



CHAPTER 11

Managing Inventory

This chapter describes how to manage inventory using Cisco Prime Optical. It contains the following sections:

- [11.1 Overview, page 11-1](#)
- [11.2 Domain NE Table, page 11-2](#)
- [11.3 Equipment Inventory Table, page 11-9](#)

11.1 Overview

Managing inventory involves maintaining a record of all of the network element (NE) resources installed in the network to support the provisioning of services. It should include collecting information about locations, quantities of equipment, model numbers, serial numbers, versions, installation dates, and so on.

Inventory management is one of the fundamental network management functions. When forecasting service growth or even attempting to provision a new service, it is necessary to know the current network inventory. Can the existing inventory support the forecast growth or new service requests, or must additional equipment be ordered and installed onsite? Can your hardware support a new software release? You will need to check the type and revision of hardware to determine the answer. Has a recall been issued by the vendor for a certain hardware revision of a board? Are you affected? You will need to check the inventory again.

Prime Optical allows you to add NEs, and it autodiscovers the details about the NE itself and the contained physical inventory. Prime Optical remains automatically synchronized with changes relating to inventory that might occur in the network. All inventory information is stored in the Prime Optical database and is available at any time.

Inventory management includes the discovery of the NEs from the EMS, and ongoing synchronization with the NEs. It also includes the ability to provide the inventory to a higher-level NMS through a northbound interface.

Prime Optical can quickly capture, display, and store an inventory of the NEs on your network. It allows you to view information about the NEs, installed software, and software licenses. Prime Optical also lets you edit the inventory information for the NEs in your network.

For passive NEs, you can add inventory information manually. You can also add inventory information for unmanaged NEs or for NEs from other vendors.

Prime Optical allows you to export inventory reports to a flat text file with a user-specified delimiter character. This file can be imported easily into a spreadsheet application for further analysis.

**Note**

Japanese characters are supported for inventory reports. When generating a report from the Domain NE table, choose **File > HTML Report** for a report that includes Japanese characters.

Prime Optical provides two levels of inventory reports:

- A complete list of all the NEs that belong to a specific group or to the entire domain. See [11.2 Domain NE Table, page 11-2](#).
- A detailed list of cards and modules installed on the NEs. See [11.3 Equipment Inventory Table, page 11-9](#).

11.2 Domain NE Table

The Domain NE table displays an inventory of all the NEs in the selected Prime Optical domain, group, or subnetwork. Based on your selection criteria, the Domain NE table tells you which NEs are in or out of service, available or unavailable, and so on. The following figure shows an example of the Domain NE table.

Figure 11-1 Domain NE Table

Alias ID	NE Model	IP Address	Active IP Address	Communication State	Operational State	PM C
15454-ANSI-164	Cisco ONS 15454	172.16.0.0	172.16.0.0	Available	In Service	Disa

Column Name	Value
Alias ID	15454-ANSI-164
NE Model	Cisco ONS 15454
IP Address	172.16.0.0
Active IP Address	172.16.0.0
Communication State	Available
Operational State	In Service
PM Collection State	Disabled

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**Note**

See [Appendix A, “Icons and Menus Displayed in Prime Optical”](#) for details of all the icons displayed in the window.

11.2.1 Viewing the Domain NE Table

Select a node in the Domain Explorer or Subnetwork Explorer tree and choose **File > Domain NE Table**. The following table provides descriptions.

Table 11-1 Field Descriptions for the Domain NE Table

Field	Description
Alias ID	Alias name of the NE.
NE Model	Selected NE model: <ul style="list-style-type: none"> • Cisco ONS 15216 • Cisco ONS 15305 • Cisco ONS 15310 CL • Cisco ONS 15310 MA or Cisco ONS 15310 MA SDH • Cisco ONS 15327 • Cisco ONS 15454 or Cisco ONS 15454 SDH • Cisco ONS 15530 • Cisco ONS 15540 • Cisco ONS 15600 or Cisco ONS 15600 SDH
IP Address	IP address of the NE, in IPv4 or IPv6 format. Note If the node is a gateway network element (GNE) or a LAN-connected network element (LNE), the NE IP address is the same as the active IP address.
Active IP Address	IP address of the GNE, in IPv4 or IPv6 format.
Communication State	Connectivity state between Prime Optical and the selected NE: Available, Unavailable, and Initialization Failed.
Operational State	Current operational state of the system: In Service, Under Maintenance, or Out of Service.
PM Collection State (not applicable to ONS 15216)	Whether performance monitoring collection is enabled or disabled. You can configure the PM collection state in the Domain Explorer > Network Element Properties pane > Status tab.
Robust PM Collection State (not applicable to all NEs)	Whether robust PM collection is enabled or disabled. You can configure the robust PM collection state in the Domain Explorer > Network Element Properties pane > Status tab. Note You cannot collect robust PM data until at least one 15-minute or one 1-day interval has been collected in normal operation. Note Robust PM data collection applies only to CTC-based NEs and to the ONS 15305, ONS 15530, and ONS 15540. Robust PM collection is not supported for the ONS 15216. Note You can collect up to 8 hours of 15-minute robust PM data for CTC-based NEs. Note You can collect up to the previous day's 1-day robust PM data for CTC-based NEs. Note For the ONS 15530 and ONS 15540 ESPx, you can collect up to 24 hours (96 previous missed intervals) of 15-minute robust PM data and up to the previous day's 1-day robust PM data. Note For the ONS 15540 ESP, you can collect up to 24 hours (96 previous missed intervals) of 15-minute robust PM data.
Version	NE software version that is running.
GNE ID	ID for the GNE on the selected NE's ring.

Table 11-1 Field Descriptions for the Domain NE Table (continued)

Field	Description
Subnetwork ID	Name of the subnetwork associated with the selected NE.
Network Partition ID	Name of the network partition to which this NE is associated.
NE Type	Type of NE.
Location Name	Geographic location of the NE.
Description	Information that a user might have entered to describe the selected NE.
NE ID	Name of the selected NE.
Designated Socks Server	Indicates whether or not the selected CTC-based SONET or CTC-based SDH NE serves as a designated SOCKS server (DSS). If so, the NE manages connectivity among other NEs through firewalls. Values for the DSS column are Yes, No, and Not Applicable.

**Tip**

The Dashboard window displays an NE counter icon. This counter lists the total number of NEs in the domain. Click the counter to open the Domain NE table.

11.2.2 Filtering the Domain NE Table

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- Step 1** Select a node in the Domain Explorer or Subnetwork Explorer tree.
 - Step 2** Choose **File > Domain NE Table**. The Domain NE table opens. (See [Figure 11-1](#).)
 - Step 3** Choose **File > Filter** (or click the **Filter Data** tool). The Filter dialog box opens.
 - Step 4** Specify the filter criteria to display the results in the Domain NE table. The following table describes the fields in the filter.
 - Step 5** Click **OK**. The filtered data is displayed in the Domain NE table.
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Table 11-2 Field Descriptions for the Domain NE Table Filter

Field	Description
NE ID Tab	
Available NE ID/Selected NE ID	List of available NE IDs. Click Add and Remove to move NE IDs to and from the Selected NE ID list. Note Use the scroll bars at the bottom and right side of the Available NE ID list and the Selected NE ID list to display all options in the lists.
Inventory Tab	
Communication State	Filters NEs according to their communication state (Available, Unavailable, and Initialization Failed).
Operational State	Filters NEs according to their operational state (In Service, Out of Service, Preprovisioned, or Under Maintenance).
PM Collection State	Filters NEs according to their PM collection state (Enabled; 5,10,15 Min Collection; 1 Day Collection; Disabled).

Table 11-2 Field Descriptions for the Domain NE Table Filter (continued)

Field	Description
Robust PM Collection State	Filters NEs according to their robust PM data collection state (Enabled, 15 Min Collection, 1 Day Collection, Disabled).
GNE	Filters domain inventory data based on GNE IDs. You can select <ALL> to filter all GNE IDs or you can choose a particular GNE ID from the drop-down list.
NP ID Tab	
Available Network Partitions/Selected Network Partitions	Filters domain inventory data based on network partition. Click Add and Remove to move network partitions to and from the Selected Network Partitions list. Note Use the scroll bars at the bottom and right side of the Available Network Partitions list and the Selected Network Partitions list to display all options in the lists.

11.2.3 Viewing the ENE Devices Table

Use the ENE Devices table to view subtending end network elements (ENEs) that are supported by a given GNE. The GNE-ENE relationship is calculated on a theoretical projection, which does not necessarily equate to a real network situation.

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- Step 1** Select a GNE node in the Domain Explorer or Subnetwork Explorer tree.
- Step 2** Choose **File > ENE Devices**. The ENE Devices table opens.

The fields in the ENE Devices table are identical to the fields in the Domain NE table (see [Table 11-1](#)), except that the ENE Devices table shows only those ENEs that are associated with the selected GNE.

11.2.4 Viewing the TNE Devices Table

Use the TNE Devices table to view information about each tunnel NE (TNE) that Prime Optical manages. The Edit menu options allow you to open, close, or modify an individual TL1 tunnel.

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- Step 1** Select any node in the Domain Explorer or Subnetwork Explorer tree.
- Step 2** Choose **File > TNE Devices**. The TNE Devices (Tunnel) table opens. The following table provides descriptions.
- Step 3** (Optional) To open, close, or modify a TL1 tunnel, select an individual TNE in the table and choose any of the following menu options:
- **Edit > Open Tunnel**—Opens a TL1 tunnel on the selected TNE. See [11.2.6 Opening a TL1 Tunnel, page 11-7](#).
 - **Edit > Close Tunnel**—Closes the TL1 tunnel on the selected TNE. See [11.2.7 Closing a TL1 Tunnel, page 11-7](#).
 - **Edit > Modify Tunnel**—Allows you to modify the settings of the selected TNE. See [11.2.8 Modifying a TL1 Tunnel, page 11-8](#).
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Table 11-3 Field Descriptions for the TNE Devices Table

Field	Description
TNE ID	ID of the selected tunnel NE.
Alias ID	Alias of the selected tunnel NE.
GNE IP Address	IP address of the non-Cisco GNE.
TL1 Port Number	Port number used by the non-Cisco GNE to support the TL1 tunnel.
Encoding Type	Type of encoding used by the selected tunnel NE. Values are LV + Base64 Payload, LV + Binary Payload, or Raw.
Tunnel Status	Status of the selected TL1 tunnel.

11.2.5 Filtering the TNE Devices Table

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- Step 1** Select any node in the Domain Explorer or Subnetwork Explorer tree.
- Step 2** Choose **File > TNE Devices**. The TNE Devices (Tunnel) table opens.
- Step 3** Choose **File > Filter** (or click the **Filter Data** tool). The Filter dialog box opens.
- Step 4** Specify the filter criteria to display the results in the TNE Devices (Tunnel) table. The following table describes the fields in the filter.
- Step 5** Click **OK**. The filtered data is displayed in the TNE Devices (Tunnel) table.
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Table 11-4 Field Descriptions for the TNE Devices Table Filter

Field	Description
TNE ID Tab	
Available Network Partitions/Selected Network Partitions	Filters TL1 tunnel data based on network partition. Click Add and Remove to move network partitions to and from the Selected Network Partitions list.
GNE IP Address Tab	
Available Network Partitions/Selected Network Partitions	Filters GNE IP address data based on network partition. Click Add and Remove to move network partitions to and from the Selected Network Partitions list.
Tunnel Status Tab	
Connection Type	Filters TL1 tunnel data based on the status of the tunnel connection. Check any of the following check boxes: <ul style="list-style-type: none"> • Open—Filters on open TL1 tunnels. • Close—Filters on closed TL1 tunnels. • Initial—Filters on TL1 tunnels that are initializing.

11.2.6 Opening a TL1 Tunnel

Use the Open TL1 Tunnel dialog box to open a TL1 tunnel on the selected TNE.

- Step 1** Select any node in the Domain Explorer or Subnetwork Explorer tree.
- Step 2** Choose **File > TNE Devices**. The TNE Devices (Tunnel) table opens.
- Step 3** In the TNE Devices table, select an individual TNE and choose **Edit > Open Tunnel** (or click the **Open Tunnel** tool). The Open TL1 Tunnel dialog box opens. The following table provides descriptions.



Note The Open Tunnel menu option and tool are dimmed if the TNE Devices table is empty.

- Step 4** After making your selections, click **Finish**. The Job Monitor table (**Administration > Job Monitor**) reports the result of the operation.

Table 11-5 Field Descriptions for the Open TL1 Tunnel Dialog Box

Field	Description
TNE ID	<i>Display only.</i> ID of the selected tunnel NE.
Alias ID	<i>Display only.</i> Alias of the selected tunnel NE.
GNE IP Address	<i>Display only.</i> IP address of the non-Cisco GNE.
Port	<i>Display only.</i> Port number used by the non-Cisco GNE to support the TL1 tunnel.
TL1 Encoding	<i>Display only.</i> Type of encoding used by the selected tunnel NE. Values are LV + Base64 Payload, LV + Binary Payload, or Raw.
Job Comments	Enter comments about the TL1 tunnel, if needed.
Time (<i>time zone</i>)	Set a time to open the TL1 tunnel. Click Now to open the tunnel immediately, or click At Time and specify when to open the tunnel, in 5-minute increments. Note The time zone can be GMT, a user-defined offset from GMT, or local time, depending on what is specified in the User Preferences dialog box.

11.2.7 Closing a TL1 Tunnel

Use the Close TL1 Tunnel dialog box to close the TL1 tunnel on the selected TNE.

- Step 1** Select any node in the Domain Explorer or Subnetwork Explorer tree.
- Step 2** Choose **File > TNE Devices**. The TNE Devices (Tunnel) table opens.
- Step 3** In the TNE Devices table, select an individual TNE and choose **Edit > Close Tunnel** (or click the **Close Tunnel** tool). The Close TL1 Tunnel dialog box opens. The following table provides descriptions.
- Step 4** After making your selections, click **Finish**. A warning message is displayed, alerting you that closing a tunnel will result in loss of connectivity to the selected TNE and all of its ENEs.

The Job Monitor table (**Administration > Job Monitor**) reports the result of the operation.

Table 11-6 Field Descriptions for the Close TL1 Tunnel Dialog Box

Field	Description
TNE ID	<i>Display only.</i> ID of the selected tunnel NE.
Alias ID	<i>Display only.</i> Alias of the selected tunnel NE.
GNE IP Address	<i>Display only.</i> IP address of the non-Cisco GNE.
Port	<i>Display only.</i> Port number used by the non-Cisco GNE to support the TL1 tunnel.
TL1 Encoding	<i>Display only.</i> Type of encoding used by the selected tunnel NE. Values are LV + Base64 Payload, LV + Binary Payload, or Raw.
Job Comments	Enter comments about the TL1 tunnel closure, if needed.
Time (<i>time zone</i>)	Set a time for the TL1 tunnel closure. Click Now to close the tunnel immediately, or click At Time and specify when to close the tunnel, in 5-minute increments. Note The time zone can be GMT, a user-defined offset from GMT, or local time, depending on what is specified in the User Preferences dialog box.

11.2.8 Modifying a TL1 Tunnel

Use the Modify TL1 Tunnel dialog box to modify the settings of an individual TNE.

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- Step 1** Select any node in the Domain Explorer or Subnetwork Explorer tree.
 - Step 2** Choose **File > TNE Devices**. The TNE Devices (Tunnel) table opens.
 - Step 3** In the TNE Devices table, select an individual TNE and choose **Edit > Modify Tunnel** (or click the **Modify Tunnel** tool). The Modify TL1 Tunnel dialog box opens. The following table provides descriptions.
 - Step 4** After modifying the selections, click **Finish**. The Job Monitor table (**Administration > Job Monitor**) reports the result of the operation.
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Table 11-7 Field Descriptions for the Modify TL1 Tunnel Dialog Box

Field	Description
TNE ID	<i>Display only.</i> ID of the selected tunnel NE.
Alias ID	<i>Display only.</i> Alias of the selected tunnel NE.
GNE IP Address	Modify the IP address of the non-Cisco GNE.
Port	Modify the port number used by the non-Cisco GNE to support the TL1 tunnel.
TL1 Encoding	Modify the type of encoding used by the selected tunnel NE. Values are LV + Base64 Payload, LV + Binary Payload, or Raw.
Job Comments	Enter comments about the TL1 tunnel modification, if needed.
Time (<i>time zone</i>)	Set a time for the tunnel modification. Click Now to begin modification immediately, or click At Time and specify when to begin modification, in 5-minute increments. Note The time zone can be GMT, a user-defined offset from GMT, or local time, depending on what is specified in the User Preferences dialog box.

11.3 Equipment Inventory Table

The Equipment Inventory table displays a complete inventory of the components of the selected NE or of the NEs in a group or subnetwork. The following figure shows an example of the Equipment Inventory table.

Figure 11-2 Equipment Inventory Table

Alias ID	Equipment Type	Admin State	Service State	Actual Equipment Type	Physical Location	CLEI Code
15454-ETSI-11	BACKPLANE 454SDH			BACKPLANE	Chassis	WMM7V00
15454-ETSI-11	Fan Slot				Chassis	
15454-ETSI-11	Fan Tray			FTA	Chassis	WMMYAC
15454-ETSI-11	OPT_AMP_17_C	Unlocked, automatici...	Unlocked-Disabled, no...		Slot:1	
15454-ETSI-11	10GE_XP	Unlocked, automatici...	Unlocked-Disabled, no...		Slot:2	
15454-ETSI-11	CE-1000-4	Unlocked, automatici...	Unlocked-Disabled, no...		Slot:3	
15454-ETSI-11	STM16	Unlocked, automatici...	Unlocked-Disabled, no...		Slot:4	
15454-ETSI-11	ETH1000	Unlocked, automatici...	Unlocked-Disabled, no...		Slot:5	
15454-ETSI-11	STM16	Unlocked, automatici...	Unlocked-Disabled, no...		Slot:6	
15454-ETSI-11	TCC Slot				Slot:7	
15454-ETSI-11	XCVL_10G	Unlocked	Unlocked-Enabled	XCVL-10G	Slot:8	NOCLEI
15454-ETSI-11	AIC Slot				Slot:9	
15454-ETSI-11	XCVL_10G	Unlocked, automatici...	Unlocked-Disabled, no...		Slot:10	
15454-ETSI-11	TCC	Unlocked	Unlocked-Enabled	TCC2	Slot:11	WMMCNRS
15454-ETSI-11	STM4	Unlocked, automatici...	Unlocked-Disabled, no...		Slot:12	

Column Name	Value
Alias ID	15454-ETSI-11
Equipment Type	XCVL_10G
Administrative State	Unlocked
Service State	Unlocked-Enabled
Actual Equipment Type	XCVL-10G
Physical Location	Slot:8
CLEI Code	NOCLEI



Note

See [Appendix A, “Icons and Menus Displayed in Prime Optical”](#) for details of all the icons displayed in the window.

11.3.1 Viewing an Equipment Inventory Table

- Step 1** In the Domain Explorer or Subnetwork Explorer tree, select the NE, group, or subnetwork for which you want to view inventory data, and choose **Configuration**.
- Step 2** From the Configuration menu, select the NE model and choose **Equipment Inventory Table**. The Equipment Inventory table for the selected NE model opens.

The following sections provide information about the individual Equipment Inventory tables:

- [11.3.1.1 ONS 15216 Equipment Inventory Table, page 11-10](#)
- [11.3.1.2 ONS 15305 Equipment Inventory Table, page 11-10](#)
- [11.3.1.3 Equipment Inventory Table for CTC-Based NEs, page 11-10](#)
- [11.3.1.4 ONS 155xx Equipment Inventory Table, page 11-15](#)



Note

The Equipment Inventory table is not available for unmanaged NEs.

11.3.1.1 ONS 15216 Equipment Inventory Table

The ONS 15216 Equipment Inventory table displays a complete list of the ONS 15216 system inventory. The following table provides descriptions.

Table 11-8 *Field Descriptions for the ONS 15216 Equipment Inventory Table*

Field	Description
Alias ID	Alias name of the NE.
Equipment Type	NE model type.
Physical Location	Location where the NE is installed.
Wavelength(s)	Number of wavelengths for this NE.
CLEI Code	CLEI code for the device. CLEI code is an industry-standard code that precisely defines a component.
Product Name	Name of the product.
Serial Number	Serial number of the device.
NE ID	Name of the selected NE.

11.3.1.2 ONS 15305 Equipment Inventory Table

The ONS 15305 Equipment Inventory table displays a complete list of the ONS 15305 system inventory. The following table provides descriptions.

Table 11-9 *Field Descriptions for the ONS 15305 Equipment Inventory Table*

Field	Description
Alias NE ID	Alias name of the NE.
Module Name	Generic type of card.
Physical Location	Slot number where the card appears.
Install State	Installation state of the card.
Expected Module	Default card for the slot.
Operational State	Operational state of the card. (Not applicable if the slot is empty.)
Software Version	Version of software present on the card. (Not applicable if the slot is empty.)
Board Serial Number	Serial number of the card.
Hardware Version	Hardware version of the card. (Not applicable if the slot is empty.)
NE ID	Name of the selected NE.

11.3.1.3 Equipment Inventory Table for CTC-Based NEs

The Equipment Inventory table for CTC-based NEs displays a complete list of the ONS 15305 R3.0, ONS 15310 CL, ONS 15310 MA SONET, ONS 15310 MA SDH, ONS 15327, ONS 15454 SONET, ONS 15454 SDH, ONS 15600 SONET, or ONS 15600 SDH system inventory. This section contains the following tables:

- [Field Descriptions for the Equipment Inventory Table—CTC-Based NEs](#)

- [Service State and Fault Secondary State Values](#)
- [Available Equipment Inventory Fields for Passive Cards](#)

The following table lists common field descriptions for the Equipment Inventory table.

Table 11-10 *Field Descriptions for the Equipment Inventory Table—CTC-Based NEs*

Field	Description
Alias ID	Alias name of the NE.
Equipment Type	Generic type of card.
Admin State	<p>User-assigned designation that drives whether an entity is in service or out of service. The administrative state is the driver for the service state. For SONET nodes, values are:</p> <ul style="list-style-type: none"> • IS—In Service. Able to carry traffic. • OOS, DSBLD—Out of Service. Unable to carry traffic. • IS, AINS—Auto In Service. Alarm reporting is suppressed, but traffic is carried. • OOS, MT—Out of Service, Maintenance. Alarm reporting is suppressed, but traffic is carried and loopbacks are allowed. • OOS, OOG—Out of Service, Out of Group. This state is used to place a member circuit out of the group and to stop sending traffic. OOS, OOG applies only to the cross-connects on the end node where the VCAT resides. For intermediate nodes, the cross-connects are OOS, MT. <p>For SDH nodes, corresponding values are:</p> <ul style="list-style-type: none"> • Unlocked (corresponds to IS) • Locked (corresponds to OOS) • Failed (corresponds to FLT) • Locked Maintenance (corresponds to OOS, MT) • Unlocked Automatic In Service (corresponds to IS, AINS) <p>Note If the NE release does not support the administrative state, this field shows <i>N/A</i>.</p>

Table 11-10 Field Descriptions for the Equipment Inventory Table—CTC-Based NEs (continued)

Field	Description
Service State	<p>Overall availability of the entity. Values are:</p> <ul style="list-style-type: none"> • IS-NR—In Service–Normal. • OOS-AU—Out of Service–Autonomous. • OOS-MA—Out of Service–Management. • OOS-AUMA—Out of Service–Autonomous and Management. <p>In addition, a secondary state provides additional information about the status of the entity. Values for secondary state are:</p> <ul style="list-style-type: none"> • AINS—Automatic In Service. • DSBLD—Traffic is disabled on the entity. • FLT—Fault secondary state. When an entity is faulted, an FLT state is raised. Equipment and ports in FLT state should be cleared as they transition. Transition states are listed in Table 11-11. • LPBK—Port or connection has a loopback on it. • MEA—Mismatch of equipment due to invalid equipment insertion. • MT—Maintenance, as per the administrative state change. • SWDL—Software download in progress. • UAS—Unassigned. The entity does not exist, has not been created, or has been deleted. • UEQ—Unequipped. There is nothing in the slot. <p>See Table 11-11 for the Service state–Secondary state possible values.</p> <p>Note If the NE release does not support the service state, this field shows <i>N/A</i>.</p>
Actual Equipment Type	<p>Specific type of card. This field also shows small form-factor pluggable (SFP) information (such as wavelength, reach, and payload rate) for all line cards and pluggable I/O modules (PIMs) that support pluggable port modules (PPMs).</p> <p>Note For the Customer Access Panel2 (CAP2) module on the ONS 15600, Prime Optical displays “CAP” for the Equipment Type and “15600-CAP2” for the Actual Equipment Type.</p>
Physical Location	<ul style="list-style-type: none"> • Slot number where the card appears. • Unit number of passive units. • FOG number of the PTSA_GE panels. <p>For PPMs, this field contains the slot number and the PPM numbers.</p>
CLEI Code	CLEI code for the card. CLEI code is an industry-standard code that precisely defines a component.
Hardware Part Number	Part number used for the card.
Serial Number	Serial number of the card.
Note	Any user-entered comments relating to the equipment.
Hardware Revision	Hardware revision number of the card.
Firmware Version	Firmware version of the card.
Inventory Code	Inventory code of the card.

Table 11-10 Field Descriptions for the Equipment Inventory Table—CTC-Based NEs (continued)

Field	Description
Application Filename	Name of the file that the card loads from the TCC or XTC flash in order to run its application.
Other Information	Additional information entered by the manufacturer.
Equipment State	Current state of the card. Values are: <ul style="list-style-type: none"> • Active • Deleted • Empty • Failed • Loading • Mismatch • Not Present • Standby
Product ID	Product ID string of 63 characters maximum. If the card does not support the product ID, the field shows <i>N/A</i> .
Version ID	Version ID string in the format <i>V99_</i> . The version ID always begins with a V and ends with a space. If the card does not support the version ID, the field shows <i>N/A</i> .
NE ID	Name of the selected NE.

The following table lists the service state and fault secondary state values.

Table 11-11 Service State and Fault Secondary State Values

Service State-Secondary State Possible Values	Initial State Transition	Final State Transition
Equipment		
IS-NR	FLT	OOS-AU, FLT
OOS-AU, FLT	All AE Cleared	IS-NR
OOS-AU, FLT	ED: OOS, MT RMV	OOS-AUMA, FLT & MT
OOS-MA, MT	FLT	OOS-AUMA, FLT & MT
OOS-AUMA	FLT	OOS-AUMA, FLT
OOS-AUMA, FLT & MT	All AE Cleared	OOS-MA
Port		
IS-NR	FLT	OOS-AU, FLT
OOS-AU, FLT	FLT Cleared	IS-NR
OOS-AU, AINS	FLT	OOS-AU, AINS & FLT
OOS-AU, AINS & FLT	FLT Cleared	OOS-AU, AINS
OOS-MA, MT	FLT	OOS-AUMA & FLT & MT
OOS-AUMA & FLT & MT	FLT Cleared	OOS-MA & MT
OOS-AUMA & LPBK & MT	FLT	OOS-MA & LPBK & MT & FLT
OOS-AUMA & LPBK & MT & FLT	FLT Cleared	OOS-MA & LPBK & MT & FLT

Passive units are optical devices that the controller card cannot manage and that are not configurable using software. Passive units can be provisioned only in CTC. The following table lists the field descriptions for passive cards.

Table 11-12 Available Equipment Inventory Fields for Passive Cards

Passive Card Type	Fields
USB-connected	<ul style="list-style-type: none"> • Equipment Type • Administrative State • Service State • Physical Location • Equipment State • CLEI Code • HW Part Number • Serial Number • HW Revision
Not USB-connected	<ul style="list-style-type: none"> • Equipment Type • Administrative State • Service State • Physical Location • Equipment State

11.3.1.3.1 Adding a Note to the Equipment Inventory Table

The User Note dialog box allows you to view and add user notes to CTC-based equipment that has a valid serial number in the Equipment Inventory table. If a piece of equipment has a note, a User Note tool appears under the Note column. Comments are visible to all users. You can open the User Note dialog box only if you have read/write permissions. These permissions are configurable in the User Profile wizard > NE Configuration Management category > Equipment Inventory row.



Note

You can add user notes only for CTC-based NEs.

Step 1 In the Domain Explorer window, choose **Configuration > CTC-Based SONET NEs > Equipment Inventory Table**.

The Equipment Inventory table opens.

Step 2 Select a piece of equipment and choose **Edit > User Note**. The following table describes the fields in the User Note dialog box.

Table 11-13 Field Descriptions for the User Note Dialog Box

Field	Description
Note	Provides space for you to type your comments about the selected equipment. The maximum length of this field is 2048 characters. To add comments to the previous comments, click the Append radio button. To overwrite the previous comments, click Replace . To delete the comments, click Delete . Note You cannot enable and disable the Replace and Delete functions in the Control Panel.
History	Displays comments entered by previous users.

11.3.1.4 ONS 155xx Equipment Inventory Table

The ONS 155xx Equipment Inventory table displays a complete list of the system inventory of the selected ONS 15530 or ONS 15540 NE. The following table provides descriptions.

Table 11-14 Field Descriptions for the ONS 155xx Equipment Inventory Table

Field	Description
Alias ID	Alias name of the NE.
Equipment Type	General type of the component.
Name	Name of the ONS 155xx component.
Module Name	Name of the ONS 155xx module.
Physical Location	Physical location for the component in the NE as a slot, subslot, and port number.
CLEI Code	CLEI code, an industry-standard code that precisely defines a component.
Serial Number	Serial number of the NE.
Hardware Version	Hardware revision of the NE.
Firmware Version	Firmware revision of the NE.
Software Version	Software revision of the NE.
Manufacturer Name	Name of the manufacturer of the NE.
Product Name	Vendor-specific model name; for example, the part number.
Alias	Alias specified for the component by the network manager.
Asset ID	Asset tracking identifier specified for the component by the network manager.
Description	Description of the component.
NE ID	Name of the selected ONS 155xx NE.

11.3.2 Exporting Equipment Inventory Table Data

You can schedule the export of Equipment Inventory table data to a flat file.

The Export Equipment Inventory Table dialog box allows you to export the data as comma-separated values (CSVs) or tab-separated values (TSVs), which are formats commonly used to import data into spreadsheet and database applications for further analysis and manipulation. You can also select a user-specified character as a separator.

**Tip**

If you export data to Microsoft Excel, save the exported file with “.csv” as the filename extension.

To open the Export dialog box, open the Equipment Inventory table for the NE(s); then, click the **Export Data to File** tool (or choose **File > Export**). The following table provides descriptions. After making your selections, click **OK** to export the data.

Table 11-15 Field Descriptions for the Export Equipment Inventory Table Dialog Box

Field	Description
Field Separator	
Comma separated	If selected, the data is exported as comma-separated values.
Tab separated	If selected, the data is exported as tab-separated values.
Other	If selected, the data is exported with the separator that you specify in the Other text field. Note If you specify a character as a separator and your data contains the same character, the character in the data is automatically enclosed in double quotes. This allows the spreadsheet or database application to understand that the character is part of your data. Regardless of whether you select Comma separated, Tab separated, or Other, Prime Optical automatically encloses text in double quotes if it has a separator.
Export	
Selected row(s)	If selected, only the selected rows in the current page are exported.
All rows in current page	If selected, all rows in the current page are exported.
Export Data	
Local (file)	If selected, data is exported to a local file on your system. Specify the path directory and the filename. With the Local option, you can export selected rows or all rows in the Equipment Inventory table. By default, exported data is stored in the C:\Cisco\TransportManagerClient\version\exports file.
Server (dir)	If selected, data is exported to a directory on the server. The directory path is a fixed, display-only string. With the Server option, you can export all rows in the Equipment Inventory table; you cannot export selected rows. By default, exported data is stored in the /opt/CiscoTransportManagerServer/export directory.
Time	
Time (time zone)	Set a time for the export. Click Now to begin exporting immediately, or click At Time and specify when to begin exporting, in 5-minute increments. For local exports, you can only select Now . For server exports, you can select Now or At Time . Note The time zone can be GMT, a user-defined offset from GMT, or local time, depending on what is specified in the User Preferences dialog box.
Repeat	
Once	If selected, the export of inventory data to the server occurs once.
Daily	If selected, the export of inventory data to the server occurs daily.
Weekly	If selected, the export of inventory data to the server occurs weekly.
Monthly	If selected, the export of inventory data to the server occurs monthly.

Table 11-15 Field Descriptions for the Export Equipment Inventory Table Dialog Box (continued)

Field	Description
Job Comments	
Job Comments	Enter comments about the export. The comments will be attached to the scheduled job.

11.3.3 Filtering the Equipment Inventory Table

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- Step 1** Select a node in the Domain Explorer or Subnetwork Explorer tree.
- Step 2** Choose **Configuration > CTC-Based SONET NEs > Equipment Inventory Table**. The Equipment Inventory table opens. (See [Figure 11-2](#).)
- Step 3** Choose **File > Filter** (or click the **Filter Data** tool). The Filter dialog box opens.
- Step 4** Specify the filter criteria to display the results in the table. The following table describes the fields in the filter.
- Step 5** Click **OK**. The filtered data is displayed in the Equipment Inventory table.
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Table 11-16 Field Descriptions for the Equipment Inventory Table Filter

Field	Description
NE ID Tab	
Available NE ID/Selected NE ID	List of available NE IDs. Click Add and Remove to move NE IDs to and from the Selected NE ID list. Note Use the scroll bars at the bottom and right side of the Available NE ID list and the Selected NE ID list to display all options in the lists.
Other Tab	
Disregard All Other Filter Criteria	Check this check box to ignore all other filter criteria.
Exclude out of service NEs	Check this check box to exclude any NEs that are marked Out of Service.
Actual Equipment Type	NE model type.
HW Part Number	Part number used for the card.
Hardware Version	Hardware version of the card. (Not applicable if the slot is empty.)
Firmware Version	Firmware version of the card.
CLEI Code	CLEI code for the device. CLEI code is an industry-standard code that precisely defines a component.

