

DRAFT 3

**** Wireless Manager Release 2.2 Update Patch 4, July 2010, Patch Note**

Author: technical-documentation@canopywireless.com

TITLE: Fourth Set of Server File System Updates to Implement Various Enhancements and Fixes and to Make WM Current with Changes in Devices of Supported Types

PRODUCTS: Wireless Manager (WM)

RELEASE: 2.2

PROBLEM DESCRIPTION: To implement various enhancements, resolve known issues, and assure proper interaction between Release 2.2 and devices of supported types, WM required modifications to several files in the WM server. It is unnecessary to provide these modifications via a software update to WM, since a simple patch consisting of only the affected files addresses these issues.

ISSUES THAT PATCH 4 RESOLVES: The specific issues resolved are as follows.

Issue	Full Description of Resolution	Item
Database import fails.	Operators who needed to import an exported database would have seen the import operation fail. Any who did would have needed to edit their exported file to reduce the size of one of the columns. Patch 4 resolves this issue.	0014130
Longitude configuration results in error.	The Device Longitude attribute would not accept positive or negative longitude values in the range of 100° to 180°. Patch 4 resolves this issue.	0014124
WM discovers older 5.7 GHz PMP 430 SMs as licensed.	With Patch 4, discovery regards these devices as unlicensed.	0014112
WM fails to show the link of a PMP 430 SM to a PMP 400 AP.	Although this is a supported link type, WM did not recognize the link. With Patch 4, WM recognizes and reflects these links.	0014088 0013888
Latitude and longitude attributes accept alpha characters.	With Patch 4, WM throws an error for any Device Latitude entry outside the range of -90 to +90 and for any Device Longitude entry outside the range of -180 to +180.	0014087
The trap parser list misspells Master.	With Patch 4, the Configured Trap Parser List properly displays PTP 300 Master parser names.	0013928
WM does not support the Power parameter in a CMMmicro.	WM cannot configure whether to provide power, sync, and network connectivity to a device that is connected to a particular port. With Patch 4, WM displays CMM port configuration as a read-only table. The CMMmicro does not support configuring of these attributes via SNMP. The workaround for this issue is to use direct access to the web interface of the CMMmicro to configure each port that has a connected device.	0013807

DRAFT 3

Issue	Full Description of Resolution	Item
<p>WM considers some generic elements and some Motorola devices as unmanaged and so does not discover them.</p>	<p>SNMP-enabled non-Motorola (generic) devices should be put into the managed state upon their discovery, but some are not discovered. Patch 4 sets WM to discover the following devices from Motorola that were similarly affected:</p> <ul style="list-style-type: none"> ◦ RFMS sites and servers ◦ PTP devices of the 300, 400, 500, 600, and 800 Series ◦ CMM4 switches. <p>Patch 4 also supports the following workaround for this issue. For any generic device that WM fails to discover, perform the following steps:</p> <ol style="list-style-type: none"> 1. Search the log for the IP address of the device. 2. If an entry is associated with that IP address, note whether the entry indicates that WM regarded the device as unmanaged. 3. If the entry does, access the server file system and open the ...server\conf\devices\Generic_Element.xml file for editing. 4. In the Element tag, add disableDHCP="true", as shown in the following edited excerpt: <pre> =<ElementDefinition> =<Element type="Generic Element" specificType="Generic Element" version="1.0" treeIcon="images/Unknown_Device_16.png" mapIcon="Unknown_Device_55.png" disableDHCP="true" vendor="Motorola" combined="false" relation="false" enableRelationshipCustomViews="true"> <IncludeTemplate name="templates/PhysicalMapBase.xml" /> <IncludeTemplate name="templates/GenericDashboardBase.xml" /> <ElementGroup name="Devices" displayName="Devices" treeIcon="images/Devices.png" mapIcon="Devices.png" /> </pre> <ol style="list-style-type: none"> 5. Validate the xml content. 6. Write and close the file. <p>The combined result of Patch 4 deployment and this xml edit is that WM will now succeed in discovering all generic elements in your network. However, WM will use the MAC address as the Name(ID) of any that support and properly implement DHCP.</p>	<p>0013799</p>
<p>Performance collection tries to include some stats that Solo does not support.</p>	<p>The following statistics are not available from the QDMA host in a Solo IAP or a Solo EWR, but were currently listed without values in the configured collection for devices of these types:</p> <ul style="list-style-type: none"> ◦ Tx NUcast Pkts ◦ Rx NUcast Pkts ◦ Rx Unknown Protos <p>With Patch 4, these unavailable statistics are removed from the configured collection of performance data.</p>	<p>0013575</p>

DRAFT 3

Issue	Full Description of Resolution	Item
WM fails to recognize certain traps from five device type agents.	WM threw an Unknown Trap error when it received any of the specific traps that are listed in the table below. With Patch 4, these previously unrecognized traps are recognized and properly translated into events. <i>However, one additional trap is still unrecognized. See 0013552 in the table of open issues below.</i>	0013552
The Launch BAM command option failed when certain device types were selected.	With Patch 4, this option is functional from either the map menu or the node menu when a device of a type that BAM supports is selected.	0012367

Now-recognized Traps, Item 0013552 above

Device Type	OID	Recognized Trap
CMMmicro	.1.3.6.1.6.3.1.1.5.1	Reboot of the CMMmicro occurred.
PTP 200 Master	.1.3.6.1.6.3.1.1.5.1	Reboot of the PTP 200 master device occurred.
	.1.3.6.1.4.1.161.19.3.1.5.1.1	Completed registration of physical address <i>m</i> , LUID <i>n</i> , to the PTP 200 master device occurred.
	.1.3.6.1.4.1.161.19.3.1.5.1.3	An attempt to register to the PTP 200 master device failed.
	.1.3.6.1.6.3.1.1.5.5	Authentication failure occurred at the PTP 200 master device (access attempted with wrong community string, wrong accessing subnet, or wrong SNMP version).
PTP 400 Slave	.1.3.6.1.4.1.17713.1.99.0.1	A receive channel change occurred in the PTP 400 slave device for DFS (to avoid interference with priority radar in the previous channel).
	.1.3.6.1.6.3.1.1.5.4	A link involving the PTP 400 slave device has come up.
PMP 430 AP	.1.3.6.1.4.1.161.19.3.1.5.3.2	Radar was detected by the PMP 430 AP.
PMP 430 SM	.1.3.6.1.4.1.161.19.3.2.4.3.1	The NAT WAN DHCP Client in the PMP 430 SM has received an IP address via DHCP.

SUPPORT THAT PATCH 4 INTRODUCES: The specific software and/or device support, enhancements, and features introduced are as follows.

Added Support	Patch 4 introduces support for
FSK radio Release 10.3.2	Release 10.3.2 software in FSK PMP and PTP radios.
PTP 800 v02-01	Version 02-01 software in the PTP 800 radios.

DRAFT 3

UNRESOLVED KNOWN ISSUES: In addition to the known issues that were published in the WM Release 2.2 release notes, the following others are acknowledged:

Issue	Full Description of Open Issue	Item
Show All selection causes drop menus to be unavailable for the physical map.	In the physical map, the drop-down menus for Map , Status Filter , Options , and Window are no longer available if you have selected Show All from the Window drop-down menu. Since this menu disappears if you do so, you cannot undo this selection or its consequences. <i>Do not</i> select Show All .	0013968
Device queries are slow.	When WM queries for property names and values, the speed of gathering this data is noticeably slower as the number of devices to be queried grows. This may be observed in the amount of time required to update devices in the physical map, for example.	0013935
WM errors upon applylicense.sh .	Occasionally and without pattern, WM throws a java exception error when this command is executed in a Linux platform.	0013925
Apply Filter fails when all is selected after a specific status filter.	The default status in the Properties tab for Modify Custom View operation is all . This is proper behavior. However, after this operation has been used for one of the specific filters in the tab, the all selection fails to return the view to unfiltered.	0013924
The Linux installation reports a Microsoft product among the components.	As the installation tool interface displays the components that the tool is installing on a Linux platform, it displays MS-VC++2005 among them, although this is neither a proper component for this platform nor one the components being installed.	0013921
Local security may prevent the JRE installation.	If the client device resists the installation of Java 1.6 by the Java Web Start at launch, then an installation error is thrown and the client does not open. For a workaround, visit http://www.java.com/en/download/manual.jsp to download and install Java 1.6.	0013916
Apply Later option is missing for device groups.	When a device group is selected, the Apply Template dialog should include an Apply Later button to schedule the task of pushing values configured in the template.	0013915
Alarm history can vary with the view option.	From a right click of an alarm in the Alarms view, if you access the history of events <ul style="list-style-type: none"> ◦ by selecting Events, WM displays all events that have the same Failure Object as the selected alarm, many of which may be unrelated to the alarm. ◦ by selecting Details and then clicking the View History button, WM displays only the events that are related to the alarm. 	0013914
WM accepts a location setting for a CMM4 Switch.	WM provides a Set Location in Physical Map option upon a right click of a CMM4 Switch in the physical map. Since the switch is integral to the CMM4, which has a configurable location, this option is both superfluous and not actually configurable.	0013870
EIRP is presented as configurable for a PMP 320 AP.	EIRP is a read-only statistic. Any attempt to configure a value for it generates a failure error. To set the transmitted signal power, configure the value of Tx Power instead.	0013848
WM shows Up Time for pingable AP-7131 as No Response.	This value is misleading, since the device is in fact running and communicating with WM.	0013845

DRAFT 3

Issue	Full Description of Open Issue	Item
WM returns no data for some statistics of PMP 430 devices.	<p>The firmware of these devices does not support the following statistics, which WM includes with null values in the Configured Collection panel for them:</p> <ul style="list-style-type: none"> ◦ Rx Multicast, .1.3.6.1.2.1.31.1.1.2 ◦ Tx Multicast, .1.3.6.1.2.1.31.1.1.4 ◦ Tx Broadcast, .1.3.6.1.2.1.31.1.1.5 ◦ Rx Broadcast, .1.3.6.1.2.1.31.1.1.3 	0013820
Applying patch to a fresh installation of WM that has never been started fails.	<p>A fresh installation whose server has never been started has not had its database initialized. When the patch is installed in this case, the server cannot connect to the database and throws <code>unknown error</code>. The workaround is to start and stop the fresh WM server before installing the patch.</p> <p>This workaround is included in "To implement Patch 4, perform the following steps" below. Perform the substeps a through c in Step 2 of that procedure and then continue with the Patch 4 installation.</p>	0013811
Configuration Point Index 1 cannot be restored to a PMP 320 AP.	<p>By default, the Name and Date values for Index 1 are unpopulated. If the operator sets one of the other three indexes and then later attempts to restore Index 1, then the Save and Restore button are inactive (even though Index 1 is selectable in the Configuration Point Selection drop-down list).</p> <p>The workaround is to access the management web interface of the device and restore the defaults there. While doing so, you may wish to populate the Name and Date values for Index 1 so that WM can restore it in future attempts.</p>	0013797
WM incorrectly displays the BSID of the PMP 320 CPE.	<p>The BSID in this device type should be the colon-delimited version of the Access Point BSID dot-delimited parameter (AP MAC address) in the AP. WM displays this value incorrectly in configuration reports and dashboards, for example.</p>	0013789
WM renames already-renamed elements, which can dissociate them from their data.	<p>Where multiple devices share the same Name (ID), WM discovery automatically appends an incremented number that is preceded by an underscore and uses the new Name (ID) in subsequent Inventory views. In a second or further instance of its renaming</p> <ul style="list-style-type: none"> ◦ for a parent device, logical children views from the Inventory may be lost or utterly wrong. ◦ for any device, historical performance data may be lost. ◦ any device to which WM assigns a name that was previously the incremented name of another device may become associated with the historical performance data of that other device. <p>For a workaround, rename each system-modified Name (ID) to a unique name.</p>	0013778
WM does not configure DHCP time-related attributes for PMP 320 AP.	<p>Instead of attempting to push DHCP Lease Time Period, DHCP Renew Time Period, and DHCP Rebind Time Period values from WM, attain direct access to the web interface of each target PMP 320 AP to configure them in the radio.</p>	0013674
The error for an invalid template file being imported is not file specific.	<p>If you perform an Import Template operation that comprises multiple files, one or more of which are not valid templates, WM throws an error that does not identify the specific invalid file(s).</p>	0013652

DRAFT 3

Issue	Full Description of Open Issue	Item
The file export error does not caution against attempting to provide a file name.	<p>If you append a file name in the Select Template Export Folder browser, then the WM interface throws an error that indicates that the specified path is invalid or the folder does not exist. As stated in the user guide section titled "Exporting a Configuration Template," this browser is for specifying only the folder.</p> <p>The Export template operation in WM does not allow you to modify the name of its ultimate output file. However, the file system browser prompts you for a File Name instead of a Folder Name.</p>	0013651
Enable and Disable the system log in PMP 320 AP act opposite of expected.	Commands from WM to enable the log feature are disabling it, and to disable it are enabling it. Since the OIDs in the radio MIB are juxtaposed to match mishandling in its firmware, the firmware will be corrected in a future update. The values that WM pushes will not be adjusted for the interim.	0013624
Create Template via Template Operations option results in no attribute tables.	When Create Template is launched from the applications tree by selecting Configuration Templates → Template Operations , the resulting template lacks attribute tables. However, when it is launched from a right-click on an element of the desired device type (and then Configuration Templates → Create Template), the resulting template does contain the tables. To populate tables, use the latter work flow.	0013595
WM fails to recognize a trap from the PTP 100 master device type agent.	<p>WM throws an Unknown Trap error when it receives the following trap from a PTP 100 master device:</p> <p>OID .1.3.6.1.4.1.161.19.3.1.5.1.3, which means that a registration attempt by the SM (whose MAC address would have been cited in the event if WM recognized the trap) was denied.</p> <p>The error will indicate but not translate the OID.</p>	0013552
When a user sets the interval for a statistic, WM does not caution that any later rediscovery or configuration of a global or device type-specific polling interval will reset it.	<p>WM provides no caution that the performance polling interval for device type or a global polling interval that is set overrides any user-configured interval for a statistic. (No caution is thrown when the statistic interval is set, and none is thrown when a later polling configuration is specified.)</p> <p>WM also does not caution during the configuration of an interval for a statistic that rediscovery will reset the interval to its default or, if a non-default interval has been set in the Polling Configuration dialog, then to its non-default setting.</p>	0013546
Attempts to push a configuration template to a large number of elements fail.	When the user launches an element configuration operation directed at a large number of any type(s) of elements and pushing any number of attribute values, the operation fails, and the Configuration Result column of the Apply Template window displays the message <code>General Error Applying Configuration com.adventnet.nms.sote.NmsStorageException: Data truncation: Data too long for column 'SUBTASKS' at row n</code> . Until this issue is resolved, the workaround is to limit configuration operations to not more than 25 elements in each template application instance.	0013484
When WM refreshes, CurrentGraphViewer plots go blank.	The plot is erased and is not immediately replotted. Sometimes hours may elapse before WM replots the data. To work around this issue, close the viewer and reopen it.	0013367

DRAFT 3

Issue	Full Description of Open Issue	Item
A refresh following autodiscovery omits operator-added logical links.	Autodiscovery results in WM drawing into both the physical and logical network maps a logical link for each WM-presumed relationship between pairs of discovered devices. However, where an operator has added other logical links, the maps refresh that reflects autodiscovery does not note and redraw these others. It draws only the logical links that WM presumes.	0013346
Performance graphs are kludged by text.	When the operator launches a graph for a collected statistic, the axis label for the graph initially overlays the table of stats.	0013308
Tables for PMP 320 devices are incorrectly labeled.	Tables for static and dynamic allocation in PMP 320 devices bear incorrect labels that the PMP 320 AP sends to WM. For example, a device named <code>CPE_n</code> may be labeled <code>43 50 45 3_n 00</code> . However, if a change in the AP software stops the AP from processing alpha characters in names as hex (before it sends the name to WM), then you may see correct device names during the lifetime of this patch.	0013291
The Net Perf tool can be launched with one device selected.	As stated in the user guide, the Net Perf tool is intended to be launched for a pair of selected devices, one of which the tool initially identifies as the server (subject to operator reversal), the other as the client. With only one selected device, Net Perf opens but does not initiate the server. Net Perf should not open for a single device.	0013282
Some links may fail to display in a logical map.	Logical links to devices that WM is unable to contact may fail to display, even though their purpose is to show relationship, not communication, among elements.	0013212
Charts in the Alarm count panel can become stretched or compressed, which makes them less useful as quick reference sources.	The vertical dimension of the Alarm count panel is what remains after the Applications tree is vertically resized. This results in vertical stretching or compressing of the graphical images (pie chart and bar chart) in the panel. The height-to-width ratio of this panel should be fixed, and the amount of Applications tree that is vertically exposed should be what remains after WM repaints the fixed-ratio Alarm count panel.	0013190
The term Status is used where Severity should be.	The left-most column by default in an Alarms view or a Network Events view is labeled Status, but should be labeled Severity.	0013139
Closing the Assign Permissions dialog too soon reduces or limits access.	<p>After you click the Done button to implement the selections you made in the Permissions tree hierarchy, WM requires some time to implement them. During this time, the interface provides an hourglass that overlays the dialog window. If you close this dialog while the hourglass persists, then you may be either unable to relaunch the WM client or limited in the options that the Tools menu will present to you.</p> <p>If this occurs, two workarounds are available. In the server file system, either</p> <ul style="list-style-type: none"> ◦ stop the server and use the <code>createSuperUser</code> script in the <code>bin</code> folder to create a super user with a new name, who can log in and set permissions. Then create new user accounts to use in place of the corrupted accounts. ◦ use the <code>reinitializeDatabase</code> script to erase the database. Subsequent startup creates uncorrupted default users who have default permissions. 	0013102

DRAFT 3

Issue	Full Description of Open Issue	Item
<p>Manage Licenses button launches the licensing web server only if it is local to the WM client.</p>	<p>This command option is designed to work in only WM clients that are in session from the device on which the licensing web server is mounted. In any other case, the browser threw an error. Patch 4 removes this error.</p> <p>Depending on firewall configurations and current connectivity, the substitution of the IP address of that server for localhost in the URL text box of the browser may constitute a workaround: https://LicensingWebServerIPAddress:27443/license/</p>	0013099
<p>WM may freeze and throw an unable to connect error.</p>	<p>Where disk space on the server device is insufficient, WM may resist a graceful shutdown (by tools or stop services) <i>and</i> resist login attempts, but not provide an error that points to disk space. Where a client session will not open</p> <ol style="list-style-type: none"> 1. ensure that the IP proxy setup is correct. 2. use an operating system command to check available disk space. 3. check database logs for errors about disk space. 4. free up as much disk space as is practical. 5. execute stopWMS and then startWMS from the <code>server/bin</code> directory. 	0013033
<p>IP address attributes accept invalid format.</p>	<p>WM performs no format validation on IP address input.</p>	0012978 0012664
<p>Applying patch to upgraded WM fails.</p>	<p>When Patch 4 is applied to WM Release 2.2 that was installed as a fresh installation and started at least once, the operation succeeds, and its success is indicated in an informational message. However, when Patch 4 is attempted on an instance of WM Release 2.2 that was installed as an upgrade of Release 2.0, the operation fails, and its failure is indicated in an error message that states</p> <p style="text-align: center;">The ppm file that you have specified is not compatible with this product.</p> <p>The workaround is included in "To implement Patch 4, perform the following steps" below. Perform the substeps a through c in Step 1 of that procedure and then continue with the Patch 4 installation.</p>	0012897
<p>Admin and root users lack Maps permission by default.</p>	<p>To work around this issue, open the Operations Tree for these users and click to check the Maps branch.</p>	0012895
<p>AP-7181 device with negative height cannot be moved in the physical map.</p>	<p>The Change Location operation fails if the height of the AP-7181 has a negative value. To work around this issue, you can click the Enter a new height link and temporarily enter a positive height, then move the device. After the move, use the Change Location menu again to adjust the height stored for the device.</p>	0012862

DRAFT 3

CAVEATS: Be aware of the following additional issues:

- The PMP 320 AP renders its System Time value as read-only in the syntax *day, date, time* UTC. For Version e1.1 and later, this device passes its value to WM as the raw number of seconds, which displays the time as
 - negative current numbers of *days, hours, minutes, seconds* for APs of earlier firmware versions.
 - a running positive number of *seconds* for APs of Version e1.1 and later.

Motorola has tracked this issue under Item ID 0012203 and 12349.

- In the PMP 320 AP, firmware versions earlier than e1.1 allowed a user account to have a null value for User Name, which causes the AP to throw an authentication failed error to an accessing SNMP management device. Version e1.1 and later prevent this error by disallowing a null value for User Name. Motorola has tracked this issue under Item ID 0012021.

PREREQUISITE: The instance of WM that you are patching must be 2.2.16 with Patch 3, Patch 2, Patch 1, or no patch.

HOW ISSUE IS RESOLVED/WORK AROUND: This patch resolves the problems and effects the enhancements by patching an existing WM Release 2.2 installation. To implement Patch 4, perform the following steps:

1. If you are applying Patch 4 to an instance of WM Release 2.2 that was installed as an upgrade of Release 2.0, perform the following steps:
 - a. Browse to the WM software web page at <http://motorola.wirelessbroadbandsupport.com/support/opws/software/>.
 - b. Download the file `update_conf.xml` from the Motorola web site.
 - c. Copy this file into the `/usr/local/motorola/wm/server/conf` directory on Linux or the `C:\Motorola\WM\server\conf` folder on Windows (overwrite the existing file of the same name).
 - d. Continue through the remaining steps of this procedure.
2. If you are applying Patch 4 to an instance of WM Release 2.2 that was installed fresh but has never been started yet, perform the following steps:
 - a. Start the server.
 - b. Wait for the server to initialize the database.
 - c. Stop the server.
3. Browse to the WM software web page at <http://motorola.wirelessbroadbandsupport.com/support/opws/software/>.
4. Download the patch `One_Point_Wireless_Manager_2_2_SP-16_4_x.ppm` and the associated `md5` file, noting their destinations.
5. Use the `md5` file to verify that the `ppm` file did not encounter damage during its download.

DRAFT 3

6. If your WM server is on a Linux operating system, perform the following additional steps:
 - a. Download also the file `UpdateManager.sh`.
 - b. Manually replace the file of that name in your `...motorola/wm/server/bin` directory.
 - c. Change to that `bin` directory.
 - d. Enter `dos2unix ./UpdateManager.sh`.
 - e. Enter `chmod 755 ./UpdateManager.sh`.
7. Open the *Motorola Wireless Manager Release 2.2 Server Administration Guide*.
8. In the List of Procedures (on or around Page 8), find and click on the procedure titled "To install a service pack or feature pack."
9. Beginning with Step 2, perform that entire procedure.
10. Check WM functionalities.

If you ever need to remove Patch 4, perform the following steps:

1. Open the *Motorola Wireless Manager Release 2.2 Server Administration Guide*.
2. In the List of Procedures (on or around Page 8), find and click on the procedure titled "To uninstall a service pack or feature pack."
3. Perform that entire procedure.
4. Check WM functionalities.
5. If you encounter any problems, copy the files out of the `logs` directory right away.

DRAFT 3

CONTACT FOR ADDITIONAL TECHNICAL SUPPORT: Except as specifically noted, all of these contacts are available 24 hours a day, 7 days a week.

Country or Region		Phone	Email
North America	United States	+1 866-961-9288	EMS-EICC-RM@motorola.com
	Canada		
Europe, Middle East, and Africa	Denmark	043682114	EMS-EICC-RM@motorola.com
	France	0157323434	
	Germany	06950070204	
	Italy	0291483230	
	Lithuania	880 030 828	
	Netherlands	0202061404	
	Norway	24159815	
	Portugal	0217616160	
	Spain	0912754787	
	Russia	810 800 228 41044	
	Saudi Arabia	800 844 5345	
	South Africa	0800981900	
	United Kingdom	0203 0277499	
	All other countries	+420 533 336 946	
Latin and Central America	Argentina	0800-666-2789	EMS-EICC-RM@motorola.com
	Brazil	0800-891-4360	
	Columbia	01-800-912-0557	
	Mexico	001-800-942-7721	
	Peru	0800-70-086	
	All other countries	+420 533 336 946	
Asia and Pacific	All of Asia and Pacific region	+6048503854 9am – 5pm Malaysia time	WiBBsupport.apac@motorola.com
		+420 533 336 946 outside hours	

DRAFT 3

For customers who operate in any region, support is also available on line at <http://motorola.wirelessbroadbandsupport.com/support/technical.php>.

DRAFT 3

Appendix to Patch Note

The issues that previous patches have fixed are the following:

Issue	Full Description of Resolution	Item
Max Tx Power statistics are not supported for PMP 320 CPE devices.	The statistics whose values were not viewable were <ul style="list-style-type: none">◦ BPSK Max Tx Power◦ QPSK Max Tx Power◦ QAM16 Max Tx Power◦ QAM64 Max Tx Power With Patch 3, the values are viewable for all of these stats.	0013814
WM attempted to draw optional contours in physical map for PMP 320 CPEs.	With Patch 3, WM no longer presents the option to see RSSI Contours for a PMP 320 CPE in the physical map.	0013669
Radio statistics for the PMP 320 AP label the EIRP as Tx Power .	Instead of displaying the configured value of the Tx Power dBm parameter in the AP, the Radios tab of the node data pop-up in the physical map displayed the value of the EIRP statistic. With Patch 3, Tx power in WM properly displays the configured value of the Tx Power dBm parameter in the AP.	0013668
Channel Bandwidth Range attribute is not configurable for a PMP 320 CPE.	The device template continued to offer this attribute for setting its value, despite that the MIB for the device type had removed the OID reflective of a firmware change. With Patch 3, the template no longer includes this attribute. However, the Channel Table in the template continues to allow and push settings for Channel RSSI and Channel CINR per channel bandwidth range. This obviates any need for the separate OID that had been removed.	0013582
Cold Start trap from CMM4 was not recognized.	WM threw an Unknown Trap error message when it received a Cold Start trap from a CMM4 device. Patch 2 resolves this issue.	0013545
Patch 2 setup tool throws a backup failure error.	It was unnecessary to remove Patch 1 before installing Patch 2. However, if you did remove it, the migration tool that set up Patch 2 threw an error upon finding that any file it was scripted to back up was absent. The migration tool that sets up Patch 3 will not throw an error for this case.	0013475
Mesh radio status is wrong in the device dashboard.	For any Mesh device, the device dashboard was displaying the Mesh status where it should have been displaying the status of the Mesh radio. With Patch 2, WM properly displays the radio status.	0013419
MAC address is wrong for PMP 320 AP.	For the MAC Address value of the PMP 320 AP, WM displays the BSID instead of the MAC address.	0013390

DRAFT 3

Issue	Full Description of Resolution	Item
Attempts to configure PMP 430 SMS error out.	Attempts to push values for any attribute from a configuration template resulted in WM throwing the error <code>Invalid value for Authentication General Key must be a 32-digit hex number</code> , even when the default authentication key was configured. Patch 2 resolves this issue.	0013376
Dynamic Rate Adaptation was not configurable in the uplink for PMP 430.	With Patch 2, Dynamic Rate Adaptation is configurable for PMP 430 devices in both the uplink and the downlink.	0013375
Physical map is unable to reflect CMM4 device information.	Patch 2 prevents the inadvertent overwriting of the template information on which the physical map display depends for the placement and statistical and attribute values of CMM4 elements.	0013321
oid for channel bandwidth had wrong access.	Patch 2 corrects the access level of the oid for the <code>channelBandwidth</code> object to read-only, consistent with the box MIB.	0013312
Specific Type Based Polling Configuration fails to reflect an added device type.	For performance, status, and configuration polling, an added polling configuration, after being modified (by a change of the timer, for example), was no longer displayed to the user. So, a subsequent execution of the option Tools→Polling Configuration (to remove the configuration, for example), did not list the configuration in the Specific Type Based Polling Configuration box for possible selection. Patch 2 resolved this issue.	0013307
Level for SYSLOG in PMP 320 AP is not configurable from WM.	Although the Network Configuration branch of the Configuration Group tree in the configuration template for PMP 320 AP elements included attributes Syslog Server (Enabled or Disabled) and SysLog IP Address , it did not include an attribute for the lowest level alert that should be captured in the syslog. Patch 2 introduces the level attribute.	0013290
WM does not support the GPS Sync trap for CMM3 elements.	WM did not process the trap that the CMM3 (CMMmicro) agent sends for the loss of GPS synchronization. Patch 2 causes WM to recognize and properly process this trap.	0013289
Links that involve NAT-enabled SMS are missing from physical and logical maps.	For NAT enabled FSK SMS, WM needed to store additional information, such as the value of Registered To , beyond the time of basic discovery. Patch 2 causes this information to be stored.	0013276
Current Statistics displays count.	The graph launched by the Plot option for a Configured Collection displayed the counted statistic instead of the intended increment (latest value minus the previous). Patch 2 resolves this issue.	0013213
Spike filter for statistic counters overwrite good data for PTP and PMP devices.	<p>For performance statistics whose counters experience very rapid increases, WM automatically displayed their current values as zero to filter out misleading spikes from device reboots. However, this unnecessarily replaced some meaningful data, such as throughput for PTP elements, where frequent increments occur.</p> <p>Patch 2 removes the spike filter in all counters for PMP and PTP elements and makes configurable the spike filter in each 32- and 64-bit counter for Mesh elements. The default value is 40 million and can be changed to any integer less than $2^{63} - 1$ as described in the user guide section titled "Modifying Extended Polled Data."</p>	0013211

DRAFT 3

Issue	Full Description of Resolution	Item
Commas in sysName cause problems in data collection.	With Patch 3, WM performs <ul style="list-style-type: none"> ◦ its device discovery operations, leaving intact any sysName expression that contains one or more commas. ◦ its performance data collection operations, properly processing device agent names in PolledData. 	0013101
PMP 320 3.6 GHz is not selectable for contours.	With Patch 3, the single air standard and frequency selection list for RSSI contours in the physical map includes PMP 320 3.6 GHz for the AP.	0013086
Time out message on Get failureThreshold in MIB browser.	Although WM Release 2.2 had collected polled data for a supported OID, the SNMP NBI did not provide performance data. The NBI now provides this data.	0013074
PTP 600 template is missing device out-of-band enable.	Patch 2 adds the Device Out-of-Band Management Enable attribute to configuration templates for PTP 600 devices.	0013015
Reset to factory defaults fails for PMP 320 CPE.	The reset to factory defaults command from the Configuration Manager in WM succeeds in Patch 3 for a PMP 320 CPE.	0013013
WM attempts to report certain statistics not supported by the radios.	Although the PMP 320 CPE does not support the following statistics, the WM Release 2.2 interface implied that it could report values for these: <ul style="list-style-type: none"> ◦ RF Rx Broadcast and Multicast ◦ RF Tx Broadcast and Multicast ◦ Ethernet Rx Broadcast and Multicast ◦ Ethernet Tx Broadcast and Multicast These are no longer available in the interface.	0013010
Altitude attribute for Duo does not allow negative.	The interface now allows the user to configure a negative value for the altitude attribute of a MOTOMESH Duo device.	0013008
Duo Ethernet Duplex state and speed are not configurable.	The interface now allows the user to configure the duplex state and speed of the Ethernet port for a MOTOMESH Duo device and to view the status of these attributes for the port.	0013007
Release 2.2 cannot configure wait time for PMP 320 AP.	Patch 2 adds the capability to push the desired value for the attribute Relay Maximum Waiting Time in seconds to a PMP 320 AP.	0012957
Attempts to configure Device Active Region are failing.	This attribute is read-only in the radio. With Patch 3, WM no longer presents this attribute as configurable.	0012937
PMP 320 configuration template has General FM.	Patch 2 removes the General FM settings from configuration templates to push to PMP 320 devices. This brings the set of available attributes to only those that are configurable.	0012936
Shared Secret attribute absent for PMP 320 AP.	The General Settings area of the External AAA configuration for the PMP 320 AP includes a settings for the Shared Secret that authenticates WM to interact with RADIUS server. WM now includes an attribute to set the value of Shared Secret.	0012893

DRAFT 3

Issue	Full Description of Resolution	Item
HTTPS launch option is not available for PTP 600.	The Web Page URL dialog drop-down list for Device Home Page selection now includes Device Home Page (HTTPS) when the user selects the command option Node-->Launch WebPage for a highlighted PTP 600 device.	0012877
Air standard list is incomplete for PTP 600.	The list of selectable air standards that the physical map presents for PTP 600 devices now includes all of the frequencies that these devices support.	0012847
Warnings are thrown for permanent licenses.	WM now generates expiration warnings for only time-bound feature licenses.	0012762
5.8-GHz Duo VMM appears multiple times in VAP tree.	Only the time stamp distinguished multiple instances of the VAP that represents a 5.8-GHz MOTOMESH Duo AP. Now WM displays only a single instance of the VAP in the VAP tree.	0012734
Interface indexes for PMP 320 CPE are juxtaposed.	The index for the RF interface to the CPE was juxtaposed with that of its Ethernet interface. This resulted in invalid performance statistics being collected for the device. The indexes are now correctly associated with the interfaces.	0012697
Support tool sends support information to the outdated address.	The Customer Support Tool automatically sends the collected support information to support@motorola.com, which is no longer a valid recipient address. The correct address, depending on region and date, is provided in the Email column of the Technical Support table at the end of this patch note. The workaround is to type the correct address into the Email field of the Customer Support Tool dialog and ignore daemon mail about the invalid address that is automatically included in the send operation.	0012670
Performance data is unavailable via NBI.	Retrieving information about polling configuration and performance values from polling were not possible from an operations support system (such as a customer relationship manager or another network manager) using the northbound interface of WM. This data is now available via the NBI.	0012640
No message indicates why the SM status change trap is sent from a PMP 320 AP.	Although WM properly generated events for subscriber status changes received from the agent in PMP 320 AP elements, it did not provide any explanatory message to distinguish the reasons why these traps were sent. Patch 2 introduces the capability for WM to describe the reasons why the traps were sent to it.	0012588
Location configuration for a PMP 500 3.5-GHz device errors out.	Attempts to configure the location for an OFDM AP or SM in the 3.5-GHz band were failing, and WM was throwing the error A wrong type error occurred . Patch 2 resolves this problem, and the error is no longer thrown.	0012577
Configurations in read-write tables of PMP 320 CPE required workaround.	The SNMP problem in the PMP 320 CPE has been resolved, and values that are pushed from WM via configuration templates with tables succeed and are reflected in the web interface of the device.	0012543 0012894