

This chapter explains how to modify node provisioning for the Cisco ONS 15454 SDH. To provision a new node, see [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*.

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## 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](#)-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](#)-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](#)-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](#)-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](#)-Complete as needed.
6. [NTP-D277 Modify or Delete Communications Channel Terminations](#)-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](#)-Complete as needed.
8. [NTP-D205 Modify Users and Change Security](#)-Complete as needed.
9. [NTP-D87 Change SNMP Settings](#)-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>
<b>Required/As Needed</b>	As needed

<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Superuser only

1. Complete the "[DLP-D60 Log into CTC](#)" task at the node where you want to change the settings. If you are already logged in, continue with Step 2.
2. Complete the [NTP-D108 Back Up the Database](#).
3. In the node view, click the **Provisioning > General** tabs.
4. Complete the "[DLP-D140 Change the Node Name, Date, Time, and Contact Information](#)" task.
5. Complete the "[DLP-D265 Change the Login Legal Disclaimer](#)" task, as needed.
6. After confirming the changes, complete the [NTP-D108 Back Up the Database](#).

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

## 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>
<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*.

1. Complete the "[DLP-D60 Log into CTC](#)" task. If you are already logged in, continue with Step 2.
2. Complete the [NTP-D108 Back Up the Database](#).
3. Perform any of the following tasks as needed:
  - ◆ [DLP-D266 Change IP Settings](#)
  - ◆ [DLP-D142 Modify a Static Route](#)
  - ◆ [DLP-D143 Delete a Static Route](#)
  - ◆ [DLP-D100 Delete a Proxy Tunnel](#)
  - ◆ [DLP-D101 Delete a Firewall Tunnel](#)
  - ◆ [DLP-D144 Disable OSPF](#)
  - ◆ [DLP-D85 Lock Node Security](#)
  - ◆ [DLP-D86 Modify MIC-C/T/P Port IP Settings in Secure Mode](#)
  - ◆ [DLP-D87 Disable Node Security Mode](#)
4. Complete the [NTP-D108 Back Up the Database](#).

**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>
<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*.

1. Complete the "[DLP-D60 Log into CTC](#)" task. If you are already logged in, continue with Step 2.
  2. Complete the [NTP-D108 Back Up the Database](#).
  3. Perform any of the following tasks as needed:
    - ◆ [DLP-D166 Provision or Modify TARP Operating Parameters](#)
    - ◆ [DLP-D167 Add a Static TID-to-NSAP Entry to the TARP Data Cache](#)
    - ◆ [DLP-D168 Remove a Static TID to NSAP Entry from the TARP Data Cache](#)
    - ◆ [DLP-D169 Add a TARP Manual Adjacency Table Entry](#)
    - ◆ [DLP-D175 Remove a TARP Manual Adjacency Table Entry](#)
    - ◆ [DLP-D178 Change the OSI Routing Mode](#)
    - ◆ [DLP-D179 Edit the OSI Router Configuration](#)
    - ◆ [DLP-D180 Edit the OSI Subnetwork Point of Attachment](#)
    - ◆ [DLP-D181 Edit an IP-Over-CLNS Tunnel](#)
    - ◆ [DLP-D182 Delete an IP-Over-CLNS Tunnel](#)
  4. Complete the [NTP-D108 Back Up the Database](#).
- Stop. You have completed this procedure.**

## 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

1. Complete the "[DLP-D60 Log into CTC](#)" task. If you are already logged in, continue with Step 2.
  2. Complete the following tasks, as needed:
    - ◆ [DLP-D145 Change the Network View Background Color](#)
    - ◆ [DLP-D435 Change the Default Network View Background Map](#)
    - ◆ [DLP-D268 Apply a Custom Network View Background Map](#)
    - ◆ [DLP-D148 Create Domain Icons](#)
    - ◆ [DLP-D149 Manage Domain Icons](#)
    - ◆ [DLP-D393 Switch Between TDM and DWDM Network Views](#)
    - ◆ [DLP-D269 Enable Dialog Box Do-Not-Display Option](#)
    - ◆ [DLP-D215 Consolidate Links in Network View](#)
- Stop. You have completed this procedure.**

## 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</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.

1. Complete the "[DLP-D60 Log into CTC](#)" task. If you are already logged in, continue with Step 2.
  2. Complete the [NTP-D108 Back Up the Database](#).
  3. Perform any of the following tasks as needed:
    - ◆ [DLP-D150 Modify a 1:1 Protection Group](#)
    - ◆ [DLP-D152 Modify a 1:N Protection Group](#)
    - ◆ [DLP-D154 Modify a 1+1 Protection Group](#)
    - ◆ [DLP-D155 Delete a Protection Group](#)
  4. Complete the [NTP-D108 Back Up the Database](#).
- Stop. You have completed this procedure.**

## 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</a> <a href="#">DLP-D364 Provision Multiplex-Section DCC Terminations</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

1. Complete the "[DLP-D60 Log into CTC](#)" task. If you are already logged in, continue with Step 2.
  2. Click the **Provisioning > Comm Channels** tabs.
  3. Complete the following tasks to modify communication channel terminations, as needed:
    - ◆ [DLP-D359 Change a Regenerator-Section DCC Termination](#).
    - ◆ [DLP-D358 Change a Multiplex-Section DCC Termination](#).
  4. Complete the following tasks to delete communication channel terminations, as needed:
    - ◆ [DLP-D360 Delete a Regenerator-Section DCC Termination](#)
    - ◆ [DLP-D362 Delete a Multiplex-Section DCC Termination](#)
- Stop. You have completed this procedure.**

## 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</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

1. Complete the "[DLP-D60 Log into CTC](#)" task. If you are already logged in, continue with Step 2.

2. Complete the [NTP-D108 Back Up the Database](#).
3. As needed, complete the ["DLP-D157 Change the Node Timing Source"](#) task.
4. If you need to change any internal timing settings, complete the ["DLP-D70 Set Up Internal Timing"](#) task 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.

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.
6. Complete the [NTP-D108 Back Up the Database](#).

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

## 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</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Provisioning or higher

1. Complete the ["DLP-D60 Log into CTC"](#) task. If you are already logged in, continue with Step 2.
2. Complete the [NTP-D108 Back Up the Database](#).
3. Perform any of the following tasks as needed:
  - ◆ [DLP-D271 Change Node Security Policy on a Single Node](#)
  - ◆ [DLP-D272 Change Node Security Policy on Multiple Nodes](#)
  - ◆ [DLP-D437 Change Node Access and PM Clearing Privilege](#)
  - ◆ [DLP-D193 Grant Superuser Privileges to a Provisioning User](#)
  - ◆ [DLP-D158 Change User Password and Security Level on a Single Node](#)
  - ◆ [DLP-D160 Change User Password and Security Level on Multiple Nodes](#)
  - ◆ [DLP-D159 Delete a User on a Single Node](#)
  - ◆ [DLP-D161 Delete a User on Multiple Nodes](#)
4. Complete the [NTP-D108 Back Up the Database](#).

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

## 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</a>
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite or remote
<b>Security Level</b>	Superuser only

1. Complete the ["DLP-D60 Log into CTC"](#) task. If you are already logged in, continue with Step 2.
2. Complete the [NTP-D108 Back Up the Database](#).
3. Perform any of the following tasks as needed:
  - ◆ [DLP-D273 Modify SNMP Trap Destination](#)
  - ◆ [DLP-D163 Delete SNMP Trap Destination](#)
4. Complete the [NTP-D108 Back Up the Database](#).

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