RELEASE NOTES

# Cloudpath® Enrollment System Release Notes for Release 6.0.6124

## Supporting Cloudpath Software Release 6.0 R7

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# Document History

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# Contact Information, Resources, and Conventions

## Contacting RUCKUS Customer Services and Support

The Customer Services and Support (CSS) organization is available to provide assistance to customers with active warranties on their RUCKUS products, and to customers and partners with active support contracts.

For product support information and details on contacting the Support Team, go directly to the RUCKUS Support Portal using https://support.ruckuswireless.com, or go to https://www.ruckusnetworks.com and select **Support**.

### *What Support Do I Need?*

Technical issues are usually described in terms of priority (or severity). To determine if you need to call and open a case or access the self-service resources, use the following criteria:

- Priority 1 (P1)—Critical. Network or service is down and business is impacted. No known workaround. Go to the **Submit a Case** section.
- Priority 2 (P2)—High. Network or service is impacted, but not down. Business impact may be high. Workaround may be available. Go to the **Submit a Case** section.
- Priority 3 (P3)—Medium. Network or service is moderately impacted, but most business remains functional. Click the **CONTACT** tab at the top of the page and explore the **Self-Service Online Help** options.
- Priority 4 (P4)—Low. Requests for information, product documentation, or product enhancements. Click the **CONTACT** tab at the top of the page and explore the **Self-Service Online Help** options.

### *Open a Case*

When your entire network is down (P1), or severely impacted (P2), call the appropriate telephone number listed below to get help:

- Continental United States: 1-855-782-5871
- Canada: 1-855-782-5871
- Europe, Middle East, Africa, Central and South America, and Asia Pacific, toll-free numbers are available at https://support.ruckuswireless.com/contact-us and Live Chat is also available.
- Worldwide toll number for our support organization. Phone charges will apply: +1-650-265-0903

We suggest that you keep a physical note of the appropriate support number in case you have an entire network outage.

### *Self-Service Resources*

The RUCKUS Support Portal at https://support.ruckuswireless.com offers a number of tools to help you to research and resolve problems with your RUCKUS products, including:

- Technical Documentation—https://support.ruckuswireless.com/documents

- Community Forums—https://community.ruckuswireless.com
- Knowledge Base Articles—https://support.ruckuswireless.com/answers
- Software Downloads and Release Notes—https://support.ruckuswireless.com/#products_grid
- Security Bulletins—https://support.ruckuswireless.com/security

Using these resources will help you to resolve some issues, and will provide the Technical Assistance Center (TAC) with additional data from your troubleshooting analysis if you still require assistance through a support case or Return Merchandise Authorization (RMA). If you still require help, open and manage your case at https://support.ruckuswireless.com/case_management.

## Document Feedback

RUCKUS is interested in improving its documentation and welcomes your comments and suggestions.

You can email your comments to RUCKUS at Ruckus-Docs@ruckusnetworks.com.

When contacting us, include the following information:

- Document title and release number
- Document part number (on the cover page)
- Page number (if appropriate)

For example:

- RUCKUS SmartZone Upgrade Guide, Release 5.0
- Part number: 800-71850-001 Rev A
- Page 7

## RUCKUS Product Documentation Resources

Visit the RUCKUS website to locate related documentation for your product and additional RUCKUS resources.

Release Notes and other user documentation are available at https://support.ruckuswireless.com/documents. You can locate the documentation by product or perform a text search. Access to Release Notes requires an active support contract and a RUCKUS Support Portal user account. Other technical documentation content is available without logging in to the RUCKUS Support Portal.

White papers, data sheets, and other product documentation are available at https://www.ruckusnetworks.com.

## Online Training Resources

To access a variety of online RUCKUS training modules, including free introductory courses to wireless networking essentials, site surveys, and products, log in to the RUCKUS Training Portal at https://ruckus.myabsorb.com using your RUCKUS Partner Portal account credentials. If you do not have an account, you can sign up for one on the login screen. Once logged in, you can access your training dashboard. There you will find links to the RUCKUS Education YouTube channel, Partner training and accreditation courses, the RUCKUS NETWORKING course catalog, and more.

## Document Conventions

The following table lists the text conventions that are used throughout this guide.

**TABLE 1** Text Conventions

| Convention | Description | Example |
|---|---|---|
| `monospace` | Identifies command syntax examples | `device(config)# interface ethernet 1/1/6` |

**TABLE 1** Text Conventions (continued)

| Convention | Description | Example |
|---|---|---|
| **bold** | User interface (UI) components such as screen or page names, keyboard keys, software buttons, and field names | On the **Start** menu, click **All Programs**. |
| *italics* | Publication titles | Refer to the *RUCKUS Small Cell Release Notes* for more information. |

### *Notes, Cautions, and Safety Warnings*

Notes, cautions, and warning statements may be used in this document. They are listed in the order of increasing severity of potential hazards.

**NOTE**
A NOTE provides a tip, guidance, or advice, emphasizes important information, or provides a reference to related information.

**ATTENTION**
An ATTENTION statement indicates some information that you must read before continuing with the current action or task.

**CAUTION**
**A CAUTION statement alerts you to situations that can be potentially hazardous to you or cause damage to hardware, firmware, software, or data.**

**DANGER**
***A DANGER statement indicates conditions or situations that can be potentially lethal or extremely hazardous to you. Safety labels are also attached directly to products to warn of these conditions or situations.***

## Command Syntax Conventions

Bold and italic text identify command syntax components. Delimiters and operators define groupings of parameters and their logical relationships.

| Convention | Description |
|---|---|
| **bold** text | Identifies command names, keywords, and command options. |
| *italic* text | Identifies a variable. |
| [ ] | Syntax components displayed within square brackets are optional.<br>Default responses to system prompts are enclosed in square brackets. |
| {**x**\| **y**\| **z**} | A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options. |
| **x**\|**y** | A vertical bar separates mutually exclusive elements. |
| < > | Nonprinting characters, for example, passwords, are enclosed in angle brackets. |
| ... | Repeat the previous element, for example, *member*[*member*...]. |
| \ | Indicates a “soft” line break in command examples. If a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash. |

# About This Document

The *Cloudpath Enrollment System (ES) Release Notes* contain information about new and updated features, system updates, defect fixes, and known issues.

For the latest versions of Cloudpath manuals, go to:

- https://support.ruckuswireless.com/

# New Features, Enhancements, and Behavior Changes

This section lists the new features, enhancements, and changed behavior in this release.

## New Features and Enhancements

- **Data Cleanup** functionality has two new controls to customize DPSK-related cleanup.
  - **DPSK Devices**: The new cleanup control defines the timeframe after a DPSK bound device exceeds **Days Since Successful Authentication**, where the DPSK device record will be automatically cleaned up.

    Note that this cleanup only applies to the DPSK **device** record itself and not the DPSK passphrase. A DPSK **device** is defined as a specific end-user device MAC Address + SSID that has successfully authenticated via a specific DPSK passphrase. These records are also sometimes referred to as “bound” DPSK devices. If a device record is cleaned up, a future successful authentication for the device using the DPSK passphrase will simply re-create the device record without any end-user or admintrator action required.

    This cleanup helps prevent the number of DPSK device records from growing unbounded for environments that have many dynamic devices such as short-term guests and the like.
  - **DPSK (zero devices)**: This new cleanup control optionally allows administrators to specify the number of days after a DPSK is created, when a DPSK has zero associated devices, where the DPSK and related data is automatically deleted. By default, this option is disabled for both upgrades and new installations.
- On Apple iOS® devices, numeric SMS codes sent for guest access can now be auto-filled into the onboarding enrollment portal form field on some devices. This allows the end user to select an operating system rendered option *From Messages: <CODE>* that causes the code to be auto-populated into the browser rendered form. Note that this requires the code to be configured as **numeric** by the administrator (and not in alphanumeric format).
- For integrations with RUCKUS SmartZone, including Network Segmentation and Legacy DPSK integration, added support for up to SmartZone release 7.3 (SmartZone API v15_0).
- For certificate templates, added **Smart Card Logon EKU (1.3.6.1.4.1.311.20.2.2)** as a selectable option. This allows the use of Cloudpath issued certificates with the Microsoft Smart Card Logon and RDP access.

## Changed Behavior

- If XLS/CSV export of admin GUI table data will be truncated due to maximum row limitations, the admin user will now be warned before the export begins.
- By default, DPSK “device” records will now be cleaned up after 365 **Days Since Successful Authentication**. Note that this cleanup only applies to the DPSK **device** record itself and not the DPSK (passphrase).

  A DPSK **device** is defined as a specific end-user device MAC Address + SSID that has successfully authenticated via a specific DPSK passphrase. These device records are also sometimes referred to as **bound** DPSK devices.

  The default AD Domain in theAuthentication Server configuration now allows the underscore (_) character in support of legacy domains.

Refer to New Features and Enhancements for additional information.

# Resolved Issues

Following are resolved issues for this release of the product.

- Resolved an issue where RADIUS attributes sent with Change of Authorization (CoA) Disconnect Message (DM) requests did not correctly reflect admin-configured CoA Attributes.

- Resolved an issue where the Online Certificate Status Protocol (OCSP) response for EAP-TLS authentications incorrectly continued to return a valid status after time-based "OCSP Monitoring" for "unused" certificates had previously revoked the certificate.
- Resolved an issue when an enrolling user is redirected to an external SAML Identity Provider (IdP) and takes longer than 2 minutes to complete the IdP presented authentication.
- Resolved an issue where API-based admin requests became unavailable after enabling multi-factor authentication for Cloudpath administrators.
- Resolved an issue deleting with property management based "Units" when the Unit was previously used with enrollment workflows.
- Resolved an issue that caused Android™ clients to receive an incompatible configuration when both a wired network and a wireless SSID were defined in the Device Configuration.
- Resolved a problem in the Admin GUI downloading certificates for a Certificate Authority (CA) where the CA name contained non-ASCII characters.
- Resolved an issue where admin logins failed after an internal daily system maintenance process was executed.
- Resolved an issue where configuring an invalid RADIUS client IP address (for AP, switch, or controller) prevented the RADIUS server from starting.
- Resolved various Tenant Portal graphical inconsistencies.
- Added information to the *Cloudpath Enrollment System Microsoft Hyper-V Deployment Guide, 6.0* and AWS installation guide for more clarity.

# Upgrade Information

Cloudpath version 5.12 or earlier requires using the **maintenance cannibalize** CLI command method for upgrade to version 6.0.6124, while versions 6.0 to 6.0 R2 and later can be upgraded through the Admin UI or using the CLI.

## Upgrading From Cloudpath Version 5.12.5614 or Earlier

To upgrade from Cloudpath version 5.12.5614 (or earlier) to version 6.0.6124, a new virtual machine image is required. In-place upgrades through the Admin UI are not supported for this transition. However, a utility is provided to streamline the migration of configuration and data from your existing 5.x system to the new 6.x virtual machine.

To update from version 5.12.5614 or earlier, you must perform the following steps:

1. Download the new virtual machine image of Cloudpath ES **6.0.6124** relevant to your hypervisor (.ova, .qcow2, .vhdx, and so on).

   **NOTE**
   Note that a new license key or activation code is not required. The licensing information will be imported from your existing system.

2. Install and deploy the new virtual machine to your hypervisor.
3. In the initial CLI-based setup for the new VM, provide a temporary IP address and network settings that can reach the existing system.
4. Use the following command on the new virtual machine to import information from the existing system to the new system:

   ```
   # maintenance cannibalize [existing-system-hostname-or-IP]
   ```

5. The **maintenance cannibalize** command will prompt for SSH credentials for the **cpn_service** account on the existing system and copy and port data from the existing system.
6. At the end of the process, accept the prompt to have the system automatically move the IP address to the new system.

7. The prior existing system will automatically shut down, the new system will boot and assume the IP address. For more information about how to perform a “cannibalize” import for upgrades, refer to the *Cloudpath Enrollment System Upgrade Guide*.

# Upgrading From Cloudpath Version 6.x

Cloudpath version 6.0.6124 supports upgrades through the Admin UI or the cannibalization method.

To upgrade Cloudpath version 6.x to 6.0.6124, complete the following steps using the Admin UI.

1. Select **Administration** > **System Updates**.
2. Expand the **Update** section for the upgrade version.
3. Complete the following to install the update.
   a) Create a Virtual Machine (VM)-level Snapshot.
   b) Click **Download Update**. This displays the update package being downloaded.
   c) Click **Install Update** after the update package download is complete.
4. After several minutes the server restarts. During the initial login, you are prompted for information.
5. Select **Administration** > **System Updates** to confirm the update.

# Minimum Wizard Version

The Cloudpath server requires a minimum version of the wizard.

When performing a system update from the Admin UI or by using database import, the system automatically updates your Cloudpath wizard to the appropriate version.

# Snapshots

When upgrading your system, all previous snapshots will remain in the system, will be labeled not compatible, and will not be selectable as active snapshots.

As part of the upgrade process, a new snapshot is created with the latest wizard build. This automatic snapshot creation allows the system to be fully updated and usable when the upgrade is finished.

# Upgrading Advanced Clusters With 3 or More Nodes to 6.0.6124

**NOTE**
Typical replication configurations with two nodes may follow the steps in section the Upgrading From Cloudpath Version 6.x.

To upgrade your advanced cluster with three or more nodes (replication configurations that contain "app" nodes) to version 6.0 R7 (6.0.6124), you must deploy new VMs, as follows:

**NOTE**
When you first activate a new system, you are presented with a **System Setup** screen that contains the question: "Which Type Of Server is This?" For the node that will serve as your primary node in the cluster, select the **Standard Server (Default)** option. For the node that will serve as your secondary server, select the **Add On Server For Cluster** option.

1. Deploy two new .OVAs as virtual appliances by following the instructions in either the *Deploying Cloudpath as a Virtual Appliance on a VMware™ Server, Release 6.0* or *Cloudpath Enrollment System Deploying Cloudpath as Virtual Appliance using Microsoft Hyper-V, Release 6.0* document, as applicable.

2. Disable the replication service on all current cluster nodes by following the instructions in the *Setting Up Clustering With Cloudpath Servers* guide, 6.0 (or earlier).
3. Import the database from the old primary node to the new primary node using the command-line configuration utility (**klish** command) of the new OVA system:

   ```
   #maintenance cannibalize oldsystemhostname
   ```

   **NOTE**
   For more information about how to perform a database import for upgrades, refer to the *Cloudpath Enrollment System Upgrade Guide*.

4. After the import is finished, you can accept the prompt to have the system automatically move the IP address to the new system and shut down the old system.
5. Configure the new secondary node to match the network settings of the old secondary node.
6. Once all the nodes have been upgraded, follow the steps in the applicable section of the *Cloudpath Enrollment System Replication Configuration Guide*, Version 6.0 or later, to recreate your cluster:
   - "Configuring an Active - Standby Replication"
   - "Configuring an Active - Active Replication"

   **NOTE**
   Before you run the **replication setup** command, be sure you have activated both nodes.

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