

## Chapter 12

# Configuring Unchannelized OC Modules

This chapter describes how to configure the following unchannelized optical carrier (OC) line modules:

- OCx/STMx ATM
- OCx/STMx POS

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## Overview

The NMC-RX application supports OC modules that 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 about unchannelized OC modules, see Table 37 and the *JUNOS Physical Layer Configuration Guide*.

**Table 37: OCx/STMx Unchannelized Line Modules and I/O Modules**

Line Module	I/O Module	Description	NMC-RX Software Reference Name
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
OC48/STM16 POS	OC 48 FRAME APS	1-port, concatenated OC48/STM-16 module for POS  <b>NOTE:</b> Requires two adjacent slots: either slots 2 and 3 or slots 4 and 5; second slot is listed as "EMPTY" in the Instance Explorer; only available on the ERX-1440 router	OC48 POS-1 port

## Configuration Tasks

To configure an unchannelized OC module:

1. Set the parameters that provide basic identification and status information about the module.
2. Set the line interface parameters.
3. Configure an ATM or POS interface on the module. (See *Chapter 17, Configuring ATM* or *Chapter 25, Configuring POS*.)

## 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 select Configure.

The Module Config tab appears in the work area.

3. Set the module parameters (Table 38).

**Table 38: Module Configuration Parameters**

Field	Description
Module Type	Module type (cannot edit)
Admin Status	<ul style="list-style-type: none"> <li>■ Enabled—Module is running</li> <li>■ Disabled—Module is not in operation</li> </ul>
Serial Number	Ten-digit identification number (S/N) on the module's faceplate. This value is automatically retrieved from the device, and you cannot edit it.
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 you cannot edit it.

4. Click Save.

The settings are saved.

## Configuring a Line Interface

An OCx module can have one, two, or four line interfaces.

To configure a line interface:

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

The OCx Config tab appears in the work area.

3. Set the line interface parameters (Table 39).

**Table 39: 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
Transmit Clock	<ul style="list-style-type: none"> <li>■ Loop Timing—Device receives its clocking from a network source</li> <li>■ Internal Module—Device receives its clocking from a network source</li> <li>■ Internal Chassis—Device receives its clocking from the configured system clock</li> </ul>

**Table 39: Line Interface Parameters (continued)**

Field	Description
Synchronous Mode	<ul style="list-style-type: none"> <li>■ SONET—Synchronous Optical Network</li> <li>■ SDH—Synchronous Digital Hierarchy</li> </ul>
Loopback Mode	<ul style="list-style-type: none"> <li>■ No Loopback—Disables loopback mode</li> <li>■ Line Loopback—Loops the data toward the network; connects the received network signal directly to the transmit network signal line.</li> <li>■ Internal Loopback—Loops the data toward the interface of the module; connects the local transmitted signal to the local received signal.</li> </ul>

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

