

HP MSM3xx / MSM4xx Access Points

Release Notes

v6.0.2.2

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Description

These release notes provide important release-related information.

NOTE: In this document, except when identifying specific models, the generic term “controller” is used in place of MSM7xx Controller product names and the generic term “AP” is used in place of MSM3xx / MSM4xx Access Point product names.

Product models

This document applies to these HP products:

| Model | WW | Americas | TAA | Israel |
|----------|--------|----------|--------|--------|
| MSM430 | J9651A | J9650A | J9654A | J9653A |
| MSM460 | J9591A | J9590A | J9655A | J9618A |
| MSM466 | J9622A | J9621A | J9656A | J9619A |
| MSM466-R | J9716A | J9715A | | J9718A |

“WW” identifies worldwide regions not otherwise explicitly named.

| Model | WW | USA | Japan | Israel |
|----------|------------|----------|----------|--------|
| MSM410 | J9427A/B/C | J9426A/B | J9529A/B | J9616A |
| MSM422 | J9359A/B | J9358A/B | J9530A/B | J9617A |
| MSM310 | J9379A/B | J9374A/B | J9524A/B | |
| MSM310-R | J9383A/B | J9380A/B | | |
| MSM317 | J9423A | J9422A | J9423A | |
| MSM320 | J9364A/B | J9360A/B | J9527A/B | |
| MSM320-R | J9368A/B | J9365A/B | J9528A/B | |
| MSM325 | J9373A/B | J9369A/B | | |
| MSM335 | J9357A/B | J9356A/B | | |

- ① **IMPORTANT:** The Israel MSM466-R (J9718A) requires at least software version 5.7.1.0. Earlier versions cannot be used.

Online documentation

You can download documentation from the HP Support Website at www.hp.com/support/manuals. Search by product name or part number.

Software Updates and Licensing portal

The Software Updates and Licensing portal provides access to the latest software updates to customers with a support contract. An HP Passport is required to access the Software Updates and Licensing portal at www.hp.com/go/hpsoftwareupdatesupport and it is available to customers who have purchased a maintenance and support agreement.

Mandatory channel change required prior to software upgrade; discontinue use of channel 132

Applies to these Americas/USA models: MSM410 (J9426A/B), MSM422 (J9358A/B), MSM430 (J9650A), MSM460 (J9590A), MSM466 (J9621A), MSM466-R (J9715A), MSM310 (J9374A/B), MSM310-R (J9380A/B), MSM320 (J9360A/B), MSM320-R (J9365A/B), MSM325 (J9369A/B), MSM335 (J9356A/B).

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- ❗ **IMPORTANT:** PRIOR to upgrading to MSM software version 6.0.2.x, all applicable APs (autonomous or controlled) that are manually configured to use channel 132 must be either re-configured to use a different channel or be re-configured to use auto channel. This is required because channel 132 is no longer available for use.
-

NOTE: Due to a problem with AP channel use validation, a banner similar to this may appear at the top of the Home screen: AP CNxxxxxxxx, Radio 1 channel configuration has been set to autochannel because the previously configured channel Auto is not supported by this version of software. The same message is added to the system log. These messages can be safely ignored.

Updating software

(Not applicable to MSM317.) For autonomous APs, update the software as described in the “Software updates” section of the *MSM3xx / MSM4xx APs Configuration Guide*.

For controlled APs including the MSM317, update the controller software as described in the “Software updates” section of the *MSM7xx Controllers Configuration Guide*. Once the controller is updated, it automatically updates all of its controlled devices to the same software version.

Downgrading software

If you upgrade to version 6.0.2.x and then wish to return to the version that you had been running prior to upgrading, the configuration that you used originally with that version will still be available.

If you have made configuration changes while using version 6.0.2.x, those changes will not be present when you downgrade to the previous version.

If you factory reset your device after upgrading to version 6.0.2.x, your previous configurations will be lost, and when you downgrade to any previous version you will be in a factory reset state.

MSM management tool now requires web browser with SSLv3 support

NOTE: Starting with MSM software version 5.7.0.3, a web browser that supports SSLv3 is mandatory for running the MSM web-based management tool. SSLv3 is supported by Microsoft Internet Explorer 7 and 8 but must be enabled. Microsoft Internet Explorer 9 only uses SSLv3. Mozilla Firefox also supports SSLv3 but support may need to be enabled or you may need to update to a more recent version.

RF Manager software and MSM software version compatibility

RF Manager versions 5.9.x and 6.0.x work with MSM software version 5.5.x and higher. However, to use the WLAN Integration feature in RF Manager 6.0.x, the RF Manager and MSM software versions must be matched as follows:

| MSM7xx software version | Compatible RF Manager versions | Sensor devices version | |
|---------------------------------------|--------------------------------|--------------------------------------|---|
| | | Sensor-only devices (MSM415) | AP/Sensor combo devices (MSM320*, MSM325, MSM335) |
| 5.71.x/5.72.0/6.0.0.1/6.0.1.x/6.0.2.x | 6.0.177 or later | Upgraded automatically by RF Manager | Upgraded automatically by MSM7xx Controller |
| 5.7.0.2/5.7.0.3/5.7.0.4 | 6.0.162 or later | | |
| 5.5.3.x | 6.0.157 or later | | |
| 5.5.1.x/5.5.2.x | 6.0.154 or later | | |
| 5.5.0.x | 5.9.203, 6.0.147 or later | | |

*MSM320 APs that have been upgraded to MSM325 RF sensor via HP MSM320 RF Sensor License J9384A.

NOTE: Software version 6.0.2.x is compatible with RF Manager 6.0.177 and RF Manager 6.7.x, but the MSM325 and MSM335 sensors may appear orange and indicate that there is a version mismatch. This is expected and the sensors will function normally.

NOTE: If with RF Manager 6.0.177 or above, you choose to use mismatched software versions, you should first turn off the WLAN Integration in RF Manager.

NOTE: Upgrading an MSM7xx Controller to v6.0.2.x will also automatically upgrade any MSM325 and MSM335 Sensors it manages to MSM software v6.0.2.x.

NOTE: The MSM415 Sensor has no MSM software dependency. It is managed and upgraded directly by RF Manager.

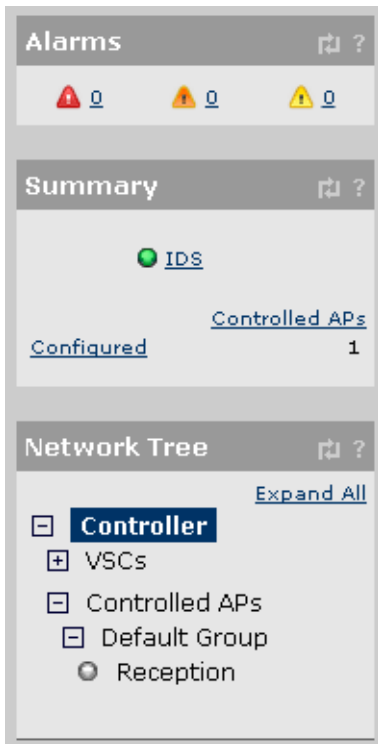
Changes to the management tool interface

A number of recent changes have been made to the management tool interface to support the addition of new features and to enhance usability. The following is an overview of the key changes.

For a description of each new feature, consult the *New in release 6.0.0.x* section of the *MSM3xx / MSM4xx APs Configuration Guide*.

Changes to the left pane

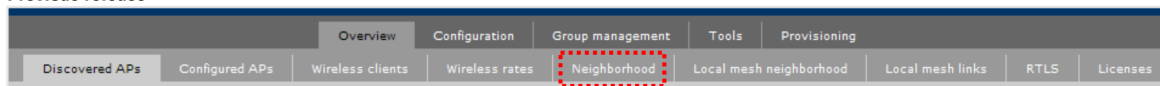
- An **Alarms** box has been added above the **Summary** box.
- The **Summary** box now includes status information for the new IDS feature.



Changes to the Controlled APs menu

- **Overview menu:** The **Neighborhood** page has been moved from the **Overview** menu to the new **Security** menu.

Previous release

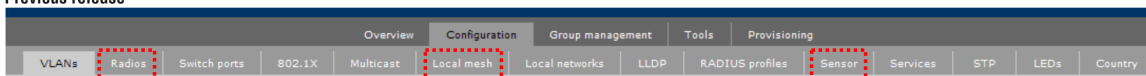


This release

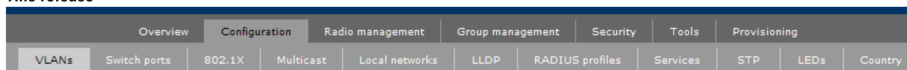


- **Configuration menu:** The **Radios** page has been moved from the **Configuration** menu to the new **Radio management** menu and renamed to **Radio configuration**. The **Local mesh** page has been moved from the **Configuration** menu to the new **Radio management** menu. The **Sensor** page has been moved from the **Configuration** menu to the new **Security** menu.

Previous release

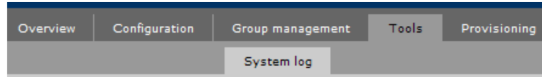


This release

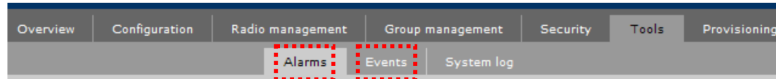


- **Tools menu:** The new **Events** feature has been added to the **Tools** menu.

Previous release

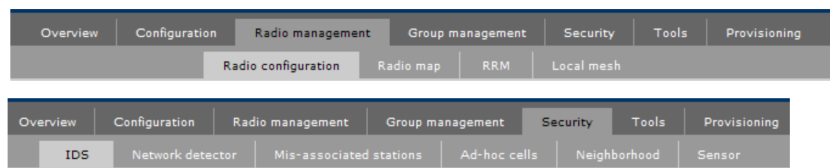


This release



- **New menus:** Two new menus have been added: **Radio Management** and **Security**.

The **Radio management** menu provides access to radio-related configuration options that were previously on the **Configuration** menu, and includes two new features: **Radio map** and **RRM**. The **Security** menu provides access to the **Neighborhood** and **Sensor** configuration options that were previously on the **Overview** and **Configuration** menus, and includes options for the new IDS feature.



Fixes

Version 6.0.2.2 includes a fix to the following issue:

- (Applies to MSM access points in autonomous mode.) In rare cases, the radio might default to USA country settings, which could result in operation on unauthorized channels in the 5 GHz band and the loss of the use of channels 12 and 13 in the 2.4 GHz band.

Version 6.0.2.0 includes fixes to the following issues:

- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R) The RRM Auto-Power algorithm could set the radio power above the configured maximum power level.
- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R) Setting a 2.4 GHz radio for a 40 MHz channel width can cause channel and power inconsistencies. The following message might be seen in the log. `rfmgr_ap: assert: channellist.cpp RRAMChannelStatsSIGetSample 523 ((channel > 0) && (channel <= WIRELESS_CHAN_MAX))`.
- An MSM466-R (IL) (J9718A) unit fails to synchronize to a controller after upgrading to version 6.x due to a VSC being bound to Radio 1.
- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R in controlled mode.) APs may stop replying to new clients that are attempting to connect, resulting in connectivity issues.
- The MSM422 is unable to announce non-access-controlled VSCs while the controller is in the process of rebooting.
- **Automatic Channel Selection** avoids channel #6 on the 2.4 GHz band when the **Channel width** is configured for 40 MHz.

- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R.) When using SOAP to change the access point configuration mode (either from autonomous to controlled or vice-versa), the AP returns a configuration timeout error and displays the following error messages:


```
<ip-address> err websoap websoap: Failed to commit transaction
(ID=<222>, error=<Configuration commit timeout.>)

<ip-address> err websoap websoap: SOAP FAULT: SOAP-ENV:Client "Invalid
configuration"

<ip-address> err websoap websoap: Detail:
<error><errorcode>1009</errorcode><errorinfo>Configuration commit
timeout.</errorinfo></error>
```
- When RRM is enabled, the channel scan for the MSM410 retrieves incorrect noise floor data for any channel that has already been used by the access point, preventing the device from selecting the previous channel even if the noise level has improved.
- Radio status counters are displayed incorrectly.
- The wireless MAC filter for a VSC has been extended to support 256 MAC addresses (instead of the previous limit of 64).
- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R.) An access point serving a VSC that is configured to egress traffic on either an Internet or LAN port may experience higher-than-expected CPU usage and low throughput.

Known issues

These issues are present in this release:

- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R) When VSC is configured for WPA termination and clients are connected to the VSC, if multiple "bogus frame" messages appear in the AP log, they can be ignored:


```
kernel: <AP-S/N> bogus frame type 0xc (ath_tx_prepare)
```
- RRM can cause high CPU usage when the neighbor table has more than 4,000 entries
- (Applies to MSM317.) Switch Port 1 configuration web page shows 802.11af instead of 802.3af.
- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R in controlled and autonomous mode.) When switching an AP from the "Local Mesh" or "AP + Local Mesh" modes to another mode, the background scan necessary for the RRM feature is not automatically restarted. Restarting the AP will solve the issue.
- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R.) iPads/iPods/iPhones cannot authenticate using the secondary RADIUS server with the default configuration. As a workaround, reduce the retry interval in the RADIUS Profile configuration to 5 seconds.
- It is possible to delete a MAC list that is still being used by the AP or controller. If this happens, the AP or team will not synchronize. As a workaround, you can go to the pages that reference the MAC list (either the **VSC** or the **317 port** page) and re-save those pages. This will fix the configuration by removing the reference and allow the AP or team to synchronize.
- (Applies to MSM310, MSM317, MSM320, MSM325, MSM335, MSM422 in controlled mode.) Changes to the **Interval** and **Time of day** web controls for APs are ignored if **system-wide auto-channel** is enabled. As a workaround, go to **Controlled APs > Radio Management > RRM** and turn off **system-wide auto-channel**, make the changes to the devices, then re-enable **system-wide auto-channel**.
- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R in autonomous mode.) After a reboot or a modification of the radio configuration, some error messages may be generated by rfmgr_ap. These messages do not indicate a malfunction and can be ignored. The services offered by the radio will work properly.

- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R in controlled and autonomous mode.) A Dynamic Local Mesh Slave configured in Promiscuous Mode will not establish a link even in the presence of multiple Masters. As a workaround, specify a Local Mesh Group ID in the Local Mesh Profile.
- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R in controlled mode.) Changing the **Wireless > Radios > Neighborhood Scanning** parameters can lead to false radio down alarms.
- (Applies to MSM320 and MSM325 in autonomous mode.) After upgrading to firmware 6.0, MSM320 and MSM325 sensors working in autonomous mode may present GUI instability when a radio or radios are setup to work in Network Detector mode. Downgrade to 5.7.x or previous firmware version if sensor mode operation is desired.
- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R in controlled and autonomous mode.) Scan ratios with a value above 1% can have a negative effect on iOS 4 and iOS 5 iPad devices. As a workaround, lower the scan ratio to 1% or less if there are performance issues on the network.
- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R in controlled and autonomous mode.) The SNMP OIDs that report information about the configuration of the Autochannel features “COLUBRIS-DEVICE-WIRELESS-MIB coDevWirIfStaAutoChannelEnabled” and “coDevWirIfStaAutoChannellInterval” may report incorrect information.
- (Applies to MSM410, MSM430, MSM460, MSM466, MSM466-R in autonomous mode.) The Neighborhood Scanning feature configured to scan on all channels only scans on channels within the regulatory domain's approved channel list rather than all channels in the respective band. For example, with the location set to the United States, Neighborhood Scanning will not scan channels 12 or 13 since they are not part of the U.S. regulatory domain. This is true in both the 2.4 GHz and 5 GHz bands. There is no workaround.