



MOTOMESH Duo™ Wireless Mesh Product, Version 2.0.3

MOTOMESH Duo Release Notes for Version 2.0.3

The MOTOMESH Duo 2.0.3 release is a patch release for the MOTOMESH Duo product. The MOTOMESH Duo Product Line is distributed by Motorola Inc.

New Version: R2.0.3

Old Version: R2.0.2

Specific version numbers of software and firmware are included in this release for each system component.

Description: This release includes the following components and version numbers:

MOTOMESH Duo Firmware **9.0.78**

These release notes are separated into 3 categories:

- 1) **Existing Issue:** This is an issue that contains a workaround and was previously noted in a prior release
- 2) **Known Issue:** This is a known issue that has a workaround, may exist in a previous release and was not noted in previous Release Notes.
- 3) **Updated issue:** These are issues that were noted in previous releases but have been fixed in this release.



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Existing Issue																																									
Note #:	E-1																																								
Abstract:	Description of the factory default and upgrade behavior of the Adaptive Noise Immunity (ANI) mode.																																								
Reference Number:	PR 2034, 2048, 2370																																								
System Platforms Affected:	MOTOMESH Duo																																								
Special Configurations:	ANI can only be enabled or disabled via the 9.0.75 device webpage.																																								
User Symptom:	The ANI mode may be modified upon upgrading to firmware version 9.0.75.																																								
Description:	<p>The tables below describe the behavior of the ANI settings.</p> <table border="1" data-bbox="576 800 1430 1066"> <thead> <tr> <th rowspan="2">Firmware version</th> <th colspan="3">ANI Mode Factory Default Value</th> </tr> <tr> <th>Per Unit / Per Radio</th> <th>5 GHz Radio</th> <th>2.4 GHz Radio</th> </tr> </thead> <tbody> <tr> <td>9.0.75</td> <td>Per Radio</td> <td>Disabled</td> <td>Disabled</td> </tr> <tr> <td>9.0.60</td> <td>Per Radio</td> <td>Enabled</td> <td>Enabled</td> </tr> <tr> <td>9.0.51</td> <td>Per Unit</td> <td colspan="2">Enabled</td> </tr> <tr> <td>1.0.42</td> <td>Per Unit</td> <td colspan="2">Disabled</td> </tr> </tbody> </table> <table border="1" data-bbox="576 1087 1430 1535"> <thead> <tr> <th rowspan="2">Upgrade Firmware to 9.0.75 From Version</th> <th colspan="2">ANI Mode After Upgrade</th> </tr> <tr> <th>5 GHz Radio</th> <th>2.4 GHz Radio</th> </tr> </thead> <tbody> <tr> <td>9.0.7x</td> <td>No override – last used 9.0.7x value</td> <td>No override – last used 9.0.7x value</td> </tr> <tr> <td>9.0.60</td> <td>No override – last used 9.0.60 value</td> <td>No override – last used 9.0.60 value</td> </tr> <tr> <td>9.0.51</td> <td>No override – last used 9.0.51 value</td> <td>Disabled</td> </tr> <tr> <td>1.0.42</td> <td>No override – last used 1.0.42 value</td> <td>Disabled</td> </tr> </tbody> </table>	Firmware version	ANI Mode Factory Default Value			Per Unit / Per Radio	5 GHz Radio	2.4 GHz Radio	9.0.75	Per Radio	Disabled	Disabled	9.0.60	Per Radio	Enabled	Enabled	9.0.51	Per Unit	Enabled		1.0.42	Per Unit	Disabled		Upgrade Firmware to 9.0.75 From Version	ANI Mode After Upgrade		5 GHz Radio	2.4 GHz Radio	9.0.7x	No override – last used 9.0.7x value	No override – last used 9.0.7x value	9.0.60	No override – last used 9.0.60 value	No override – last used 9.0.60 value	9.0.51	No override – last used 9.0.51 value	Disabled	1.0.42	No override – last used 1.0.42 value	Disabled
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Work Around:	Adjust the ANI mode to the desired value if needed.																																								
<p>Client Radios: In certain high noise environments and where client performance is not what you're expecting, enabling ANI on the 2.4 client radio <i>may</i> improve performance.</p> <p>Backhaul Radios: In certain high noise environments where inter-nodal backhaul performance is not what you're expecting, enabling ANI on the backhaul radio <i>may</i> improve performance.</p> <p>NOTE: If your inter-nodal links have poor RSSI levels and you enable ANI, you may lose communication to that or any neighboring devices, making them inaccessible. This may result in isolated devices which could require over-the-air proximity access to the webpage to disable ANI. Use caution when enabling ANI on devices with marginal inter-nodal links.</p>																																									



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Existing Issue	
Note #:	E-2
Abstract:	Error message indicating failure to resolve nearby device by DNS.
Reference Number:	PR 964
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Link Monitor
User Symptom:	Attempting to resolve the IP address of nearby devices via DNS will display error message indicating failure to resolve device.
Description:	If you try to resolve the IP address of a nearby device, the DNS resolution may fail under specific circumstances.
Work Around:	<p>Ensure that the DNS configuration for the computer, and for the computer's network adapter don't use hard-coded DNS suffixes. Ensure that the computer's DNS suffix is configured via DNS.</p> <p>For Windows XP, check the following items:</p> <ol style="list-style-type: none"> 1) Control Panel -> System Properties -> Computer Name -> Change -> More : Make sure that the "Primary DNS suffix of this computer" is blank 2) Control Panel -> Network Connections: Right click on the network adapter and select Properties. On the General tab, scroll down to and highlight Internet Protocol (TCP/IP), and select Properties. On the Internet Protocol (TCP/IP) Properties page, select Advanced. On the Advanced TCP/IP Settings page, select the DNS tab. Make sure that "Append these DNS suffices" is NOT selected or set "DNS suffix for this connection" to the DNS name for the network being tested.



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Existing Issue	
Note #:	E-3
Abstract:	VLAN configuration Tool displays multiple tags for a VAP.
Reference Number:	PR 1251
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	MeshManager
User Symptom:	VLAN Configuration Tool displays multiple tags for a VAP.
Description:	The VLAN Configuration tool feature that displays the active VAP VLANs has a problem when an existing VAP is changed from its original tag to a new tag. In this case the previous table entry in the VLANs-On-VAPs table does not flush or update the old entry, rather it just adds a new entry linking it to the new tag. The result of this is the configuration tool will display all tags, old and new, when in fact only the last tag is active.
Work Around:	None. The VAP VLAN edit field is informational only. It displays all the VLANs that were at any point associated with a VAP. So the information displayed in this field should be treated accordingly.

Existing Issue	
Note #:	E-4
Abstract:	Alarms disappear when the alarm browser is closed and re-opened.
Reference Number:	PR 1256
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	MeshManager
User Symptom:	On occasion, alarms will disappear when the alarm browser is closed and re-opened.
Description:	Overall counts may be reduced when the alarm browser is closed and re-opened.
Work Around:	Closing the browser and re-opening it will correct the tree display.



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Existing Issue	
Note #:	E-5
Abstract:	VAP Manager may not properly load data in tree when opened.
Reference Number:	PR 889
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	MeshManager
User Symptom:	No data is shown in the VAP Manager when it is opened.
Description:	When opening the VAP Manager, data may not be correctly loaded from the database. The progress bar completes 100% and remains visible but no data is populated in the tree.
Work Around:	If this occurs, closing and reopening the VAP manager may not resolve the issue. Closing and reopening MeshManager may be required for the VAP manager to display properly.

Existing Issue	
Note #:	E-6
Abstract:	The status of the first device in the Selected Device panel list does not appear updated.
Reference Number:	PR 1210
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	MeshManager
User Symptom:	Devices listed in the Selected Device panel list aren't updated until the last device is serviced.
Description:	The status of the first device in the Selected Device panel list does not get updated until the last device is being serviced. Although the first device does get serviced first it gives the impression that it is not.
Work Around:	None. It is an issue with latency. Wait until all the rows are populated.



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Existing Issue	
Note #:	E-7
Abstract:	The MOTOMESH Duo web interface fails to launch using a browser other than Internet Explorer.
Reference Number:	PR 1315
System Platforms Affected:	MOTOMESH DUO
Special Configurations:	None
User Symptom:	Failure to launch the MOTOMESH DUO web interface when using a web browser other than Internet Explorer.
Description:	The MOTOMESH Duo unit can't be accessed via the web interface when using a web browser other than Internet Explorer.
Work Around:	The unit is accessible via the web interface by using Internet Explorer.

Existing Issue	
Note #:	E-8
Abstract:	WEP setting change on one VAP changes WEP setting on all VAPs.
Reference Number:	PR 567
System Platforms Affected:	MOTOMESH DUO
Special Configurations:	WEP Authentication on more than one VAP.
User Symptom:	Changing WEP settings for one VAP will change the WEP settings for all VAPs that use WEP authentication.
Description:	There are no unique WEP settings per VAP. If WEP authentication is to be used on more than one VAP, all of them have to share one common WEP settings.
Work Around:	Other authentication types such as PSK or WPA can be used and can be unique per VAP.



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Existing Issue	
Note #:	E-9
Abstract:	Available Channel List blank after refresh (intermittent)
Reference Number:	PR 1337
System Platforms Affected:	MOTOMESH DUO
Special Configurations:	MeshManager
User Symptom:	DFS panel will have blank Available Channel List after refresh
Description:	Refreshing the DFS panel will intermittently blank out the Available Channel List.
Work Around:	The tab will need to be refreshed once or even twice before the list is populated again.

Existing Issue	
Note #:	E-10
Abstract:	Some client cards may be unable to ping the IAP through an associated MWR when QoS is enabled on the client.
Reference Number:	PR 2503
System Platforms Affected:	MOTOMESH DUO
Special Configurations:	n/a
User Symptom:	A client that has QoS enabled and is associated to an MWR may not be able to ping the IAP through the client associated MWR.
Description:	Some client cards may be unable to ping a device when QoS is enabled.
Work Around:	Ping the IAP directly or disable QoS on the client.



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Existing Issue	
Note #:	E-11
Abstract:	The power setting in the web interface is incorrectly displayed after the antenna gain setting is changed.
Reference Number:	PR 1353
System Platforms Affected:	MOTOMESH DUO
Special Configurations:	n/a
User Symptom:	After changing the antenna gain setting via the web interface and hitting the apply button, the transmit power setting displays the old value.
Description:	When applying a new antenna gain value via the web interface, the transmit power setting doesn't get adjusted accordingly but rather the original value is displayed instead. The antenna gain field doesn't have an asterisk next to it to indicate a reboot is required for the change to take effect.
Work Around:	Reboot the device after changing the antenna gain setting.

Existing Issue	
Note #:	E-12
Abstract:	Unable to create 14 VAPs with MeshManager.
Reference Number:	PR 1719
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	MeshManager
User Symptom:	When trying to add the maximum number of allowable VAPs in MeshManager, the user is only able to add 13 VAPs. MeshManager will not allow the 14 th VAP to be added.
Description:	Although the MOTOMESH Duo product supports 14 VAPs, MeshManager will only allow 13 VAPs to be added.
Work Around:	None. This issue will be resolved in a future release.



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Existing Issue	
Note #:	E-13
Abstract:	The Web interface doesn't expose the MSR Proxy Init Table.
Reference Number:	PR 971
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	n/a
User Symptom:	User won't be able to specify devices to be proxied for by the unit.
Description:	The MotoMesh Duo unit will lose track of a proxy that rarely generates traffic (not chatty). Adding an entry in the MSR Proxy Init Table prevents this from happening. The web interface lacks this mechanism.
Work Around:	MeshManager (or the use of SNMP scripts) can provide this functionality.

Existing Issue	
Note #:	E-14
Abstract:	Web interface fails to load 5.8 GHz Radio Settings page.
Reference Number:	PR 1457
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	The 5.8 GHz radio settings webpage is missing most of the fields.
Description:	When accessing the 5.8 GHZ radio settings web page, some or all of the fields may not be displayed.
Work Around:	Force a refresh or click in the middle of the page, the fields appear.



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Existing Issue	
Note #:	E-15
Abstract:	Possible no boot situation if 1-ap30.dld doesn't exist.
Reference Number:	PR 1642
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Using Reset Factory Plug when 1-ap30.dld doesn't exist.
User Symptom:	The device is non-functional, inaccessible, and irrecoverable.
Description:	When uploading a firmware image to the device, the image name should not be changed from the default of ap30.dld. When uploaded, the firmware will be automatically renamed to reflect the firmware slot where it is stored (1-ap30.dld is the default ap30.dld file stored in slot 1). If the firmware filename was renamed from defaults prior to uploading or the unit has no images named 1-ap30.dld and a factory reset plug is used to restore the 2.0 hardware back to factory defaults, the device won't boot and will be unmanageable.
Work Around:	The device is capable of holding two binaries. One must always be named 1-ap30.dld. Don't rename the default files.

Existing issue	
Note #:	E-16
Abstract:	Web interface gives no warnings of invalid 4.9 GHz channel
Reference Number:	PR 1728
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	User gets no warning when setting an invalid channel
Description:	The available channels on the web interface for the 4.9 GHz band are fixed whether the channel width is 10 MHz or 20 MHz. Hence, a couple of these channels (edge channels) are invalid when the channel width is 20 MHz. The web interface allows the user to set an invalid channel without any warnings. However, the device/firmware rejects the invalid channel value.
Work Around:	<ul style="list-style-type: none"> ▪ Read back the active channel after a set operation to



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	<p>validate that the request was carried out successfully.</p> <ul style="list-style-type: none"> ▪ Avoid setting edge channels from the web interface when the channel width is 20 MHz for the 4.9 GHz band.
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Existing issue	
Note #:	E-17
Abstract:	Meshing routes may break under heavy unregulated UDP Ethernet traffic.
Reference Number:	PR 1760
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Sporadic brief interruptions in communication or short throughput outages.
Description:	Flooding the Ethernet port of a MM Duo is with unregulated UDP traffic to be transported over the mesh, causes the transmit queues to overflow and hence to drop packets including vital routing packets
Work Around:	<ul style="list-style-type: none"> ▪ Avoid flooding the Ethernet port with unregulated UDP traffic.



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Existing Issue	
Note #:	E-18
Abstract:	Web interface channel list may include invalid channels.
Reference Number:	PR 2516
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	When using the web interface, setting the channel to a frequency chosen from the channel list may fail.
Description:	The channel list on the Web interface is static; it includes all valid channels for all regulatory domains. The available channel list is not dynamically updated to display only valid channels for a certain country. The user may chose an invalid channel to be set but the device will fail the request
Work Around:	<ul style="list-style-type: none"> ▪ Refresh the web page after a channel switch request in order to confirm the active/current channel. A failure to set a channel may be an indication of an invalid channel.

Existing Issue	
Note #:	E-19
Abstract:	Device reboots after a country code lock
Reference Number:	PR 2513
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	After locking the country code using the web interface, the device becomes inaccessible for brief period of time.
Description:	Locking the country code via the web page causes the device to reboot without any prompts to the user.
Work Around:	<ul style="list-style-type: none"> ▪ Avoid locking the country code until ready to reboot the device.



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Existing Issue	
Note #:	E-20
Abstract:	Horizontal Scrollbar on Route Table & Neighbor Table windows resets to far left position
Reference Number:	PR 1111
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Link Monitor
User Symptom:	If you adjust the scroll bar on the route table or neighbor table to the right of the default far left scroll position, it may reset to the far left default position without the user taking any action.
Description:	Whenever a device query update occurs, the neighbor and route tables get re-written, which causes the horizontal scroll bar to be reset to its far left default position.
Work Around:	Either pause the monitor, or change the refresh interval to a value that is long enough to allow you to complete the scroll operation and view the data before another device query completes.

Existing Issue	
Note #:	E-21
Abstract:	The AP uses a low data rate for an extensive period of time.
Reference Number:	PR 1366
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Low downstream throughput.
Description:	In harsh RF environments, the MM Duo AP uses a low data rate for an extensive period of time when communicating with an associated station.
Work Around:	The AP recovers if one of the following occurred: <ul style="list-style-type: none"> ▪ The station is disconnected for at least 5 minutes and associated again. ▪ The AP is rebooted. ▪ The AP re-establishes the current RF channel or a new channel via a channel set command (MeshManager).



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Existing Issue	
Note #:	E-22
Abstract:	The Mesh security certificate field on the web interface is limited to a maximum of 256 bytes.
Reference Number:	PR 1846
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Inability to load a certificate using the web interface.
Description:	The Mesh security certificate field allows the user to input varying size certificates. However, only a maximum of 256 bytes of the certificate gets pushed to the device.
Work Around:	The certificate can be loaded via MeshManager.

Existing Issue	
Note #:	E-23
Abstract:	Inability to modify 2.4 GHz VAP 2 configuration via the web interface
Reference Number:	PR 1849
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Inability to modify VAP 2 configuration on the 2.4 GHz radio via the web interface.
Description:	On the 2.4 GHz VAP2 web interface configuration page the “Action to Perform” field is disabled. This prevents a user from being able to modify the configuration of VAP 2.
Work Around:	VAP2 on the 5 GHz radio can be configured via MeshManager. A different VAP can be used instead.



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Existing Issue	
Note #:	E-24
Abstract:	Ethernet port auto negotiation between a MotoMesh Duo IAP and an Adtran 1224STR switch is not fully supported.
Reference Number:	PR 1687, 1688
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Port link lights may stay off or traffic between the MM Duo IAP and the Adtran switch is intermittent.
Description:	When a MM Duo IAP is plugged into an Adtran 1224STR switch, the port lights may stay off or the traffic flow between the IAP and the switch is intermittent.
Work Around:	Connect the IAP to the switch through a hub.

Existing Issue	
Note #:	E-25
Abstract:	Accessing the web interface may cause a memory leak.
Reference Number:	PR 2419, 2467, 2514
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	After a very high number of failed or stopped attempts to access the web interface, or having the web interface open for very long periods of time, the unit may become unresponsive.
Description:	Every time an attempt to access the web interface fails (times out) or is stopped (by clicking the stop button on the web browser), a relatively small chunk of memory is lost. If this event happens often enough, the device may run out of memory and may become unresponsive.
Work Around:	Mozilla Firefox is not supported and shouldn't be used to access the web interface. Avoid stopping the browser when accessing the web interface. Note: If using the web page to configure a device, it's recommended that the device is rebooted when configuration is complete.



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Existing Issue	
Note #:	E-26
Abstract:	Logical backhaul detection failure always occurs after recovering from a physical failure.
Reference Number:	PR 2002, 2418
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Backhaul recovery is delayed after the physical connection is established.
Description:	After recovering from a physical backhaul failure, the unit goes into a logical failure recovery mode. The recovery will depend on the backhaul detection configuration parameters. If the backhaul is functional, the device will recover in a very reasonable time.
Work Around:	The device does recover if the backhaul detection is configured correctly Backhaul detection can be turned off if desired.

Existing Issue	
Note #:	E-27
Abstract:	VAP 0 broadcasts an SSID but doesn't allow station associations.
Reference Number:	PR 1710
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Station cards are unable to associate with VAP 0
Description:	VAP 0 broadcasts a SSID in its beacon. However, station associations are not allowed on this VAP. Thus any station card attempting to associate with the network advertised by VAP 0 will fail to do so.
Work Around:	Client associations are allowed on other VAPs.



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Existing Issue	
Note #:	E-28
Abstract:	False backhaul failure detection under heavy backhaul traffic.
Reference Number:	PR 1860
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	
User Symptom:	Loss of the backhaul connection and interrupted service and manageability while the IAP converts to a WR.
Description:	When the backhaul connection is saturated, there's a potential that the backhaul "heart beat" ping responses from the target are lost causing the IAP to falsely detect backhaul failure. Note: Saturating the backhaul connection may be a rare event since most applications are TCP based.
Work Around:	<ul style="list-style-type: none">▪ Configure the target of the backhaul "heart beat" ping to send ICMP traffic at high priority.▪ Modify the backhaul parameters to account for the potential loss.



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Updated Issue	
Note #:	U-1
Abstract:	Some station cards are unable to detect MM Duo networks
Reference Number:	
System Platforms Affected:	MOTOMESH Duo
Special Configurations:	Use Windows to configure the wireless network settings.
User Symptom:	The station card is unable to detect the MM Duo network and hence unable to associate with the AP.
Description:	Issue resolved. When using Windows to configure the wireless network settings, a wireless station card may be unable to detect the existence of a MM Duo wireless network and therefore is unable to associate with the AP. This issue is resolved in this release and a station card can detect the MM Duo network when the Windows configuration utility is used.
Work Around:	