



# Introduction

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The Cisco Transport Manager Equipment Module Configuration Guide contains information about configuring and using the Cisco Transport Manager Equipment Module to interface with Cisco Transport Manager and its managed ONS 15454 network elements.

## Overview

The Cisco Transport Manager Equipment Module supports Cisco Transport Manager (CTM), the EMS for the Cisco ONS 15454 optical network switching solution. The ONS 15454 supports 240 Gbps of TDM, ATM, and IP traffic in any combination.

CTM Gateway/TL1 provides an interface between ONS network elements (NEs) and an OSS, allowing service providers to manage NEs and provision services using TL1 commands.

CTM communicates with ONS NEs through their TL1 management interface. Each ONS NE is uniquely identified by a Node Identifier stored in this Equipment Module.

The Cisco ONS 15454 chassis supports common control cards, electrical cards, optical cards, and a Ethernet/FastEthernet card.

The Equipment Module communicates with CTM via a TL1 interface over Telnet.



**Note**

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In order to configure the Cisco Transport Manager Equipment Module you must install it during the Cisco Provisioning Center Server and GUI installation procedures. For more information about installing Cisco Provisioning Center, refer to the *CPC Installation and Administration Guide*.

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## Configuration Checklist

Knowledge of the network fabric and service elements is gained through upload of information from CTM into the Cisco Provisioning Center database. Once the database contains an accurate model of the network, the Equipment Module can be used by the Optical Service Application and the Cisco Provisioning Center engine to provision services.

To configure the Equipment Module to make it operational with Cisco Provisioning Center, complete the following steps:

1. Create a Network Object.
2. Perform Node Discovery for existing nodes in the network.

3. Modify each discovered node to provide valid ONS 15454 User Account and Password information.
4. Perform a Network Upload from CTM for existing and new NEs or perform a Node Upload from CTM for existing and new NEs.