Release Notes for the Cisco Mobile Wireless Transport Manager 6.0.1

Date: June 2007

These release notes describe the caveats for the Cisco Mobile Wireless Transport Manager (MWTM), Release 6.0.1. These release notes accompany the:

- *User Guide for the Cisco Mobile Wireless Transport Manager 6.0*
- *Installation Guide for the Cisco Mobile Wireless Transport Manager 6.0*
- *OSS Integration Guide for the Cisco Mobile Wireless Transport Manager 6.0*

Note You can access the most current Cisco documentation, including these release notes, online at: http://www.cisco.com/en/US/products/ps6472/tsd_products_support_series_home.html

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

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Introduction

These release notes describe caveats, known bugs, and other important information for installing and using MWTM 6.0.1.

What's New in MWTM 6.0.1

The MWTM 6.0.1 release provides these new features:

Feature	Description
Indicator to show if RAN traffic is optimized or not	A new Optimized column appears when you select a RAN backhaul in the navigation tree and click the RAN Shorthauls tab. *Yes* indicates that the traffic on the shorthaul is optimized; *No* indicates the traffic is not optimized.
Support for asymmetric backhaul interface speed	Related to CSCsg62928 (now resolved), the RAN-O backhaul performance charts now correctly show % Utilization when the backhaul contains interfaces that have asymmetric link speeds.
Support for nodes: • Content Services Gateway (CSG) and CSG2 • GPRS Gateway Support Node (GGSN) • Generic devices	MWTM 6.0.1 enables you to discover and manage traps and alarms for CSG, CSG2, and GGSN nodes. The MWTM also supports integration with release 4.1.2 of the CSG and GGSN Service Managers. Once integrated, you can launch these service managers from the MWTM Tools menu to provision CSG, CSG2, and GGSN devices. This feature also provides server-side integration of CiscoWorks (by setting preferences in the GUI or the command line interface (CLI). You can configure the MWTM personality to manage CSG, CSG2, or GGSN networks, or all three (in addition to existing personality types). For more information, see CLI Updates, page 5. The MWTM can also discover generic devices, including non-Cisco devices, as long as they have the RFC-1213-MIB.
Support for new ITP software releases	• 12.2(18)IXD • 12.2(25)SW9 • 12.2(25)SW10 • 12.4(11)SW1 and 12.4(11)SW2
Support for new RAN-O software releases	• 12.4(12)MR and 12.4(12)MR1 on the MWR • 12.2(29)SM1 on the ONS RAN SVC card

Installing the MWTM 6.0.1 Patch

The following MWTM 6.0.1 build files are available:

- Solaris—*mwtm601-sol-<date>-patch-k9.zip*
- Linux—*mwtm601-linux-<date>-patch-k9.zip*

For instructions on how to install the MWTM 6.0.1 patch build, refer to the MWTM 6.0.1 Patch Readme file included with the MWTM 6.0.1 patch at the software download site:

http://www.cisco.com/cgi-bin/tablebuild.pl/MWTM-3D

Limitations and Restrictions

This section describes limitations and restrictions that are associated with the MWTM.

Provisioning Timeout

When using the MWTM provisioning feature to modify the management interface, sometimes the operation fails with this message:

```
No prompt response
```

This response can occur when changing the *duplex* or *speed* attributes for the Ethernet interface. The response can also occur for other interface attributes that affect IP connectivity between the MWTM and the device.

The default setting for a provisioning operation timeout is 50 seconds. As a workaround, the system administrator can increase the TGS_OP_TIMEOUT attribute in the *System.properties* file to a higher value. You must restart the MWTM server for this change to take effect.

SSH-Enabled Nodes

The MWTM Node > Home Page right-click menu option does not work correctly for the following SSH-enabled IP Transfer Point (ITP) nodes:

- Cisco 2600
- Cisco 7200
- Cisco 7300
- Cisco 7500
- Cisco 7600

The browser launches, as expected, but the user is not prompted for login information.

Note This limitation exists for any ITP node running the 12.2(*x*) IOS with SSH enabled.

INSTANCE_NUMBER on Single-Instance ITP

Symptom If a command with INSTANCE_NUMBER is included in the *UserCommands.ts* file, the instance number will appear on all nodes in the GUI. If you run this command on a node that does not have multi-instance enabled, it fails.

Workaround If you have a network with both single-instance and multi-instance nodes, you must configure a separate set of troubleshooting commands for each node type in the *UserCommands.ts* file. Do this by grouping the commands for each type under a separate category.

Multi-processor Multithread Vendor Exception

Sometimes when using the MWTM client on a Solaris multi-processor computer, an exception occurs when the topology window is open and you are manipulating views. The workaround is to close the topology window, then reopen it.

External SSH Client Use

If you enable the MWTM terminal proxy (**mwtm termproxy**) and use an external SSH terminal client to connect to a device, you might receive a warning message indicating a man-in-the-middle attack. This warning occurs because the MWTM server is operating as an SSH proxy to the device. In this scenario, ignore any warning messages indicating a man-in-the-middle attack. These warnings do not occur if you disable the MWTM terminal proxy or if you use the SSH terminal included with the MWTM.

Important Notes

This section contains important notes about:

- RAN Backhaul Utilization, page 4
- CLI Updates, page 5

RAN Backhaul Utilization

When the backhaul utilization for transmit traffic exceeds 100%, the likely cause is oversubscription of the shorthaul links that constitute the backhaul. The backhaul utilization is the amount of traffic that the system attempted to send, not the amount that was actually sent. If utilization is greater than 100%, you should see queue drops or other errors during the same time period. A backhaul utilization of greater than 100% is possible for a heavily loaded link with some occasional oversubscription.

CLI Updates

To enable support of CSG, CSG2, and GGSN nodes and integration of the CSG and GGSN Service Managers, MWTM 6.0.1 contains these important updates to the CLI:

- mwtm importcw, page 5
- mwtm manage, page 5
- mwtm snmpsetup, page 6
- mwtm cwsetup, page 6

mwtm importcw

Full Syntax

mwtm importcw [*cwfile*]

Command Description

Imports node hostname and read-community strings from the CiscoWorks server to the MWTM.

cwfile—File name of the CiscoWorks export file (for example, */tmp/export.txt*). The export file must be in CSV file format.

You must log in as the root user or superuser to use this command. You do not need to restart the server to activate this command. After running this command, the MWTM discovers the imported nodes.

mwtm manage

Full Syntax

mwtm manage [**itp** | **ran-o** | **csg** | **csg2** | **ggsn**] [**enable** | **disable** | **status**]

Command Description

Enables, disables, or checks the status of managed networks:

- **itp**, **ran-o**, **csg**, **csg2**, or **ggsn**—Type of network (or personality).
- **disable**—Disables the MWTM from managing the selected network.
- **enable**—Enables the MWTM to manage the selected networks.
- **status**—Displays the status of networks (whether enabled or disabled).

You must log in as the root user or superuser to use this command.

You must restart the MWTM server for your changes to take effect.

mwtm snmpsetup

Full Syntax

mwtm snmpsetup

Command Description

Sets up SNMP configurations on the MWTM server for multiple devices and optionally discovers the new nodes. This command interactively prompts you to add, modify, or delete one or more SNMP configurations, which include values for:

- Hostname
- Read community string
- Poll interval (in minutes)
- Timeout (in seconds)
- Number of retries

When modifying poll interval, retry, and timeout values, this command displays the currently available value in brackets ([ ]). When adding new SNMP configurations, this command displays default values.

After adding, modifying, or deleting an SNMP configuration, this command prompts you to discover the node (only this node is discovered).

You do not need to restart the server when using this command.

mwtm cwsetup

Full Syntax

mwtm cwsetup [**install** | **uninstall**]

Command Description

Manages the integration of the MWTM with CiscoWorks:

- **install**—Checks to see which CiscoWorks files are installed and installs additional files as necessary. Use this command to integrate the MWTM and CiscoWorks in these instances:
  - You installed CiscoWorks after you installed the MWTM.
  - The MWTM and CiscoWorks are no longer integrated for some reason.
- **uninstall**—Removes MWTM files from the CiscoWorks area.

  Note Always run **mwtm cwsetup uninstall** before uninstalling CiscoWorks from your system.

- If you do not enter a keyword (**install** or **uninstall**), the command prompts you to enter the:
  - CiscoWorks server name
  - Port number for the CiscoWorks web server (the default setting is 1741)
  - Secure port number for the CiscoWorks web server (the default setting is 443)

Note Changing CiscoWorks settings by using the **mwtm cwsetup** command sets all clients on the MWTM server to use these settings. You can configure a particular MWTM client to use different CiscoWorks settings by changing the client's preferences (see the *User Guide for the Cisco Mobile Wireless Transport Manager 6.0*).

You must log in as the root user (not as a superuser) to use this command.

You must restart the MWTM server for your changes to take effect.

Resolved MWTM Caveats

The following bugs have been fixed in MWTM 6.0.1:

Bug ID	Description
CSCsb71124	Need the capability to change CiscoWorks server settings in the GUI.
CSCsc91157	Support for CSG, CSG2, GGSN 6/7, and generic nodes.
CSCsh90827	
CSCsh90848	
CSCsh98352	
CSCsh98358	
CSCsh98345	
CSCse42623	Need a CLI command to collect customer data within a specified date range.
CSCse63925	Node status in the navigation tree and node status in the Details tab should match when the server sends node status updates.
CSCse64933	Notify the user if the server shuts down and then ping the server for reconnection.
CSCsg23171	Add an SSH proxy capability to the MWTM.
CSCsg62928	The RAN-O backhaul performance charts can show incorrect % utilization (Y axis, on the right side of the chart) when the backhaul has interfaces with asymmetric link speeds or different physical interfaces for send and receive traffic.
CSCsh67907	Support the latest MLR table file format in the address table editor.
CSCsh71221	A web client user cannot change user login password.
CSCsh71843	The Management Information Base (MIB) ifTable does not contain T1/E1 controllers for the T1/E1 controllers on the Cisco 2600 WIC card. (Fixed in 12.4(11)SW1.)
CSCsh74030	Allow the user to add variables when setting external Telnet/SSH clients.
CSCsh86628	Update the client download page with the new template.
CSCsh86678	Support for the MWR IOS 12.4(12)MR1.
CSCsh89439	Loading the GTT table from an ITP may fail because the ITP network name contains a space ( ) character.
CSCsh89933	The RAN-O Error Stats report shows a minor mismatch caused by rounding errors.
CSCsh90549	Add peak utilization data to the RAN-O backhaul and shorthaul performance reports.
CSCsh90856	Support link flapping detection intelligence in trap processing.

Bug ID	Description
CSCsh93171	Add the ability to delete, change the severity of, acknowledge, or unacknowledge events; access help for events; and show properties and/or time differences for events.
CSCsh96754	The console log on a server-only install has grep errors in the *System.properties* file.
CSCsh98349	Service Manager integration for CSG, CSG2, and GGSN nodes.
CSCsi01991	Activation of route, GTT, or address table files needs to handle message.
CSCsi02009	NULL GTA value should appear as default in ITP report.
CSCsi03627	The command **show tac** is canceled when you run General > System Information using MWTM web troubleshooting.
CSCsi07242	Allow the user to modify community strings using a new CLI and without restarting the MWTM server (for details on the new commands, see mwtm snmpsetup, page 6 and mwtm importcw, page 5).
CSCsi07435	Exception while deleting a RAN backhaul node.
CSCsi07499	A RAN SVC card that is associated with other objects reappears in the navigation tree after being deleted.
CSCsh91440	RAN-O: Add support for optimized/non-optimized flag in MIB.
CSCsi08802	
CSCsi08813	
CSCsi08817	
CSCsi10309	RANO: Asymmetric backhaul support.
CSCsi10310	
CSCsi10316	
CSCsi10319	
CSCsi24053	
CSCsi12057	Fix captions in the Event Properties dialog box.
CSCsi12075	Allow users to pause or force a page refresh.
CSCsi12076	Allow users to show/hide columns in the events page in the MWTM web client.
CSCsi14351	Allow user to edit notes in the MWTM web client.
CSCsi15506	Add support for 72xx devices with an NPE-G2 processor.
CSCsi20826	RAN backhaul sent and received utilization events should raise an alarm.
CSCsi24036	Utilization summary reports do not always aggregate all real backhauls in a virtual backhaul.
CSCsi24542	The Change By field for events is not persistent. The field was removed.
CSCsi31053	Synchronize the selected tab when the user clicks the browser's back button.
CSCsi31128	Support for 12.2(18)IXD.
CSCsi31138	Support for 12.2(25)SW10.
CSCsi31145	Support for 12.4(11)SW2.
CSCsi32571	Lose the ability to show the Node column when the ITP personality is disabled.
CSCsi33005	Show/Hide columns for all MWTM web tables (like the events table).
CSCsi50364	Display help messages for CLI commands based on personality.

Bug ID	Description
CSCsi52212	Switching object in tree causes tab to change.
CSCsi55840	In the Events GUI, add delete menu items to the event popup menu and toolbar.
CSCsi58463	A basic user should not have access to view real-time data and charts.
CSCsi58967	A basic user should not have access to the options within the View > MWTM Server > Connect menu.
CSCsi62204	A network administrator should not have access to perm.mana.node.
CSCsi62211	The topology window Edit > Delete option should be dimmed for BTS, BCS, Node_B, and RNC nodes.
CSCsi65571	When you select a node in the navigation tree of the web or MWTM client, and select the Status Contributors tab, an extraneous User Items folder appears in the table.
CSCsi65923	Add support for 12.2(29)SM1 on ONS-RAN-SVC.
CSCsi70809	Popup menu links for Performance History and Error History are incorrect.
CSCsi72180	Web client and Java client need consistency when clicking objects.
CSCsi72193	Changing name for an ITP signaling point should also change the MWTM web client name.
CSCsi74057	Frequently clicking MWTM web client tabs in Microsoft Internet Explorer sometimes takes you to the MWTM web login page.
CSCsi74092	Re-login inside some web tabs shows a “file not found” error.
CSCsi75330	There is a mismatch between the MWTM client and the MWTM web regarding the application server process assocation name in the Details tab.
CSCsi75395	Deleting a backhaul from a virtual backhaul leaves the virtual backhaul in an incorrect state.
CSCsi77640	Remove sorting from point code and IP address tables in web.
CSCsi82707	Give more information for the **mwtm secondary server list** command.
CSCsi85815	If the user changes bandwidth settings on a RAN backhaul, these changes are not reflected in the database.
CSCsi91353	Exception thrown to client console.
CSCsi93555	Deleting a seed file causes a nullPointerException.
CSCsi95182	HSRP traps do not trigger node polling immediately after switchover of HSRP nodes during manual polling.
CSCsj03930	On an ITP node running 12.4(11)SW2 or later, if you try to load address tables, or if you click the **MTP3 Errors** tab, you receive an error message that says, “MIB not compliant.”
CSCsi76418	Installing the 6.0.1 patch creates a patch log in */var/tmp* and in */opt/CSCOsgm/install*.

Open MWTM Caveats

This section describes caveats that exist in the MWTM 6.0.1 software.

- CSCse81393

Symptom In various GUI and web pages, simple text fields might contain unprintable characters. An example is the Model Name PID field for a RAN service (RAN_SVC) card in an ONS chassis.

Conditions Some RAN_SVC cards in an ONS chassis can exhibit this behavior.

Workaround None. This is a cosmetic problem and does not affect functionality.

- CSCsg83861

Symptom The preferences dialog box of the MWTM client interface allows you to customize the way that data series appear in charts. You can specify series color, line style, and symbol style. However, symbol style and line style preferences do not work when displaying real-time charts for MSU rates and for RAN backhauls and shorthauls.

Workaround None.

- CSCsg92892

Symptom When provisioning ITP nodes from the Provision tab of the web interface, some provisioning operations might fail on the node with these symptoms and conditions:

Provisioning Action	Symptom	Condition
Changing the media type for FastEthernet or GigabitEthernet interface	`Invalid input detected`	FastEthernet or GigabitEthernet on the node does not support the media type configuration option, but the user specified a media type in the MWTM provisioning request.
Changing speed for FastEthernet or GigabitEthernet interface	`Invalid input detected`	FastEthernet or GigabitEthernet on the node does not support the speed configuration option, but the user specified the speed in the MWTM provisioning request.
Configuring MTP3 User Adaptation (M3UA) or SCCP User Adaptation (SUA) offload, or Local Peer offload	`Error: at least one address must reside on slot xx`	The user specified an IP address that does not exist for the specified card slot.

Provisioning Action	Symptom	Condition
Configuring M3UA or SUA offload, or Local Peer offload	`Error: XXX is already offloaded to this linecard slot=xx`	The user specified a target card slot that is already in use by another M3UA or SUA offload, or Local Peer offload. **Note** The ITP does not allow mixed types between M3UA or SUA offload, and Local Peer offload.
Configuring the line priority for the clock source line option on the Cisco 2600 T1/E1 controller	`% Invalid input detected at '^' marker.` The '^' marker points to the line priority: *primary* or *secondary*.	While configuring the clock source line priority option on the T1/E1 controller, the user specified the *primary* or *secondary* option on the line, but the WAN Interface Card (WIC) card has only one port, and does not support the line priority option.
Configuring the secondary line priority for the clock source line option on the Cisco 7xxx ITP T1/E1 controller	`% Invalid input detected at '^' marker.` The '^' marker points to the secondary line priority: *primary* or *secondary*.	When configuring the clock source secondary line priority option on the T1/E1 controller, the user specified a number that is greater than the supported range on the device. Although the MWTM allows values 1-72, some cards only support 1-8 or 1-16.

Workaround None. The user must know the ITP card information and specify correct values in the provisioning request.

- CSCsh00145

Symptom Credentials for a node are associated with a unique IP address. If a node has more than one accessible IP address, functions that require credentials might not resolve to a credential based on the selected IP address, and the requested function would fail. The MWTM functions that require credentials include:

- Discovery of ONS and RAN_SVC nodes
- Troubleshooting
- Provisioning
- Route and Global Title Translation (GTT) table deployment

Conditions Nodes with multiple, accessible IP addresses with credentials set for a subset of those IP addresses.

Workaround Specify credentials for all accessible IP addresses for a node.

- CSCsh15638

Symptom The following exception with corresponding stacktrace can occur. The MWTM captures this exception in the *sgmConsoleLog.txt* file*:*

```
java.net.SocketException: Broken pipe
```

Conditions This exception can occur when users access the MWTM web interface and frequently abort connections while the server is under heavy load (for example, during discovery). Clicking the **Stop** button on the web browser or navigating to a different web page before the current page finishes loading can cause this exception to occur.

Note The root cause of this condition is an internal bug in the Tomcat web application that ships with this release of the MWTM.

Workaround None, but you can safely ignore these log messages.

- CSCsh58070

Symptom The following error messages may appear when performing these operations:

Operation	Error Message
Generating link report by using the *sgmLinkStats.sh* script	`sgmgawk: cmd. line:45: (FILENAME=- FNR=???) fatal: division by zero`
Attempting to import link and linkset report data	`ERROR 38000: The exception 'java.sql.SQLException: Invalid character string format for type SMALLINT.' was thrown while evaluating an expression.`
Using the ITP route table deployment function	`Invalid Linkset in Route Table: [???]`

Conditions The error messages occur when ITP linkset, AS, and ASP names contain a colon (:).

Workaround Remove the colon (:) from ITP linkset, AS, and ASP names.

- CSCsi68842

Symptom Negative numbers appear in the Error counts table for RAN shorthauls and backhauls.

Workaround None.

- CSCsi94803

Symptom A network address or broadcast address is discovered by the MWTM and treated as a node because an SNMP response is received when a request is sent to that address. About every 15 minutes, the node state switches between Unknown and Active, or between Unknown and Warning. When the node state is Unknown, the state reason shows SNMP MIB Data Error.

Workaround Open the Java client, select the invalid node representing the network address or broadcast address in the tree, right-click it, and delete it. Verify that the other discovered nodes have correct SNMP polling addresses by right-clicking on a node, selecting Edit > SNMP IP Addresses, and confirming the appropriate SNMP IP address is in the list of IP addresses on the right side of the panel.

- CSCsj02446

Symptom When the CiscoWorks server uses non-default settings on SSL and/or other ports, the Device Center and CiscoView links are broken when the CiscoWorks server is set to allow only SSL, and a "Forbidden" message appears. Also, the Service Manager links always go to the CiscoWorks main pages instead of the Service Manager main pages.

Workaround Go to the CiscoWorks page manually, or use the default settings on the CiscoWorks server.

Open Device Caveats

This section documents caveats associated with the devices that the MWTM manages. These caveats can affect the capability of the MWTM to manage the associated features. Follow the guidelines in the workarounds for these defects.

- CSCse13374

Symptom When you configure the clock source on an ITP 7600 IMA interface to a non-default value, if the ITP 7600 reboots, the clock source reverts to the default value, "line".

Workaround Re-apply the clock source on all the IMA interfaces after the ITP 7600 reboots.

- CSCsg76526

Symptom When you unconfigure Preventive Cyclic Retransmission (PCR) from an MTP2 link on an ITP device, the device incorrectly retains tuning parameters, such as *n1* and *n2*, in the running configuration.

Conditions You configure PCR and set tuning parameters with values other than default values.

Workaround Unconfigure the tuned parameter first. Then, unconfigure PCR.

- CSCsg77134

Symptom When you unconfigure a tuned parameter for a link that belongs to a linkset with a configured profile, the default value for the timer is incorrectly restored instead of the profile timer value.

Conditions The cs7 profile is overriding the profile value.

Workaround Unconfigure and reconfigure the profile for the linkset. This action should restore the profile value to all links.

- CSCsg77152

Symptom When you configure the following parameter for an SCTP link:

```
retransmit-cwnd-rate <rate> sctp-fast-retransmit
```

the *sctp-fast-retransmit* portion is not saved in the configuration, and is ignored at the next reload.

Conditions Tune the *sctp-fast-retransmit* parameter for *retransmit-cwnd-rate*.

Workaround Reconfigure the parameter after reloading the device.

- CSCsh13017

Symptom The MWTM login credentials might not work if you run the **no enable secret** command on the active RAN Service (RAN SVC) Module.

Conditions During failover, the running configuration on the active RAN service card merges with the RAN protection card. As a result, any baseline configuration command that exists on the protection card but not on the active card will be applied.

Workaround For all RAN service cards:

- Apply the enable-secret configuration option.
- Define these credentials in the MWTM.

Related Documentation

Use this document in conjunction with the following documents:

- *Installation Guide for the Cisco Mobile Wireless Transport Manager 6.0*
- *User Guide for the Cisco Mobile Wireless Transport Manager 6.0*
- *OSS Integration Guide for the Cisco Mobile Wireless Transport Manager 6.0*

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

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This document is to be used in conjunction with the documents listed in the "Related Documentation" section.