and Restore window, select **Enable scheduler** then select **Done**.

- 3 Select **Edit schedule**.

If you want to use	Then go to
the default schedule (04:00 starting tomorrow)	step 4
your own schedule	step 5

- 4 Select **Default** then go to step 7.

—continued—

Left even

Scheduling an OPC backup (continued)

-
- | Step | Action |
|------|--------|
|------|--------|
-
- 5 Define the frequency of the backups.
- a. In the Run every field, enter how often you want the backups to occur.
- | If you select | Then the valid range is |
|---------------|-------------------------|
| Hour(s) | 2 to 23 |
| Day(s) | 1 to 99 |
- b. Select the Time button (Hours or Days) you want.
- 6 In the Next Run fields:
- a. Enter the time when you want the backups to occur, using the format, hh:mm, where hh is the hour (based on a 24-hour clock) and mm is the minutes.
 - b. Enter the date when you want the next backup to occur. The only valid dates are today's date and tomorrow's date. You can either enter the date directly into the field, using the format mm/dd/yyyy, where mm is the month, dd is the day and yyyy is the year.
- 7 Select **OK**.
- 8 Discontinue the scheduled backups by selecting **Disable scheduler**.

- end -

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