

# RUCKUS SmartZone Software Licensing Guide

**Supporting all SmartZone Releases**

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# Contact Information, Resources, and Conventions

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## 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 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.commscope.com/ruckus> 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 **Open 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 **Open a Case** section.
- Priority 3 (P3)—Medium. Network or service is moderately impacted, but most business remains functional. Go to the **Self-Service Resources** section.
- Priority 4 (P4)—Low. Requests for information, product documentation, or product enhancements. Go to the **Self-Service Resources** section.

### 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](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 TAC with additional data from your troubleshooting analysis if you still require assistance through a support case or RMA. If you still require help, open and manage your case at [https://support.ruckuswireless.com/case\\_management](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@commscope.com](mailto:#Ruckus-Docs@commscope.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.commscope.com/ruckus>.

## Online Training Resources

To access a variety of online RUCKUS training modules, including free introductory courses to wireless networking essentials, site surveys, and products, visit the RUCKUS Training Portal at <https://commscopeuniversity.myabsorb.com/>. The registration is a two-step process described in this [video](#). You create a CommScope account and then register for, and request access for, CommScope University.

# Document Conventions

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

**TABLE 1** Text Conventions

Convention	Description	Example
<code>monospace</code>	Identifies command syntax examples	<code>device(config)# interface ethernet 1/1/6</code>
<b>bold</b>	User interface (UI) components such as screen or page names, keyboard keys, software buttons, and field names	On the <b>Start</b> menu, click <b>All Programs</b> .
<i>italics</i>	Publication titles	Refer to the <i>RUCKUS Small Cell Release Notes</i> 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
<b>bold text</b>	Identifies command names, keywords, and command options.
<i>italic text</i>	Identifies a variable.
[ ]	Syntax components displayed within square brackets are optional. 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, <i>member[member...]</i> .
\	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.





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## New In This Document

**TABLE 2** Key Features and Enhancements in SmartZone 6.1.1 (June 2023)

Version	Summary of changes	Publication Date
RUCKUS SmartZone Software Licensing Guide, 800-73279-001 Rev B		June, 2023
Support Requirement for SmartZone	The topic describes the active support for AP licenses.	Refer to, <a href="#">Support Requirement</a> on page 17 for more details.
Default License	The topic is added to reflect the license supporting terms and conditions	Refer to, <a href="#">Built-in Licenses</a> on page 19 for more details.
Capacity and Licenses	The topic describes the difference between Capacity and licenses.	Refer to, <a href="#">Capacity and Licenses</a> on page 24 for more details.
Licensing Server Firewall Port Information	The topic provides the information for the firewall.	Refer to, <a href="#">Licensing Server Firewall Port Information</a> on page 24 for more details.

## SmartLicense Overview

This guide is intended for use by those responsible for managing the RUCKUS Wireless network controller. Therefore, it assumes basic working knowledge of the RUCKUS wireless network controller and Access Point (AP) products.

The controller (SmartZone) currently includes a licensing feature that stores proprietary license files. As part of this feature, the new license feature implementation uses *Flexera* licensing to handle license management.

The controller uses a Flexera license server as the primary license source and periodically retrieves the license from the server for any updates. The manual upload of a binary license file from the local machine is also supported.

In addition displaying all assigned license entitlements on the user interface, the user interface provides a method to set the Local License Server (LLS) address, and allows you to manually retrieve license data from the license server from the controller. The user interface enforces the system upgrade process by checking the availability of supported licenses.

The SmartZone (controller) user interface provides information about licensing and the licenses you are currently using to determine when you may require more licenses (or fewer licenses) over time.

For the purposes of this document, the following assumptions are made:

- You have already deployed your SmartZone system.
- You have purchased a license or are using the 90-day trial license.



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## Trial License

Each RUCKUS wireless network controller comes pre-installed with a 90-day trial license and the capacity for 50 APs. The trial license is activated when the controller first starts up. After the controller connects to the license server and successfully retrieves the permanent license data from it, the trial license is disabled. If later within the 90-day trial period the permanent license is removed for some reason, the trial license is enabled again. The controller fully trusts the license data provided by either the license server or the uploaded binary license data file. Any previous license data information is overwritten by new license data. The license data is stored as a trusted storage file for reference purposes, and decoded into the current existing license format to store in the database.

Controller platforms support the AP Capacity License, AP Capacity Base License, Instance License, and Support License. The below table lists the default license for controller platforms.

TABLE 3 Default State

Product	Default state prior to activation
SZ300, SZ100/SZ124/SZ104, SZ144	<ul style="list-style-type: none"><li>• 90-day access without activation.</li><li>• 50 AP licenses included.</li></ul> <p>Within 90 days, you must register or activate the license on the RUCKUS Support Portal (<a href="https://support.ruckuswireless.com">https://support.ruckuswireless.com</a>) by providing the serial number of the controller.</p> <p>In the back-end, SFDC (SalesForceDotCom) creates the necessary device in FlexNet Operations (FNO). When the controller connects to FNO or Local License Server (LLS), it picks the activation license key and the controller is permanently activated.</p>

TABLE 3 Default State (continued)

Product	Default state prior to activation
vSZ-H and vSZ-E	<ul style="list-style-type: none"><li>• 90-days access without activation.</li><li>• 01 AP licenses included.</li></ul> <p>Within 90 days, you must register or activate the license on the RUCKUS Support Portal (<a href="https://support.ruckuswireless.com">https://support.ruckuswireless.com</a>) by providing the serial number of the controller.</p> <p>In the back-end, SFDC creates the necessary device in FlexNet Operations (FNO). When the controller connects to FNO or Local License Server (LLS), it picks the activation license key and the controller is permanently activated.</p> <p>When you purchase an instance license, you must activate or claim the instance license by giving the LLS serial number on the RUCKUS Support Portal (<a href="https://support.ruckuswireless.com">https://support.ruckuswireless.com</a>). RUCKUS Support creates devices in Flexera FlexNet Operations On-Demand (FNOOD) and transfers the necessary licenses to LLS.</p> <p>You must insert the vSZ serial number in the LLS reservation list and provide any other information for the vSZ (for example, AP capacity).</p> <p>Upon completing this step, the vSZ is checked-in to the LLS. The activation key and other features, such as the AP capacity license, are sent to the vSZ through auto-update.</p>

## Activating a License

After purchasing the license, you are sent an email message containing an Activation code. After the activation code is validated and attached to a device (using the serial number), the license can be downloaded from the Ruckus Support website.

You must have a RUCKUS Support Portal account (including username and password) to activate a license. If you do not have a RUCKUS Support Portal account, they must register before continuing with license activation.

### NOTE

Only valid users are authorized to activate the licenses.

Complete the following steps to activate the license.

1. Open the Ruckus Support activation email message received from RUCKUS, and click the Activation Code in the email message.

**FIGURE 1** Ruckus Support Activation Email Message

**Dear Valued Customer:**  
**Thank you for purchasing a Ruckus Wireless Support Contract.**  
**What is this?**  
 This is the support activation email for your new purchase. please review the information below and proceed to activate.

Support Contract Details					
<b>Distributor:</b> MTX - Ruckus Wireless - India	<b>VAR:</b> RUCKUS NETWORKS INC	<b>End User:</b> RUCKUS NETWORKS INC			

Coverage Start Date	Coverage End Date	Quantity	Product	Serial Numbers	Primary Controller Serial Number
You purchased: WatchDog Partner Advance Replacement support. This support entitles you to Advance Replacement services for your hardware. In case of a hardware failure, we will ship equivalent replacement product to your location before receiving your defective product.					
3/1/2022	3/1/2023	10	S01-URL1-1LUL		N/A

You MUST click on the activation Code below to complete your registration. This will require you login to Ruckus Support site. If you don't have a login, you will be required to create one.

**Activation Code:** SUP-03849543-BEE-ACT-FAN

Note: If there are renewals in your order, they are automatically activated.

Best Regards,  
Ruckus, a CommScope company

**Connect with Us:**  
[Facebook](#) [Twitter](#) [YouTube](#)

**Contact Info:**  
 New to Ruckus? Get Started: [New Customer](#)  
 Support Contact: [Contact-Us](#)  
 Support Web: <http://support.ruckuswireless.com>

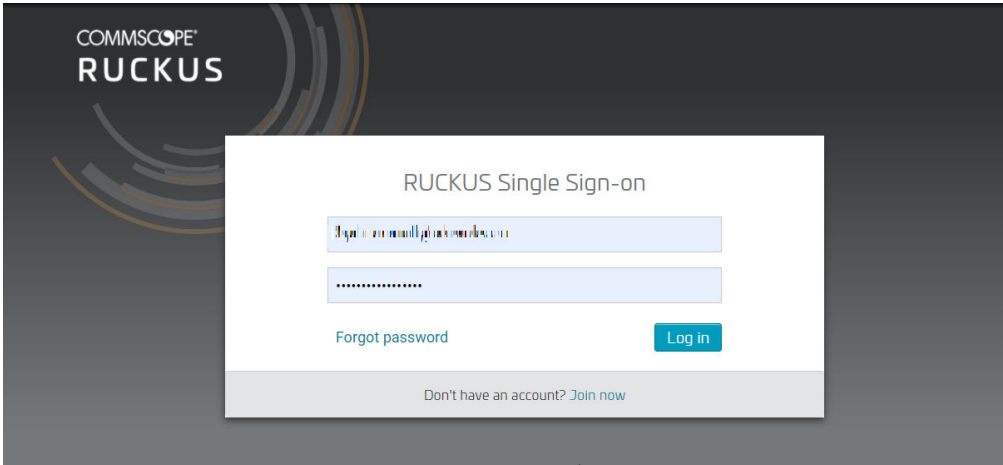
[Terms Of Use](#) | [Privacy Policy](#)

You are redirected to the RUCKUS Support Portal (<https://support.ruckuswireless.com>).

Activating and Registering Your Purchases  
Activating a License

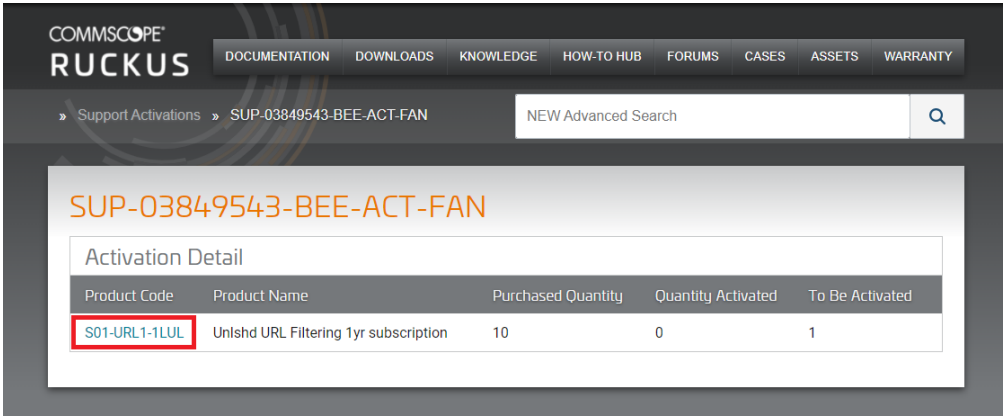
- 2. Enter your email address and password, and click **Log in**.

FIGURE 2 Logging In to the Support Portal



- 3. Click the license product code to activate the license.

FIGURE 3 Activating a License



**NOTE**  
Before validating your device, you must obtain the serial number from the web user interface (**Administration > System > System Info**).

4. In the **Entitling Your Asset For Support** page, enter the serial number and click **Validate Serial Number**.

**FIGURE 4** Validating Your Device

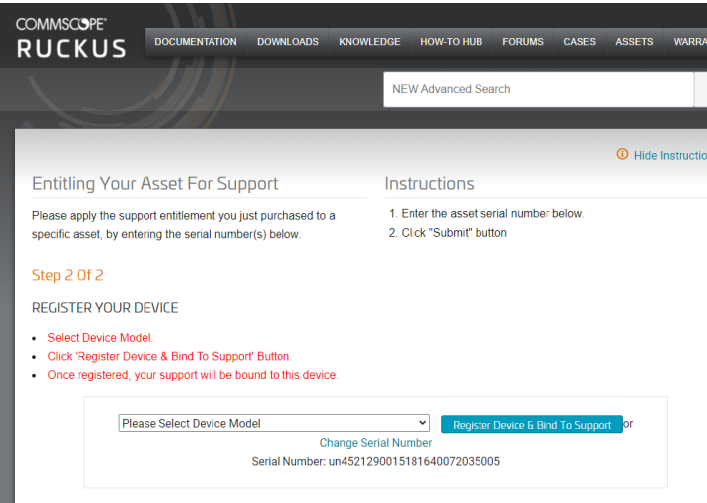
The screenshot displays the RUCKUS COMMSCOPE web interface. At the top, there is a navigation bar with links for DOCUMENTATION, DOWNLOADS, KNOWLEDGE, HOW-TO HUB, FORUMS, CASES, ASSETS, and WARRANTY. Below this is a search bar labeled 'NEW Advanced Search' with a magnifying glass icon. The main content area is titled 'Entitling Your Asset For Support' and includes a 'Hide Instructions' link. The instructions section lists two steps: '1. Enter the asset serial number below.' and '2. Click "Submit" button'. The 'VALIDATE YOUR DEVICE' section features a text input field labeled 'Bind To Device With Serial Number' and a blue button labeled 'Validate Serial Number'.

Activating and Registering Your Purchases

Activating a License

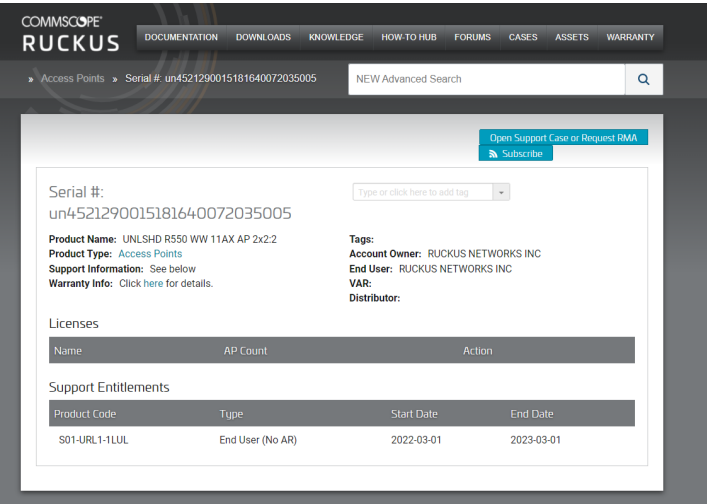
5. Select the device model and click **Register Device & Bind To Support**.

FIGURE 5 Registering Your Device



Your license information is displayed and the license is activated.

FIGURE 6 Displaying License Information



6. Your license is activated.



# Support Requirement

To provide the highest quality of service and support to customers, RUCKUS requires customers to have active support for all access point (AP) licenses, as well as for the RUCKUS SmartZone physical or virtual appliances.

## Requirement for Support of SmartZone Appliances

For different types of SmartZone appliances, the support SKUs in the following table are available. You will need one of these support SKUs per SmartZone appliance.

**TABLE 4** New SKUs per SmartZone Appliance

SmartZone Type	Support SKU
vSZ RTU (Virtual SmartZone)	S01-VSCG-1L00, S01-VSCG-3L00, S01-VSCG-5L00, S02-VSCG-1L00, S02-VSCG-3L00, S02-VSCG-5L00, S04-VSCG-1L00, S04-VSCG-3L00, S04-VSCG-5L00, S08-VSCG-1L00, S08-VSCG-3L00, S08-VSCG-5L00, S62-VSCG-1L00, S62-VSCG-3L00, S62-VSCG-5L00
SZ 144	S01-S144-1000, S01-S144-3000, S01-S144-5000, S02-S144-1000, S02-S144-3000, S02-S144-5000, S04-S144-1000, S04-S144-3000, S04-S144-5000, S08-S144-1000, S08-S144-3000, S08-S144-5000, S62-S144-1000, S62-S144-3000, S62-S144-5000
SZ 104	S01-S104-1000, S01-S104-3000, S01-S104-5000, S02-S104-1000, S02-S104-3000, S02-S104-5000, S04-S104-1000, S04-S104-3000, S04-S104-5000, S08-S104-1000, S08-S104-3000, S08-S104-5000, S62-S104-1000, S62-S104-3000, S62-S104-5000
SZ 124	S01-S124-1000, S01-S124-3000, S01-S124-5000, S02-S124-1000, S02-S124-3000, S02-S124-5000, S04-S124-1000, S04-S124-3000, S04-S124-5000, S08-S124-1000, S08-S124-3000, S08-S124-5000, S62-S124-1000, S62-S124-3000, S62-S124-5000
SZ300 (DC Power Supply)	S01-S300-1002, S01-S300-1012, S01-S300-3002, S01-S300-3012, S01-S300-5002, S01-S300-5012, S02-S300-1002, S02-S300-1012, S02-S300-3002, S02-S300-3012, S02-S300-5002, S02-S300-5012, S04-S300-1002, S04-S300-1012,

**TABLE 5** Renewal SKUs per SmartZone Appliance

SmartZone Type	Support SKU
vSZ RTU (Virtual SmartZone)	S24-VSCG-1L00, S24-VSCG-3L00, S24-VSCG-5L00, S28-VSCG-1L00, S28-VSCG-3L00, S28-VSCG-5L00, S41-VSCG-1L00, S41-VSCG-3L00, S41-VSCG-5L00, S51-VSCG-1L00, S51-VSCG-3L00, S51-VSCG-5L00, S72-VSCG-1L00, S72-VSCG-3L00, S72-VSCG-5L00
SZ 144	S24-S144-1000, S24-S144-3000, S24-S144-5000, S28-S144-1000, S28-S144-3000, S28-S144-5000, S41-S144-1000, S41-S144-3000, S41-S144-5000, S51-S144-1000, S51-S144-3000, S51-S144-5000, S72-S144-1000, S72-S144-3000, S72-S144-5000
SZ 104	S24-S104-1000, S24-S104-3000, S24-S104-5000, S28-S104-1000, S28-S104-3000, S28-S104-5000, S41-S104-1000, S41-S104-3000, S41-S104-5000, S51-S104-1000, S51-S104-3000, S51-S104-5000, S72-S104-1000, S72-S104-3000, S72-S104-5000
SZ 124	S24-S124-1000, S24-S124-3000, S24-S124-5000, S28-S124-1000, S28-S124-3000, S28-S124-5000, S41-S124-1000, S41-S124-3000, S41-S124-5000, S51-S124-1000, S51-S124-3000, S51-S124-5000, S72-S124-1000, S72-S124-3000, S72-S124-5000
SZ300 (DC Power Supply)	S24-S300-1002, S24-S300-1012, S24-S300-3002, S24-S300-3012, S24-S300-5002, S24-S300-5012, S28-S300-1002, S28-S300-1012, S28-S300-3002, S28-S300-3012, S28-S300-5002, S28-S300-5012, S41-S300-1002, S41-S300-1012, S41-S300-3002, S41-S300-3012, S41-S300-5002, S41-S300-5012, S51-S300-1002, S51-S300-1012, S51-S300-3002, S51-S300-3012, S51-S300-5002, S51-S300-5012, S72-S300-1002, S72-S300

## Support SKUs per AP License

For AP licenses, the support SKUs in the following table are available. You will need one of the support SKUs per AP license. You are required to have 100 percent of the AP licenses covered by the support SKUs in order to be entitled to support coverage.

## Activating and Registering Your Purchases

### Support Requirement

The support requirement ensures that you have full access to the RUCKUS Support team for any assistance or troubleshooting needs. Additionally, it allows you to upgrade your RUCKUS SmartZone to the latest versions as they become available, ensuring you always have access to the newest features and security updates.

**TABLE 6** New SKUs per AP License

AP License	Support SKU
L09-0001-SG00	S01-0001-1LSG, S01-0001-3LSG, S01-0001-5LSG, S02-0001-1LSG, S02-0001-3LSG, S02-0001-5LSG, S04-0001-1LSG, S04-0001-3LSG, S04-0001-5LSG, S08-0001-1LSG, S08-0001-3LSG, S08-0001-5LSG, S62-0001-1LSG, S62-0001-3LSG, S62-0001-5LSG

**TABLE 7** Renewal SKUs per AP License

AP License	Support SKU
L09-0001-SG00	S24-0001-1LSG, S24-0001-3LSG, S24-0001-5LSG, S28-0001-1LSG, S28-0001-3LSG, S28-0001-5LSG, S41-0001-1LSG, S41-0001-3LSG, S41-0001-5LSG, S51-0001-1LSG, S51-0001-3LSG, S51-0001-5LSG, S72-0001-1LSG, S72-0001-3LSG, S72-0001-5LSG

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## Built-in Licenses

Beginning with SmartZone 6.1.0, the SZ144 platform supports 25 permanent AP management licenses that do not require renewal. These permanent licenses are not included in the calculation of the SZ144 support license compliance and are not transferable to any other platforms. SZ144 does not have any default temporary AP license.

Upgrade earlier versions of SZ144 to SZ6.1.0 or later to get the 25 permanent AP licenses. After the upgrade, the number of Switch or RXGW default licenses will be reset to 1. To continue using Switch or RXGW, purchase the required license from RUCKUS.

**NOTE**

Purchasing support for the SZ144 appliance will also cover the support for the 25 built in AP licenses.

## Viewing Installed Licenses

The Licenses page displays the current count of all licenses and their usage across the cluster. You can synchronize the license data, import a license file into the controller if it is unable to connect to the RUCKUS SmartLicense system, and release licenses bound to an offline controller by downloading a copy of the licenses.

Complete the following steps to view the installed licenses.

1. Go to **Administration > Administration > Licenses**.

## Managing Licenses

### Viewing Installed Licenses

2. Select the **Installed Licenses** tab.

The tab displays the following options:

- Sync Now:** Provide manual license sync button and sync status. Refer to [Synchronizing the Controller with the License Server](#) on page 21.
- Upload:** Uploads the binary license data file. Refer to [Importing Installed Licenses](#) on page 22.
- Download:** Downloads the binary license data file. Refer to [Downloading License Files](#) on page 23.
- List:** Lists the current assigned license entitlements (the default view). In the **List** view, the following information is displayed for licenses that have been uploaded to the controller:
  - Name: The name of the node to which the license was uploaded.
  - Node: The name of the controller node.
  - Start Date: The date that the license file was activated.
  - Expiration Date: For time-bound licenses, the date that the license file expires.
  - Capacity: The number of units or license seats that the license file provides.
  - Description: The type of license.

**FIGURE 7** Installed Licenses: List View

Installed Licenses   License Servers   URL Filtering Licenses					
VIEW MODE: <b>List</b> Summary					
<a href="#">Sync Now</a> <a href="#">Upload</a> <a href="#">Download</a>					
Name ▲	Node	Start Date	Expiration Date	Capacity	Description
CAPACITY-AP	SZ300-DN1	2014/08/04	2030/08/05	15	AP Capacity License
CAPACITY-AP-BUNDLED	SZ300-DN1		Permanent	1	Default AP Capacity License for SZ300
CAPACITY-RXGW	SZ300-DN1	2014/08/04	2030/08/05	5	Tunnel Capacity license
CAPACITY-SWITCH	SZ300-DN1	2022/05/17	2026/05/18	5	SZ Switch license
CAPACITY-SWITCH-BUNDLED	SZ300-DN1		Permanent	1	Default Switch Capacity License for SZ300
SUP-SZ300-EU	SZ300-DN1	2016/04/05	2025/08/28	2	End User Support for SZ300, 1 year
SUP-SZ300-PTNR	SZ300-DN1	2016/04/05	2025/08/28	2	Partner Support for SZ300, 1 year
Last Sync:   2022-09-14 05:48:12					

- Summary:** Displays the overall information about the current licenses, such as the current license count and usage across the cluster. In the **Summary** view, the following information is displayed for licenses that have been uploaded to the controller:
  - License Type: The type of license uploaded.
  - Total: The total number of licenses (both consumed and available).
  - Consumed: The number of licenses consumed.
  - Available: The number of licenses available.
  - AP Support License information: Displays the status and expiration date of the AP Support License.
  - NOTE**  
In prior SmartZone releases, you were unable to view the AP Support License information until the controller displayed a warning message during system upgrade.

Installed Licenses			
License Servers			
URL Filtering Licenses			
View Mode: List Summary			
Sync Now Upload Download			
search table			
License Type	Total	Consumed	Available
AP Capacity License	100	3 (3%)	97 (97%)
AP Direct Tunnel license	100	0 (0%)	100 (100%)
AP Split Tunnel Capacity License	10000	0 (0%)	10000 (100%)
Switch Capacity License	2000	0 (0%)	2000 (100%)
URL Filtering Capacity License	10000	0 (0%)	10000 (100%)
5 records 1			
search table			
License Type	Status	Expiration Date	
AP Support License	Valid	2029/03/08	
1 records 1			

## Synchronizing the Controller with the License Server

By default, the controller automatically synchronizes its license data with the selected license server every 24 hours. If you make the changes to the controller licenses (for example, purchase additional licenses) and want the controller to download the updated license data immediately, you can trigger a manual synchronization.

1. Log in to the controller web interface, and select **Administration > Administration > Licenses**.
2. Select the **Installed Licenses** tab.

## Managing Licenses

### Viewing Installed Licenses

- Click **Sync Now** to trigger synchronization with the license server.

**FIGURE 8** Synchronizing the Controller with the License Server

Installed Licenses

License Servers

URL Filtering Licenses

Sync Now

Upload

Download

Name ▲	Node	Start Date	Expiration Date	Capacity	Description
CAPACITY-AP	SZ300-DN1	2014/08/04	2030/08/05	15	AP Capacity License
CAPACITY-AP-BUNDLED	SZ300-DN1		Permanent	1	Default AP Capacity License for SZ300
CAPACITY-RXGW	SZ300-DN1	2014/08/04	2030/08/05	5	Tunnel Capacity license
CAPACITY-SWITCH	SZ300-DN1	2022/05/17	2026/05/18	5	SZ Switch license
CAPACITY-SWITCH-BUNDLED	SZ300-DN1		Permanent	1	Default Switch Capacity License for SZ300
SUP-SZ300-EU	SZ300-DN1	2016/04/05	2025/08/28	2	End User Support for SZ300, 1 year
SUP-SZ300-PTNR	SZ300-DN1	2016/04/05	2025/08/28	2	Partner Support for SZ300, 1 year

Last Sync:

2022-09-23 12:35:00

When the synchronization process completes successfully, the following message is displayed:

Sync license with the license server successful

If synchronization fails, the following message is displayed:

Fail to sync with license server

If the previously saved license data is different from the latest license data on the server, the information in the **Installed Licenses** tab refreshes to reflect the latest data.

## Importing Installed Licenses

If the controller is disconnected from the Internet or is otherwise unable to communicate with the RUCKUS SmartLicense system (due to firewall policies and so on), you can import a license entitlement file manually into the controller.

The **Upload** option allows you to upload a license file into the controller. Because this option is available only when you choose to connect with the Cloud License Server, the **Installed Licenses** tab will be unavailable or will not appear on the user interface if you want to connect with the local license server. You can browse the local file system to choose a binary license data file, indicate the license file type, and click the **Upload** button to upload the file.

### NOTE

The **Upload** option to import a license file manually into the controller is only available if the controller is using the Cloud License Server.

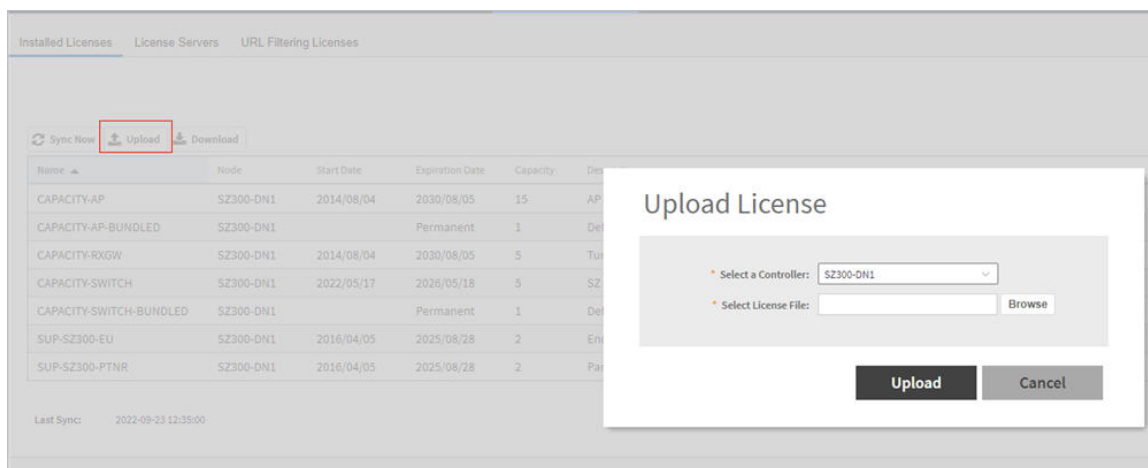
- Obtain the license file by logging in to your RUCKUS Support account, going to the License Management page, and downloading the license file (the license file is in .bin format).
- Log in to the controller web interface, and select **Administration > Administration > Licenses**.
- Select the **Installed Licenses** tab.

4. Select the node for which you are uploading the license file and click **Upload**.

The **Upload License** dialog box is displayed. You must provide the following information:

- **Select a Controller:** Select the node for which you are uploading the license file.
- **Select License File:** Click **Browse**, locate the license file (.bin file) that you downloaded from your RUCKUS Support account, and then select it.

**FIGURE 9** Importing Licenses



The page refreshes, and the information displayed changes to reflect the updated information imported from the Ruckus SmartLicense platform.

## Downloading License Files

If you want to release licenses bound to an offline controller and allow those licenses to be used elsewhere (on a different controller), you can download a copy of the controller licenses. The option to download a copy of the controller licenses is only available if the controller is using the RUCKUS Cloud License Server.

1. Log in to the controller web interface, and select **Administration > Administration > Licenses**.
2. Select the **Installed Licenses** tab.
3. Click **Download**.

The **Download Licenses** dialog box is displayed.

### NOTE

You can upload and download license files only if the controller is using the RUCKUS Cloud License Server.

4. In **Select Controller**, select the controller node for which you want to download the license files.
5. Click **Download** to download the license files from the controller.
6. When the download is complete, go to the default download folder that you have configured for your web browser, and verify that the binary copy of the license files (.bin files) exists.

## Licensing Server Firewall Port Information

The below port number information is required between the licensing server and SmartZone during deployment.

- Communication Port Number: 443
- Layer 4 Protocol: TCP
- From: SmartZone
- To (Listener): External Licensing Server
- Interface: Management
- Configured from Web User Interface: No
- Purpose: Download licensing and support entitlements from the licensing server.
- URL: <https://ruckuswireless.flexnetoperations.com>

## Capacity and Licenses

Capacity is the maximum information transfer limit of a network at the given point. The Licenses page displays the current count of all licenses and their usage across the cluster.

1. Go to **Administration > System Info > System Summary > Total Capacity**.
2. Capacity varies in different conditions as mentioned below.

The tab displays the following options:

- a. **2 Radio AP:** 2 Radio AP takes 1 capacity.
- b. **3 Radio AP:** 3 Radio AP takes 2 capacity.
- c. **Switch:** Switch takes 5 capacity.

The AP capacity license refers to the number of approved APs, while the Connected AP represents the total number of APs that are currently connected to the controller. AP capacity is based on system resources (CPU/RAM) and not the AP license count.

For example, a single vSZ-H can support:

10,000 2-radio APs (1x resources) or 5,000 3-radio APs (2x resources) or 2,000 ICX switches (5x resources).

## Configuring the License Server

RUCKUS manages the licenses that you have purchased for the controller with the Cloud License Server.

The Cloud License Server, also known as the SmartLicense Server, is a cloud-based server that stores all of the licenses and support entitlements that you have purchased for the controller.

1. Go to **Administration > Administration > Licenses**.
2. Select the **License Servers** tab.

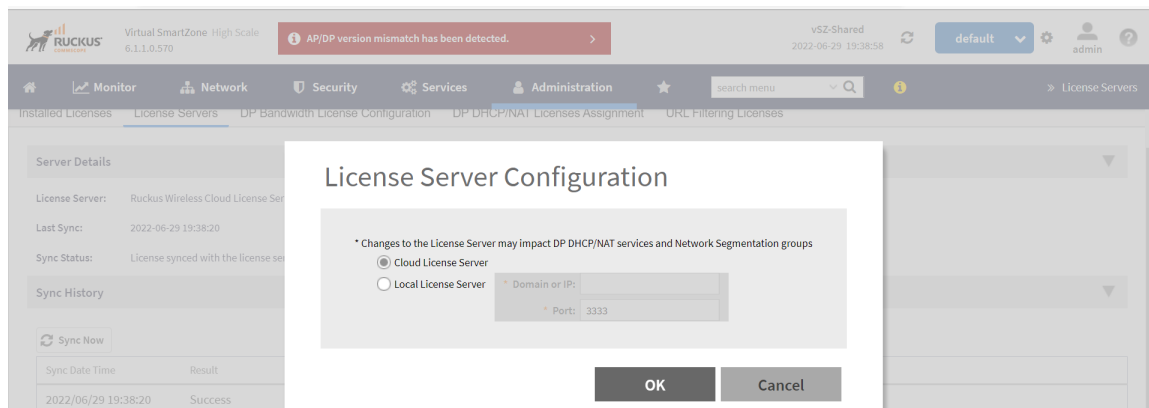
The server details and synchronization history are displayed.



3. Click **Configure**.

The **License Server Configuration** dialog box is displayed. You must provide the following information:

- Allows you to select cloud license server or local license server. Cloud License Server option allows you to use the RUCKUS SmartLicense server.
- If you select Local License Server, you must input the following information:
  - **Domain or IP:** Enter either an IP address or FQDN.
  - **Port:** Enter the port number. The number range is from 0 to 65535. The default port is 3333.



4. Click **OK**.

A warning is displayed indicating that the existing license data will be deleted and to confirm to proceed with the new license configuration.

5. Click **Yes**.

The controller saves the selected license server configuration and deletes all of its previously saved license data.

6. Click **Sync Now**.

The system automatically synchronizes the license information with the selected license server.

## Configuring License Bandwidth

You can assign a bandwidth license for a data plane provided it is already approved. Each data plane can be configured with only one bandwidth license. Configuring a bandwidth license applies only to virtual platforms. Only vSZ-D supports a bandwidth license.

1. Go to **Administration > Administration > Licenses**.

## Managing Licenses

### Configuring the DHCP/NAT Licenses Assignment

2. Select the **Data Plane Bandwidth License Configuration** tab.

**FIGURE 10** Bandwidth License Configuration

DP	DP Type	Bandwidth
ANI-vDP-Upgrade	External-Virtual	1Gbps
anu-127	External-Virtual	1Gbps

3. Select a data plane from the **DP** list. The data plane name is automatically displayed.
4. From the **Bandwidth** list, select one of the following bandwidth licenses:
  - 1Gbps (default)
  - 10Gbps (for customers using 10-Gbps NIC card)
  - Unlimited (for customers using 40-GbpsNIC card).
5. Click **Add**. The data plane with the assigned bandwidth license is displayed.
6. Click **OK**.  
A "Submitting form" message is displayed, and the data plane is assigned a bandwidth license.

## Configuring the DHCP/NAT Licenses Assignment

License assignment allows each data plane the ability to assign IP addresses by DHCP and translate packets by NAT. Though these capabilities already exist, beginning with SmartZone 5.0, you must purchase a license to enable these features.

### Creating DHCP Licenses Assignment

Licensing must be created on a per-SmartZone-controller-cluster basis. The default license, **CAPACITY-DP-SVDS-DEFAULT**, supports 1000 DHCP address leases.

Complete the following steps to create the DHCP license assignment.

1. Go to **Administration > Administration > Licenses**.
2. Select the **DP DHCP/NAT Licenses Assignment** tab.

3. From the **DHCP License** area, click **Create**.

The **DHCP License** dialog box is displayed. You must provide the following information:

- **License Usage:** Lists the details of license consumption and availability.
- **Primary Data Plane:** Select the primary data plane from the list. To remove the data plane from the DHCP license assignment, select **Clear**.
- **Secondary Data Plane:** Select the secondary data plane from the list. To remove the data plane from the DHCP license assignment, select **Clear**.
- **License Count:** Enter the number of licenses. The number of licenses ranges from 1 through 101.
- **IP Leases:** Lists the number of IP leases assigned.
- **Description:** Enter a short description of the license assignment.

**FIGURE 11** DHCP License Assignment

**DHCP License**

License Usage: Total: 1 / Consumed: 0 / Available: 1

\* Primary Data Plane: DP-THO-vdp-UPGRADE

Secondary Data Plane: DP-THO-vdp-UPGRADE-2

\* [?] License Count: 1 x 1000 IP Leases

IP Leases: 1000

Description:

OK Cancel

4. Click **OK**.

**NOTE**

To edit or remove the license assignment on the data plane, select the assignment from the DHCP License area and click **Configure** or **Delete**, respectively.

## Creating a NAT License Assignment

Licensing must be created on a per-SmartZone-controller-cluster basis. The default license, **CAPACITY-DP-SNAT-DEFAULT**, supports 100000 NAT sessions.

Complete the following steps to create the NAT license assignment.

1. Go to **Administration > Administration > Licenses**.
2. Select the **DP DHCP/NAT Licenses Assignment** tab.
3. From the **NAT License** area, click **Create**.

The **NAT License** dialog box is displayed. You must provide the following information:

- **License Usage:** Lists the details of license consumption and availability.
- **Data Plane:** Select the data plane from the list. To remove the data plane from the NAT license assignment, select **Clear**.
- **License Count:** Enter the number of licenses for the data plane. The number of licenses ranges from 1 through 20.
- **NAT Sessions/Flows:** Lists the number of NAT sessions and flows.
- **Description:** Enter a short description of the license assignment.

FIGURE 12 NAT License Assignment

NAT License

License Usage: Total: 1 / Consumed: 0 / Available: 1

\* Data Plane: DP-THO-vdp-UPGRADE

\* [?] License Count: 1 x 100000 Sessions/Flows

NAT Sessions/Flows: 100000

Description:

OK Cancel

4. Click **OK**.

#### NOTE

To edit or remove the license assignment on the data plane, select the assignment from the NAT License area and click **Configure** or **Delete**, respectively.

## Configuring URL Filtering Licenses

URL filtering service requires an active URL filtering license. URL filtering licenses can be purchased from RUCKUS partners and distributors, and a temporary license is also available to allow you to try out the service for a limited time before purchasing.

You can configure the number of URL filtering licenses on an AP within a Zone. You can both limit the number of URL filtering licenses per Zone, and also configure the AP to have an unlimited number of licenses..

- If an AP has a URL filtering license enabled, URL filtering can be enabled for all WLANs within the same Zone.
- If the URL filtering license is deleted in a Zone, URL filtering services are disabled on all the WLANs within that Zone. If you want to add the license back again, you must enable URL filtering on the Zone or WLAN.
- If the license limited to the Zone is specified, you cannot move or add more APs with URL filtering enabled to that Zone. For example, if you have set the license limit to three, you cannot add a fourth AP to the Zone.

### NOTE

The maximum number of trial licenses for SZ300 and vSZ-H controllers is 10,000 licenses.

1. Go to **Administration > Administration > Licenses > URL Filtering Licenses** tab.
2. Select the **URL Filtering Licenses** tab. This tab displays the following options:
  - Zone Name: The name of the Zone within which APs are present.
  - Number of Licenses: Displays the total number of AP licenses allocated to the Zone.
  - License Limit: Displays the number of APs (with URL filtering enabled) that can be accommodated within the Zone. The limit can be set to a specific value or unlimited.
  - WLANs with URL Filtering ON: Displays all the WLANs within the Zone that have the URL filtering service enabled.
  - Ethernet Port Profiles with URL Filtering ON: Displays the Ethernet port profiles within the Zone that have the URL filtering service enabled.

**FIGURE 13** URL Filtering Licenses

Zone Name	Number of Licenses	License Limit	WLANs with URL Filtering ON	Ethernet Port Profiles with URL Filtering ON
11ax-Zone	1	Unlimited	!!R730-WLAN-DVC	Eth

3. Select the URL filtering license and click **Configure** to set it to unlimited or a specific value as appropriate for the Zone.
4. Click **OK**.

### NOTE

To delete a configured URL filtering license, select the URL filtering license and click Remove.



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