



Preface

New and Changed Information

The following table describes information that has been added or changed since the *Cisco Transport Manager Release 9.2 Installation Guide* was last published online.

Table 1 *New and Changed Information in This Guide*

Date Released	Revision	Location
August 23, 2010	Initial version.	—
September 15, 2010	Revised the following step to read: Enter the following commands to change the IP address in the CTM server configuration file: # vi /opt/CiscoTransportManagerServer/cfg/CTMServer.cfg # vi /opt/CiscoTransportManagerServer/cfg/CTMServer.perm	F.1 Changing the IP Address when CTM and Oracle Are on the Same Server, page F-1
November 15, 2010	Added a new chapter that explains how to use the CTM Data Migrator wizard to migrate select data to CTM R9.2.	Chapter 3, “Using the CTM Data Migrator Wizard”
	Revised the following step to read: As the root user, open a separate terminal window and enter the following command to eject the CTM Server Disk 1 installation CD: eject	<ul style="list-style-type: none"> • 4.4.1 Installing the CTM R9.2 Server and Upgrading the Database, page 4-4 • 4.5.1 Installing the CTM R9.2 Server on the CTM Server Workstation, page 4-10
December 22, 2010	Improved the description of the CTM Data Migrator wizard.	Chapter 3, “Using the CTM Data Migrator Wizard”
	Added this text: (If you are upgrading from CTM R9.0.0.680.3 or later, skip this step.)	<ul style="list-style-type: none"> • 4.4.1 Installing the CTM R9.2 Server and Upgrading the Database, page 4-4, Step 34 • 4.5.2 Upgrading the Database on the CTM Database Workstation, page 4-13, Step 27
May 2, 2011	Updated the default installation folder of the CTM Data Migrator executable (/tmp/CTMDataMigrator/bin).	Chapter 3, “Using the CTM Data Migrator Wizard”

Introduction

This guide explains how to install Cisco Transport Manager (CTM) Release 9.2 and how to upgrade from earlier releases.

CTM is an advanced management system that provides functionality at the element and network management levels for Cisco optical network elements (NEs) and switches. CTM supports fault, configuration, performance, and security management functional areas. CTM also serves as a foundation for integration into a larger overall Operations Support System (OSS) environment by providing northbound gateway interfaces to higher-layer management systems.

In Release 9.2, CTM supports the Cisco Optical Networking System (ONS) family of optical NEs, the Cisco MGX 8880 Voice Gateway and MGX 8850/8830 Voice-Enabled Multiservice Switch, and the Cisco MDS 9000 Multilayer Director and Fabric Switch.



Note

See the [Release Notes for Cisco Transport Manager Release 9.2](#) for the NE software versions that are supported in CTM R9.2.



Caution

Before updating the software image on an NE, check the CTM release notes to verify whether the NE software version is supported in this CTM release.

Audience

The primary audience for this guide includes network operations personnel and system administrators. This guide assumes that you are familiar with the following products and topics:

- Basic internetworking terminology and concepts
- Network topology and protocols
- Microsoft Windows 7, Windows Vista, Windows 2000 Professional, Windows XP Professional, and Windows Server 2003 Terminal Server
- Sun Microsystems Solaris administration
- Oracle database administration

Conventions

This document uses the conventions listed in the following table.

Table 2 **Document Conventions**

Item	Convention
Commands and keywords	boldface font
Variables for which you supply values	<i>italic</i> font
Displayed session and system information	screen font
Information you enter	boldface screen font

Table 2 **Document Conventions**

Item	Convention
Variables you enter	<i>italic-screen font</i>
Selecting a menu item	Option > Network Preferences
Required alternative keywords are grouped in braces and separated by vertical bars	{x y z}

**Note**

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the publication.

**Caution**

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

**Tip**

Means the following information will help you solve a problem.

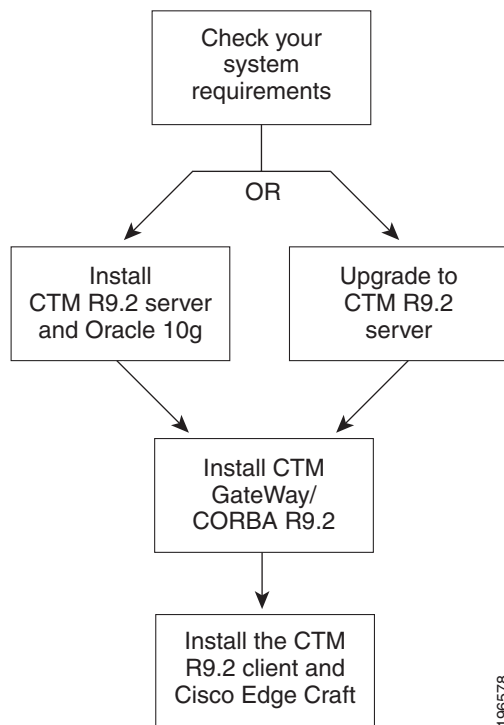
**Timesaver**

Means *the described action saves time*. You can save time by performing the action described in the paragraph.

Installation and Upgrade Overview

The following figure describes the typical CTM installation and upgrade workflow and the various components that can be installed in addition to CTM.

Figure 1 *CTM Installation and Upgrade Workflow*



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1. Check your system requirements before installing CTM R9.2 or upgrading from an earlier release. See [Chapter 1, “System Requirements.”](#)
2. For a new CTM R9.2 server installation, see [Chapter 2, “Installing the CTM R9.2 Server and Oracle 10g.”](#)
3. When upgrading to the CTM R9.2 server from an earlier release:
 - To migrate select optical data from your existing CTM R8.5, R9.0, or R9.1 server, see [Chapter 3, “Using the CTM Data Migrator Wizard.”](#) With the wizard, you can migrate a subset of an existing CTM database to a newly installed CTM R9.2 server. You cannot migrate the entire database with this approach. Also, you cannot migrate MGX data.



Note The CTM Data Migrator wizard simplifies the migration because it imports data directly on a newly installed CTM R9.2 server, instead of upgrading the operating system, upgrading and patching Oracle, and so on.

- To migrate your existing CTM R9.0 or R9.1 server and preserve the entire database, see [Chapter 4, “Upgrading to CTM R9.2 from an Earlier Release.”](#)
4. To install CTM GateWay/CORBA, see [Chapter 5, “Installing CTM GateWay/CORBA R9.2.”](#) The CTM GateWay/CORBA option is a CORBA-based interface that provides higher-layer management systems with information for all supported NEs.



Note You must purchase a separate license for CTM GateWay/CORBA R9.2.

- To install the CTM R9.2 client and Cisco Edge Craft (optional), see [Chapter 6, “Installing the CTM R9.2 Client and Cisco Edge Craft.”](#) Cisco Edge Craft is the local craft application used to manage ONS 15305 NEs. You can install the CTM client manually or automatically. Cisco Edge Craft cannot be upgraded automatically even though it is bundled with the CTM client.

Installation and Upgrade Scenarios

The following table describes the different installation scenarios for CTM R9.2, and where information on these scenarios can be found. Based on your requirements and on your existing installation, choose one of the scenarios listed.

Table 3 *Installation and Upgrade Scenarios*

What is your existing release?	For more information, see
New installation	Chapter 2, “Installing the CTM R9.2 Server and Oracle 10g”
CTM R9.1	<ul style="list-style-type: none"> • Chapter 3, “Using the CTM Data Migrator Wizard” • Chapter 4, “Upgrading to CTM R9.2 from an Earlier Release”
CTM R9.0	<ul style="list-style-type: none"> • Chapter 3, “Using the CTM Data Migrator Wizard” • Chapter 4, “Upgrading to CTM R9.2 from an Earlier Release”
CTM R8.5	Chapter 3, “Using the CTM Data Migrator Wizard”



Note

If you are upgrading from a release earlier than CTM R9.0 and you want to preserve your existing data, you must first upgrade to CTM R9.0. See the [Cisco Transport Manager Release 9.0 Installation Guide](#) for the exact installation procedure. After you install CTM R9.0, you can upgrade to CTM R9.2.

Related Documentation



Note

You can access the most current CTM R9.2 documentation online at http://www.cisco.com/en/US/products/sw/opticsw/ps2204/tsd_products_support_series_home.html.

The CTM documentation set comprises the following guides:

- [Release Notes for Cisco Transport Manager Release 9.2](#)—Describes the caveats for CTM.
- [Cisco Transport Manager Release 9.2 Installation Guide](#)—This guide.
- [Cisco Transport Manager Release 9.2 User Guide](#)—Describes how to use the CTM software, which consists of user applications and tools for network discovery, network configuration, connection management, fault management, system administration, and security management.

- *Cisco Transport Manager Release 9.2 GateWay/CORBA User Guide and Programmer Manual*—Describes the CTM GateWay/CORBA northbound interface product that is available for CTM. This document serves as a reference for developers of OSS applications that work with the CTM GateWay/CORBA interface.
- *Cisco Transport Manager Release 9.2 Database Schema*—Describes the database schema that CTM uses to store information in a Structured Query Language (SQL) database such as the Oracle database. The document is designed for users who need to create their own reports without using CTM.
- *Cisco Transport Manager Release 9.2 High Availability Installation Guide*—Explains how to install CTM in a high availability (HA) environment.



Note To obtain the *Cisco Transport Manager Release 9.2 High Availability Installation Guide*, contact your Cisco account representative.

- *Cisco Transport Manager Release 9.2 ML Provisioning Methodology*—Describes the methodology that CTM uses to provision ML-series cards.
- *Cisco Transport Manager Release 9.2 Basic External Authentication*—Describes how CTM supports basic external authentication.
- *Migration Matrix for Cisco Transport Manager Service Pack Releases*—Describes the migration matrix for CTM service pack releases.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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