



CHAPTER 11

Change Node Settings

This chapter explains how to modify provisioning for the Cisco ONS 15600 SDH. To provision a new node, see [Chapter 4, “Turn Up a Node.”](#)

Before You Begin

Before performing the following procedures, investigate all alarms and clear any trouble conditions. Refer to the *Cisco ONS 15600 SDH Troubleshooting Guide* as needed.

This section lists the chapter procedures (NTPs). Turn to a procedure for applicable tasks (DLPs).

1. [NTP-F200 Change Node Management Information, page 11-2](#)—Complete as needed to change node name, contact information, latitude, longitude, date, and time.
2. [NTP-F201 Change CTC Network Access, page 11-2](#)—Complete as needed to change the IP address, default router, subnet mask, and network configuration settings, and to modify static routes.
3. [NTP-F202 Modify OSI Provisioning, page 11-3](#)—Complete this procedure as needed to modify Open System Interconnection (OSI) parameters including the OSI routing mode, Target Identifier Address Resolution Protocol (TARP), routers, subnets, and IP-over-OSI tunnels.
4. [NTP-F203 Customize the CTC Network View, page 11-4](#)—Complete as needed to customize the appearance of the network map.
5. [NTP-F204 Modify or Delete Optical 1+1 Port Protection Settings, page 11-4](#)—Complete as needed to modify and delete 1+1 protection groups.
6. [NTP-F205 Change Node Timing, page 11-5](#)—Complete as needed to make changes to the ONS 15600 SDH timing parameters.
7. [NTP-F206 Modify Users and Change Security, page 11-6](#)—Complete as needed to make changes to user settings and to delete users.
8. [NTP-F207 Change SNMP Settings, page 11-6](#)—Complete as needed to modify or delete Simple Network Management Protocol (SNMP) properties.
9. [NTP-F208 Change the Internal IP Addresses for the TSC Cards Using CTC, page 11-7](#)—Complete as needed to change the internal subnet address on the TSC cards.
10. [NTP-F209 Modify or Delete Communications Channel Terminations, page 11-8](#)—Complete this procedure as needed to modify or delete regenerator-section (RS-DCC) and multiplex-section (MS-DCC) data communication channel (DCC) terminations or provisionable patchcords.

NTP-F200 Change Node Management Information

Purpose	This procedure changes node name, date, time, contact information, and the login legal disclaimer.
Tools/Equipment	None
Prerequisite Procedures	NTP-F133 Set Up Date, Time, and Contact Information, page 4-4
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

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- Step 1** Complete the “[DLP-F181 Log into CTC](#)” task on page 16-32. If you are already logged in, continue with [Step 2](#).
- Step 2** As needed, complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.
- Step 3** Complete the “[DLP-F265 Change the Node Name, Date, Time, and Contact Information](#)” task on page 17-56.
- Step 4** As needed, complete the “[DLP-F184 Change the Login Legal Disclaimer](#)” task on page 16-35.
- Step 5** After you confirm the changes, complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.
- Stop. You have completed this procedure.**
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NTP-F201 Change CTC Network Access

Purpose	This procedure changes essential network information, including IP settings, static routes, and Open Shortest Path First (OSPF) options.
Tools/Equipment	None
Prerequisite Procedures	NTP-F135 Set Up CTC Network Access, page 4-7
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher


Note

Additional ONS 15600 SDH networking information and procedures, including IP addressing examples, static route scenarios, OSPF protocol, and routing information protocol (RIP) options are provided in the *Cisco ONS 15600 SDH Reference Manual*.

- Step 1** Complete the “[DLP-F181 Log into CTC](#)” task on page 16-32. If you are already logged in, continue with [Step 2](#).
- Step 2** Complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.
- Step 3** As needed, complete the following tasks:
- [DLP-F219 Change IP Settings, page 17-18](#)

- [DLP-F186 Create a Static Route](#), page 16-39
- [DLP-F221 Delete a Static Route](#), page 17-19
- [DLP-F222 Disable OSPF](#), page 17-20
- [DLP-F317 Delete a Proxy Tunnel](#), page 18-18
- [DLP-F318 Delete a Firewall Tunnel](#), page 18-18

Step 4 Complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.
Stop. You have completed this procedure.

NTP-F202 Modify OSI Provisioning

Purpose	This procedure modifies the ONS 15600 SDH OSI parameters including the OSI routing mode, TARP, routers, subnets, and IP-over-CLNS tunnels. CLNS stands for connectionless network layer service.
Tools/Equipment	None
Prerequisite Procedures	NTP-F143 Provision OSI , page 4-14
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher



Note

Additional information about the ONS 15600 SDH implementation of OSI is provided in the “Management Network Connectivity” chapter of the *Cisco ONS 15600 SDH Reference Manual*.

- Step 1** Complete the “[DLP-F181 Log into CTC](#)” task on page 16-32. If you are already logged in, continue with Step 2.
- Step 2** Complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.
- Step 3** Perform any of the following tasks as needed:
- [DLP-F362 Provision or Modify TARP Operating Parameters](#), page 18-74
 - [DLP-F363 Add a Static TID-to-NSAP Entry to the TARP Data Cache](#), page 18-76
 - [DLP-F364 Remove a Static TID-to-NSAP Entry from the TARP Data Cache](#), page 18-77
 - [DLP-F365 Add a TARP Manual Adjacency Table Entry](#), page 18-77
 - [DLP-F370 Remove a TARP Manual Adjacency Table Entry](#), page 18-81
 - [DLP-F371 Change the OSI Routing Mode](#), page 18-82
 - [DLP-F372 Edit the OSI Router Configuration](#), page 18-83
 - [DLP-F373 Edit the OSI Subnetwork Point of Attachment](#), page 18-84
 - [DLP-F374 Edit an IP-Over-CLNS Tunnel](#), page 18-84
 - [DLP-F375 Delete an IP-Over-CLNS Tunnel](#), page 18-85
- Step 4** Complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.

Stop. You have completed this procedure.

NTP-F203 Customize the CTC Network View

Purpose	This procedure modifies the Cisco Transport Controller (CTC) network view, including grouping nodes into domains for a neater display, changing the network view background color, and using a custom image for the network view background.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Superuser

Step 1 Complete the “[DLP-F181 Log into CTC](#)” task on page 16-32 for instructions. If you are already logged in, continue with Step 2.

Step 2 As needed, complete the following tasks:

- [DLP-F223 Change the Network View Background Color](#), page 17-21
- [DLP-F224 Change the Default Network View Background Map](#), page 17-21
- [DLP-F225 Apply a Custom Network View Background](#), page 17-22
- [DLP-F226 Create Domain Icons](#), page 17-23
- [DLP-F227 Manage Domain Icons](#), page 17-23
- [DLP-F266 Enable Dialog Box Do-Not-Display Option](#), page 17-57
- [DLP-F386 Consolidate Links in Network View](#), page 18-100

Stop. You have completed this procedure.

NTP-F204 Modify or Delete Optical 1+1 Port Protection Settings

Purpose	This procedure modifies or deletes port protection settings on optical cards.
Tools/Equipment	None
Prerequisite Procedures	NTP-F138 Create a 1+1 Protection Group , page 4-10
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher



Caution

Modifying and deleting protection groups can be service affecting.

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- Step 1** Complete the “DLP-F181 Log into CTC” task on page 16-32. If you are already logged into the correct node, continue with [Step 2](#).
- Step 2** Complete the “NTP-F221 Back Up the Database” procedure on page 14-4.
- Step 3** As needed, complete any of the following tasks or procedures:
- [DLP-F228 Modify a 1+1 Protection Group](#), page 17-25
 - [DLP-F229 Delete a 1+1 Protection Group](#), page 17-25
 - [NTP-F209 Modify or Delete Communications Channel Terminations](#), page 11-8
- Step 4** Complete the “NTP-F221 Back Up the Database” procedure on page 14-4.
- Stop. You have completed this procedure.**
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NTP-F205 Change Node Timing

Purpose	This procedure changes the SDH timing settings for the ONS 15600 SDH.
Tools/Equipment	None
Prerequisite Procedures	NTP-F137 Set Up Timing , page 4-9
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

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- Step 1** Complete the “DLP-F181 Log into CTC” task on page 16-32. If you are already logged in, continue with [Step 2](#).
- Step 2** Complete the “NTP-F221 Back Up the Database” procedure on page 14-4.
- Step 3** As needed, complete the “DLP-F230 Change the Node Timing Source” task on page 17-26.
- Step 4** If you need to change any internal timing settings, follow the “DLP-F189 Set Up Internal Timing” task on page 16-45 for the settings you need to modify. For more information about each field, see the “DLP-F188 Set Up External or Line Timing” task on page 16-43.



Caution

Internal timing is Stratum 3E and not intended for permanent use. All ONS 15600 SDHs should be timed to a Stratum 2 or better primary reference source.

- Step 5** As needed, complete the “NTP-F221 Back Up the Database” procedure on page 14-4.
- Stop. You have completed this procedure.**
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NTP-F206 Modify Users and Change Security

Purpose	This procedure modifies user and security properties for the ONS 15600 SDH.
Tools/Equipment	None
Prerequisite Procedures	NTP-F132 Create Users and Assign Security , page 4-3
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Superuser

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- Step 1** Complete the “[DLP-F181 Log into CTC](#)” task on page 16-32. If you are already logged in, continue with [Step 2](#).
- Step 2** Complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.
- Step 3** To view logged-on users, click the **Provisioning > Security > Active Logins** tabs.
- Step 4** As needed, complete any of the following tasks:
- [DLP-F267 Change Security Policy on a Single Node](#), page 17-58
 - [DLP-F268 Change Security Policy on Multiple Nodes](#), page 17-59
 - [DLP-F269 Change User Password and Security Levels for a Single Node](#), page 17-61
 - [DLP-F270 Change User and Security Settings for Multiple Nodes](#), page 17-62
 - [DLP-F383 Grant Superuser Privileges to a Provisioning User](#), page 18-96
 - [DLP-F289 Manually Lock or Unlock a User on a Single Node](#), page 17-80
 - [DLP-F290 Manually Lock or Unlock a User on Multiple Nodes](#), page 17-81
 - [DLP-F271 Log Out a User on a Single Node](#), page 17-62
 - [DLP-F272 Log Out a User on Multiple Nodes](#), page 17-63
 - [DLP-F231 Delete a User from a Single Node](#), page 17-27
 - [DLP-F232 Delete a User From Multiple Nodes](#), page 17-27
 - [DLP-F381 Configure the Node for RADIUS Authentication](#), page 18-93
- Step 5** As needed, complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.
- Stop. You have completed this procedure.**
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NTP-F207 Change SNMP Settings

Purpose	This task modifies SNMP properties for the ONS 15600 SDH.
Tools/Equipment	None
Prerequisite Procedures	NTP-F139 Set Up SNMP , page 4-11
Required/As Needed	As needed

Onsite/Remote	Onsite or remote
Security Level	Superuser

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- Step 1** Complete the “[DLP-F181 Log into CTC](#)” task on page 16-32. If you are already logged in, continue with [Step 2](#).
- Step 2** Complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.
- Step 3** As needed, complete the following tasks:
- [DLP-F233 Modify SNMP Trap Destinations](#), page 17-28
 - [DLP-F234 Delete SNMP Trap Destination](#), page 17-29
- Step 4** As needed, complete the “[NTP-F221 Back Up the Database](#)” procedure on page 14-4.
- Stop. You have completed this procedure.**
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NTP-F208 Change the Internal IP Addresses for the TSC Cards Using CTC

Purpose	This procedure changes the class B subnet address for the TSC cards. You should change the class B subnet address if your internal network uses the same address range as the default subnet addresses to avoid IP address conflict.
Tools/Equipment	None
Prerequisite Procedures	NTP-F131 Verify Card Installation , page 4-2 DLP-F181 Log into CTC , page 16-32
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher



Caution

All network changes should be approved by your network or LAN administrator.



Note

This procedure causes the node to reboot.

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- Step 1** From node view, click the **Provisioning > Network > Internal Subnet** tabs.
- Step 2** Complete the following information in the fields listed:
- TSC A—Enter the class B subnet address for the first TSC.
 - TSC B—If two TSC cards are installed, enter the class B subnet address for the second TSC card.
- Step 3** Click **Apply**. A confirmation dialog box appears.
- Step 4** Verify that the information is correct and click **Yes**.

Stop. You have completed this procedure.

NTP-F209 Modify or Delete Communications Channel Terminations

Purpose	This procedure changes or deletes RS-DCC and MS-DCC terminations.
Tools/Equipment	None
Prerequisite Procedures	“ DLP-F253 Provision RS-DCC Terminations ” task on page 17-46 or “ DLP-F314 Provision MS-DCC Terminations ” task on page 18-14
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher



Caution

Deleting a DCC termination can cause you to lose visibility of nodes that do not have other DCCs or network connections to the CTC computer.

- Step 1** Complete the “[DLP-F181 Log into CTC](#)” task on page 16-32. If you are already logged in, continue with Step 2.
- Step 2** As needed, complete the following tasks to modify DCC settings:
- To modify an RS-DCC termination, complete the “[DLP-F319 Change an RS-DCC Termination](#)” task on page 18-19.
 - To modify an MS-DCC termination, complete the “[DLP-F320 Change an MS-DCC Termination](#)” task on page 18-19.
- Step 3** As needed, complete the following tasks to delete DCC terminations:
- To delete a RS-DCC termination, complete the “[DLP-F321 Delete an RS-DCC Termination](#)” task on page 18-20.
 - To delete an MS-DCC termination, complete the “[DLP-F322 Delete an MS-DCC Termination](#)” task on page 18-20.

Stop. You have completed this procedure.
