Release Notes for the Cisco Mobile Wireless Transport Manager 6.1.1

Date: July, 2009

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These release notes describe features added, caveats, known bugs, and other important information for installing and using Cisco Mobile Wireless Transport Manager (MWTM) 6.1.1 .

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.

Contents

These release notes contain:

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What's New in MWTM 6.1.1

Table 1 lists the new features in MWTM 6.1.1.

Table 1 New Features in Mobile Wireless Transport Manager 6.1.1

Feature	Description
New Device Support	• Cisco BWG 1.2 (SAMI and 7301): 12.4(15)XL3 • Cisco BWG 1.3 (SAMI and 7301): 12.4(15)XL4 • Cisco BWG 1.4 (SAMI and 7301): 12.4(15)XL5 • Cisco BWG 2.0 (SAMI and 7301): 12.4(24)YG • Cisco CSG2 R3 (SAMI): 12.4(22)MD • Cisco CSG2 R2 (SAMI): 12.4(15)MD2, 12.4(15)MD3 • Cisco CSG2 R1 (SAMI): 12.4(11)MD7, 12.4(11)MD8, 12.4(11)MD9 • Cisco GGSN 9 on the WS-SVC-SAMI-BB-K9 module: 12.4(22)YE • Cisco GGSN 8 on the WS-SVC-SAMI-BB-K9 module: 12.4(15)XQ2, 12.4(15)XQ3 • Cisco GGSN 7 on the WS-SVC-MWAM-1 module: 12.4(9)XG4 • Cisco Home Agent 5.0 (SAMI and 7301): 12.4(22)YD • Cisco Mobile Internet (7600): 12.2(33)SRC3, 12.2(33)SRC4, 12.2(33)SRD, 12.2(33)SRD1, 12.2(33)SRD2 • Cisco ITP (2811, 7200, 7300): 12.4(15)SW3 • Cisco ITP (7600): 12.2(18)IXH • Cisco ITP (7600 with SAMI): 12.2(33)IRC • Cisco IPRAN (7600): 12.2(33)SRC3, 12.2(33)SRC4, 12.2(33)SRD, 12.2(33)SRD1, 12.2(33)SRD2 • Cisco IPRAN (MWR-1941, 3825): 12.4(16)MR2, 12.4(19)MR • Cisco IPRAN (MWR-2941, 3825): 12.4(19)MR2, 12.4(19)MR3 • Cisco ME-3400 Metro Ethernet switch
IPRAN: PWE3 support	• Supports basic historical reports for PWE3 • Supports 5,000 nodes with 25,000 PWE3 circuits • Supports Backhaul monitoring and topology mapping • Supports additional configuration commands
RANO support	• RANO GSM Configuration • RANO Historical CSV reports

Table 1 New Features in Mobile Wireless Transport Manager 6.1.1 (continued)

Feature	Description
ITP enhancements	• Linkset/Link historical statistics graphs • GTT Translations per CPU/Linecard reports and graphs • SCTP Historical reports • Improved Q752 metrics compliance including Table 4-5 • Troubleshooting of SCTP and probe-less monitoring • Configuration of probe-less monitoring • Supports incremental IOS releases
Home Agent support	• Supports HA 5.0
GGSN support	• Supports basic historical reports for GGSN • Supports IPv6 monitoring and configuration • Supports GGSN 9.0
CSG2 support	• Supports basic historical reports for CSG2 • Supports CSG2 R3
Object Grouping	• Supports object groups for mSEF provisioning and HA subscriber search
Additional alarm support	• Supports additional alarm features • Show Events and Timestamps for selected alarms • SLB - Basic alarm support
RAN-MWR-2941-DC Support	• Supports similar functionality on MWR-2941-DC device as MWR-1941-DC-A with additional features
BWG Support	• Supports incremental IOS releases
Cross platform support	• CPU and Memory Historical reports and graphs • Deploy configurations to Groups of Devices • Supports up to 50 concurrent clients • Qualification of new Solaris/Linux platforms for improved price/performance

[1] This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. For more details, see http://www.openssl.org/.

Supported IOS Releases in MWTM 6.1.1

This section contains the following tables:

- Table 2, Supported IOS Releases for ITP Devices
- Table 3, Supported IOS Releases for IPRAN Devices
- Table 4, Supported IOS Releases for mSEF Devices

Table 2 Supported IOS Releases for ITP Devices

Device	IOS Release
7600	12.2(18)IXA 12.2(18)IXB2 12.2(18)IXC 12.2(18)IXD1 12.2(18)IXF1 12.2(18)IXG 12.2(18)IXH
Other[1]	12.2(25)SW4A 12.2(25)SW5 12.2(25)SW6 12.2(25)SW7 12.2(25)SW8 12.2(25)SW9 12.2(25)SW10 12.2(25)SW11 12.2(25)SW12 12.4(11)SW3 12.4(15)SW 12.4(15)SW1 12.4(15)SW2 12.4(15)SW3 12.2(33)IRA (for the WS-SVC-SAMI-BB-K9 module) 12.2(33)IRB (for the WS-SVC-SAMI-BB-K9 module) 12.2(33)IRC (for the WS-SVC-SAMI-BB-K9 module only) or later maintenance releases.
GTT Encoding Scheme Support	12.2(25)SW4A or later, or 12.2(18)IXA or later, or 12.4(11)SW or later, or 12.2(33)IRA or later is required.
MLR Address Table Configuration Support	12.2(25)SW4A or later, or 12.2(18)IXA or later, or 12.4(11)SW or later, or 12.2(33)IRA or later is required.

Table 2 Supported IOS Releases for ITP Devices (continued)

Device	IOS Release
For the GTT Accounting Statistics Reports	12.2(25)SW4A or later, or 12.2(18)IXA or later, or 12.4(11)SW or later, or 12.2(33)IRA or later is required.
For Route Table and GTT Table Deployment	12.2(25)SW4A or later, or 12.2(18)IXA or later, or 12.4(11)SW or later, or 12.2(33)IRA or later is required.
For ITP Provisioning	12.2(25)SW4A or later, or 12.2(18)IXA or later, or 12.4(11)SW or later, or 12.2(33)IRA or later is required
For MSU Rates	12.2(25)SW7 or later, or 12.2(18)IXB or later, or 12.4(11)SW or later, or 12.2(33)IRA or later is required.
Cisco Database for Telecommunications (CDT)	2.0[2]

1. “Other” may include: Cisco 2650, Cisco 2651, Cisco 2811, Cisco 7204, Cisco 7206, Cisco 7301, Cisco 7507, and Cisco 7513.
2. CDT software release, not an IOS release.

Table 3 Supported IOS Releases for IPRAN Devices

Device	IOS Release
Cell Site Router	12.4(12)MR2 (MWR-1941-DC-A only) 12.4(16)MR (MWR-1941-DC-A only) 12.4(16)MR1 (MWR-1941-DC-A and 3825) 12.4(16)MR2 (MWR-1941-DC-A and 3825) 12.4(19)MR (MWR-1941-DC-A and 3825) 12.4(19)MR2 (MWR-2941-DC-A only) 12.4(19)MR3 (MWR-2941-DC-A only)
RAN-O ONS	7.2 7.2.2 7.2.3

Table 3 Supported IOS Releases for IPRAN Devices (continued)

Device	IOS Release
RAN-O ONS-RAN-SVC	12.2(29)SM
	12.2(29)SM1
	12.2(29)SM2
	12.2(29)SM3
	12.2(29)SM4
MToP 7600	12.2(33)SRB3
	12.2(33)SRB4
	12.2(33)SRB5
	12.2(33)SRC1
	12.2(33)SRC2
	12.2(33)SRC3
	12.2(33)SRC4
	12.2(33)SRD
	12.2(33)SRD1
	12.2(33)SRD2

Table 4 Supported IOS Releases for mSEF Devices

Device	IOS Release
GGSN	GGSN 9 on the WS-SVC-SAMI-BB-K9 module • 12.4(22)YE GGSN 8 on the WS-SVC-SAMI-BB-K9 module: • 12.4(15)XQ • 12.4(15)XQ1 • 12.4(15)XQ2 • 12.4(15)XQ3 GGSN 7 on the WS-SVC-MWAM-1 module: • 12.4(9)XG2 • 12.4(9)XG3 • 12.4(9)XG4 GGSN 6 on the WS-SVC-MWAM-1 module: • 12.4(2)XB7 • 12.4(2)XB8 • 12.4(2)XB9 • 12.4(2)XB10 Supervisor Module: • 12.2(33)SRC1 • 12.2(33)SRC2 • 12.2(33)SRC3 • 12.2(33)SRC4 • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2

Table 4 Supported IOS Releases for mSEF Devices (continued)

Device	IOS Release
CSG1	CSG1 7: • 3.1(3)C7(1) • 3.1(3)C7(2) • 3.1(3)C7(3) • 3.1(3)C7(4) • 3.1(3)C7(5) • 3.1(3)C7(6) • 3.1(3)C7(7) CSG1 6: • 3.1(3)C6(6) • 3.1(3)C6(7) • 3.1(3)C6(8) • 3.1(3)C6(9) • 3.1(3)C6(10)

Table 4 Supported IOS Releases for mSEF Devices (continued)

Device	IOS Release
CSG2	CSG2 R3: • 12.4(22)MD • 12.4(22)MD1 CSG2 R3.5 • 12.4(22)MDA CSG2 R2: • 12.4(15)MD • 12.4(15)MD1 • 12.4(15)MD2 • 12.4(15)MD3 CSG2 R1: • 12.4(11)MD3 • 12.4(11)MD4 • 12.4(11)MD5 • 12.4(11)MD6 • 12.4(11)MD7 • 12.4(11)MD8 • 12.4(11)MD9 Supervisor Module: • 12.2(33)SRC1 • 12.2(33)SRC2 • 12.2(33)SRC3 • 12.2(33)SRC4 • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2

Table 4 Supported IOS Releases for mSEF Devices (continued)

Device	IOS Release
HA	HA 5.0: • 12.4(22)YD HA 4.0: • 12.4(15)XM • 12.4(15)XM1 • 12.4(15)XM2 Supervisor Module: • 12.2(33)SRC1 • 12.2(33)SRC2 • 12.2(33)SRC3 • 12.2(33)SRC4 • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2
BWG	12.4(15)XL2 (BWG version 1.1) 12.4(15)XL3 (BWG version 1.2) 12.4(15)XL4 (BWG version 1.3) 12.4(15)XL5 (BWG version 1.4) 12.4(24)YG (BWG version 2.0) Supervisor Module: • 12.2(33)SRC1 • 12.2(33)SRC2 • 12.2(33)SRC3 • 12.2(33)SRC4 • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2

Unsupported IOS Releases

The MWTM no longer supports the IOS releases listed in Table 5:

Table 5 Unsupported IOS Releases in MWTM 6.1.1

ITP			mSEF				
7600	**Other**	**IPRAN**	**GGSN**	**CSG1**	**CSG2**	**HA**	**BWG**
12.2(18)IXB	12.2(4)MB4	12.4(9)MR	GGSN 6	N/A	12.4(11)MD	N/A	12.4(15)XL1 (BWG version 1.0)
12.2(18)IXB1	12.2(4)MB5	12.4(11)MR	12.4(2)XB		12.4(11)MD1		
12.2(18)IXD	12.2(4)MB6	12.4(12)MR	12.4(2)XB1		12.4(11)MD2		
12.2(18)IXE	12.2(4)MB7	12.4(12)MR1	12.4(2)XB2				
12.2(18)IXF	12.2(4)MB8		12.4(2)XB3				
	12.2(4)MB9		12.4(2)XB4				
	12.2(4)MB9a		12.4(2)XB5				
	12.2(4)MB10		12.4(2)XB6				
	12.2(4)MB11		GGSN 7				
	12.2(4)MB12		12.4(9)XG				
	12.2(4)MB13		12.4(9)XG1				
	12.2(18)SW						
	12.2(19)SW						
	12.2(20)SW						
	12.2(21)SW						
	12.2(21)SW1						
	12.2(23)SW						
	12.2(23)SW1						
	12.2(25)SW						
	12.2(25)SW1						
	12.2(25)SW2						
	12.2(25)SW3						
	12.2(25)SW4						
	12.4(11)SW						
	12.4(11)SW1						
	12.4(11)SW2						

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.

Multiprocessor 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.

SSH and Telnet Terminal

The SSH and Telnet terminals that are included with the MWTM provide basic terminal functionality. They do not support non-English character sets or the UNIX curses library (for example, colors). If these, or other, additional terminal functions are required, you can configure the MWTM to use an external SSH or Telnet program.

Tooltip Text Truncated

The Firefox 2 browser truncates tool tips that contain long text strings (see Firefox bug 218223). The MWTM contains only a few tool tips that exhibit this problem. The problem is resolved in Firefox 3. The problem does not occur when using the Internet Explorer (IE) browser.

Credentials for Nodes with Multiple IP Address

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, MLR Address, and Global Title Translation (GTT) table deployment

To work around this limitation, specify the credentials for all accessible IP addresses for a node.

Unprintable Characters

CSCse81393

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. This is a cosmetic problem and does not affect functionality.

Symbol Style and Line Style Preferences

CSCsg83861

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.

Java Exception

CSCsh15638

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

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

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.

You can safely ignore these log messages.

Avoid Colon (:) in ITP Object Names

CSCsh58070

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: [???]`

These error messages occur when ITP linkset, AS, and ASP names contain a colon (:). To prevent these errors, do not use the colon (:) in ITP linkset, AS, and ASP names.

Note In general, the MWTM does not support ITP AS, ASP, or linkset names that contain special characters, such as: !@#$%^&*()+=[]{};',./\:"<>?|

The supported characters in ITP AS, ASP, and linkset names are: [a-z], [A-Z], [0-9], - and _.

Unprintable Characters in GUI

On some GUI windows 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. This might occur one some RAN_SVC cards in an ONS chassis.

Appearance of MSU Rates Real-Time Charts

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.

Provisioning Problem Due to Credentials

After switching the SNMP IP address, provisioning stops working due to credentials. 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

This might occur with nodes with multiple, accessible IP addresses with credentials set for a subset of those IP addresses. To work around this limitation, specify credentials for all accessible IP addresses for a node.

Special Characters in ITP AS/ASP/Linkset Names in Reports

The following error messages might 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: [???]`

The error messages occur when ITP linkset, AS, and ASP names contain a colon (:). To work around this problem, remove the colon (:) from ITP linkset, AS, and ASP names.

Using MWTM With the RealPlayer Plugin Installed

If you use a computer that has the RealPlayer plugin installed, the Provision launch window will not work properly. When you change types on the Provision launch window, the provisioned item list will not refresh.

This is a known issue with the RealPlayer plugin. This issue occurs on both Internet Explorer and Firefox browsers.

Disable the RealPlayer plugin to use the Provision launch window. If you use Internet Explorer, you might need to reboot your computer after disabling the plugin. If you use Firefox, you might need to restart your browser after disabling the plugin.

Online Help System

The online help system is updated only during major release updates. New features added in patch releases (for example, 6.0.4) are not contained in the online help system. Instead, new features are documented in the release notes for the patch release.

Important Notes

This section contains important notes about RAN Backhaul Utilization.

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.

New Features and Resolved MWTM Caveats

The following new features and bugs fixes have been fixed in MWTM 6.1.1:

Bug ID	Description
CSCsv27571	Alarms - Add Two Level Threshold for Trap Rate Limit
CSCsv52231	Alarms - Special Category for Performance Alarms
CSCso85722	Alarms - Support EEM alarms
CSCsr51728	BWG - Compatibility Test with BWG IOS Release 2.0
CSCsw64420	CLI - Pass Parameters to mwtm adduser To Run Non-interactively
CSCsv65847	CLI - Update Help for trapratelimit CLI To Document Parameters
CSCso61357	CSG2 - Historical Performance Reports via CSV Export
CSCsw31402	CSG2 - Support for Release3 IOS - Monitoring
CSCsw88903	CSG2 - Support for Release3 IOS - Provisioning
CSCsq01503	CSG2 - Support for Release3 IOS - Troubleshooting
CSCsr81805	CSG2R1 - Configuration Support for mode tcp Commands in MD6
CSCsv55814	Client - Display IPAddr and Port Number In Failed Connection Dialog
CSCsv35067	Client - ReLayout Troubleshooting Controls For Better Screen Real Estate
CSCsw37402	CrossPlatform - CPU Historical Reports And Graphs
CSCsw37429	CrossPlatform - Memory Historical Reports And Graphs
CSCsr31682	GGSN - APN Troubleshooting
CSCsv47786	GGSN - Configuration Phase 2 Including GGSN R9
CSCso61356	GGSN - Historical Performance Reports via CSV Export For GGSN/APNs
CSCsy17803	GGSN - Support Configuration of SVCLC Sup Command
CSCsy17811	GGSN - Support New Troubleshooting Commands in Release 9
CSCsr44016	GGSN - Support for Release9 IOS Monitoring
CSCso61363	HomeAgent - Configuration
CSCsw67062	HomeAgent - HA5.0 Trap Support
CSCsq92025	HomeAgent - Historical Performance Reports via CSV Export

Bug ID	Description
CSCsu77868	HomeAgent - Support New Troubleshooting Commands in 12.4(15)XM2
CSCsv37889	IPRAN - CEM Class Idle Pattern Range Checking
CSCsv37823	IPRAN - CEM Class Payload Size Should be Editable on MWR2941
CSCsy16490	IPRAN - Configuration of HWIC-1ADSLI on MWR2941
CSCsl88545	IPRAN - MWR-2941-DC Support
CSCsx65366	IPRAN - Mapping of PWE3 Links - Alarms
CSCsy70419	IPRAN - Mapping of PWE3 Links - Java Client Tree and Tabs
CSCsx65379	IPRAN - Mapping of PWE3 Links - Topology
CSCsx65374	IPRAN - Mapping of PWE3 Links - Web Client Tree and Tabs
CSCso61359	IPRAN - PWE3 Basic Historical Performance Stats Report
CSCsu93878	IPRAN - Provision CEM xconnect
CSCsu90326	IPRAN - Provision QoS Class Maps and Policy Maps
CSCsq30016	IPRAN - Support 12.2(33)SRD on 7600
CSCsv98167	IPRAN - Support ATM IMA group on 7600 CEoPS OC3 Card
CSCsw71525	IPRAN - Support Additional ATM Parameters Provisioning
CSCsx91436	IPRAN - Support Additional Parameters For CEM Class
CSCsv46362	IPRAN - Support Advanced Gigabit Ethernet Interface Provisioning
CSCsx68337	IPRAN - Support Basic Monitoring Of ME3400 MetroE Access Switch - Server
CSCsy09647	IPRAN - Support Batch Provisioning For IPRAN Devices
CSCsu93919	IPRAN - Support Ethernet Subinterface Provisioning
CSCsw90800	IPRAN - Support MWR2941 1588v2 Clock Provisioning
CSCsv34910	IPRAN - Support Monitoring MWR-2941 HWIC-4T1/E1 HWIC-1ADSL HWIC-1ADSLI
CSCsw71517	IPRAN - Support Port-Channel Interface Provisioning
CSCsx53302	IPRAN - Support SyncE commands on MWTM
CSCsw71507	IPRAN - Support VLAN Interface Provisioning
CSCta15861	IPRAN - Troubleshooting - UserCommands.ts.ipran for Specific Deployment
CSCsz99423	IPRAN: SDH framing should allow e1 timeslots 1-31
CSCsy33539	ITP - Configuration Support for Probe-less Monitoring
CSCsm93095	ITP - E1 Controller Provisioning Updates
CSCsx94669	ITP - GTT Translations Per CPU/Linecard Historical Reports - WebClient
CSCsh91241	ITP - Graph Of Historical Linkset/Link Utilization
CSCsz77979	ITP - Include Individual Values Of T3E10L* and T3E11L* In Export Reports

Bug ID	Description
CSCsx34693	ITP - LinkState Alarm Delay
CSCsy53204	ITP - Linksets Reports Do Not Import When No Network-name Configured
CSCsw38114	ITP - Q752 - Display All Measurements In GUI Tab With ITU Standard Names
CSCsv66754	ITP - Q752 - Report Support for Table 4 Items 9-10
CSCsv66760	ITP - Q752 - Report Support for Table 5 Items 5-8
CSCso45373	ITP - Q752 - Traps Support for Table 5 Items 5-8
CSCsi89332	ITP - Q752 - Update Compliance Document
CSCsx70553	ITP - SCTP Historical Statistics Reports - CSV Export - Charts
CSCsr21186	ITP - Support ASP Bindings Config Options - Configuration
CSCsx48018	ITP - Support ASP Bindings Config Options - Monitoring
CSCsy11601	ITP - Support CS7 Route Dest and Orig Troubleshooting Commands
CSCsl17254	ITP - Support Provision of Multiple PVCs for HSL Links
CSCsr22795	ITP - Support Version 1.5 of MLR Address Table
CSCsy33550	ITP - Troubleshooting Support for Enhanced SCTP Monitoring
CSCsy33548	ITP - Troubleshooting Support for Probe-less Monitoring
CSCsx47699	ITP - Unable To Parse Running Configs When No network-name Configured
CSCsv49710	ITP - Update to Latest XUA MIB With UNITS Change
CSCsw73853	ITP Reports - MTP3 Events Reports Not Multi-Instance Aware
CSCsv86451	ITP Reports - Rare Looping awk Process in sgmLinkStats.sh
CSCsz68436	ITP: Cannot Provision Linkset on ITP When Only Signaling Point is Define
CSCsy58234	Install - Automatically Remove core Files During sgmClean.sh
CSCsx27006	Licensing - Track Managed Objects For Licensing Compliance
CSCsl82760	Object Grouping - CLI
CSCsl82735	Object Grouping - Group Editor
CSCsl82747	Object Grouping - NBAPI
CSCsw91713	Object Grouping - Show Groups In Tree Displays
CSCsz88396	RAN-O - Auto Export RAN-O Historical Reports To CSV
CSCsl88163	RAN-O - Support Configs From SPSU IPRAN/RANO Hybrid DIG - GSM
CSCsq92071	RAN-O - Support Global/PerNode Enable/Disable CLI Of RAN-O Reports
CSCsz09660	README - Update Platforms and Scalability Numbers
CSCso53103	Reports - Automatic CSV Export of All Historical Reports
CSCsu65085	Reports - Improve Status and Controls of Report Status Page

Bug ID	Description
CSCsl85243	SLB - Trap and Alarm Support
CSCsw69601	Scale - Support 50 Concurrent Clients
CSCsv34926	Scale - Support 5000 IPRAN Nodes and 25000 Circuits
CSCsy85198	Scale - Test MWTM + LMS On Supported Servers and Document Results
CSCsz27127	System - mwtm cleanall Emits Warning While Cleaning netstatus
CSCsv75136	System - Show sysName Instead of DNS Name After Discovery
CSCsb91709	Topo - Show Specified Circuit Data From Notes in HoverBox
CSCsw64456	Troubleshooting - Indicate Command Done After Executing CLI on Device
CSCsz32076	Troubleshooting - Launch shut/noshut On Interface
CSCsz86595	Update MWTM OS Info Files
CSCsx52760	WebClient - Admin->Info Messages SNMP/ALL Sublinks Use GUI Tables
CSCsw67666	WebClient - Improve Appearance of FAQ Page
CSCsu79484	mSEF - Reports on Number of Subscribers For Revenue Leakage
CSCsw67549	mSEF - Reports on Number of Subscribers for Revenue Leakage - WebClient
CSCsz65763	6.0 to 6.1 upgrade fails to upgrade STATS_* indexes correctly
CSCsx29297	Change to monitor IMA Interfaces below Node
CSCsx95247	Events: Event table column elementName varchar too short
CSCta29529	HA IP LocalPool Total Address Calculation Variance
CSCsz56302	Java Client: node properties does not reflect ssh protocol
CSCsw89303	mwtm tac command does not finish if no /tftpboot
CSCsz72971	reparenting rtrinterfaces in the datamodel is incorrect
CSCta47948	Server: MWTM server failed to start when using alternate msglog dir
CSCsw88336	Sorting does not work in provisioning screens
CSCsx81906	troubleshooting in web 'new tab' loops in javascript

Open MWTM Caveats

This section describes caveats that exist in the MWTM 6.1.1 software.

- 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.
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.

- CSCsu02993

Symptom When IOS running-config contains the following characters in the object name, MWTM web user interface may exhibit unexpected behavior:

Double quote (“)

Less than (<)

Conditions When IOS running-config contains following characters in the object name:

Double quote (“)

Less than (<)

Additional MWTM provisioning or other functions may behave unexpectedly when IOS running-config contains following characters:

!,#,$,%,^,*,(,),’,+,=, and ,

Workaround Remove special characters from IOS running-config.

Open Device Caveats

- CSCsz69451

The historical and real-time KPIs for the GGSN R9 from the CISCO-GGSN-EXT-MIB always have the value 0 due to an IOS defect in 12.4(22)YE.

The following realtime KPIs are impacted:

- GTP Throughput Upstream Bytes - cGgsnExtUpstreamByteCount
- GTP Throughput Downstream Bytes - cGgsnExtDownstreamByteCount
- GTP Throughput Upstream Packets - cGgsnExtUpstreamPktCount
- GTP Throughput Downstream Packets - cGgsnExtDownstreamPktCount
- Mobile Stations With Active PDP Contexts - cGgsnExtActivatedMs
- PDP PPP-Regen Interfaces Created - cGgsnExtGtpPppRegenCreatedIntfs
- Active PDP Contexts with Direct Tunnel - cGgsnExtGtpDtActivePDPs
- PDP Contexts Deleted without waiting for the SGSN - cGgsnExtNoWaitSgsnLocalDelPDPs
- PDP Contexts Deleted without sending to the SGSN - cGgsnExtNoReqSgsnLocalDelPDPs
- Update PDP Context Requests Sent - cGgsnExtSentPdpUpdateReqs
- Update PDP Context Responses Received - cGgsnExtRcvdSuccPdpUpdateResponses
- COA Messages Received - cGgsnExtRcvdCoaMsgs
- COA Messages Dropped - cGgsnExtDiscardedCoaMsgs
- COA QOS Updates Sent - cGgsnExtSentCoaUpdateReqs
- Error Indication Messages Sent - cGgsnExtSentErrorIndications
- Error Indication Messages Received - cGgsnExtRcvdErrorIndications
- Direct Tunnels Enabled - cGgsnExtTotalDtEnabled
- Error Indications for DT PDP Contexts - cGgsnExtRcvdDtPdpErrorIndications
- DT PDP Contexts Deleted due to Update Response - cGgsnExtTotalDtUpdFailDeletedPDPs

- CSCsz56999

Symptom When provisioning IPRAN 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
Creating 76xx Serial interface "channel-group <x> timeslots <x>"	`invalid input detected`	When serial interface is created on SPA-24CHT1-CE-ATM SPA. This SPA is primarily used to configure Circuit Emulation Functions [CESoP and SAToP], but user creates channelized serial interfaces in MWTM provision request.
Provisioning ATM Framing for 76xx ATM interfaces "atm framing <x>"	`Invalid input detected`	ATM Framing option can be provisioned only on SPA-2XOC3-ATM or SPA-4XOC3-ATM SPA, but user sets ATM Framing option on SPA-24CHT1-CE-ATM in MWTM provision request.
Enabling PTP for 2941 Vlan interfaces "ptp enable" option	`Error: local interface is down, please make sure to turn it on`	When configuring PTP, the GigabitEthernet interface port associated with the Vlan is not up and user selects this Vlan to enable PTP.
Configuring speed for 2941 Gigabit Ethernet interfaces "speed <x>"	`invalid input detected at '^' marker`	When configuring speed option for GigabitEthernet ports 0 and 1 and these ports do not support the speed CLI.
Configuring GSM SH for 1941s, 3825a on non-motherboard cards "encapsulation gsm-abis"	`Error in encaps setup. Encapsulation not changed`	When configuring GSM on Serial interface on non-zero slot number as these slots do not support GSM encapsulation.
Configuring multiple Serial Interfaces per WIC, "channel-group <x> timeslots <x>"	`Channel-groups per port limit exceeded`	When configuring more than two Serial controller channels per WIC on 1941 or more than four Serials per port on 2941 devices.

Workaround None. The user must know the card type information and submit provision requests based on the capabilities of the card.

Related Documentation

Use this document in conjunction with the following documents:

- *User Guide for the Cisco Mobile Wireless Transport Manager 6.1.1*

  http://www.cisco.com/en/US/docs/net_mgmt/mobile_wireless_transport_manager/6.1.1/user/guide/userguide.html

- *Installation Guide for the Cisco Mobile Wireless Transport Manager 6.1.1*

  http://www.cisco.com/en/US/docs/net_mgmt/mobile_wireless_transport_manager/6.1.1/installation/guide/mwtm611ig.html

- *OSS Integration Guide for the Cisco Mobile Wireless Transport Manager 6.1.1*

http://www.cisco.com/en/US/docs/net_mgmt/mobile_wireless_transport_manager/6.1.1/developer/guide/mwtm611OSSIG.html

- *Supported IOS Releases for the Cisco Mobile Wireless Transport Manager and the Cisco Signaling Gateway Manager*

  http://cisco.com/en/US/docs/net_mgmt/mobile_wireless_transport_manager/6.1/ios_support/release/IOS_comp.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

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