

Configuring Unchannelized OC Modules

11

The NMC-RX application supports the following unchannelized optical carrier (OC) line modules:

- OC3 (dual port)
- OCx/STMx ATM
- OCx/STMx POS

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Overview

OC modules provide high-speed communications between E-series routers and core routers in an ATM network. Several versions of unchannelized OC modules can be configured with the NMC-RX application.

OC line modules pair with I/O modules to provide particular capabilities and connections. For more information on unchannelized OC modules, see Table 11-1 and the *E-Series Physical Layer Configuration Guide*.

Table 11-1 OCx/STMx unchannelized line modules and I/O modules

Line Module	I/O Module	Description	NMC-RX Software Reference Name
OC3 (dual port)	OC3	2-port, supporting ATM and POS	OC3-2 port
OCx/STMx ATM	OC3-4	4-port, concatenated OC3/STM-1 module for ATM	OC3 ATM-4 port
	OC12/STM4	1-port, concatenated OC12/STM-4 module for ATM	OC12 ATM-1 port
OCx/STMx POS	OC3-4	4-port, concatenated OC3/STM-1 module for POS	OC3 POS-4 port
	OC12/STM4	1-port, concatenated OC12/STM-4 module for POS	OC12 POS-1 port

Configuration Tasks

To configure an unchannelized OC module, complete the following tasks:

- 1 Set the parameters that provide basic identification and status information about the module.
- 2 Set the line interface parameters.
- 3 Configure an ATM, POS, or Frame Relay interface on the module. (See *Chapter 16, Configuring ATM*; *Chapter 24, Configuring POS*; or *Chapter 22, Configuring Frame Relay*.)

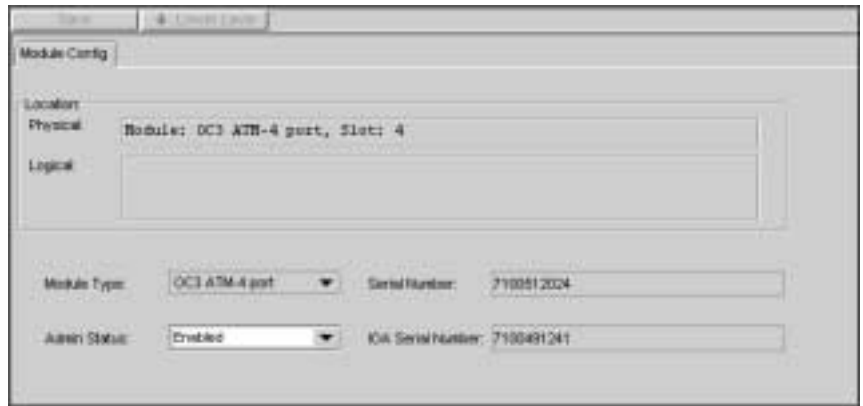
Configuring Modules

You can configure only a module's admin status (enabled or disabled).

To configure a module:

- 1 In the Instance Explorer list, select the module you want to configure.
- 2 Right-click, and click Configure.

The Module Config tab appears in the work area.



3 Set the module parameters. See Table 11-2.

Table 11-2 Module configuration parameters

Field	Description
Module Type	Module type (uneditable)
Admin Status	<ul style="list-style-type: none"> Enabled – module is running Disabled – module is not in operation
Serial Number	Ten-digit identification number (S/N) on the module's faceplate. This value is automatically retrieved from the device and is uneditable.
IOA Serial Number	Ten-digit identification number (S/N) on the input/output adapter's faceplate. This value is automatically retrieved from the device and is uneditable.

4 Click Save.

The settings are saved.

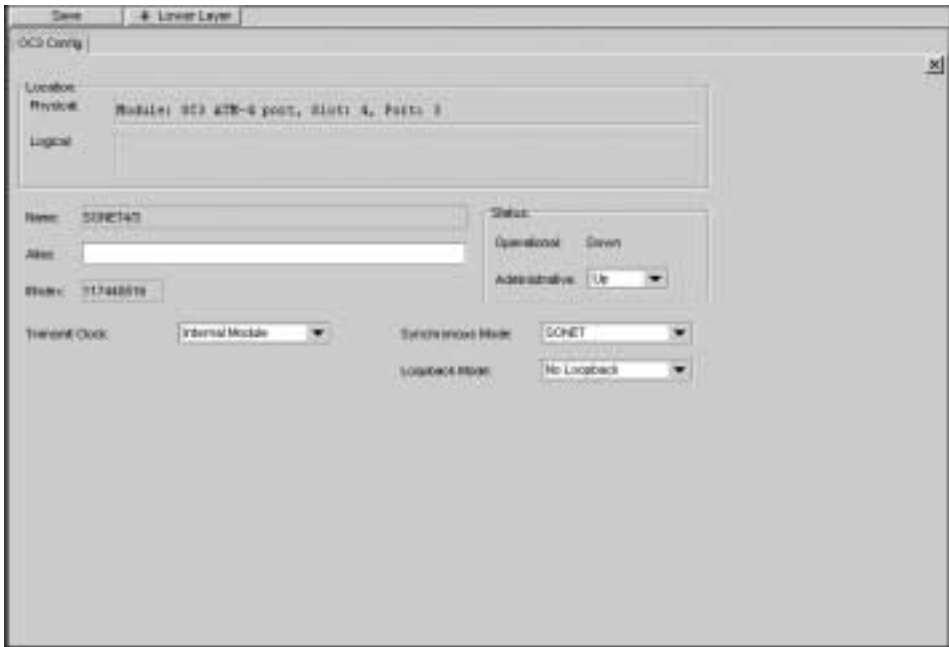
Configuring a Line Interface

An OC module can have one, two, four, or thirty-two line interfaces.

To configure a line interface:

- 1 In the Instance Explorer, select the line interface you want to configure.
- 2 Right-click, and click Configure.

The OC Config tab appears in the work area.



- 3 Set the line interface parameters. See Table 11-3.

Table 11-3 Line interface parameters

Field	Description
Name	Identifies the interface; generated automatically
Alias	Description of the interface; 0–15 characters; default: blank
IfIndex	Identifies the interface on the particular line interface; generated automatically
Operational	Current operational status of the interface
Administrative	Desired status of the interface: Up/Down; default: Up

Table 11-3 Line interface parameters (continued)

Field	Description
Transmit Clock	<ul style="list-style-type: none"> • Loop Timing – device receives its clocking from a network source • Internal Module – device receives its clocking from a network source • Internal Chassis – device receives its clocking from the configured system clock
Synchronous Mode	<ul style="list-style-type: none"> • SONET – Synchronous Optical Network • SDH – Synchronous Digital Hierarchy
Loopback Mode	<ul style="list-style-type: none"> • No Loopback – disables loopback mode • Line Loopback – loops the data toward the network; connects the received network signal directly to the transmit network signal line. • Internal Loopback – loops the data toward the module’s interface; connects the local transmitted signal to the local received signal.

4 When you finish setting the line interface’s parameters, click Save.

