



# CHAPTER 11

## Change Node Settings

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This chapter explains how to modify node provisioning for the Cisco ONS 15454 SDH. To provision a new node, see [Chapter 4, “Turn Up a Node.”](#) To change default network element (NE) settings and to view a list of those settings, refer to the “Network Element Defaults” appendix in the *Cisco ONS 15454 SDH Reference Manual*.

### Before You Begin

Before performing the following procedures, investigate all alarms and clear any trouble conditions. Refer to the *Cisco ONS 15454 SDH Troubleshooting Guide* as necessary.

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

1. [NTP-D81 Change Node Management Information, page 11-2](#)—As needed, complete this procedure to change the node name, contact information, latitude, longitude, date, time, and login legal disclaimer.
2. [NTP-D201 Change CTC Network Access, page 11-2](#)—As needed, complete these procedures to change the IP address, default router, subnet mask, network configuration settings, and static routes.
3. [NTP-D327 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-CLNS tunnels.
4. [NTP-D202 Customize the CTC Network View, page 11-4](#)—As needed, complete this procedure to create domains and customize the appearance of the network map, including specifying a different default map, creating domains, selecting your own map or image, and changing the background color.
5. [NTP-D203 Modify or Delete Card Protection Settings, page 11-5](#)—Complete as needed.
6. [NTP-D277 Modify or Delete Communications Channel Terminations, page 11-5](#)—Complete as needed to modify or delete regenerator section data communications channel (RS-DCC) and multiplex section data communications channel (MS-DCC) terminations, and to delete provisionable patchcords.
7. [NTP-D85 Change Node Timing, page 11-6](#)—Complete as needed.
8. [NTP-D205 Modify Users and Change Security, page 11-7](#)—Complete as needed.
9. [NTP-D87 Change SNMP Settings, page 11-7](#)—Complete as needed.

## NTP-D81 Change Node Management Information

<b>Purpose</b>	This procedure changes the node name, date, time, contact information, or the login legal disclaimer.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-D316 Set Up Name, Date, Time, and Contact Information</a> , page 4-4
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Superuser only

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- Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 17-44 at the node where you want to change the settings. If you are already logged in, continue with Step 2.
- Step 2** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.
- Step 3** In the node view, click the **Provisioning > General** tabs.
- Step 4** Complete the “[DLP-D140 Change the Node Name, Date, Time, and Contact Information](#)” task on page 18-33.
- Step 5** Complete the “[DLP-D265 Change the Login Legal Disclaimer](#)” task on page 19-75, as needed.
- Step 6** After confirming the changes, complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.
- Stop. You have completed this procedure.**
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## NTP-D201 Change CTC Network Access

<b>Purpose</b>	This procedure changes essential network information, including IP settings, static routes, and OSPF options.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-D169 Set Up CTC Network Access</a> , page 4-7
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Superuser only



### Note

Additional ONS 15454 SDH networking information and procedures, including IP addressing examples, static route scenarios, Open Shortest Path First (OSPF) protocol, and routing information protocol options are provided in the “Management Network Connectivity” chapter of the *Cisco ONS 15454 SDH Reference Manual*.

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- Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 17-44. If you are already logged in, continue with Step 2.
- Step 2** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.
- Step 3** Perform any of the following tasks as needed:

- [DLP-D266 Change IP Settings](#), page 19-76
- [DLP-D142 Modify a Static Route](#), page 18-35
- [DLP-D143 Delete a Static Route](#), page 18-35
- [DLP-D100 Delete a Proxy Tunnel](#), page 18-1
- [DLP-D101 Delete a Firewall Tunnel](#), page 18-1
- [DLP-D144 Disable OSPF](#), page 18-36
- [DLP-D85 Lock Node Security](#), page 17-75
- [DLP-D86 Modify MIC-C/T/P Port IP Settings in Secure Mode](#), page 17-76
- [DLP-D87 Disable Node Security Mode](#), page 17-77

**Step 4** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.

**Stop. You have completed this procedure.**

## NTP-D327 Modify OSI Provisioning

<b>Purpose</b>	This procedure modifies the ONS 15454 OSI parameters including the OSI routing mode, TARP, routers, subnets, and IP-over-CLNS tunnels.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-D326 Provision OSI</a> , page 4-15
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher



### Note

Additional information about the ONS 15454 implementation of OSI is provided in the “Management Network Connectivity” chapter of the *Cisco ONS 15454 SDH Reference Manual*.

**Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 17-44. If you are already logged in, continue with Step 2.

**Step 2** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.

**Step 3** Perform any of the following tasks as needed:

- [DLP-D166 Provision or Modify TARP Operating Parameters](#), page 18-56
- [DLP-D167 Add a Static TID-to-NSAP Entry to the TARP Data Cache](#), page 18-58
- [DLP-D168 Remove a Static TID to NSAP Entry from the TARP Data Cache](#), page 18-58
- [DLP-D169 Add a TARP Manual Adjacency Table Entry](#), page 18-59
- [DLP-D175 Remove a TARP Manual Adjacency Table Entry](#), page 18-64
- [DLP-D178 Change the OSI Routing Mode](#), page 18-64
- [DLP-D179 Edit the OSI Router Configuration](#), page 18-65
- [DLP-D180 Edit the OSI Subnetwork Point of Attachment](#), page 18-66

- [DLP-D181 Edit an IP-Over-CLNS Tunnel, page 18-67](#)
- [DLP-D182 Delete an IP-Over-CLNS Tunnel, page 18-68](#)

**Step 4** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.

**Stop. You have completed this procedure.**

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## NTP-D202 Customize the CTC Network View

<b>Purpose</b>	This procedure modifies the CTC network view, including grouping nodes into domains for a less-cluttered display, changing the network view background color, and using a custom image for the network view background.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	None
<b>Required/As needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

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**Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 17-44. If you are already logged in, continue with Step 2.

**Step 2** Complete the following tasks, as needed:

- [DLP-D145 Change the Network View Background Color, page 18-36](#)
- [DLP-D435 Change the Default Network View Background Map, page 21-24](#)
- [DLP-D268 Apply a Custom Network View Background Map, page 19-77](#)
- [DLP-D148 Create Domain Icons, page 18-41](#)
- [DLP-D149 Manage Domain Icons, page 18-41](#)
- [DLP-D393 Switch Between TDM and DWDM Network Views, page 20-84](#)
- [DLP-D269 Enable Dialog Box Do-Not-Display Option, page 19-78](#)
- [DLP-D215 Consolidate Links in Network View, page 19-12](#)

**Stop. You have completed this procedure.**

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## NTP-D203 Modify or Delete Card Protection Settings

<b>Purpose</b>	This procedure modifies or deletes card protection settings.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-D170 Create Protection Groups, page 4-12</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher



### Caution

Modifying and deleting protection groups can be service affecting.

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- Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 17-44. If you are already logged in, continue with Step 2.
- Step 2** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.
- Step 3** Perform any of the following tasks as needed:
- [DLP-D150 Modify a 1:1 Protection Group, page 18-43](#)
  - [DLP-D152 Modify a 1:N Protection Group, page 18-45](#)
  - [DLP-D154 Modify a 1+1 Protection Group, page 18-47](#)
  - [DLP-D155 Delete a Protection Group, page 18-48](#)
- Step 4** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.
- Stop. You have completed this procedure.**
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## NTP-D277 Modify or Delete Communications Channel Terminations

<b>Purpose</b>	This procedure changes or deletes RS-DCC or MS-DCC terminations on the ONS 15454 SDH.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">DLP-D363 Provision Regenerator-Section DCC Terminations, page 20-66</a> <a href="#">DLP-D364 Provision Multiplex-Section DCC Terminations, page 20-68</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

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- Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 17-44. If you are already logged in, continue with Step 2.
- Step 2** Click the **Provisioning > Comm Channels** tabs.

- Step 3** Complete the following tasks to modify communication channel terminations, as needed:
- [DLP-D359 Change a Regenerator-Section DCC Termination, page 20-63.](#)
  - [DLP-D358 Change a Multiplex-Section DCC Termination, page 20-62.](#)
- Step 4** Complete the following tasks to delete communication channel terminations, as needed:
- [DLP-D360 Delete a Regenerator-Section DCC Termination, page 20-63](#)
  - [DLP-D362 Delete a Multiplex-Section DCC Termination, page 20-65](#)
- Stop. You have completed this procedure.**
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## NTP-D85 Change Node Timing

<b>Purpose</b>	This procedure changes the SDH timing settings for the ONS 15454 SDH.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-D28 Set Up Timing, page 4-11</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

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- Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 17-44. If you are already logged in, continue with Step 2.
- Step 2** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.
- Step 3** As needed, complete the “[DLP-D157 Change the Node Timing Source](#)” task on page 18-48.
- Step 4** If you need to change any internal timing settings, complete the “[DLP-D70 Set Up Internal Timing](#)” task on page 17-57 for the settings you need to modify.



**Caution** Internal timing is Stratum 3 and not intended for permanent use. All ONS 15454 SDHs should be timed to a Stratum 2 or better primary reference source.

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- Step 5** If you need to verify timing after removing a node from an multiplex section-shared protection ring (MS-SPRing) or subnet connection protection (SNCP) ring, see the “[DLP-D195 Verify Timing in a Reduced Ring](#)” task on page 18-80.
- Step 6** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.
- Stop. You have completed this procedure.**
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## NTP-D205 Modify Users and Change Security

<b>Purpose</b>	This procedure modifies user and security properties for the ONS 15454 SDH.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-D30 Create Users and Assign Security, page 4-4</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

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- Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 17-44. If you are already logged in, continue with Step 2.
- Step 2** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.
- Step 3** Perform any of the following tasks as needed:
- [DLP-D271 Change Node Security Policy on a Single Node, page 19-78](#)
  - [DLP-D272 Change Node Security Policy on Multiple Nodes, page 19-80](#)
  - [DLP-D437 Change Node Access and PM Clearing Privilege, page 21-25](#)
  - [DLP-D193 Grant Superuser Privileges to a Provisioning User, page 18-79](#)
  - [DLP-D158 Change User Password and Security Level on a Single Node, page 18-50](#)
  - [DLP-D160 Change User Password and Security Level on Multiple Nodes, page 18-51](#)
  - [DLP-D159 Delete a User on a Single Node, page 18-50](#)
  - [DLP-D161 Delete a User on Multiple Nodes, page 18-52](#)
- Step 4** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.
- Stop. You have completed this procedure.**
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## NTP-D87 Change SNMP Settings

<b>Purpose</b>	This procedure modifies SNMP settings for the ONS 15454 SDH.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	<a href="#">NTP-D171 Set Up SNMP, page 4-14</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Superuser only

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- Step 1** Complete the “[DLP-D60 Log into CTC](#)” task on page 17-44. If you are already logged in, continue with Step 2.
- Step 2** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.
- Step 3** Perform any of the following tasks as needed:

- [DLP-D273 Modify SNMP Trap Destination, page 19-81](#)
- [DLP-D163 Delete SNMP Trap Destination, page 18-54](#)

**Step 4** Complete the “[NTP-D108 Back Up the Database](#)” procedure on page 15-5.

**Stop. You have completed this procedure.**

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