

WiNG 5.8.4.21-014R Release Note

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Overview

WiNG 5.8.4.21 is a service release to support release of the AP 7622 and AP 7602 in Europe. This limited release firmware is also available for selected access points and controllers.

AP 7622

The AP 7622 is a small form factor ceiling mount 802.11AC access point with internal omni-directional antennas. The AP 7622 includes an integrated BT2.0 and BLE radio, along with a multi-mode 802.11 radio. The AP 7622 supports dual band 1x1:1 or single band 2x2:2 MIMO.

Part Number: AP-7622-68B30-xx

AP 7602

The AP 7602 is a wedge shaped Wallplate 802.11AC access point. The internal antennas provide horizontal gain in the front of the AP. The AP 7602 includes an integrated BT2.0 and BLE radio, along with a multi-mode 802.11 radio. The AP 7602 supports dual band 1x1:1 or single band 2x2:2 MIMO.

Part Number: AP-7602-68B30-xx

Limitations

The WiNG 5.8.4.21 is tested and supported with selected access points and controllers. See Section 1 below for a list of supported platforms.

WiNG 5.8.4.21 supports the AP 7622 and AP 7602 for use in China, United States, Canada and countries that accept the European Union standards.

1. Platforms Supported

WiNG 5.8.4.21 has been tested with the following platforms and firmware to support the controllers and access points listed.

Controller Platform	Firmware Image
RFS 4000	RFS4000-5.8.4.21-014R.img, RFS4000-LEAN-5.8.4.21-014R.img
NX 9600 / NX 9610	NX9600-5.8.4.21-014R.img,

Controller Platform	Firmware Image
	NX9600-LEAN-5.8.4.21-014R.img

Virtual Platform	Firmware Image
VX 9000–production iso/img image	VX9000-INSTALL-5.8.4.21-014R.iso, VX9000-5.8.4.21-014R.img, VX9000-LEAN-5.8.4.21-014R.img

Full controller images included embedded firmware images for all access points, including access points that may not be supported by the WiNG 5.8.4.21 firmware. For example, the NX9600-5.8.4.21-013R.img will include firmware images for the AP 6532. However, the AP 6532 is not a tested and supported access point in this limited release.

LEAN controller images do not include embedded firmware images. Download and install only the required AP images that are supported by 5.8.4.21.

AP Platforms	Firmware Image
Independent /Adaptive APs	
AP 6521	AP6521-5.8.4.21-014R.img (included in all controller images)
AP 6522	AP6522-5.8.4.21-014R.img (included in all controller images)
AP 7522	AP7522-5.8.4.21-014R.img (included in the NX controller images)
AP 7602	AP7602-5.8.4.21-014R.img (included in the NX controller images)
AP 7622	AP7622-5.8.4.21-014R.img (included in the NX controller images)

2. New Features in WiNG 5.8.4.21

WiNG 5.8.4.21 is based on the WiNG 5.8.4 firmware. In addition to standard wireless LAN features, the 5.8.4.21 includes the following advanced features:

Add Regulatory Support for the access points sold to countries that follow the EU standard

AP-7622-68B30-EU
 AP-7602-68B30-EU

Dedicated WIDs and WIPs Sensor

The AP will operate as a dedicated WIDs and WIPs sensor for security scanning and wireless intrusion prevention. This feature requires the AirDefense Appliance running firmware 9.3.

RadioShare 802.11 Location Services

Supports part-time sensor for AirDefense 802.11 Location Based Services. This feature requires the AirDefense Appliance running firmware 9.3.

3. Firmware Upgrade / Downgrade – Controllers / Access Points

3.1 Important Notes on Upgrade / Downgrade

The US and WR versions of the AP 7602 and AP 7622 support firmware 5.8.4.20 or later. For countries using the EU version, the first available firmware is 5.8.4.21.

3.2 Upgrade / Downgrade Matrix

Ensure the controller and AP are using the same WiNG version. Consult Section 1, “Platforms Supported” for a list of supported APs and controllers.

Upgrade and Downgrade is tested with WiNG 5.7.2 and WiNG 5.8.4.

3.3 Upgrade / Downgrade Procedure for WLAN Controllers / APs

Refer to the WiNG 5.8.4 release notes for detailed instructions to upgrade or downgrade WLAN controllers and APs.

3.4 AutoInstall

Refer to WiNG 5.8.4 release notes for AutoInstall instructions.

New DHCP vendor classes added in 5.8.4.20 are:

- WingAP.AP7602
- WingAP.AP7622

5. Upgrade / Downgrade - NSight and Captive-Portal

WiNG 5.8.4.20 and WiNG 5.8.4.21 do not support NSight server. Captive Portal is included in the supported controllers and access points for WiNG 5.8.4.20 and later.

6. Important Notes

The following notes apply to the WiNG 5.8.4.20 firmware used on the AP 7622 and AP 7602.

Reboot the AP when changing the radio mode

As a general rule, it is recommended to reset the AP if the radio mode is changed. For example, changing from Single Band MIMO to Dual Band mode.

Before proceeding with a network upgrade

1. Please be sure to review the list of supported controllers and access points for WiNG 5.8.4.21 in Section 1
2. Review the list of Known Issues and evaluate your network requirements before proceeding
3. Always create a configuration backup

Important Operational and Functional Notes

- Azara cloud adoption is not supported
- The AP 7622 and AP 7602 are not available in the WiNG Express portfolio
- AP 7622 includes an RJ45 console port. AP 7602 does not include a user available console port.
- AP Discovery Tool is not supported on the AP 7622 or AP 7602. AP Discovery Tool was designed with the primary function to reset an AP to factory default on a layer 2 network. The AP 7622 includes an RJ45 console port that allows factory default from a local connection. The AP 7602 supports a Gigabit RJ45 loopback detection to reset the AP to factory default.

- Deep Packet Inspection (DPI) is not supported on the AP 7622 or AP 7602. DPI is supported on the controller.
- 802.1x authenticator is not supported on GE2 of the AP 7602
- IGMP Snooping is not supported. The AP 7602 has two GE ports so IGMP snooping will provide little value. Enable IGMP Snooping on the upstream Ethernet switch.
- AP Test is not supported
- Multi-hop MESH Connex is not supported.
- When used in a small network environment, the AP 7622 and AP 7602 should be configured from the swift UI. When used in a large network rollout, the general recommendation is to use a site controller to manage device provisioning and status.
- When using the AP as a dedicated Sensor with AirDefense WIDs/WIPs, configure radio 1 as rf-mode sensor. The AP will scan both 2.4GHz and 5GHz bands.
- Captive portal configuration pages do not support direct entry of Chinese characters. To enable Chinese characters, upload pre-designed HTML page to link to an external HTTP server to display Chinese characters on the Portal.

7. DFS Tables, Sensor and Radio Share

FCC DFS channels are not supported on the AP 7622 and AP 7602. ETSI DFS channels are supported on the AP 7622 and AP 7602 in WiNG 5.8.4.21.

Product	Master DFS FCC	Master DFS IC	Master DFS ETSI	Master DFS Japan	Client DFS FCC	Client DFS IC	Client DFS ETSI	Client DFS Japan
AP 7602	Disabled	Disabled	Enabled	Disabled	Disabled	Disabled	Enabled	Disabled
AP 7622	Disabled	Disabled	Enabled	Disabled	Disabled	Disabled	Enabled	Disabled

Radio Share functionality is supported on the AP 7622, AP 7602 for the purpose of Location Based Services.

The AP 7622 and AP 7602 do not support AirDefense network assurance toolset.

AirDefense 9.3 will support the AP 7622 and AP 7602.

8. Vulnerability updates

Consult the WiNG 5.8.4 release note for a complete list of historical vulnerability updates

9. Known Issues

Following issues are known issue in WiNG 5.8.4.21:

CQ/ SPR	Headline	Comments
WiNG-33929	RFS 4000: GUI packet capture does not work	Use the CLI on the RFS 4000 to initiate packet capture

Following issues are known issue in WiNG 5.8.4.20:

CQ/ SPR	Headline	Comments
WING-32680	AP 7622 and AP 7602: 802.11bg Cisco phones disconnect when MIMO is enabled	Configure for dual-band 1x1 mode
WING-32975	AP 7602: GE2 displays error stats when AP boots	No functional impact
WING-33052	AP 7602: GE1 to GE2 wired throughput low	Will be addressed in a future firmware
WING-32761	AP 7622 and AP 7602: in VC mode, cannot upgrade all APs using "device-upgrade rf-domain default all"	Use the swift UI to select adopted APs for firmware upgrade. By default, auto-firmware upgrade is enabled
WING-32438	AP 7622 and AP 7602: AP denied adoption when auto provisioning rule has a single rule for "adopt-anyap"	Configure adoption rule for the AP type

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