



Release Notes for the Cisco Mobile Wireless Transport Manager 6.1.4

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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) 6.1.4.



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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What's New in MWTM 6.1.4

[Table 1](#) lists the new features in MWTM 6.1.4.

Table 1 *New Features in Mobile Wireless Transport Manager 6.1.4*

Feature	Description
New Device Support	• Cisco Mobile Internet (7600): 12.2(33)SRC5, 12.2(33)SRC6, 12.2(33)SRE0a, 15.0(1)S (for monitoring and provisioning) • Cisco CSG2 R4 (SAMI): 12.4(24)MD2 • Cisco CSG2 R3.5 (SAMI): 12.4(22)MDA3, 12.4(22)MDA4 • Cisco GGSN 10.x on the WS-SVC-SAMI-BB-K9 module: 12.4(24)YE • Cisco GGSN 9.x on the WS-SVC-SAMI-BB-K9 module: 12.4(22)YE4 • Cisco Home Agent 5.x (SAMI and 7301): 12.4(22)YD3 • Cisco ITP (2811, 7200, 7300): 12.4(15)SW5 • Cisco ITP (7600 with SAMI): 12.2(33)IRE • Cisco IPRAN (MWR-2941): 12.2(33)MRA1, 12.2(33)MRB, 12.2(33)MRB1, 12.2(33)MRB3 • Cisco IPRAN (7600): 12.2(33)SRC5, 12.2(33)SRC6, 12.2(33)SRE0a

Supported IOS Releases in MWTM 6.1.4

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 12.4(15)SW4 12.4(15)SW5 12.2(33)IRA (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRB (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRC (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRD (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRE (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.

Table 2 **Supported IOS Releases for ITP Devices (continued)**

Device	IOS Release
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.
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) (CSR 3.0)
	12.4(20)MR (MWR-2941-DC only) (CSR 3.1)
	12.4(20)MR1 (MWR-2941-DC only) (CSR 3.1.1)
	12.4(20)MR2 (MWR-2941-DC only) (CSR 3.1.2)
	12.2(33)MRA (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2)
	12.2(33)MRA1 (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.0.1)
	12.2(33)MRB (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.1)
	12.2(33)MRB1 (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.1.1)
	12.2(33)MRB3 (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.1.3)
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
	12.2(29)SM5
MToP 7600	12.2(33)SRC1
	12.2(33)SRC2
	12.2(33)SRC3
	12.2(33)SRC4
	12.2(33)SRC5
	12.2(33)SRC6
	12.2(33)SRD
	12.2(33)SRD1
	12.2(33)SRD2
	12.2(33)SRD3
	12.2(33)SRD4
	12.2(33)SRE0a
	12.2(33)SRE

Table 4 **Supported IOS Releases for mSEF Devices**

Device	IOS Release
GGSN	GGSN 10.x on the WS-SVC-SAMI-BB-K9 module
	• 12.4(24)YE
	GGSN 9.x on the WS-SVC-SAMI-BB-K9 module
	• 12.4(22)YE
	• 12.4(22)YE1
	• 12.4(22)YE2
	• 12.4(22)YE3
	• 12.4(22)YE4
	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
	• 12.4(15)XQ4
	GGSN 7 on the WS-SVC-MWAM-1 module:
	• 12.4(9)XG2
	• 12.4(9)XG3
	• 12.4(9)XG4
	• 12.4(9)XG5
	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

Table 4 **Supported IOS Releases for mSEF Devices (continued)**

Device	IOS Release
GGSN (continued)	Supervisor Module: • 12.2(33)SRC1 • 12.2(33)SRC2 • 12.2(33)SRC3 • 12.2(33)SRC4 • 12.2(33)SRC5 • 12.2(33)SRC6 • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE
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 R5:
	• 12.4(24)MDA
	CSG2 R4:
	• 12.4(24)MD1
	• 12.4(24)MD2
	CSG2 R3.5
	• 12.4(22)MDA
	• 12.4(22)MDA1
	• 12.4(22)MDA2
	• 12.4(22)MDA3
	• 12.4(22)MDA4
	CSG2 R3:
	• 12.4(22)MD
	• 12.4(22)MD1
	CSG2 R2:
	• 12.4(15)MD
	• 12.4(15)MD1
	• 12.4(15)MD2
	• 12.4(15)MD3
	• 12.4(15)MD4
	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
	• 12.4(11)MD10

Table 4 **Supported IOS Releases for mSEF Devices (continued)**

Device	IOS Release
CSG2 (continued)	Supervisor Module: • 12.2(33)SRC1 • 12.2(33)SRC2 • 12.2(33)SRC3 • 12.2(33)SRC4 • 12.2(33)SRC5 • 12.2(33)SRC6 • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE • 15.0(1)S (for monitoring and provisioning)

Table 4 **Supported IOS Releases for mSEF Devices (continued)**

Device	IOS Release
HA	HA 5.x: • 12.4(22)YD • 12.4(22)YD1 • 12.4(22)YD2 • 12.4(22)YD3 HA 4.x: • 12.4(15)XM • 12.4(15)XM1 • 12.4(15)XM2 • 12.4(15)XM3 Supervisor Module: • 12.2(33)SRC1 • 12.2(33)SRC2 • 12.2(33)SRC3 • 12.2(33)SRC4 • 12.2(33)SRC5 • 12.2(33)SRC6 • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE

Table 4 **Supported IOS Releases for mSEF Devices (continued)**

Device	IOS Release
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)
	12.4(24)YG1 (BWG version 2.1)
	Supervisor Module:
	• 12.2(33)SRC1
	• 12.2(33)SRC2
	• 12.2(33)SRC3
	• 12.2(33)SRC4
	• 12.2(33)SRC5
	• 12.2(33)SRC6
	• 12.2(33)SRD
	• 12.2(33)SRD1
	• 12.2(33)SRD2
	• 12.2(33)SRD3
	• 12.2(33)SRD4
	• 12.2(33)SRE0a
	• 12.2(33)SRE

Table 4 **Supported IOS Releases for mSEF Devices (continued)**

Device	IOS Release
PDSN	PDSN 5.2 • 12.4(22)XR4 PDSN 5.1: • 12.4(22)XR1 • 12.4(22)XR2 • 12.4(22)XR3 Supervisor Module: • 12.2(33)SRC1 • 12.2(33)SRC2 • 12.2(33)SRC3 • 12.2(33)SRC4 • 12.2(33)SRC5 • 12.2(33)SRC6 • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE
PCRF	Cisco Policy Manager (PCRF): • 2.0

Table 4 **Supported IOS Releases for mSEF Devices (continued)**

Device	IOS Release
PDNGW	Supervisor Module: • 12.2(33)SRC1 • 12.2(33)SRC2 • 12.2(33)SRC3 • 12.2(33)SRC4 • 12.2(33)SRC5 • 12.2(33)SRC6 • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE • 15.0(1)S (for monitoring and provisioning) LTE R1: • 12.4(24)T3a
SGW	Supervisor Module: • 12.2(33)SRC1 • 12.2(33)SRC2 • 12.2(33)SRC3 • 12.2(33)SRC4 • 12.2(33)SRC5 • 12.2(33)SRC6 • 12.2(33)SRD • 12.2(33)SRD1 • 12.2(33)SRD2 • 12.2(33)SRD3 • 12.2(33)SRD4 • 12.2(33)SRE0a • 12.2(33)SRE • 15.0(1)S (for monitoring and provisioning) LTE R1: • 12.4(24)T3a

Unsupported IOS Releases

The MWTM no longer supports the IOS releases listed in [Table 5](#):

Table 5 *Unsupported IOS Releases in MWTM 6.1.4*

ITP			mSEF								
7600	Other	IPRAN	GGSN	CSG1	CSG2	HA	BWG	PDSN	PDNGW	SGW	PCRF
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)	N/A	N/A	N/A	N/A
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		12.4(24) MD (CSG2 R4)						
12.2(18) IXF	12.2(4)MB8	12.2(33) SRB	12.4(2) XB3								
	12.2(4)MB9a	12.2(33) SRB1	12.4(2) XB4								
	12.2(4)MB10	12.2(33) SRB2	12.4(2) XB5								
	12.2(4)MB11	12.2(33) SRB3	12.4(2) XB6								
	12.2(4)MB12	12.2(33) SRB4	GGSN 7								
	12.2(4)MB13	12.2(33) SRB5	12.4(9)XG								
	12.2(18)SW	12.2(33) SRB6	12.4(9) XG1								
	12.2(19)SW	12.2(33) SRB7									
	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:

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- [SSH-Enabled Nodes, page 16](#)
- [INSTANCE_NUMBER on Single-Instance ITP, page 17](#)
- [Multiprocessor Multithread Vendor Exception, page 17](#)
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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 <i>sgmLinkStats.sh</i> 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 on 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 <i>sgmLinkStats.sh</i> 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.

APN and GTP Reports Disabled for GGSN on Patch Upgrade

CSCtj21269

If you enable GGSN reporting in MWTM 6.1.1 and then upgrade to MWTM 6.1.2 and apply the latest service pack, then APN reports are disabled. You may have to re-enable the APN reports even if they were previously enabled.

To enable APN reports, execute **mwtm statreps apn** command or from the web interface select “Reports” and enable APN.

Historical Statistics Collection During Upgrade

When you upgrade to MWTM 6.1.4 from an earlier version, there may be a temporary stop in the collection of data. This could result in a time gap shown in historical reports for shorter interval reports (For example, 15 minute reports). No intervention is required for collection to resume.

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 6.1.4:

Bug ID	Description
CSCti59874	Alarms - ArchiveAge Parameter Is Deprecated
CSCth73549	Alarms - Display Alarm Summary Counts Toolbar - JavaClient
CSCtf26117	Alarms - Display Alarm Summary Counts Toolbar - WebClient
CSCtj07216	Alarms - Event Editor - Correct sound filter criteria execution logic
CSCti03838	Alarms - EventEditor - Syslog Receiver and Syslog Event Processing
CSCtj16468	Alarms - Filter To Display Only Alarm Messages In FileArchive->Events
CSCtf17218	Alarms - Include Feature In Message Substitution Options
CSCtd73590	Alarms - Include X.733 Fault Type In Alarm Message Text
CSCtf20389	Alarms - Support RegEx Matching and Alarm Name Filters
CSCti06033	Alarms - Support ifAlias Substitution Variable In Interface Alarms
CSCtf46534	Alarms - Update DS1-MIB/IF-MIB To RFC 3895/2863

Bug ID	Description
CSCtg35964	Alarms - Various Unrecognized Traps
CSCtd45508	CSG2 - 4.0 - Billing Plan Stats - Historical Tables
CSCtd45510	CSG2 - 4.0 - Billing Plan Stats - Real-Time GUI
CSCti73612	Client - Display New Fields In Interface/Link/ASPA Summary Tables
CSCth71368	Client - Display SysName In Details Tab
CSCti88334	Client - Display sysLocation/sysContact Fields In Node Details
CSCth75078	Client - RealTime - Do Not Poll Stats For ifType=atmIma(107)
CSCsh19408	Client - Use Server Clock Calendar Popup In Export To CSV Reports
CSCti20858	Client - Use Server Clock Calendar Popup In Export To ITP CSV reports
CSCth78907	Doc - Add Document On Bandwidth Use To Build Image
CSCth35265	GGSN - GTP Throughput Statistics - Historical Graphs
CSCth09215	Groups - Auto Create Groups From Feature
CSCth01546	HOMEAGENT - Enable Subscriber Search On HA Group Action Menus
CSCtf81809	IPRAN - Additional ES+ Series Line Card Support
CSCti66452	IPRAN - Change Default SNMPAccess To OutOfBand For CSR 3.2 And Later
CSCsz39881	IPRAN - Config/Troubleshooting Of 1588-2008 TransClock Termination
CSCsy27941	IPRAN - Config/Troubleshooting Of 1588v2 ToD/1PPS/SyncEHybrid
CSCsz39888	IPRAN - Config/Troubleshooting Of PTP Redundant Best Master Clock BMCA
CSCtb19117	IPRAN - Config/Troubleshooting of BFD Static Route
CSCtb19123	IPRAN - Config/Troubleshooting of Hot Standby PTP Master
CSCsz39944	IPRAN - Configuration of E-LMI
CSCsz90027	IPRAN - Configuration of HWIC-D-9ESW on MWR2941
CSCtf09058	IPRAN - Multicast/MulticastVRF/MulticastGRE - Alarms
CSCtb19096	IPRAN - Support 255 VLANs With 802.1q
CSCti66427	IPRAN - Support CSR 3.2.1.3
CSCsy27901	IPRAN - Support For LAG Alarms - Link Aggregation
CSCtf31972	IPRAN - Support Static PW Labels Over MLPS - Not Use LDP
CSCtg60396	IPRAN - Update MIBs To Latest Supported By MWR
CSCth73837	IPRAN - Updates To OSPF Configuration
CSCti53444	ITP - Client - Include Slot/Port Number In Link and ASPA Details
CSCtd63344	ITP - GSP/GSCCP/XUA MIB Updates - Congestion Alarms

Bug ID	Description
CSCte79073	ITP - Include Slot/Processor/Bay In Linkstats/ASP Report CSV Files
CSCsy54567	ITP - Support Public and Private Addresses In fixAspNodeIpaddresses
CSCth70338	ITP - Support Receive Side Congestion Alarms
CSCtd89756	ITP - Support Receive Side Congestion CLI
CSCtd63337	ITP - Support Single-Instance GTTNext Tables
CSCtj09660	Install - Do not ship apache/share/cgi-bin/printenv or test-cgi
CSCtf99387	Install - Support Basic Migration Of OSS Host Configuration
CSCth80890	Install - Support Upgrade from MWTM 6.1.2 to 6.1.4
CSCth80901	Install - Support Upgrade from MWTM 6.1.3 to 6.1.4
CSCtc15543	Inventory - Enhanced Inventory Reporting
CSCti16530	Inventory - Include CustomName/SysName In mwtmChassisInventory Files
CSCti87112	Inventory - Include Servername and Version In Export Filenames
CSCti72440	Inventory - Support Chassis Tab On 7600 For All Technologies
CSCth15823	Inventory - getAllNEs Can Use All Memory On Linux
CSCti28482	JavaClient - Adjustments To Default Summary Lists
CSCti00567	JavaClient - Alarm List shows Incorrectly with Multiple Level of Views
CSCth46125	JavaClient - Issues With Node Name Preferences In ViewEditor/Topo
CSCti35794	JavaClient - Keep Node/SubView Position in Topo When View has Changed
CSCti21270	JavaClient - Support 1000 Nodes in Java Client
CSCtg03985	Javaclient - Updates To View Editor and View Behavior
CSCtd47786	LTE - Additional APN Statistics - Historical CSV/Tables/Graphs
CSCth35243	LTE - Additional GTP Path Error Statistics - Historical DB/CSV
CSCti03547	LTE - Consistent Slot Number Format In CPUStats CSV Files For SAMIs
CSCti44272	LTE - Document Scale/BackupFileSize Info
CSCtg79120	LTE - EPC Active Statistics - Historical DB/CSV
CSCtg79126	LTE - EPC Active Statistics - Historical Tables
CSCte76324	LTE - IP Local Pool Statistics - Historical Tables/Graphs
CSCtd45341	LTE - iSCSI Fault Support - GGSN, SGW, PGW, and CSG2
CSCti11979	LTE - make3gpp Reports Fail To Make Per-Node ApnInstance Files
CSCti41470	LTE - PCRF 2.0 - Details Page - Remove Unknown Field - Parse Version
CSCti41523	LTE - PCRF 2.0 - Updated Trap Support

Bug ID	Description
CSCth35246	LTE - Subscriber Count Statistics - Historical Graphs
CSCti21297	LTE - Support IOS 15.0(1)S in LTE Deployment - Monitoring
CSCti21416	LTE - Support IOS 15.0(1)S in LTE Deployment - Provisioning
CSCtd45469	LTE/GGSN - Charging Statistics - Historical Tables/Graphs
CSCta87373	LTE/GGSN - Charging Statistics - Real-Time GUI
CSCti09099	MIBs - Updates To CISCO-RF-MIB
CSCti19290	Provisioning - Add Sample Batch Config Files
CSCtd73540	Provisioning - Save Config Changes To Batch Files Without To Device
CSCtf49462	Provisioning - Support User Specified Password in Batch Provisioning
CSCth92807	Reports - Aggregate APN graph presentation error - no data
CSCth34433	Reports - Aggregate APN Stats on Multiple Nodes with Different APN Index
CSCti21104	Reports - APN Instance Stats Shows Incorrect Data
CSCti44369	Reports - Change Default 15 Minute Aging To 3 Days
CSCti31019	Reports - Combined plot graphs show inconsistent series colors
CSCth75076	Reports - Do Not Poll Stats For ifType=atmIma(107)
CSCtj16099	Reports - Do Not Report Interface Stats For Internal Unrouted VLANs
CSCth90895	Reports - Engine Support Of 3GPP CSV/PerNode Files + Reduced CSV Delay
CSCti48027	Reports - Improved Speed/Reduced Files In mwtmCron.sh make3gppcsv
CSCth60353	Reports - Include CustomName/SysName/Feature In IPRAN/LTE CSV Files
CSCti16197	Reports - Interface Errors/Discards - Historical Percentage Graphs
CSCtf25805	Reports - Interface Packets - Historical Percentage Graphs
CSCth72996	Reports - RealTime - Missing ATM interface Stats on SPA-2XOC3-ATM Card
CSCtg63464	Reports - Remove Old Unused Directories
CSCti31050	Reports - Series editor has wrong series after changing sort param
CSCth65714	Scale - Do Not Do GetHostByAddr During Trap Processing
CSCth81437	Security - Precompiled PAM Radius Modules
CSCth15720	Security - Precompiled PAM TACPLUS Modules
CSCth85772	Security - Support Notice On Dual Login
CSCti69354	Security - Issue in OpenSSL
CSCth42326	Security - Issue in OpenSSL
CSCti63053	System - Allow Custom Stop Script For Disk Space Monitor

Bug ID	Description
CSCth85820	System - Don't AutoStart Server After restore/cleanall/servername
CSCti36536	System - Don't Call Cleaning Utility During System Startup
CSCtg12225	System - Enable Syslog Receiver and Syslog Event Processing
CSCti81499	System - False router reboot detected on sysUpTime wrap
CSCti18781	System - Large Log Files From mod_gzip When Running With SSL Enabled
CSCti33677	System - Launch Server Always Logs To Default Logs Directory
CSCth74028	System - Updates To mwtm clean, cleandb, cleanall
CSCti47926	System - Support CiscoWorks Export/Import CSV File Format Version 3.0
CSCte73463	System - Support For UCS Servers
CSCth41664	System - Update to JRE 1.6.0_20+
CSCti51389	System - Updates For Faster Backup/Restore
CSCti39167	System - Hashmap.get Method Looping In EventModelMediatorImpl On Slow Platforms
CSCti42850	System - Write mwtmBackupStats to Backup Directory Instead Of tmp
CSCtg56126	Upgrade - Add upgrade database format routine to handle older DBs
CSCtg39464	Upgrade - Missing Chassis Inventory Export Cron Entry after 6.1.2 upgrade
CSCti18292	WebClient - ActiveAlarms/EventHistory - Use Server Timezone on TimeRange
CSCth09186	WebClient - Additional Inventory/Status Summary Reports
CSCth27307	WebClient - Adjustments To Default Summary Lists
CSCti31019	WebClient - Combined plot graphs show inconsistent series colors
CSCth15812	WebClient - Convert Remaining Tables To Fixed Column headers
CSCth88238	WebClient - Credential Test Fails In Device Banner With Special Chars
CSCtj03802	WebClient - Disk Monitor status not properly initialized
CSCth09199	WebClient - Edit Object Properties Including Name
CSCth87408	WebClient - IE - Alarms Toolbar buttons Active with Nothing Selected
CSCth73449	WebClient - IE7/IE8 AJAX compatibility issue
CSCti51027	WebClient - Links To README-Large-Deployment and README-Bandwidth-Usage
CSCti43682	WebClient - Minor Data Display Issues In Some APN Reports
CSCth95069	WebClient - Mis-sized scroll bar on provisioning window in IE
CSCth30282	WebClient - Reduce Width Of Tabs In Details Screens
CSCtf30850	WebClient - Relayout Alarm Toolbar - Lesser Horizontal RealEstate
CSCti66553	WebClient - Support Editing ReportPolling Flag

Bug ID	Description
CSCth34677	WebClient - Support SNMP/IP Addresses Editor Dialog
CSCth56222	WebClient - Use Server Timezone When Prompt User Input on Time Range

Open MWTM Caveats

This section describes caveats that exist in the MWTM 6.1.4 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: <i>primary</i> or <i>secondary</i> .	While configuring the clock source line priority option on the T1/E1 controller, the user specified the <i>primary</i> or <i>secondary</i> 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: <i>primary</i> or <i>secondary</i> .	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.

- CSCsz16365

Symptom When provisioning IP-RAN 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
Provisioning Sonet Serial interface controller SONET <x> au-4 <x> tug-3 <x> tug-2 <x> e1 <x> channel-group <x> timeslots <x>	invalid input detected at '^' marker	When a Sonet Serial interface is created on SPA-1XCHOC3-CE-ATM SPA. This SPA is primarily used to configure Sonet CEM Group, but user creates Sonet Serial interface in MWTM provision request.
Provisioning Sonet CEM Group interface controller SONET <x> au-4 <x> tug-3 <x> tug-2 <x> e1 <x> cem-group <x> timeslots <x>	invalid input detected at '^' marker	When a Sonet CEM Group is created on SPA-1XCHOC12/DS0 and SPA-1XCHSTM1/OC3. The SPA's are primarily used to configure Sonet Serial interfaces, but user creates Sonet CEM Group in MWTM provision request.
Changing framing on Sonet Interface controller SONET <x> framing sdh	invalid input detected at '^' marker	When changing framing on the Sonet interface from 'sonet' to 'sdh' option on SPA-1XCHOC12/DS0 SPA. This SPA is primarily used only in the STS mode but user is changing to the AU-4 mode in MWTM provision request.
Provisioning speed for Gigabit Ethernet interfaces interface GigabitEthernet<x> speed nonnegotiate	invalid input detected at '^' marker	When configuring the speed as 'nonnegotiate' on Gigabit Ethernet interfaces. This speed option applies only for DS3 interfaces but user is configuring on non-DS3 Gigabit Ethernet interfaces in MWTM provision request.

Provisioning Action	Symptom	Condition
Provisioning cablelength option for T1 controllers controller T1 <x> cablelength short <x>	invalid input detected at '^' marker	When configuring cablelength 'short' on SPA-8XCHT1/E1. SPA-8XCHT1/E1 is used mainly for MLPPP backhaul, but user is configuring the cablelength options of SPA-24CHT1-CE-ATM used for shorthaul PWE3 xconnects in MWTM provision request.
Provisioning ATM Interface for a controller, "mode atm aim <x>"	Might succeed but no ATM interface is created on the device	When configuring more than allowed ATM interfaces on 1941 and 3800 device types. The count of ATM's depend on the AIM card used like AIM8 or AIM4 card, but user is creating more than allowed ATM's in MWTM provision request.

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

- 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.

Provisioning Action	Symptom	Condition
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.

-
- 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.

-
- CSCtf51338

Symptom The MWTM web client is very slow or unresponsive when expanding the Default View node in the inventory tree.

Conditions Internet Explorer version 6 is being used as the web browser. The network latency between the web client and the MWTM server is very high. MWTM is being used to monitor a medium-sized or large network.

Workaround Use a different web browser such as Firefox or Internet Explorer 7 or later.

-
- CSCtf56323

Symptom When provisioning IPRAN interfaces with a VRF from the Provision tab of the web interface, provisioning operation might fail with “Incompatible with xconnect command on <x> - command rejected.” Similarly while provisioning a PWE3 Xconnect on IPRAN object, the provisioning operation might fail with “Incompatible with ip vrf command on <x> - command rejected.”

Conditions Both PWE3 Xconnect and VRF appear to be mutually exclusive on Parent-Child interfaces. On some interfaces, if Parent has PWE3 Xconnect then child interface of the parent cannot add VRF and vice versa.

Workaround None. The user must gain knowledge about the parent-child interfaces and specify correct values in the provisioning request.

- CSCtf54835

Symptom When provisioning IPRAN Gigabit or Ten Gigabit Ethernet interfaces with a VRF from the Provision tab of the web interface, the provisioning operation might fail with “% Invalid input detected at '^' marker.”

Conditions Gigabit and Ten Gigabit Ethernet interfaces can be provisioned either with switchport or VRF. When the Ethernet interface is already set as switchport, the user is attempting to configure VRF in the MWTM provision request.

Workaround None. The user must have knowledge about the interfaces and specify correct values in the provisioning request.

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

Related Documentation

Use this document in conjunction with the following documents:

- *User Guide for the Cisco Mobile Wireless Transport Manager 6.1.4*
http://www.cisco.com/en/US/docs/net_mgmt/mobile_wireless_transport_manager/6.1.4/user/guide/userguide.html
- *Installation Guide for the Cisco Mobile Wireless Transport Manager 6.1.4*
http://www.cisco.com/en/US/docs/net_mgmt/mobile_wireless_transport_manager/6.1.4/installation/guide/mwtmig.html
- *OSS Integration Guide for the Cisco Mobile Wireless Transport Manager 6.1.4*
http://www.cisco.com/en/US/docs/net_mgmt/mobile_wireless_transport_manager/6.1.4/developer/guide/mwtm614ossig.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/6.1.4/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.

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