CHAPTER **11**

Change Node Settings

This chapter explains how to modify node provisioning for the Cisco ONS 15310-CL and Cisco ONS 15310-MA. To provision a new node, see Chapter 4, "Turn Up a Node." To change default card-level and node-level settings, refer to the "Network Element Defaults" appendix in the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Reference Manual*.

Before You Begin

Before performing the following procedures, investigate all alarms and clear any trouble conditions. Refer to the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Troubleshooting Guide* as necessary.

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

1. NTP-C78 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-C79 Change CTC Network Access, page 11-2—As needed, complete this procedure to change the IP address, default router, subnet mask, network configuration settings, and static routes.

3. NTP-C133 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-C80 Customize the CTC Network View, page 11-4—As needed, complete this procedure to customize the appearance of the network map, including specifying the default map, selecting your own map or image, consolidating links, and changing the background color.

5. NTP-C143 Modify or Delete Card Protection Settings, page 11-5—Complete as needed.

6. NTP-C82 Change Node Timing, page 11-6—Complete as needed.

7. NTP-C83 Modify Users and Change Security, page 11-6—As needed, complete this procedure to change the security policy on one or more nodes, change the node access and PM clearing privilege, grant superuser privileges to provisioning users, change the user password and security settings on one or more nodes, delete and logout users on one or more nodes, and configure the node for RADIUS authentication.

8. NTP-C84 Change SNMP Settings, page 11-7—Complete as needed.

9. NTP-C85 Modify or Delete Communications Channel Terminations and Provisionable Patchcords, page 11-8—Complete as needed.

NTP-C78 Change Node Management Information

Purpose	This procedure changes basic information about the node such as node name, date, time, contact information, and the login legal disclaimer.
Tools/Equipment	None
Prerequisite Procedures	NTP-C20 Set Up Name, Date, Time, and Contact Information, page 4-4
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Step 1 Complete the "DLP-C29 Log into CTC" task on page 17-44. If you are already logged in, continue with Step 2.

Step 2 Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Step 3 As needed, complete the "DLP-C123 Change the Node Name, Date, Time, and Contact Information" task on page 18-33.

Step 4 As needed, complete the "DLP-C124 Change the Login Legal Disclaimer" task on page 18-34.

Step 5 After confirming the changes, complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Stop. You have completed this procedure.

NTP-C79 Change CTC Network Access

Purpose	This procedure changes essential network information, including IP settings, static routes, and OSPF options.
Tools/Equipment	None
Prerequisite Procedures	NTP-C21 Set Up CTC Network Access, page 4-6
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Note Additional ONS 15310-CL and ONS 15310-MA networking information and procedures, including IP addressing examples, static route scenarios, Open Shortest Path First (OSPF) protocol, routing information protocol options, and Open System Interconnection (OSI) information, are provided in the "Management Network Connectivity" chapter of the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Reference Manual*.

Step 1 Complete the "DLP-C29 Log into CTC" task on page 17-44. If you are already logged in, continue with Step 2.

Step 2 Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Step 3 Perform any of the following tasks as needed:

- DLP-C125 Change IP Settings, page 18-35
- DLP-C40 Create a Static Route, page 17-55
- DLP-C126 Modify a Static Route, page 18-36
- DLP-C127 Delete a Static Route, page 18-36
- DLP-C128 Disable Open Shortest Path First Protocol, page 18-37
- DLP-C41 Set Up or Change Open Shortest Path First Protocol, page 17-56
- DLP-C47 Provision a Proxy Tunnel, page 17-64
- DLP-C129 Delete a Proxy Tunnel, page 18-37
- DLP-C48 Provision a Firewall Tunnel, page 17-65
- DLP-C130 Delete a Firewall Tunnel, page 18-38

Step 4   Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Stop. You have completed this procedure.

NTP-C133 Modify OSI Provisioning

Purpose	This procedure modifies the ONS 15310-CL and ONS 15310-MA OSI parameters including the OSI routing mode, TARP, routers, subnets, and IP-over-CLNS tunnels.
Tools/Equipment	None
Prerequisite Procedures	NTP-C131 Provision OSI, page 4-16
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Provisioning or higher

Note   The "Management Network Connectivity" chapter of the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Reference Manual* includes additional information about the ONS 15310-CL or ONS 15310-MA implementation of OSI.

Step 1   Complete the "DLP-C29 Log into CTC" task on page 17-44. If you are already logged in, continue with Step 2.

Step 2   Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Step 3   Perform any of the following tasks as needed:

- DLP-C201 Provision or Modify TARP Operating Parameters, page 19-2
- DLP-C202 Add a Static TID to NSAP Entry to the TARP Data Cache, page 19-4
- DLP-C203 Remove a Static TID to NSAP Entry from the TARP Data Cache, page 19-4
- DLP-C204 Add a TARP Manual Adjacency Table Entry, page 19-5
- DLP-C209 Remove a TARP Manual Adjacency Table Entry, page 19-9
- DLP-C235 Change the OSI Routing Mode, page 19-38

- DLP-C211 Edit the OSI Router Configuration, page 19-10
- DLP-C212 Edit the OSI Subnetwork Point of Attachment, page 19-10
- DLP-C208 Create an IP-Over-CLNS Tunnel, page 19-8
- DLP-C214 Delete an IP-Over-CLNS Tunnel, page 19-12

Step 4   Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Stop. You have completed this procedure.

NTP-C80 Customize the CTC Network View

Purpose	This procedure modifies the CTC network view, including grouping nodes into domains for a clearer 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-C29 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-C131 Change the Network View Background Color, page 18-38
- DLP-C132 Change to the Default Network View Background Map, page 18-39
- DLP-C133 Apply a Custom Network View Background Map, page 18-39
- DLP-C134 Create Domain Icons, page 18-40
- DLP-C135 Manage Domain Icons, page 18-41
- DLP-C136 Enable Dialog Box Do-Not-Display Option, page 18-42
- DLP-C229 Consolidate Links in Network View, page 19-28

Stop. You have completed this procedure.

NTP-C143 Modify or Delete Card Protection Settings

Purpose	This procedure modifies or deletes card protection settings.
Tools/Equipment	None
Prerequisite Procedures	NTP-C141 Create Optical Protection Groups for the ONS 15310-CL, page 4-12 or NTP-C142 Create Protection Groups for the ONS 15310-MA, page 4-13
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.

Step 1   Complete the "DLP-C29 Log into CTC" task on page 17-44. If you are already logged in, continue with Step 2.

Step 2   Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Step 3   For the ONS 15310-CL, perform any of the following tasks as needed:

- DLP-C137 Modify a 1+1 Protection Group, page 18-43
- DLP-C138 Delete a Protection Group, page 18-43

Step 4   For the ONS 15310-MA, perform any of the following tasks as needed:

- DLP-C245 Modify a 1:1 Protection Group for the ONS 15310-MA, page 19-57
- DLP-C137 Modify a 1+1 Protection Group, page 18-43
- DLP-C244 Modify an Optimized 1+1 Protection Group for the ONS 15310-MA, page 19-56
- DLP-C138 Delete a Protection Group, page 18-43

✎

Note   1:1 protection groups are created automatically and can only be deleted when the protect card of a 1:1 protection group is deleted.

Step 5   Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Stop. You have completed this procedure.

NTP-C82 Change Node Timing

Purpose	This procedure changes the SONET timing settings for the ONS 15310-CL and ONS 15310-MA.
Tools/Equipment	None
Prerequisite Procedures	NTP-C23 Set Up Timing, page 4-11
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 15310-CL and ONS 15310-MA nodes should be timed to a Stratum 2 or better primary reference source.

Step 1   Complete the "DLP-C29 Log into CTC" task on page 17-44. If you are already logged in, continue with Step 2.

Step 2   Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Step 3   As needed, complete the "DLP-C139 Change the Node Timing Source" task on page 18-44.

Step 4   If you need to change any internal timing settings, follow the "DLP-C46 Set Up Internal Timing" task on page 17-63 for the settings you need to modify.

Step 5   If you need to verify timing after removing a node from a path protection configuration, see the "DLP-C140 Verify Timing in a Reduced Ring" task on page 18-45.

Step 6   Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Stop. You have completed this procedure.

NTP-C83 Modify Users and Change Security

Purpose	This procedure modifies user and security properties for the ONS 15310-CL or ONS 15310-MA.
Tools/Equipment	None
Prerequisite Procedures	NTP-C19 Create Users and Assign Security, page 4-4
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Superuser only

Step 1   Complete the "DLP-C29 Log into CTC" task on page 17-44. If you are already logged in, continue with Step 2.

Step 2   Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Step 3   Perform any of the following tasks as needed:

- DLP-C141 Change the Security Policy on a Single Node, page 18-46

- DLP-C142 Change the Security Policy on Multiple Nodes, page 18-47
- DLP-C143 Change Node Access and PM Clearing Privilege, page 18-48
- DLP-C234 Grant Superuser Privileges to Provisioning Users, page 19-37
- DLP-C144 Change User Password and Security Settings on a Single Node, page 18-50
- DLP-C145 Change User Password and Security Settings on Multiple Nodes, page 18-50
- DLP-C146 Delete a User on a Single Node, page 18-51
- DLP-C147 Delete a User on Multiple Nodes, page 18-52
- DLP-C148 Log Out a User on a Single Node, page 18-52
- DLP-C149 Log Out a User on Multiple Nodes, page 18-53
- DLP-C196 Configure the Node for RADIUS Authentication, page 18-95

Step 4 Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Stop. You have completed this procedure.

NTP-C84 Change SNMP Settings

Purpose	This procedure modifies SNMP settings for the ONS 15310-CL and ONS 15310-MA.
Tools/Equipment	None
Prerequisite Procedures	NTP-C25 Set Up SNMP, page 4-15
Required/As Needed	As needed
Onsite/Remote	Onsite or remote
Security Level	Superuser only

Step 1 Complete the "DLP-C29 Log into CTC" task on page 17-44. If you are already logged in, continue with Step 2.

Step 2 Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Step 3 Perform any of the following tasks as needed:

- DLP-C150 Modify SNMP Trap Destination, page 18-54
- DLP-C151 Delete SNMP Trap Destinations, page 18-55

Step 4 Complete the "NTP-C102 Back Up the Database" procedure on page 15-2.

Stop. You have completed this procedure.

NTP-C85 Modify or Delete Communications Channel Terminations and Provisionable Patchcords

Purpose	This procedure changes or deletes SDCCs and LDCCs, and deletes provisionable patchcords (PPCs) on the ONS 15310-CL or ONS 15310-MA.
Tools/Equipment	None
Prerequisite Procedures	DLP-C52 Provision Section DCC Terminations, page 17-68
	DLP-C53 Provision Line DCC Terminations, page 17-70
	DLP-C49 Create a Provisionable Patchcord, page 17-66
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-C29 Log into CTC" task on page 17-44. If you are already logged in, continue with Step 2.

Step 2   As needed, complete the following tasks to modify data communication channel settings:

- DLP-C152 Change a Section DCC Termination, page 18-55
- DLP-C153 Change a Line DCC Termination, page 18-56

Step 3   As needed, complete the following tasks to delete data communication channel terminations:

- DLP-C154 Delete a Section DCC Termination, page 18-56.
- DLP-C155 Delete a Line DCC Termination, page 18-57.

Step 4   As needed, complete the "DLP-C156 Delete a Provisionable Patchcord" task on page 18-57.

Stop. You have completed this procedure.