



Preface

Welcome to the *OSS Integration Guide for the Cisco Mobile Wireless Transport Manager*. This guide describes how to use the MWTM 6.1.1 Northbound Application Programming Interface (NBAPI) to develop custom applications.

The Graphical User Interface (GUI) is covered in the *User Guide for the Cisco Mobile Wireless Transport Manager 6.1.1*.

For the latest MWTM information and software updates, go to <http://www.cisco.com/go/mwtm>.



Note

This guide is to be used in conjunction with the documentation listed in the “[Obtaining Documentation, Obtaining Support, and Security Guidelines](#)” section on page xxiv.

This preface contains the following sections:

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Document Revision History

The subsequent Document Revision History table records technical changes to this document. The table shows the document revision number for the change, the date of the change, and a brief summary of the change.



Note

Not all Cisco documents use a Document Revision History table.

Revision	Date	Change Summary
OL-9121-01	March 2007	Initial release.

Revision	Date	Change Summary
OL-13316-00	December 2008	MWTM 6.1 release.
OL-19343-01	July 2009	MWTM 6.1.1 release.

Objectives

This guide explains how to integrate the Cisco Mobile Wireless Transport Manager (MWTM) into an Operations Support System (OSS) environment.

Audience

This guide is designed for network administrators who are designing networks that include the MWTM or preparing a site for MWTM integration. It assumes a broad understanding of network design, operation, and terminology in general, networking principles, and network configuration. You should also be familiar with Cisco IOS and NX-OS software and its commands.

Organization

The major sections of this software configuration guide are listed in the following table:

Chapter	Title	Description
Chapter 1	Overview	Describes the MWTM 6.1.1 NBAPI.
Chapter 2	MWTM 6.1.1 Inventory API	Describes the MWTM 6.1.1 Inventory API.
Chapter 3	MWTM 6.1.1 Event API	Describes the MWTM 6.1.1 Event API.
Chapter 4	MWTM 6.1.1 Provision API	Describes the MWTM 6.1.1 Provision API.
Chapter 5	Third-Party Applications and MWTM Integration	Describes the interface by which third-party applications can integrate with MWTM 6.1.1.
Chapter 6	Customizing MWTM 6.1.1 GUI Troubleshooting Commands	Describes how to create troubleshooting commands for the MWTM 6.1.1 GUI.
Chapter 7	MWTM 6.1.1 Northbound Traps	Describes the MWTM 6.1.1 Northbound traps.
Chapter 8	MWTM NBAPI CLI Tools	Describes the MWTM 6.1.1 NBAPI CLI tools.
Appendix A	MWTM NBAPI WSDL and XSD Definitions	Describes the MWTM 6.1.1 NBAPI WSDL and XSD definitions.
Appendix B	MWTM 6.1.1 NBAPI Error Codes	Describes the MWTM 6.1.1 NBAPI error codes.
Appendix C	CISCO-SYSLOG-MIB	Describes the CISCO-SYSLOG-MIB.
Appendix D	CISCO-EPM-NOTIFICATION-MIB	Describes the CISCO-EPM-NOTIFICATION-MIB.
Appendix E	MWTM Monitor Attributes	Describes the MWTM 6.1.1 Inventory attributes.
Appendix F	MWTM Provision Attributes	Explains the MWTM 6.1.1 Provision attributes.
Appendix G	Northbound Trap Examples	Provides examples of MWTM 6.1.1 Northbound MIB traps.

Chapter	Title	Description
Appendix H	SOAP Message Examples	Provides examples of SOAP messages.
Appendix I	MWTM NBAPI Integration for Java Developers	Provides information and examples for Java developers.
Appendix J	MWTM MIB Capabilities	Lists the MIB capabilities defined for MWTM 6.1.1.

Conventions

This guide uses the following conventions to convey instructions and information.

Convention	Description
boldface font	Commands and keywords.
<i>italic font</i>	Variables for which you supply values.
[]	Keywords or arguments that appear within square brackets are optional.
{x y z}	A choice of required keywords appears in braces separated by vertical bars. You must select one.
screen font	Examples of information displayed on the screen.
boldface screen font	Examples of information you must enter.
< >	Nonprinting characters, for example passwords, appear in angle brackets.
[]	Default responses to system prompts appear in square brackets.



Note

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



Timesaver

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



Tip

Means *the following information will help you solve a problem*. The tips information might not be troubleshooting or even an action, but could be useful information, similar to a Timesaver.



Caution

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

Related Documentation

Related MWTM documentation includes:

- [Additional MWTM Documentation](#), page xxii
- [ITP Documentation](#), page xxii
- [IPRAN Documentation](#), page xxii
- [mSEF Documentation](#), page xxiii

Additional MWTM Documentation

Additional MWTM documentation can be found on Cisco.com:

http://www.cisco.com/en/US/products/ps6472/tsd_products_support_series_home.html

The MWTM includes a browser-based online help system that is searchable and supports bookmarking of favorite content.



Note

When you access online help for the first time, there might be a slight pause while your client browser loads the online help.

ITP Documentation

Cisco IP Transfer Point (ITP)

Information about Cisco IP Transfer Point (ITP) software, including procedures for configuring ITP nodes, can be found on Cisco.com:

http://www.cisco.com/en/US/products/sw/wirelssw/ps1862/products_feature_guides_list.html

Information about the Cisco ITPs can be found in the documentation that shipped with the ITP.

IPRAN Documentation

Cisco IP Radio Access Network (IP-RAN)

For information about IP-RAN, visit these websites:

http://www.cisco.com/en/US/netsol/ns675/networking_solutions_solution_category.html

http://www.cisco.com/en/US/products/hw/routers/ps368/tsd_products_support_series_home.html

Information about Cisco IPRAN nodes, including procedures for configuring IPRAN objects, can be found on Cisco.com:

- Cisco MWR 1900 Series:
http://www.cisco.com/en/US/products/hw/routers/ps4062/products_installation_and_configuration_guides_list.html
- Cisco MWR 2900 Series:
http://www.cisco.com/en/US/products/ps9395/prod_installation_guides_list.html

- Cisco 3800 Series:
http://www.cisco.com/en/US/products/ps5855/products_installation_and_configuration_guides_list.html
- Cisco ME 3400 Series:
http://www.cisco.com/en/US/products/ps6580/products_installation_and_configuration_guides_list.html
- Cisco ONS 15454:
http://www.cisco.com/en/US/products/hw/optical/ps2006/products_installation_and_configuration_guides_list.html
- Cisco 7600 Series:
http://www.cisco.com/en/US/products/hw/routers/ps368/products_installation_and_configuration_guides_list.html

mSEF Documentation

Information about mSEF documentation can be found on Cisco.com:

Cisco Gateway GPRS Support Node (GGSN)

For information about GGSN, visit these websites:

<http://www.cisco.com/en/US/products/sw/wirelssw/ps873/index.html>

Cisco Home Agent (HA)

For information about HA, visit these websites:

<http://www.cisco.com/en/US/products/ps6506/index.html>

http://www.cisco.com/en/US/products/ps5940/tsd_products_support_series_home.html

Cisco Content Services Gateway (CSG)

For information about CSG, visit these websites:

<http://www.cisco.com/en/US/products/sw/wirelssw/ps779/index.html>

Cisco Broadband Wireless Gateway (BWG)

For information about BWG, visit these websites:

<http://www.cisco.com/en/US/products/ps8738/index.html>

Server Load-Balancing/Exchange Director

http://www.cisco.com/en/US/products/hw/modules/ps2706/products_installation_and_configuration_guides_list.html

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, 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>