

**Service Release Notes for WiNG 7.4.1.4-004R**

**Please Note:** Service releases are made available to fix specific customer reported issues in a timely manner. Service releases are not as extensively tested as main releases (such as 7.4.1.1-001R). The next maintenance or manufacturing release will incorporate all qualifying and preceding service releases.

This document is an addendum to the release notes for the main release 7.4.1.1-001R.

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**1. RESOLVED ISSUES**

**Service Release 7.4.1.4-004R**

Following is a list of SPRs/CRs fixed in this release:

CRID	Description
WING-43471	AP410: Device Firmware upgrade process not working for RF-Domain All
WING-43514	AP7532 APs continuously reboot after upgrading to 5.9.8.2
WING-43641	VX9000 v7.4.1.1-001R ge1 port shut on Azure VM
WING-43650	NX7500/AP410e v7.4.0.2 Client Connectivity and RIM crash issues
WING-43732	After power outage 560 AP's override is not correct!

**Previous Service Release 7.4.1.3-006R**

1. This service release contains some regulatory update as below.
  - a) For AP505i, AP510i, AP510e, AP560i and AP560h:
    - Antigua & Barbuda are now supported.

- Changed Qatar 5G indoor power limit and removed outdoor channel according to the latest regulatory ruling.

2. Support for below antennas are added to release as well.

SKU	Antenna Description	2G Gain	5G Gain	11ax AP
30716	WS-AO-5Q05025N 5DBI 25DEG SECTOR		4.5	AP460e 5GHz Radio
30712	WS-AO-5Q04060N 4dBi, 60deg Sector		4	AP460e 5GHz Radio
30711	WS-AO-DQ05120N 5DBI 120DEG SECTOR	5.5	5.5	AP460e 2.4GHz Radio AP360e 2.4GHz Radio AP460e 5GHz Radio AP360e 5GHz Radio
0706	WS-AI-5Q05025 5DBI 25DEG SECTOR		4.5	AP510e 5GHz Radio AP410e 5GHz Radio
30703	WS-AI-5Q04060 4dbi 60deg Sector		4	AP510e 5GHz Radio AP410e 5GHz Radio
30704	WS-AI-2Q05060 5dbi 60deg Sector	5		AP510e 2.4GHz Radio

3. Below AP transmit power commands are updated:

- “show wireless regulatory”: This show command outputs maximum allowed transmit ERIP power according to the regulatory body of the selected country. Placement option is based on each AP model’s approved indoor/outdoor capability.
- “show wireless radio”: This show command shows the maximum transmit power limit for the given country and channel that the AP is operating on.
  - It is based on the number of the configured antennas.
  - If there are 2 antennas configured on the radio, it will choose the compliance power for both the 1 and 2 stream/antenna combination across the all supported channel width.
  - The actual transmit power on the configured channel width will still be limited by the approved transmit power by the compliance table.

4. This release contains some critical fixes listed below.

**Following is a list of SPRs/CRs fixed in this release:**

CRID	Description
WING-43325	AP310 not powering up USB ImagoTag dongle
WING-43376	Unidirectional tunneled traffic flow when XGE is used
WING-43388	AP7632 smart-rf setting 80Mhz channels when policy configured for 40Mhz
WING-43493	AP310 failed to detect correct Aeroscout Tag RSSI value
WING-43593	BSS/WC termination is not happening on DFS channels using AP410 sensor
WING-43613	Improvement of show regulatory and compliance power for AP in Distributed Mode
WING-43626	AP 505 crash with kernel paging request and ARP proxy error messages
WING-43633	Regulatory power for JP 2.4GHz correction for the show command
WING-43634	APs not seeing non-wifi interferences on wing 7
WING-43657	AP510 in discovery mode does not send vendor Class
WING-43658	AP3xx/AP4xx/AP5xx v7.3.0.0 Out of Box Wing DNS Adoption Issue
WING-43665	Enable Outdoor Channels/placement for AP3xx/4xx
WING-43668	AP460e antenna config set wrong type

**Previous Service Release 7.4.1.2-003R**

This service release is mainly for supporting ADSP support on 11ax APs. Support for Sensor added on AP3xx against Airdefense 10.4.1 release.

This release also contains some critical fixes listed below.

It also adds support for WS-AI-5Q04060, WS-AI-5Q05025, WS-AI-2Q05060 Sector antennas to AP510e.

**Following is a list of SPRs/CRs fixed in this release:**

CRID	Description
WING-43399	PMF/WPA3 client termination using role-based firewall not working
WING-43490	AP310/360 device types icon show up as a Red X in WiNG 7 GUI
WING-43593	BSS/WC termination is not happening on DFS channels using AP410 sensor

**2. KNOWN ISSUES**

CQ/ SPR	Headline	Comments

**3. IMPORTANT NOTES**

None

**4. PLATFORMS SUPPORTED**

WiNG 7.4.1.4 supports the following platforms with the corresponding firmware images:

Controller Platform	Firmware Image
NX 9500/ NX 9510	NX9500-7.4.1.4-004R.img, NX9500-LEAN-7.4.1.4-004R.img
NX 9600 / NX 9610	NX9600-7.4.1.4-004R.img, NX9600-LEAN-7.4.1.4-004R.img
NX 75XX	NX7500-7.4.1.4-004R.img, NX7500-LEAN-7.4.1.4-004R.img
NX 5500	NX5500-7.4.1.4-004R.img, NX5500-LEAN-7.4.1.4-004R.img

Virtual Platform	Firmware Image
VX 9000 <sup>1</sup> —production iso/img image	VX9000-INSTALL-7.4.1.4-004R.iso, VX9000-7.4.1.4-004R.img, VX9000-LEAN-7.4.1.4-004R.img
VX 9000 – demo iso image	VX9000-DEMO-INSTALL-7.4.1.4-004R.iso <sup>2</sup>

<sup>1</sup>VX 9000 image has default 64 AP license.

<sup>2</sup>The VX demo image is a 60-day trial image of the VX 9000 software VM that can be used for demos and in the lab environments. This image does not need any additional licenses; it comes with 16 AAP licenses built in. There is no migration from the demo image to the production image.

AP Platforms	Firmware Image
AP310/360	AP3xx-7.4.1.4-004R.img AP3xx-LEAN-7.4.1.4-004R.img (included in all Controller images)
AP410/460	AP4xx-7.4.1.4-004R.img AP4xx-LEAN-7.4.1.4-004R.img (included in all Controller images)
AP505/510/560	AP5xx-7.4.1.4-004R.img AP5xx-LEAN-7.4.1.4-004R.img (included in all Controller images)

AP Platforms	Firmware Image
AP 7522	AP7522-7.4.1.4-004R.img AP7522-LEAN-7.4.1.4-004R.img (included in all NX controller images)
AP 7532	AP7532-7.4.1.4-004R.img AP7532-LEAN-7.4.1.4-004R.img (included in all NX controller images)
AP 7562	AP7562-7.4.1.4-004R.img AP7562-LEAN-7.4.1.4-004R.img (included in all NX controller images)
AP 8533	AP8533-7.4.1.4-004R.img AP8533-LEAN-7.4.1.4-004R.img (included in all NX controller images)
AP 8432	AP8432-7.4.1.4-004R.img AP8432-LEAN-7.4.1.4-004R.img (included in all NX controller images)
AP 7612	AP7612-7.4.1.4-004R.img AP7612-LEAN-7.4.1.4-004R.img (included in all NX controller images)
AP 7632	AP7632-7.4.1.4-004R.img AP7632-LEAN-7.4.1.4-004R.img (included in all NX controller images)
AP 7662	AP7662-7.4.1.4-004R.img AP7662-LEAN-7.4.1.4-004R.img (included in all NX controller images)

**Note:**

APXXX-LEAN-7.4.1.4-004R.img - built **without GUI component**. AP lean images are also bundled within controller full image.

NXXXXX-LEAN-7.4.1.4-004R.img – built **without AP images**.

**5. FIRMWARE UPGRADE/DOWNGRADE PROCEDURE**

The method described in this section uses the Command Line Interface (CLI) procedures. To log into the CLI, either SSH, Telnet or serial access can be used.

**For detailed upgrade procedure – please refer to WiNG 7.4.1.1 release notes.**

Upgrade from WiNG v7.x.x.x to WiNG v7.4.1.4

1. Copy the controller image to your tftp/ftp server.
2. Use the **—upgrade ftp://<username>:<password>@<ip address of server>/<name of file>||**, or **—upgrade tftp://<ip address of server>/<name of file>** command from CLI or **Switch->Firmware->Update Firmware** option from the GUI. You may need to specify the username and password for your ftp server.

3. Restart the controller. From CLI the command is `—reload`.

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