

Note: The terms "Unidirectional Path Switched Ring" and "UPSR" may appear in Cisco literature. These terms do not refer to using Cisco ONS 15xxx products in a unidirectional path switched ring configuration. Rather, these terms, as well as "Path Protected Mesh Network" and "PPMN," refer generally to Cisco's path protection feature, which may be used in any topological network configuration. Cisco does not recommend using its path protection feature in any particular topological network configuration.

This chapter explains how to modify node provisioning for the Cisco ONS 15454. To provision a new node, see [Turn Up a Node](#). To change default network element settings and to view a list of those settings, refer to the "Network Element Defaults" appendix in the Cisco ONS 15454 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 Troubleshooting Guide* as necessary.

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

1. [NTP-A81 Change Node Management Information](#)-Complete this procedure as needed to change node name, contact information, latitude, longitude, date, time, and login legal disclaimer.
2. [NTP-A201 Change CTC Network Access](#)-Complete this procedure as needed to change the IP address, default router, subnet mask, network configuration settings, and static routes.
3. [NTP-A319 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 OSI tunnels.
4. [NTP-A202 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, consolidating links, toggling global and local domain settings, and changing the background color.
5. [NTP-A203 Modify or Delete Card Protection Settings](#)-Complete as needed.
6. [NTP-A292 Modify or Delete Communications Channel Terminations and Provisionable Patchcords](#)-Complete this procedure as needed to modify or delete Section DCC (SDCC) or Line DCC (LDCC) terminations or provisionable patchcords.
7. [NTP-A85 Change Node Timing](#)-Complete as needed.
8. [NTP-A205 Modify Users and Change Security](#)-Complete this procedure as needed to make changes to user settings, including security level and security policies, to change Remote Authentication Dial In User Service (RADIUS) server settings, and to delete users.
9. [NTP-A87 Change SNMP Settings](#)-Complete as needed.

NTP-A81 Change Node Management Information

Purpose	This procedure changes the node name, date, time, contact information, and the login legal disclaimer.
Tools/Equipment	None
Prerequisite Procedures	NTP-A25 Set Up Name, Date, Time, and Contact Information
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

1. Complete the ["DLP-A60 Log into CTC"](#) task. If you are already logged in, continue with Step 2.
2. Complete the [NTP-A108 Back Up the Database](#).
3. Complete the ["DLP-A140 Change the Node Name, Date, Time, and Contact Information"](#) task, as needed.
4. Complete the ["DLP-A265 Change the Login Legal Disclaimer"](#) task, as needed.
5. After confirming the changes, complete the [NTP-A108 Back Up the Database](#).

Stop. You have completed this procedure.

NTP-A201 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-A169 Set Up CTC Network Access
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Note: Additional ONS 15454 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 15454 Reference Manual*.

1. Complete the ["DLP-A60 Log into CTC"](#) task. If you are already logged in, continue with Step 2.
2. Complete the [NTP-A108 Back Up the Database](#).
3. Perform any of the following tasks as needed:
 - ◆ [DLP-A266 Change IP Settings](#)
 - ◆ [DLP-A142 Modify a Static Route](#)
 - ◆ [DLP-A143 Delete a Static Route](#)
 - ◆ [DLP-A144 Disable OSPF](#)
 - ◆ [DLP-A250 Set Up or Change Open Shortest Path First Protocol](#)
 - ◆ [DLP-A382 Delete a Proxy Tunnel](#)
 - ◆ [DLP-A383 Delete a Firewall Tunnel](#)
 - ◆ [DLP-A434 Lock Node Security](#)
 - ◆ [DLP-A435 Modify Backplane Port IP Settings in Secure Mode](#)
 - ◆ [DLP-A436 Disable Node Security Mode](#)
4. Complete the [NTP-A108 Back Up the Database](#).

Stop. You have completed this procedure.

NTP-A319 Modify OSI Provisioning

Purpose	This procedure modifies the ONS 15454 OSI parameters including the OSI routing mode, TARP, routers, subnets, and IP over CLNS tunnels.
Tools/Equipment	None
Prerequisite Procedures	NTP-A318 Provision OSI
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	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 Reference Manual*.

1. Complete the ["DLP-A60 Log into CTC"](#) task. If you are already logged in, continue with Step 2.
2. Complete the [NTP-A108 Back Up the Database](#).
3. Perform any of the following tasks as needed:
 - ◆ [DLP-A535 Provision or Modify TARP Operating Parameters](#)
 - ◆ [DLP-A536 Add a Static TID to NSAP Entry to the TARP Data Cache](#)
 - ◆ [DLP-A537 Remove a Static TID to NSAP Entry from the TARP Data Cache](#)
 - ◆ [DLP-A538 Add a TARP Manual Adjacency Table Entry](#)
 - ◆ [DLP-A543 Remove a TARP Manual Adjacency Table Entry](#)
 - ◆ [DLP-A544 Change the OSI Routing Mode](#)
 - ◆ [DLP-A545 Edit the OSI Router Configuration](#)
 - ◆ [DLP-A546 Edit the OSI Subnetwork Point of Attachment](#)
 - ◆ [DLP-A547 Edit an IP-Over-CLNS Tunnel](#)
 - ◆ [DLP-A548 Delete an IP-Over-CLNS Tunnel](#)
4. Complete the [NTP-A108 Back Up the Database](#).
Stop. You have completed this procedure.

NTP-A202 Customize the CTC Network View

Purpose	This procedure modifies the Cisco Transport Controller (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.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

1. Complete the ["DLP-A60 Log into CTC"](#) task. If you are already logged in, continue with Step 2.
2. Complete the following tasks, as needed:
 - ◆ [DLP-A145 Change the Network View Background Color](#)
 - ◆ [DLP-A528 Change the Default Network View Background Map](#)
 - ◆ [DLP-A268 Apply a Custom Network View Background Map](#)
 - ◆ [DLP-A148 Create Domain Icons](#)
 - ◆ [DLP-A149 Manage Domain Icons](#)
 - ◆ [DLP-A269 Enable Dialog Box Do-Not-Display Option](#)
 - ◆ [DLP-A498 Switch Between TDM and DWDM Network Views](#)

- ◆ [DLP-A495 Consolidate Links in Network View](#)

Stop. You have completed this procedure.

NTP-A203 Modify or Delete Card Protection Settings

Purpose	This procedure modifies and deletes card protection settings.
Tools/Equipment	None
Prerequisite Procedures	NTP-A324 Create Protection Groups
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.

1. Complete the "[DLP-A60 Log into CTC](#)" task. If you are already logged in, continue with Step 2.
 2. Complete the [NTP-A108 Back Up the Database](#).
 3. Perform any of the following tasks as needed:
 - ◆ [DLP-A150 Modify a 1:1 Protection Group](#)
 - ◆ [DLP-A152 Modify a 1:N Protection Group](#)
 - ◆ [DLP-A154 Modify a 1+1 Protection Group](#)
 - ◆ [DLP-A561 Modify an Optimized 1+1 Protection Group](#)
 - ◆ [DLP-A155 Delete a Protection Group](#)
 4. Complete the [NTP-A108 Back Up the Database](#).
- Stop. You have completed this procedure.**

NTP-A292 Modify or Delete Communications Channel Terminations and Provisionable Patchcords

Purpose	This procedure changes or deletes SDCC and LDCC terminations and deletes provisionable patchcords on the ONS 15454.
Tools/Equipment	None
Prerequisite Procedures	DLP-A377 Provision Section DCC Terminations or DLP-A378 Provision Line DCC Terminations or DLP-A367 Create a Provisionable Patchcord
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Caution! Deleting a data communications channel (DCC) termination can cause you to lose visibility of nodes that do not have other DCCs or network connections to the CTC computer.

1. Complete the "[DLP-A60 Log into CTC](#)" task. If you are already logged in, continue with Step 2.
2. As needed, complete the following tasks to modify DCC settings:
 - ◆ [DLP-A374 Change a Section DCC Termination](#).
 - ◆ [DLP-A375 Change a Line DCC Termination](#).
3. As needed, complete the following tasks to delete DCC terminations:
 - ◆ [DLP-A156 Delete a Section DCC Termination](#).
 - ◆ [DLP-A359 Delete a Line DCC Termination](#).
4. As needed, complete the "[DLP-A368 Delete a Provisionable Patchcord](#)" task.

Stop. You have completed this procedure.

NTP-A85 Change Node Timing

Purpose	This procedure changes the SONET timing settings for the ONS 15454.
Tools/Equipment	None
Prerequisite Procedures	NTP-A28 Set Up Timing
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

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

1. Complete the "[DLP-A60 Log into CTC](#)" task. If you are already logged in, continue with Step 2.
2. Complete the [NTP-A108 Back Up the Database](#).
3. As needed, complete the "[DLP-A157 Change the Node Timing Source](#)" task.
4. If you need to change any internal timing settings, follow the "[DLP-A70 Set Up Internal Timing](#)" task for the settings you need to modify.
5. If you need to verify timing after removing a node from a bidirectional line switched ring (BLSR) or path protection configuration, see the "[DLP-A195 Verify Timing in a Reduced Ring](#)" task.
6. Complete the [NTP-A108 Back Up the Database](#).

Stop. You have completed this procedure.

NTP-A205 Modify Users and Change Security

Purpose	This procedure modifies user and security properties for the ONS 15454.
Tools/Equipment	None
Prerequisite Procedures	NTP-A30 Create Users and Assign Security
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Superuser

1. Complete the "[DLP-A60 Log into CTC](#)" task. If you are already logged in, continue with Step 2.
2. Complete the [NTP-A108 Back Up the Database](#).
3. Perform any of the following tasks as needed:
 - ◆ [DLP-A462 View and Terminate Active Logins](#)
 - ◆ [DLP-A271 Change Security Policy on a Single Node](#)
 - ◆ [DLP-A272 Change Security Policy on Multiple Nodes](#)
 - ◆ [DLP-A512 Change Node Access and PM Clearing Privilege](#)
 - ◆ [DLP-A457 Grant Superuser Privileges to a Provisioning User](#)
 - ◆ [DLP-A158 Change User Password and Security Level on a Single Node](#)
 - ◆ [DLP-A160 Change User Password and Security Level on Multiple Nodes](#)
 - ◆ [DLP-A159 Delete a User from a Single Node](#)
 - ◆ [DLP-A161 Delete a User from Multiple Nodes](#)
 - ◆ [DLP-A456 Configure the Node for RADIUS Authentication](#); this task includes instructions for modifying or deleting a RADIUS server.
4. Complete the [NTP-A108 Back Up the Database](#).

Stop. You have completed this procedure.

NTP-A87 Change SNMP Settings

Purpose	This procedure modifies Simple Network Management Protocol (SNMP) settings for the ONS 15454.
Tools/Equipment	None
Prerequisite Procedures	<u>NTP-A256 Set Up SNMP</u>
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

1. Complete the [\[\[ONS 15454 Procedure Guide R8.5.1 -- DLPs A1 to A99#"DLP-A60 Log into CTC"](#) task on page 17-62. If you are already logged in, continue with Step 2.
2. Complete the [NTP-A108 Back Up the Database](#).
3. Perform any of the following tasks as needed:
 - ◆ [DLP-A273 Modify SNMP Trap Destinations](#)
 - ◆ [DLP-A163 Delete SNMP Trap Destinations](#)
4. Complete the [NTP-A108 Back Up the Database](#).
Stop. You have completed this procedure.