# FortiWLC - Release-Notes

Version 8.6.2

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December 09, 2021
FortiWLC 8.6.2 Release-Notes

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# Change log

| Date | Change description |
|---|---|
| 2021-10-30 | FortiWLC 8.6.2 release document. |
| 2021-11-18 | Updated Special Notices and Best Practices on page 9. |
| 2021-11-24 | Updated Known Issues on page 23. |
| 2021-12-09 | Updated Common Vulnerabilities and Exposures on page 24. |

# About FortiWLC 8.6.2

FortiWLC release 8.6.2 introduces the FAP-U432F and FAP-U234F access points and important bug fixes. See sections What's New on page 6 and Fixed Issues on page 21

# What's New

This section describes the new features introduced in this release of FortiWLC.



## FAP-U432F Support

The FAP-U432F is a tri-radio, dual band 802.11ax 2.4/5GHz outdoor access point and supports three 4x4 MIMO radios. This high performance device complies with the 802.3bt, 802.3at, and 802.3af PoE specifications and supports BLE and ZigBee. The FAP-U432F is compatible with FortiWLC enterprise wireless LAN controllers, integrated FortiGate enterprise firewall LAN controllers, and FortiCloud management platform. For more information, see the *FAP-U432F Quick Start Guide*.

For information on the FortiWLC features supported on FAP-U432F, see the *FortiWLC 8.6.2 Support Matrix*.

## FAP-U234F Support

The FAP-U234F is a tri-radio, dual band 802.11ax 2.4/5GHz outdoor access point and supports three 2x2 MIMO radios. This high performance device complies with the 802.3at and 802.3af PoE specifications and supports BLE and ZigBee.. The FAP-U234F is compatible with FortiWLC enterprise wireless LAN controllers, integrated FortiGate enterprise firewall LAN controllers, and FortiCloud management platform.

For more information, see the *FAP-U234F Quick Start Guide*.

For information on the FortiWLC features supported on FAP-U234F, see the *FortiWLC 8.6.2 Support Matrix*.

## DFS Support

This release completes the DFS certification for FAP-U431F/U433F in the country of Japan. DFS is now enabled for these AP models.

# Supported Hardware and Software

This table lists the supported hardware and software versions in this release of FortiWLC.

| Hardware and Software | Supported |
|---|---|
| Access Points | AP122<br>AP822e, AP822i (v1 & v2) AP832e, AP832i, OAP832e<br>FAP-U421EV<br>FAP-U423EV<br>FAP-U321EV<br>FAP-U323EV<br>FAP-U422EV<br>FAP-U221EV<br>FAP-U223EV<br>FAP-U24JEV<br>FAP-U431F<br>FAP-U432F<br>FAP-U433F<br>FAP-U231F<br>FAP-U234F |
| *Cannot be configured as a relay AP | |
| Controllers | FortiWLC-50D<br>FortiWLC-200D<br>FortiWLC-500D<br>FortiWLC-1000D<br>FortiWLC-3000D<br>FWC-VM-50<br>FWC-VM-200<br>FWC-VM-500<br>FWC-VM-1000<br>FWC-VM-3000 |
| FortiWLM | 8.6.2 |
| FortiConnect | 17.0 |
| **Browsers** | |
| FortiWLC (SD) WebUI | Internet Explorer 11<br>Mozilla Firefox 69 |

| Hardware and Software | Supported |
|---|---|
| | Google Chrome 77 |
| **Note**:<br>A limitation of Firefox 3.0 and 3.5+ prevents the display of the X-axis legend of dashboard graphs. | |
| Captive Portal | Internet Explorer 6, 7, 8, 9, 10, IE11 and Edge.<br>Apple Safari<br>Google Chrome<br>Mozilla Firefox 4.x and earlier<br>Mobile devices (such as Apple iPhone and BlackBerry) |

# Special Notices and Best Practices

This section lists some notes related to the usage of FortiWLC.

- VCell is not supported on FAP-U43xF and FAP-U231F.
- In case if any patches are installed, they will be removed after controller upgrade. A new patch needs to be installed in case the relevant fix is not available in the upgraded FortiWLC release.
- GRE functionality is not available with IPv6; the controller cannot establish the GRE tunnel using IPv6 address.
- Chromecast option is visible on the YouTube application only when the publisher or subscriber is in the tunneled mode.
- By default, AP832 requests 802.3af power via LLDP. Use static 802.3at power for LACP and Bluetooth.
- SNMP OIDs starting from 1.3.6.1.4.1.15983.3 are not supported.
- To refer to the LACP configuration procedure, see the FortiWLC Configuration Guide.
- Do **NOT** configure APs in Secondary Interface VLAN in case of Dual Ethernet Active-Active configuration.
- Do **NOT** enable Vcell and Native cell load balancing on the same AP.
- [FAP-U234F/FAP-U432F/FAP-U431F] Setting the image to *fap_primary* on the AP GUI is not supported, you can set the image to *fap_default*.

The following **best practices** are recommended for enhanced user experience.

### FNAC integration with FortiWLC

Configure lower lease time for isolation VLAN scope. This helps faster transition of IP address change after the station gets moved from isolation to registration VLAN.

### Rogue AP Scanning

It is recommended not to enable rogue AP scanning on APs expected to serve dense user locations to avoid the impact of channel scan duration and wait period for the wireless users.

### ARRP

- It is recommended not to run channel plan with DFS enabled in presence of non DFS certified APs.
- It is recommended to enable **Freeze** after ARRP planning is complete to avoid unplanned disruption due to channel change that can occur when the AP detects high interference.
- In an existing deployment, if new APs are added, a re-plan is needed for the first time to add APs part of the ARRP cluster. Otherwise, the AP continues to operate in the default channel.
  Channel change won't get triggered though high interference or high neighbour count is detected.

### Multicast

- The Multicast flag should be disabled on all ESS profiles unless it is needed for any multicast applications that do not support MDNS or SSDP. In such scenarios, it is recommended to use VLAN isolation for

multicast application traffic to avoid flooding of data both in wired and wireless infrastructure.

- IGMP snooping should be enabled in switching infrastructure when bridged data plane is configured in an ESS profile.
- All UDP ports must be disabled and ports that are specifically needed for any application traffic should be used.

**Others**

- Fortinet does not recommend hand off between different models for 11n APs. Single VCELL between Wave-1 and Wave-2 AC APs is supported.
- [FortiWLC 1000D/3000D] When collecting diagnostics (**Maintenance > File Management > Diagnostics**) in a scale setup (3000 APs and 40k clients approximately), do not use the **System Diagnostics** option as it takes a long time (4 hours' approx.). Also, do not run the **diagnostics** command to collect system diagnostics. The following are recommended:
  - **[GUI]** Use **Controller Diagnostics** and **Controller Diagnostics Snapshot** options.
  - **[CLI]** Use **diagnostics-ap**, **diagnostics-controller**, and **diagnostics-controller-snapshot** commands.
- In a deployment of 300 and more APs, it is recommended to configure **Feature Group** in FortiWLC or **AP Groups** in FortiWLM. Do not run ARRP globally (on all APs) in such a deployment as it is memory and processor intensive.
- In case if boot script is installed, it is recommended to remove the boot script (if any being used) before Controller upgrade and configure a new valid boot script in accordance to the upgraded FortiWLC release.

# Deployment Guidelines for 802.11ax APs

Apply this upgrade procedure to laptops (with Intel Wi-Fi drivers installed) for connectivity to 802.11ax access points, where, the ESSID is not displayed in the Wi-Fi list; the ESSIDs are not detected by default on laptops with Intel Wi-Fi drivers installed.

Follow these steps to upgrade Intel client drivers.

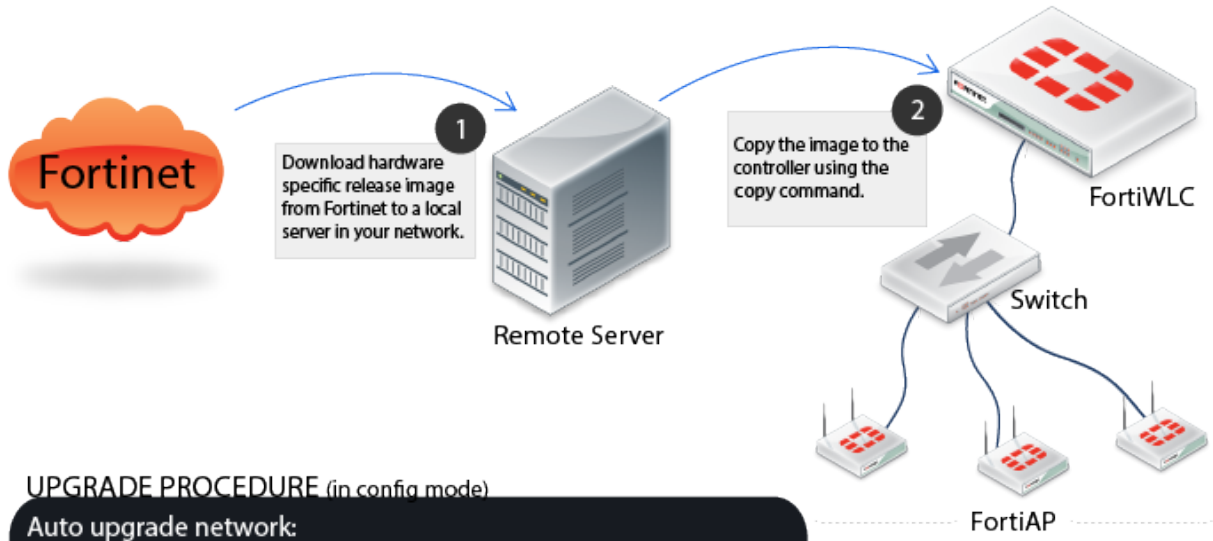
1. Browse to https://downloadcenter.intel.com/ and select **Wireless Networking**.
2. Click on **View by product** and select **Intel Wireless Products**; the browser page reloads.
3. Click on **View by product** again and select the applicable **Intel Wireless Series**. (For example, Intel Wireless 9000/8000/7200 Series); the browser page reloads.
   **Note**: The number your chipset starts with is your wireless series, for example, chipset starting with 8260 indicates Intel Wireless 8100 Series.
4. Select your chipset version.
5. Select the drivers based on the installed OS and download them.
6. Install the downloaded drivers; on the prompt, select **Upgrade**.
7. Restart the laptop after the drivers are successfully installed.

You are now able to see the ESSID.

**Note**: It is recommended to use tunnel mode of deployment.

# Installing and Upgrading

Follow this procedure to upgrade FortiWLC-50D, FortiWLC-200D, and FortiWLC-500D controllers. See section Upgrading FortiWLC-1000D and FortiWLC-3000D on page 16 to upgrade FortiWLC-1000D and FortiWLC-3000D. See Upgrading Virtual Controllers on page 19 to upgrade virtual controllers.




UPGRADE PROCEDURE (in config mode)

Auto upgrade network:
To upgrade controllers and APs
```
#upgrade system <target-version>
```
Phase upgrade:
To upgrade controllers first and then all APs
```
#auto-ap-upgrade disable
#upgrade controller <target-version>
#upgrade ap same all OR upgrade ap same <ap-ID>
```
Step upgrade:
To upgrade controllers and then auto upgrade all APs
```
#auto-ap-upgrade enable
#upgrade controller <target-version>
```
Patch upgrade:
To upgrade controllers to a patch release
```
#patch install <target-patch/version>
```

1. Download image files from the remote server to the controller using one of the following commands:
   **# copy ftp://ftpuser:<password@ext-ip-addr>/<image-name-rpm.tar.fwlc><space>.**
   [OR]
   **copy tftp://<ext-ip-addr>/<image-name-rpm.tar.fwlc><space>**
   Where, **image-name** for FortiWLC: forti-{release-version}-{hardware-model}-rpm.tar.fwlc For example, *forti-8.6-0-FWC2HD-rpm.tar.fwlc*
2. Disable AP auto upgrade and then upgrade the controller (in config mode)
   **# auto-ap-upgrade disable**
   **copy running-config startup-config**
   **upgrade controller <target version>** (Example, upgrade controller 8.3)

3. Upgrade the APs
   **# upgrade ap same all**

After the APs are up, use the **show controller** and **show ap** command to ensure that the controller and APs are upgraded to the latest (upgraded) version. Ensure that the system configuration is available in the controller using the **show running -config** command (if not, recover from the remote location). See the Backup Running Configuration step.

# Getting Started with Upgrade

The following table describes the approved upgrade path applicable for all controllers except the new virtual controllers.

## Supported Upgrade Releases

This section describes the upgrade path for this release.

| From FortiWLC release... | To FortiWLC Release... |
|---|---|
| 8.4.7, 8.4.8, 8.5.1, 8.5.2, 8.5.3, 8.6.0 | 8.6.1 |
| 8.5.4, 8.5.5, 8.6.0, 8.6.1 | 8.6.2 |

**NOTES**:

- Controller upgrade performed via CLI interface will require a serial or SSH2 connection to connect to the controller and use its CLI.
- FortiWLC-1000D and FortiWLC-3000D and 64-bit virtual controller upgrades can be performed via GUI as well.
- Upgrade the FortiWLC-1000D and 3000D controllers with manufacturing version prior to 8.3-0GAbuild-93 to version 8.3-0GAbuild-93 and then to the later builds.

## Check Available Free Space

Total free space required is the size of the image + 50MB (approximately 230 MB). You can use the **show file systems** command to verify the current disk usage.

```
controller# show file systems
Filesystem 1K-blocks Used Available Use% Mounted on
/dev/hdc2 428972 227844 178242 57% /none 4880 56 4824 2% /dev/shm
```

The first partition in the above example, /hdc2, although the actual name will vary depending on the version of FortiWLC-SD installed on the controller is the one that must have ample free space.

In the example above, the partition shows 178242KB of free space (shown bolded above), which translates to approximately 178MB. If your system does not have at least 230MB (230000KB) free, use the **delete flash:<flash>** command to free up space by deleting older flash files until there is enough space to perform the upgrade (on some controllers, this may require deleting the flash file for the current running version).

### Set up Serial Connection

Set the serial connection for the following options:

**Note**:

Only one terminal session is supported at a time. Making multiple serial connections causes signalling conflicts, resulting in damage or loss of data.

- Baud--115200
- Data--8 bits
- Parity--None
- Stop Bit—1
- Flow Control—None

## Upgrade Advisories

The following are upgrade advisories to consider before you begin upgrading your network.

**Notes:**

- Upgrade Controller using wired client/laptop and **NOT** using wireless client/laptop.
- [Patch installation] When both AP and controller patches are to be applied; the controller patch must be installed prior to the AP patch.

### Upgrading Virtual Controllers

In the upgrade-image command, select the options **Apps** or **Both** based on these requirements:

• Apps: This option will only upgrade the Fortinet binaries (rpm).

• Both: This option will upgrade Fortinet binaries as well as kernel (iso).

### Upgrading FAP-U422EV

If the controller is running on pre-8.4.0 version and FAP-U422EV is deployed, follow these points:

- Disable **auto -ap -upgrade**
  OR

- It is advised not to plug in FAP-U422EV till the controller gets upgraded.

## Feature Groups in Mesh profile

If APs that are part of a mesh profile are to be added to feature group, all APs of that mesh profile should be added to the same feature group. The Override Group Settings option in the **Wireless Interface** section in the **Configuration > Wireless > Radio** page must be enabled on the gateway AP.

## Voice Scale Recommendations

The following voice scale settings are recommended if your deployment requires more than 3 concurrent calls to be handled per AP. The voice scale settings are enabled for an operating channel (per radio). When enabled, all APs or SSIDs operating in that channel enhances voice call service. To enable:

1. In the WebUI, navigate to **Configuration > Devices > System Settings > Scale Settings** tab.
2. Enter a channel number in the **Voice Scale Channel** List field and click **OK**.

**NOTE**:

Enable the voice scale settings only if the channel is meant for voice deployment. After enabling voice scale, the voice calls in that channel take priority over data traffic and this result in a noticeable reduction of throughput in data traffic.

# Upgrading to 64-bit FortiWLC-50D/200D/500D

FortiWLC release 8.6.0 onwards only 64-bit OS is supported on FortiWLC-50D/200D/500D hardware controllers. If you are upgrading to the current release from pre-8.6.0, perform this procedure to migrate from 32-bit to 64-bit OS.

**Note:** Disable NPlus1 prior to performing this procedure.

1. Download the FortiWLC 64-bit migration image file, for example *forti-8.6-0build-2-x86_64-rpm.migration.tar.fwlc*.
2. Run the **upgrade controller** command to install the image.
3. Log into the controller using the existing username and password.
4. After successful migration, upgrade the controller using the **upgrade-image** command (same as the existing 64-bit FortiWLC-1000D/3000D upgrade procedure), for example, **upgrade-image scp://@:/-rpm.tar.fwlc both**.

**Note:** After migration/upgrade to 64-bit OS, downgrading to a previous version is not supported.

# Upgrading for FAP-U231F/U234F/U43xF Support

You are required to download the image files for FAP-U231F, FAP-U234F, and FAP-U43xF (FAP-U431F/U432F/U433F) as they are NOT bundled in the controller image. Follow this procedure to download and install the files.

1. Download the AP image file from the remote server to the controller, for example,
   *copy scp://download:download@<remote_server_IP>/<image_file_location>/forti-8.6-2build-7-patch-22042021135617-FAP231F-arm-generic-rpm.tar.fwlc*
   OR
   *copy scp://download:download@<remote_server_IP>/<image_file_location>/forti-8.6-1build-04-patch-24102019120556-FAP43X-arm-generic-rpm.tar.fwlc*
2. Run the **sh patch** command to verify that the image file is copied successfully to the controller.
3. Run the **patch install <image filename>** command to install the image file on the controller.
   OR
   Download the image file from the remote server and navigate to **Maintenance > File Management > Patches > Import** in the controller GUI.
4. Select the imported image file and click **Install**. This step is required only if the auto-upgrade is disabled.

After the AP image file is installed in the controller, run the **upgrade ap same all** command to upgrade the APs.

# Upgrading FortiWLC-1000D and FortiWLC-3000D

To upgrade to FortiWLC-1000D and FortiWLC-3000D, use the following instructions.

Direct upgrade to this release is supported using the *.fwlc* file format only.

## Upgrading via CLI

1. Use the show images command to view the available images in the controller. By default, a new controller will boot from the primary partition which contains the running image.

```
Master-3000D(15)# show images
Running image : image1
On reboot : image1
--------------------------------------------------------------------------
-------
Running image details.
System version: 0.8.2
System memory: 231M/463M
Apps version: 8.6-1build-4
Apps size: 251M/850M
--------------------------------------------------------------------------
-------
Other image details.
System version: 0.8.1
System memory: 240M/473M
Apps version: 8.6-2build-7
Apps size: 177M/849M
```

2. To install the latest release, download the release image using the **upgrade-image** command.
   **upgrade-image scp://<username>@<remote-server-ip>:<path-to-image>/<image- name>-rpm.tar.fwlc both**

   **reboot**

The above command will upgrade the secondary partition and the controller will reboot to secondary partition.

**Note**:

After an upgrade the current partition will shift to the second partition. For example, if you started upgrade in primary partition, post upgrade the default partition becomes secondary partition and vice- versa.

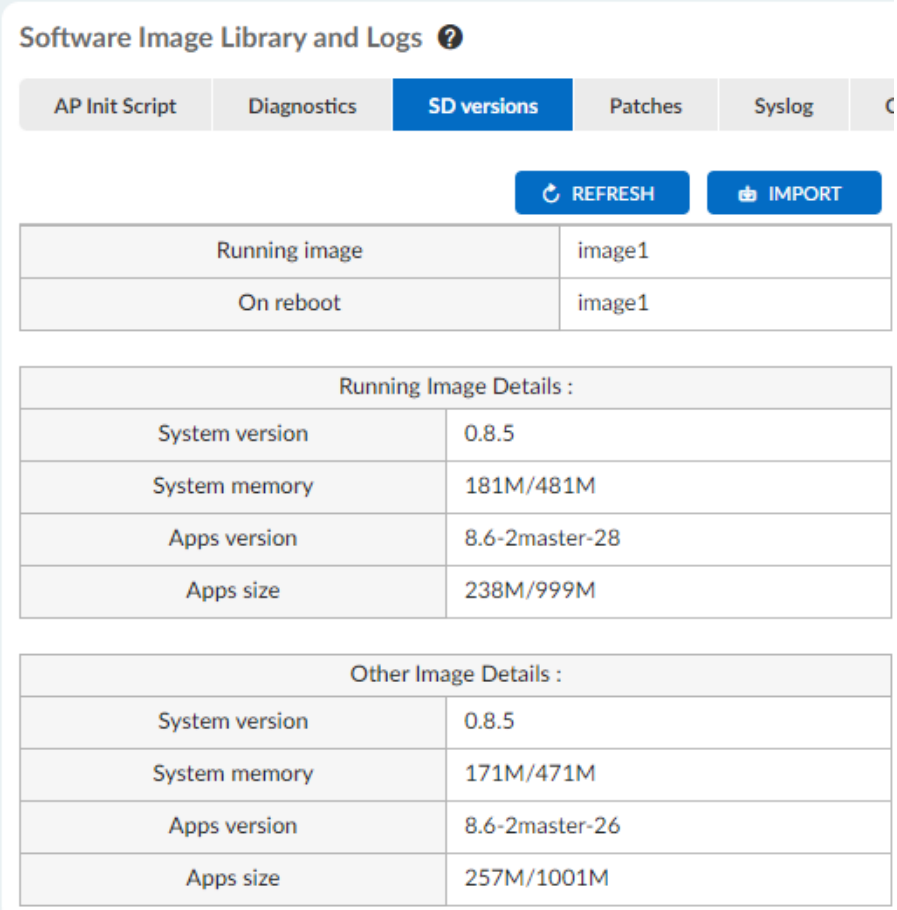
## Upgrading via GUI

This section describes the upgrade procedure through the FortiWLC GUI.

**NOTES**:

- Fortinet recommends upgrading via CLI to avoid this issue which occurs due to file size limitation.
- This issue does not exist on controllers with manufacturing build as 8.3.3 GA and above.

1. To upgrade controllers using GUI, navigate to **Maintenance > File Management > SD Version**.
2. Click **Import** to choose the image file.




3. After the import is complete, a pop message for upgrade confirmation is displayed.

Click **OK** to upgrade; the controller reboots. Click **Cancel** to abort the upgrade and continue in the existing version.

## Switching Partitions

To switch partitions in FortiWLC-1000D, FortiWLC-3000D and the virtual controllers, select the partition during the boot up process.

# Upgrading an NPlus1 Site

To upgrade a site running NPlus1, all controllers must be on the same FortiWLC-SD version and the backup controller must be in the same subnet as the primary controllers.

You can choose any of the following options to upgrade:

**Option 1** - Just like you would upgrade any controller, you can upgrade an NPlus1 controller.

1. Upgrade master and then upgrade slave.
2. After the upgrade, run the **nplus1 enable** command to enable master on slave controller.

**Option 2** - Upgrade slave and then upgrade master controller.

After the upgrade, run the **nplus1 enable** command to enable master service on the slave controller.

**Option 3** - If there are multiple master controllers

1. Upgrade all master controllers followed by slave controllers. After the upgrade, run the **nplus1 enable** command to enable all master controllers on slave controllers .
2. Run the the **nplus1 enable** command to enable master controller on slave controller.
3. Connect to all controllers using SSH or a serial cable.
4. Runthe **show nplus1** command to verify if the slave and master controllers are in the cluster.
   The output should display the following information:
   ```
   Admin: Enable
   Switch: Yes
   Reason: -
   SW Version: 8.3-1
   ```
5. If the configuration does not display the above settings, run the **nplus1 enable <master -controller -ip>** command to complete the configuration.
6. Run the **nplus1 add master** command to add any missing master controller to the cluster.

# Restore Saved Configuration

After upgrading, restore the saved configuration.

1. Copy the backup configuration back to the controller:
   **# copy ftp://<user>:<passswd>@<offbox-ip-address>/runningconfig.txt orig-config.txt**
2. Copy the saved configuration file to the running configuration file:
   **# copy orig-config.txt running-config**
3. Save the running configuration to the start-up configuration:
   **# copy running-config startup-config**

# Upgrading Virtual Controllers

Virtual controllers can be upgraded the same way as the hardware controllers. See sections Upgrading via CLI on page 17, Upgrading via GUI on page 17, and Upgrading an NPlus1 Site on page 18.

Download the appropriate virtual controller image from Fortinet Customer Support website.

For more information on managing the virtual controllers, see the *Virtual Wireless Controller Deployment Guide.*

Upgrading the controller can be done in the following ways:

- Using the FTP, TFTP, SCP, and SFTP protocols.
- Navigate to **Maintenance < File Management** in the FortiWLC GUI to import the downloaded package.

The following are sample commands for upgrading the virtual controllers using any of these protocols.

- **upgrade-image tftp://10.xx.xx.xx:forti-x.x-xbuild-x-x86_64-rpm.tar.fwlc both reboot**
- **upgrade-image sftp://build@10.xx.xxx.xxx:/home/forti-x.x-xbuild-xx-x86_64-vm-rpm.tar.fwlc both reboot**
- **upgrade-image scp://build@10.xx.xxx.xxx:/home /forti-x.x-xbuild-xx-x86_64-vm-rpm.tar.fwlc both reboot**
- **upgrade-image ftp://anonymous@10.xx.xx.xx:forti-x.x-xbuild-x-x86_64-rpm.tar.fwlc both reboot**

The **both** option upgrades the Fortinet binaries (rpm) as well as the Kernel (iso), the **apps** option upgrades only the Fortinet binaries (rpm).

After upgrade, the virtual controller should maintain the System-id of the system, unless there were some changes in the fields that are used to generate the system-id.

The international virtual controller can be installed, configured, licensed and upgraded the same way.

# Fixed Issues

These are the fixed issues in this release of FortiWLC. Controller issues listed in this section are applicable on all models unless specified; AP issues are applicable to specific models.

### AP Reboot/Stability

| Tracking ID | Description |
|---|---|
| 606440 | [FAP-U32xEV/42xEV] ARP response not sent downstream by the AP caused one way audio with ASCOM phones. |
| 633745 | [FAP-U22xEV] Soft lockup issues observed. |
| 648042 | [FAP-U43xF] Random AP reboot observed. |
| 668347 | [FAP-U43xF] Bridge mode client traffic seen on two different VLANs at the same time connected to an AP. |
| 683255 | Wireless barcode *Denso BHT-805BW* unable to connect with WPA-PSK SSIDs. |
| 709246 | [FAP-U43xF] Slow connectivity observed on 5 GHz band. |
| 713791 | [Mesh APs] Random AP reboot. |
| 715101/739321 | [FAP-U22xEV] In some scenarios, the AP did not boot up. |
| 724131 | [AP822i] Random AP reboot. |
| 725280 | [FAP-U24JEV] Unable to upgrade/downgrade some APs. |
| 727585 | [AP122] Connectivity issues observed with the 11w feature enabled. |
| 728707 | [FAP-U43xF] Random connectivity/ping drop issues observed from mobile devices. |
| 732227 | [AP822i] Random AP reboots with dataplane encryption enabled. |

### ARRP

| Tracking ID | Description |
|---|---|
| 722794 | ARRP channel planning did nor work with the APs. |

### Captive Portal

| Tracking ID | Description |
|---|---|
| 731555 | [AP822/FAP-U431F/FAP-U22xEV] Captive portal did not work with bridged SSID and clients could connect to the internet directly. |

### Configuration – Controller/AP

| Tracking ID | Description |
|---|---|
| 721160 | DHCP did not work when *No tunnel* was configured in the SSID. |

### Controller Processes/Sluggishness

| Tracking ID | Description |
|---|---|
| 704177 | SMM memory leak issues observed after installing a patch. |

### GUI/CLI

| Tracking ID | Description |
|---|---|
| 653470 | FortiWLC GUI became unresponsive sometimes. |
| 686521 | The **flashcmds show all** command restarted the AP after applying a patch. |
| 697610 | The **show station multiple-ip** command output list is nor sorted. |
| 738306 | The **sysconfig backup** command did not gather the backup configuration file. |

### Intermittent Connectivity

| Tracking ID | Description |
|---|---|
| 712505 | DHCP server pool exhausted; unable to allocate IP addresses to new clients. |
| 714239 | Clients unable to re-connect to WiFi after CoA disconnect. |

### Others

| Tracking ID | Description |
|---|---|
| 632030 | [FAP-U] Channel 144 is activated for Japan. |
| 658465 | [FAP-U431F/U433F] Could not select DFS channels with country code JP. |
| 709836 | Clients did not obtain DHCP leases from the scheduled SSID when the AP was down at an unscheduled hour of the SSID. |
| 721448 | [FAP-U43xF] The AP did not accept channels when the country was set to China. |
| 725290 | Unable to upload the license file on a virtual controller. |
| 726962 | RAID based alarm with an older date displayed as active in the controller. |

# Known Issues

These are the known issues in this release of FortiWLC. Controller issues listed in this section are applicable on all models unless specified; AP issues are applicable to specific models.

| Tracking ID | Description | Impact | Workaround |
|---|---|---|---|
| 564529 | Clients do not obtain an IP address when Port Profile is configured in the in tunnel mode. | | |
| 655788 | [FAP-U43xF/FAP-U231F] Intermittent loss of data observed as continuous Request To Send (RTS) frames are not acknowledged with Clear To Send (CTS) by the AP. | | |
| 678464 | Rogue AP scanning does not work post upgrade. | | Configure the token in Rogue AP settings. |
| 684659 | The syslog host configuration is lost after migration. | | |
| 685389 | [FAP-U42xEV/U43F] The VLAN trunking feature is not working. | | |
| 697607 | [FAP-U23xF] : Multicast traffic does not pass with power-save client if the **Multicast-to-Unicast Conversion** is disabled. | | Client connectivity impacted. |
| 732150 | [FAP-U432F] Wired client is unable to obtain the IP address. | | |
| 763190 | Fault Tolerance not supported in VM deployed with ESXi version 7.0. | | |

# Common Vulnerabilities and Exposures

This release of FortiWLC is no longer vulnerable to the following:

| CWE/Tracking ID | Description |
|---|---|
| CWE-657 | Violation of Secure Design Principles |
| CVE-2020-24586 | Fragmentation cache not cleared on reconnection |
| CVE-2020-24587 | Reassembling fragments encrypted under different keys |
| CVE-2020-24588 | Accepting non-SPP A-MSDU frames, which leads to payload being parsed as an L2 frame under an A-MSDU bit toggling attack |
| CVE-2021-42759 | Unrestricted execution of OS commands as *root*. |

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