Release Notes for the Cisco Mobile Wireless Transport Manager 6.1.7

Date: May 7, 2012

These release notes describe features added, caveats, known bugs, and other important information for installing and using Cisco Mobile Wireless Transport Manager (MWTM) 6.1.7.

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 6.1.7

Table 1 lists the new features in MWTM 6.1.7.

Table 1 New Features in Mobile Wireless Transport Manager 6.1.7

Feature	Description
New Device Support	• Cisco Cell Site Router: 15.0(2)MR (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.3.1) • MToP 7600 : 12.2(33)SRE3, 15.0(1)S, 15.0(1)S1, 15.1(1)S, and 15.1(2)S • Cisco Mobile Internet (7600): 12.2(33)SRE3, 15.0(1)S, 15.0(1)S1, 15.1(1)S, and 15.1(2)S • Cisco GGSN 10.x on the WS-SVC-SAMI-BB-K9 module: 12.4(24)YE1, 12.4(24)YE2 • Cisco CSG2 R6 (SAMI) : 12.4(24)MDB • Cisco ITP Device: 12.2(33)IRE, 12.2(33)IRE1, 12.2(33)IRE2, 12.2(33)IRF, 12.2(33)IRG • Cisco PDSN Device: 12.4(22)XR3 • Cisco PDNGW Device: 12.4(24)T3c (LTE R1.3) • Cisco SGW Device: 12.4(24)T3c (LTE R1.3) • Cisco SPGW Device: 12.4(24)T4a (LTE R2.0)

Supported IOS Releases in MWTM 6.1.7

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
Other[1]	12.2(33)IRG1 12.2(33)IRH 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 12.4(15)SW6 12.4(15)SW7 12.4(15)SW8 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) 12.2(33)IRE1 (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRE2 (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRF (for the WS-SVC-SAMI-BB-K9 module only) 12.2(33)IRG (for the WS-SVC-SAMI-BB-K9 module only)
GTT Encoding Scheme Support	12.2(25)SW4A or later 12.2(33)IRA or later is required.
MLR Address Table Configuration Support	12.2(25)SW4A or later 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 12.2(33)IRA or later is required.
For Route Table and GTT Table Deployment	12.2(25)SW4A or later 12.2(33)IRA or later is required.
For ITP Provisioning	12.2(25)SW4A or later 12.2(33)IRA or later is required
For MSU Rates	12.2(25)SW7 or later 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)MRB2 (MWR-2941-DC and MWR-2941-DC-A only)
	12.2(33)MRB3 (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.1.3)
	12.2(33)MRB5 (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.1.5)
	12.2(33)MRB6 (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.2.1.6)
	15.0(1)MR (MWR-2941-DC and MWR-2941-DC-A only)
	15.0(2)MR (MWR-2941-DC and MWR-2941-DC-A only) (CSR 3.3.1)
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)SRE0a
	12.2(33)SRE1
	12.2(33)SRE2
	12.2(33)SRE3
	15.0(1)S
	15.0(1)S1
	15.0(1)S2
	15.0.(1)S3a
	15.1(1)S
	15.1(2)S

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 • 12.4(24)YE1 • 12.4(24)YE2 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 Supervisor Module: • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.0(1)S2 • 15.0.(1)S3a • 15.1(1)S

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 R6: • 12.4(24)MDB1 • 12.4(24)MDB2 • 12.4(24)MDB3 • 12.4(24)MDB4 • 12.4(24)MDB5 • 12.4(24)MDB 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 • 12.4(22)MDA5 • 12.4(22)MDA6 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

Table 4 Supported IOS Releases for mSEF Devices (continued)

Device	IOS Release
CSG2 (continued)	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 Supervisor Module: • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.0(1)S2 • 15.0.(1)S3a • 15.1(1)S

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)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S1 • 15.0(1)S • 15.0(1)S2 • 15.0.(1)S3a • 15.1(1)S
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)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.0(1)S2 • 15.0.(1)S3a • 15.1(1)S

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)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.0(1)S2 • 15.0.(1)S3a • 15.1(1)S
PCRF	Cisco Policy Manager (PCRF): • 2.0
PDNGW	Supervisor Module: • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.0(1)S2 • 15.0.(1)S3a • 15.1(1)S LTE R1: • 12.4(24)T3a LTE R1.2: • 12.4(24)T3b LTE R1.3: • 12.4(24)T3c • 12.4(24)T3e • 12.4(24)T3f • 12.4(24)T31f

Table 4 Supported IOS Releases for mSEF Devices (continued)

Device	IOS Release
SGW	Supervisor Module: • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.0(1)S2 • 15.0.(1)S3a • 15.1(1)S LTE R1: • 12.4(24)T3a LTE R1.2: • 12.4(24)T3b LTE R1.3: • 12.4(24)T3c • 12.4(24)T3e • 12.4(24)T3f • 12.4(24)T31f
SPGW	Supervisor Module: • 12.2(33)SRE0a • 12.2(33)SRE1 • 12.2(33)SRE2 • 15.0(1)S • 15.0(1)S1 • 15.0(1)S2 • 15.0.(1)S3a • 15.1(1)S LTE R2.0: • 12.4(24)T4a • 12.4(24)T4b • 12.4(24)T4c • 12.4(24)T4d

Unsupported IOS Releases

The MWTM no longer supports the IOS releases listed in Table 4:

Unsupported IOS Releases in MWTM 6.1.7

ITP			mSEF				
7600	**Other**	**IPRAN**	**GGSN**	**CSG1**	**CSG2**	**HA**	**BWG**
12.2(18)IXA 12.2(18)IXB 12.2(18)IXB1 12.2(18)IXB2 12.2(18)IXC 12.2(18)IXD 12.2(18)IXD1 12.2(18)IXE 12.2(18)IXF 12.2(18)IXF1 12.2(18)IXG 12.2(18)IXH	12.2(4)MB4 12.2(4)MB5 12.2(4)MB6 12.2(4)MB7 12.2(4)MB8 12.2(4)MB9 12.2(4)MB9a 12.2(4)MB10 12.2(4)MB11 12.2(4)MB12 12.2(4)MB13 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	12.4(9)MR 12.4(11)MR 12.4(12)MR 12.4(12)MR1 12.2(33)SRB 12.2(33)SRB1 12.2(33)SRB2 12.2(33)SRB3 12.2(33)SRB4 12.2(33)SRB5 12.2(33)SRB6 12.2(33)SRB7 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	GGSN 6 12.4(2)XB 12.4(2)XB1 12.4(2)XB2 12.4(2)XB3 12.4(2)XB4 12.4(2)XB5 12.4(2)XB6 GGSN 7 12.4(9)XG 12.4(9)XG1 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	N/A	12.4(11)MD 12.4(11)MD1 12.4(11)MD2 12.4(24)MD (CSG2 R4) 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)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	12.4(15)XL1 (BWG version 1.0) 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

Table 5 Unsupported IOS Releases in MWTM 6.1.7(contd)

PDSN	PDNGW	SGW	PCRF	SPGW
12.2(33)SRC1	12.2(33)SRC1	12.2(33)SRC1		12.2(33)SRD
12.2(33)SRC2	12.2(33)SRC2	12.2(33)SRC2		12.2(33)SRD1
12.2(33)SRC3	12.2(33)SRC3	12.2(33)SRC3		12.2(33)SRD2
12.2(33)SRC4	12.2(33)SRC4	12.2(33)SRC4		12.2(33)SRD3
12.2(33)SRC5	12.2(33)SRC5	12.2(33)SRC5		12.2(33)SRD4
12.2(33)SRC6	12.2(33)SRC6	12.2(33)SRC6		
12.2(33)SRD	12.2(33)SRD	12.2(33)SRD		
12.2(33)SRD1	12.2(33)SRD1	12.2(33)SRD1		
12.2(33)SRD2	12.2(33)SRD2	12.2(33)SRD2		
12.2(33)SRD3	12.2(33)SRD3	12.2(33)SRD3		
12.2(33)SRD4	12.2(33)SRD4	12.2(33)SRD4		

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.

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 6.1.7 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 6.1.7:

Bug ID	Description
CSCsw34726	Per User/UserGroup Access To DeviceGroups
CSCtf34110	LTE - PDNGW/SGW - Version 2.2.1 - IPV6 - Realtime and HistoricalDB/CSV
CSCth09187	Troubleshooting - Device Group Commands
CSCti33978	LTE - Discover and Report Pairs Of 7600s In Inventory Export
CSCtj71827	LTE - CSG2/PCEF - 7.0 - Sever - RealTime Stats Poller, Historical DB/CSV
CSCtl09702	Alarms - One Minute Fast Basic Status Poller
CSCtn46966	Alarms - Enhanced Trap Rate Throttling
CSCtn65738	ITP - Additional Metrics and 15 Minute Reports For MSU Load
CSCto12030	LTE - PCRF - CPM 3.0 Features - Reports
CSCtq11051	Provisioning - IPv6 Specific Commands To An IPv4 Managed NE
CSCtq11268	Reports - 6.1.4 PerfStats Only Mode With Updated Device Support
CSCtq36085	Licensing - Out-Of-Compliance RTU Reports
CSCtq85665	LTE - EPC 2.1 - Historical Stats DB/CSV/Tables

Bug ID	Description
CSCtq88497	LTE - EPC 2.1 - Provisioning
CSCtq88528	LTE - EPC 2.1 - Troubleshooting
CSCtr25653	LTE - PDNGW/SGW - Version 2.2.1 - Statistics - Historical Tables
CSCtr25662	LTE - PDNGW/SGW - Version 2.2.1 - Traps/Alarms
CSCtr25669	LTE - PDNGW/SGW - Version 2.2.1 - Troubleshooting
CSCtr25673	LTE - PDNGW/SGW - Version 3.0 - Provisioning
CSCtr25892	LTE - CSG2/PCEF - 7.0 - Provisioning
CSCtr25897	LTE - CSG2/PCEF - 7.0 - Troubleshooting
CSCtr25910	LTE - CSG2/PCEF - 7.0 - Support for Real-Time Web GUI
CSCtr25914	LTE - CSG2/PCEF - 7.0 - Support for Historical Table/Graph
CSCtr31141	Reports - Enhancements for Memory Buffer Pool Statistics
CSCtr48088	Provisioning - Support For EVC Speed Defaulting To Port Speed
CSCtr48238	Systems - Monitor Memory Usage + Send Alarms + Prevent Outage
CSCtr64205	LTE - EPC - Lawful Intercept - CISCO-TAP2-MIB - Traps/Alarms
CSCtr85304	System - Disable Pollable Status For All But Primary IP Address
CSCtr96722	IPRAN - EVC Speed Defaulting To Port Speed for 15.1(3)S IOS On 7600
CSCts23466	LTE - EPC - CISCO-NTP-MIB - Traps/Alarms
CSCts33891	ITP - Move MSU Rate Hourly and Daily CSV to xml
CSCts50222	LTE - EPC - Addtional Graphs In Reports
CSCts66329	ITP - Additional MSU Rate Reports
CSCtt09561	OpenSSL Service Vulnerability
CSCtt19968	LTE - EPC - Addtional Variables In GTP Reports
CSCtt40916	MWTM 617 - To support upgrade path from 616 latest SP
CSCtt71127	LTE - PCRF - CPM 3.0 Features - Traps/Alarms
CSCtu21029	ITP - IRH - Traps and Alarms Support
CSCtw91309	LTE - EPC - Update Real Time GUI with additional GTP variables
CSCtx66941	Performance: Use files to Cache device details instead of database table
CSCtx05091	Alarm: Free memory value displaying negative values
CSCtx10935	Reports: Multiple entries with different values for same APN/poll interv
CSCtx11792	Reports: Issues in GTPv2 Path bearer req/resp Stats/Historical report
CSCtx37248	Reports: GTPv2StatsBearerSPGW Historical reports missing
CSCtx56166	3gpp pernode report - Two report filenames for a single interval
CSCtx56175	3gpp pernodereport FilenameFormat not inline with respect node timezone
CSCtx64758	Reports: Duplicate entries in GTP path related reports
CSCtx68018	Alarms: Normal alarm not fwd to NB when SendAlarmSetsAndClears is set
CSCtx79452	Reports: Most of the 3gpp/mwtm reports are missing.
CSCtx93593	Alarms: Node Unreachable not getting cleared in latest build

Bug ID	Description
CSCty07473	Reports: Data mismatch in 3GPP reports when two reports in same interval
CSCty15154	PCRF: PCRF not getting discovered in MWTM
CSCto59252	Generate alarm when the clock is out-of-sync between NE and MWTM server
CSCtr67979	Common alarms are not getting displayed on the Event Editor.
CSCts86594	negative value in GTP SentPDUOctets
CSCtt15118	Update "FreeMemory" event poller to use latest MIb variables
CSCtu51414	alarm should not be forwded to north bound when node in pm
CSCtu89637	GUI - GGSN - MSIDSN Search Tool - Increase field length to 20
CSCtw53585	Web GUI- SPGW - Add support for APN Search for SPGW EPC 2.2
CSCtw84200	Backup - generate seed file CLI
CSCtx05275	Reports: GTP Path remode node displayed wrongly in Reports
CSCtx26574	Column 'FQDNID' is either not in any table exception
CSCtx32579	Performance - Optimize Display name and feature column lookups
CSCtx34724	Security-Modifying user access level terminates user session in few case
CSCtx39400	Reports: Active Bearer count in APN Instance Bearer shows wrong values
CSCtx45494	CLI for Fast Poller
CSCtx58881	sig msg coulmn in gtp path err stats always shows waiting.
CSCtx58894	Incorrect number of paths shown in gtp path error statistics
CSCtx58922	reboot reason in 'Details' tab is always "unknown.
CSCty07407	Reports: 3GPP reports skipping intervals
CSCty07696	webclient - Loading take more than 2 minutes for 500 nodes in MWTM.
CSCty08005	Backup - Reports are not getting generated while backup is in progress
CSCty10787	Reports - Slot number to be displayed as 0 under CPU/Memory Util Stats
CSCty24061	3GPP Reports: Unzipping RC-coded file truncates name
CSCty32298	Wrong data coming in PDNGW & SPGW (GTP Active Statistics) after upgrade
CSCty40020	Reports: 3gpp reports not generated if ITP is managed in MWTM
CSCtx39710	Performance - optimize poller xml queries
CSCtr03658	Alarms - CPU Utilization alarm not Raising for Multi-instance SAMI cards
CSCts32271	mwtm pcformat edit command not changing the Point code format.
CSCts52988	Prevent polling of stats in Standby Devices except Interface,CPU & Mem
CSCtt20448	The RC Code format for DST has to be updated as per 3GPP standard.
CSCtw79222	Count values missing in SGSN Throughput Statistics reports
CSCtx05680	Reports - PCRF displayed under File Archive when 3GPP is enabled
CSCtx11086	System-Disallow user to manage ITP while 'pollnonprimary disable' is set
CSCtx11102	Basic validation on user input to be done on MWTM setsvrjvmsize command
CSCtx12157	Node unreachable alarm not getting cleared.
CSCtx16498	Hide PM mode,ignore menu items when node is unmanaged

Bug ID	Description
CSCtx16532	GUI - SPGW configuration type needs be added under 'New Device Group'
CSCtx32088	PDSN Group Support in GUI
CSCtx42469	WebClient - Update supported MIBs GUI
CSCtx47607	Web Client - Browser checker link in IE 8 displaying wrong version
CSCtx48062	Negative value displaying for Maximum Packets column of SCTP Perf Report
CSCtx48103	To address the CSG2 group issue for upgrade path to 617 from 616
CSCtx48428	Webclient-Hide Properties Panel for User Level 3 and 4
CSCtx68127	Usergroup must display the populated nodes instantly under Default View
CSCty36686	3GPP Reports: RC Code files to be generated only for data within 2 hrs

Open MWTM Caveats

The following caveats exists in the MWTM 6.1.7 software:

Bug ID	Description
CSCtx16585	Upgrade : Displaying Null values for newly created reports on Histor/CSV
CSCtx10843	Realtime Statistics - CPU description shown as Unknown
CSCtx11106	Wrong values coming for CSG Protocol Rates Reports
CSCty13372	Install: MWTM Uninstall leaving residues
CSCty13392	Alarms: Interface level alarm not displayed in Device and Network Level
CSCty23042	provisioning; vrf name not displayed in CSG2_Content.
CSCty27040	MWTM shows pcrf version incorrectly
CSCty29213	UserGroup : Previleged Custom level user not to be in user groups
CSCty32275	Upgrade:Exceptions thrown and 3gpp reports missing after upgrading to617
CSCty57101	WebGUI: Node CSG Load Quota Mgr Rates GUI report differs File Archive

Related Documentation

Use this document in conjunction with the following documents:

- *User Guide for the Cisco Mobile Wireless Transport Manager 6.1.7*
  http://www.cisco.com/en/US/products/ps6472/products_user_guide_list.html
- *Installation Guide for the Cisco Mobile Wireless Transport Manager 6.1.7*
  http://www.cisco.com/en/US/products/ps6472/prod_installation_guides_list.html
- *OSS Integration Guide for the Cisco Mobile Wireless Transport Manager 6.1.7*
  http://www.cisco.com/en/US/products/ps6472/products_programming_reference_guides_list.html
- *Supported IOS Releases for the Cisco Mobile Wireless Transport Manager and the Cisco Signaling Gateway Manager*
  http://www.cisco.com/en/US/products/ps6472/products_device_support_tables_list.html

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New* in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at:

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