



RUCKUS SmartZone Software Licensing Guide  
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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 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](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](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.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, visit the RUCKUS Training Portal at <https://commscopeuniversity.myabsorb.com/>. The registration is a two-step process described in this [video](#). 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
monospace	Identifies command syntax examples	device(config)# interface ethernet 1/1/6
<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, member[member...].

Convention	Description
\	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 Guide

## New In This Document

### SmartLicense Overview

## New In This Document

**Table 1.** Key Features and Enhancements in SmartZone License Guide for 7.1.0 (August 2024)

Version	Summary of changes	Publication Date
Right to Use License	The virtual version of SmartZone controllers relies on a right to use (RTU) license to operate.	Refer to, <a href="#">Right to Use License</a> .
Support Entitlement for the APs and Controllers	To be eligible for software upgrades and support coverage, you must have active support on each of the AP licenses owned by your account.	Refer to, <a href="#">Support Entitlement for the APs and Controllers</a> .
AP/Switch Capacity	For access points and switches to be managed by the controller, each unit requires a license.	Refer to, <a href="#">AP/Switch Capacity</a> .
Feature Licenses	SmartZone controllers offer a variety of features that can be enabled through the activation of specific licenses.	Refer to, <a href="#">Feature Licenses</a> .
Tunnel and Data Plane Licenses	Like the support licenses for APs and controllers, each virtual data plane (vSZ-D) instance requires a support license.	Refer to, <a href="#">Tunnel and Data Plane Licenses</a> .

Parent topic: [About This Guide](#)

## 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.

**Parent topic:** [About This Guide](#)

# Activating and Registering Your Purchases

## Trial License

### Activating a License

### Support Entitlement for the APs and Controllers

### Support Requirement

## 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 1.** 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>

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>

Parent topic: [Activating and Registering Your Purchases](#)

## Right to Use License

The virtual version of SmartZone controllers relies on a right to use (RTU) license to operate.

This requirement is in place to prevent unauthorized usage of the vSZ software. By obtaining an RTU license, RUCKUS ensures that only individuals who have purchased the software can utilize it. These licenses are permanent and can be easily transferred from one vSZ node to a replacement node at any time.

**Figure 1.** Default Trial RTU License in the Licenses Page

						VIEW MODE: <b>List</b> Summary
<a href="#">Sync Now</a> <a href="#">Upload</a> <a href="#">Download</a>						<input type="text" value="search table"/> <a href="#">Q</a> <a href="#">Refresh</a> <a href="#">Settings</a>
Name ▲	Node	Start Date	Expiration Date	Capacity	Description	
CAPACITY-VSZD-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	10	Default vSZ-D Capacity License	
FEATURE-FLEXVPN-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default feature license for Flexi-VPN	
FEATURE-SVCM-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default License for CALEA Mirroring	
FEATURE-SVL3-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default feature license for L3 Roaming	
FEATURE-URL-FILTERING-DE...	Demo-node-1	2024/05/29	2024/08/27	10000	Default feature license for URL Filtering	
INSTANCE-VSCG-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default Instance License for vSZ	
SUPPORT-EU-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default End User Support License for vSZ	
						15 records 1 2

## Trail RTU


Prior to the expiration of the RTU license, the vSZ controller will display a warning banner in the web UI indicating the number of days remaining for the license. Once the license has expired, a corresponding warning banner will appear, stating that to continue using the system, a permanent license must be installed.

Parent topic: [Trial License](#)

## 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:**

**Contact Info:**

New to Ruckus? Get Started: [New Customer](#)

Support Contact: [Contact Us](#)

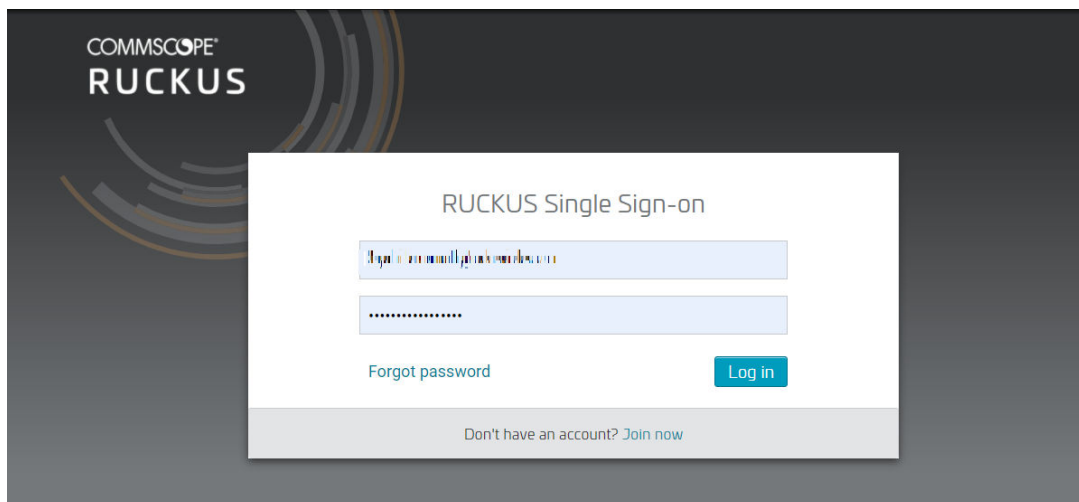
Support Web: <http://support.ruckuswireless.com>

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

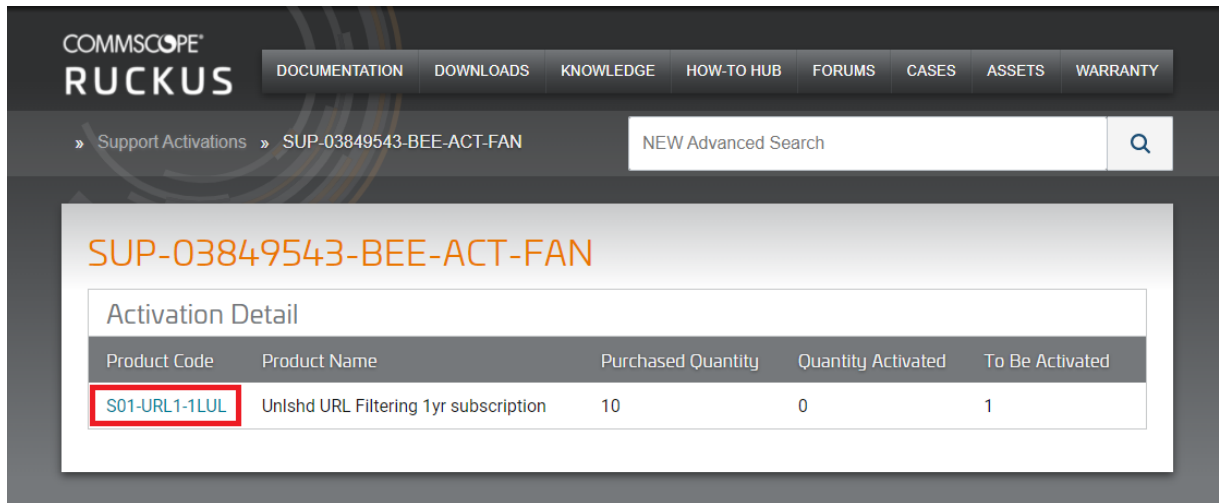
2. Enter your email address and password, and click **Log in**.

**Figure 2.** Logging In to the Support Portal



- Click the license product code to activate the license.

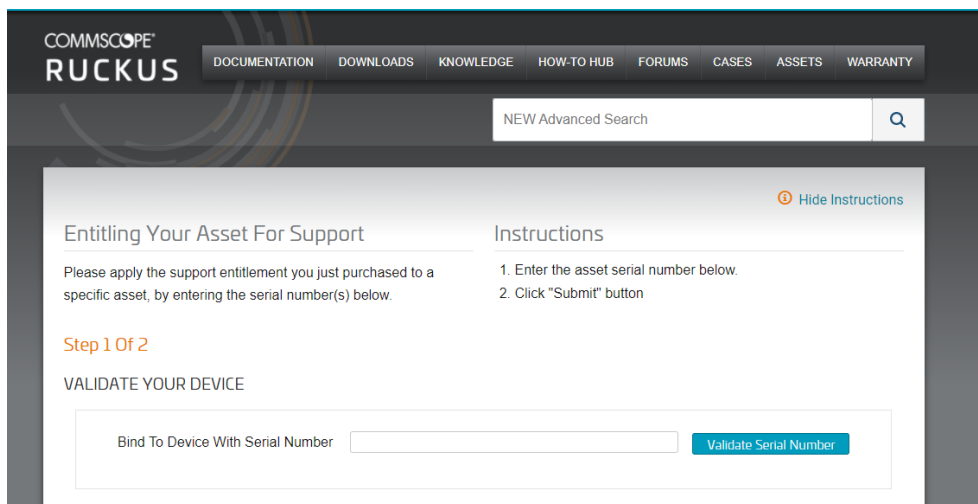
**Figure 3.** Activating a License



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

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

**Figure 4.** Validating Your Device



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

**Figure 5.** Registering Your Device

**Entitling Your Asset For Support**

Please apply the support entitlement you just purchased to a specific asset, by entering the serial number(s) below.

**Step 2 of 2**

**REGISTER YOUR DEVICE**

- Select Device Model.
- Click "Register Device & Bind To Support" button.
- Once registered, your support will be bound to this device.

Please Select Device Model  or

Serial Number: un4521290015181640072035005

Your license information is displayed and the license is activated.

**Figure 6.** Displaying License Information

Serial #: un4521290015181640072035005

Product Name: UNLSD R550 WW 11AX AP 2x22  
 Product Type: [Access Points](#)  
 Support Information: See below  
 Warranty Info: [Click here for details.](#)

Tags:  
 Account Owner: RUCKUS NETWORKS INC  
 End User: RUCKUS NETWORKS INC  
 VAR:  
 Distributor:

**Licenses**

Name	AP Count	Action	
Support Entitlements			
Product Code	Type	Start Date	End Date
S01-URL1-1LUL	End User (No AR)	2022-03-01	2023-03-01

6. Your license is activated.

Parent topic: [Activating and Registering Your Purchases](#)

## Support Entitlement for the APs and Controllers

To be eligible for software upgrades and support coverage, you must have active support on each of the AP licenses owned by your account, as well as one support license for each of the nodes in the controller you want to upgrade or receive support.

This requirement ensures that you have access to the full range of assistance and troubleshooting from the RUCKUS support team, and to upgrade your RUCKUS SmartZone to the latest versions, ensuring consistent availability for accessing the latest features and security updates.

**Figure 1.** Checking the Support License for the Controller

VIEW MODE: **List** Summary

Sync Now Upload Download

search table

Name	Node	Start Date	Expiration Date	Capacity	Description
CAPACITY-VSZD-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	10	Default vSZ-D Capacity License
FEATURE-FLEXIVPN-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default feature license for Flexi-VPN
FEATURE-SVCM-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default License for CALEA Mirroring
FEATURE-SVL3-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default feature license for L3 Roaming
FEATURE-URL-FILTERING-DE...	Demo-node-1	2024/05/29	2024/08/27	10000	Default feature license for URL Filtering
INSTANCE-VSCG-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default Instance License for vSZ
SUPPORT-EU-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default End User Support License for vSZ

15 records

When checking the support on the AP licenses, navigate to **Administration > Licenses > Installed Licenses**, using the **Summary** view mode, locate the AP support license validation status. If the status shows as invalid, it means that less than 90% of the existing AP for this customer account, don't have an active support contract.

**Figure 2.** Checking the Support for the AP Licenses

VIEW MODE: List **Summary**

Sync Now Upload Download

search table

License Type	Total	Consumed	Available
AP Capacity License	6	3 (50%)	3 (50%)
Data Plane DHCP Capacity License	1	1 (100%)	0 (0%)
Data Plane NAT Capacity License	1	1 (100%)	0 (0%)
AP Direct Tunnel license	5	0 (0%)	5 (100%)
AP Split Tunnel Capacity License	5	1 (20%)	4 (80%)
Switch Capacity License	6	0 (0%)	6 (100%)
URL Filtering Capacity License	10000	3 (0.03%)	9997 (99.97%)
Data Plane Capacity License	10	1 (10%)	9 (90%)

8 records

License Type	Status	Expiration Date
AP Support License	Invalid	N/A

1 records

Parent topic: [Activating and Registering Your Purchases](#)

## 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 1.** 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-

SmartZone Type	Support SKU
	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 2.** 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

SmartZone Type	Support SKU
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.

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 3. 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 4. 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

Parent topic: [Activating and Registering Your Purchases](#)

# Managing Licenses

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[AP/Switch Capacity](#)

[Feature Licenses](#)

[Tunnel and Data Plane Licenses](#)

[License Requirements for Software Upgrades](#)

[Licensing Server Firewall Port Information](#)

[License Requirements to Manage Access Points and Switches](#)

[License Functionality on SmartZone Clusters](#)

[Capacity and Licenses](#)

[Configuring the License Server](#)

[Configuring License Bandwidth](#)

[Configuring URL Filtering Licenses](#)

## AP/Switch Capacity

For access points and switches to be managed by the controller, each unit requires a license.

It is important to assign the necessary capacity licenses to the controller before attempting to onboard AP and switch devices. Failure to do so may result in the devices being unable to complete the onboarding process due to a lack of licenses. These licenses do not expire, but in certain situations, RUCKUS may provide temporary trial licenses. Once the trial licenses expire, the managed devices will no longer be managed by the controller.

## Built-in Licenses

Starting with SmartZone release 6.1.0, the SZ144 platform supports 25 permanent AP management licenses and one permanent switch license that does not require renewal. These licenses are separate from the SZ144 support license compliance calculation and cannot be transferred to other platforms. Please note that the SZ144 does not come with any default temporary AP licenses.

To access the 25 permanent AP licenses and 1 permanent switch license, it is necessary to upgrade earlier versions of SZ144 to SmartZone release 6.1.0 or a later version. After the upgrade, the default licenses for switch will be reset to 1 and 25 for APs.

**Note:** Purchasing support for the SZ144 appliance will also cover the support for the 25 built-in AP licenses.

Starting with SmartZone release 6.1.0, the virtual instances offer 1 permanent AP license and 1 permanent switch license by default.

**Figure 1.** Built-In AP and Switch Capacity Licenses for virtual SmartZone

Name	Node	Start Date	Expiration Date	Capacity	Description
CAPACITY-AP-BUNDLED	Demo-node-1	Permanent		1	Default AP Capacity License for vSZ
CAPACITY-AP-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default AP Capacity License for vSZ
CAPACITY-DP-SNAT-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default NAT License for Data Plane. 1 license support 100k NAT Sessions
CAPACITY-DP-SVDS-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default DHCP License for Data Plane. 1 license support 1k DHCP IP address Leases
CAPACITY-RXGW-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default AP Direct Tunnel License for vSZ
CAPACITY-SPTN-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default AP Split Tunnel Capacity License for vSZ
CAPACITY-SWITCH-BUNDLED	Demo-node-1	Permanent		1	Default Switch Capacity License for vSZ
CAPACITY-SWITCH-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default Switch Capacity License for vSZ

## High Availability Licenses

These are AP and switch capacity licenses exclusively for standby clusters in Active-Standby cluster redundancy mode. HA capacity licenses cannot be used in the active cluster, and regular AP/Switch capacity licenses cannot be used in the Standby cluster. Refer to the Active-Standby cluster redundancy mode on page XX for more information about HA licenses.

Parent topic: [Managing Licenses](#)

## Feature Licenses

SmartZone controllers offer a variety of features that can be enabled through the activation of specific licenses.

### CALEA

The Communications Assistance for Law Enforcement Act (CALEA) is a statute enacted by the US Congress in 1994. It requires that telecommunications carriers and manufacturers of telecommunications equipment design their equipment, facilities, and services to ensure they have the necessary surveillance capabilities to comply with legal requests for information. Essentially, CALEA facilitates lawful electronic surveillance by law enforcement agencies, allowing them to intercept communications with a warrant.

By default, you get one CALEA trial license for 90 days (about 3 months). Beyond 90 days, purchase the permanent license.

**Figure 1.** Default Trial CALEA License in the Licenses Page

VIEW MODE: <b>List</b> Summary					
Sync Now	Upload	Download	search table		
Name	Node	Start Date	Expiration Date	Capacity	Description
CAPACITY-VSZD-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	10	Default vSZ-D Capacity License
FEATURE-FLEXIVPN-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default feature license for Flexi-VPN
FEATURE-SVCM-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default License for CALEA Mirroring
FEATURE-SVL3-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default feature license for L3 Roaming
FEATURE-URL-FILTERING-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	10000	Default feature license for URL Filtering
INSTANCE-VSCG-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default Instance License for vSZ
SUPPORT-EU-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default End User Support License for vSZ
15 records < 1 2 >					

## RUCKUS AI

RUCKUS AI does not require an RTU license or subscription packages. Onboarding SmartZone with RUCKUS AI does not require any additional licenses. However, device licenses are required so that RUCKUS AI can gather information from them. Only APs or switches with a RUCKUS AI license will provide information for analytics.

Parent topic: [Managing Licenses](#)

## Tunnel and Data Plane Licenses

### Support for Data Plane

Like the support licenses for APs and controllers, each virtual data plane (vSZ-D) instance requires a support license. This license will enable the vSZ-D for software upgrades and support.

### Data Plane Capacity License

Onboarding the RUCKUS external data plane (vSZ-D) to work along with the SmartZone controllers require one license per data plane. By default, you get 10 data plane capacity licenses for three months. Once expired, the data plane instances will enter an error state until the permanent licenses are purchased and activated.

**Figure 1.** Default vSZ-D Capacity License

VIEW MODE: <b>List</b> Summary					
Sync Now	Upload	Download	search table		
Name	Node	Start Date	Expiration Date	Capacity	Description
CAPACITY-VSZD-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	10	Default vSZ-D Capacity License
FEATURE-FLEXIVPN-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default feature license for Flexi-VPN
FEATURE-SVCM-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default License for CALEA Mirroring
FEATURE-SVL3-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default feature license for L3 Roaming
FEATURE-URL-FILTERING-DE...	Demo-node-1	2024/05/29	2024/08/27	10000	Default feature license for URL Filtering
INSTANCE-VSCG-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default Instance License for vSZ
SUPPORT-EU-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default End User Support License for vSZ
15 records < 1 2 >					

## Data Plane DHCP/NAT

DHCP and NAT features can be enabled in the vSZ-D after the licenses have been activated. By default, you get one DP-SNAT and one DHCP license for 90 days (about 3 months). One DP-SNAT license supports 100,000 NAT sessions and one DHCP license supports 1,000 address leases.

**Figure 2.** Default DHCP and NAT Trial Licenses

Name	Node	Start Date	Expiration Date	Capacity	Description
CAPACITY-AP-BUNDLED	Demo-node-1		Permanent	1	Default AP Capacity License for vSZ
CAPACITY-AP-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default AP Capacity License for vSZ
CAPACITY-DP-SNAT-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default NAT License for Data Plane. 1 license support 100k NAT Sessions
CAPACITY-DP-SVDS-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default DHCP License for Data Plane. 1 license support 1k DHCP IP address Leases
CAPACITY-RXGW-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default AP Direct Tunnel License for vSZ
CAPACITY-SPTN-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default AP Split Tunnel Capacity License for vSZ
CAPACITY-SWITCH-BUNDLED	Demo-node-1		Permanent	1	Default Switch Capacity License for vSZ
CAPACITY-SWITCH-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default Switch Capacity License for vSZ

Data plane DHCP and NAT licenses should be assigned to the data plane instances that require the service. Only DP instances with an assigned license can serve the feature.

To assign the required DP with a license for DHCP or NAT, navigate to **Administration > Licenses > DP DHCP/NAT Licenses Assignment**. Use the option **Create** to bind the available licenses to the desired DP instances.

- Note:** The **Create** button is grayed-out when no licenses are available to assign and only one DHCP license can be assigned to a maximum of two data plane instances that belong to the same DP group. NAT licenses can only be assigned to one DP instance.

**Figure 3.** Data Plane DHCP/NAT Licenses Assignment Page

DHCP License (Total: 1 / Consumed: 0 / Available: 1)				
Data Plane	License Count	IP Leases	Description	
				No data

NAT License (Total: 1 / Consumed: 0 / Available: 1)			
Data Plane	License Count	NAT Sessions/Flows	Description
			No data

Using the **Wizard** option either for DHCP or NAT services, will guide you through not only assigning the licenses to a DP instance but will also require you to configure a DHCP or NAT profile. Refer to the RUCKUS SmartZone Network Administration Guide for comprehensive instructions related to creating DHCP and NAT profiles.

**Figure 4.** DataPlane NAT Wizard

**DP NAT Wizard**

Data Planes → Service Profile → License → **Review**

Data Plane: DemovSZ-D  
 NAT Profile: NAT demo  
 License Count: 1  
 NAT Sessions/Flows: 100000

Back OK Cancel

## DP Bandwidth

This license increases the link bandwidth for the vSZ-D. You can assign a bandwidth license to an approved data plane. Each data plane can be configured with only one bandwidth license. It is important to note that configuring a bandwidth license is applicable only to virtual platforms.

By default, you get 10 vSZ-D licenses for 90 days (about 3 months). Beyond 90 days, you need to purchase a permanent DP Bandwidth license. The available licenses for data plane bandwidth are:

- **1 Gbps** - The default throughput capacity of the vSZ-D instance.
- **10 Gbps** - Upgrade to this option for a maximum throughput in the uplink of 10 Gbps.
- **Unlimited** - This add-on license includes unlimited throughput capacity in the uplink of the data plane.

## Flexi-VPN

By choosing the network peers towards which APs can form the VPN tunnels, Flexi-VPN allows you to customize the network topology and is thereby able to control the network resources accessible to the end-user. This feature is only supported on vSZ-E and vSZ-H and is enabled by purchasing the Flexi-VPN license.

By default, you get one Flexi-VPN trial license for 90 days (about 3 months). Beyond 90 days, purchase the permanent license to enable the feature in all access points as required.

- **Note:** Flexi-VPN is activated when a Flexi-VPN profile is assigned to a WLAN. A minimum of two data planes should be present for this feature to function.

## L3 Roaming

L3 roaming is a beneficial capability for expansive WLAN networks that have APs divided into distinct VLAN segments. It is particularly useful when there is a requirement to maintain IP addresses and potentially sustain ongoing sessions. The most prevalent situations where L3 roaming is deployed are in large campus networks that are designed with multiple switches and VLANs.

By default, you get one L3 Roaming license for 90 days (about 3 months). Beyond 90 days, purchase the permanent license.

## RUCKUS GRE Tunnel

Access points will regularly form and maintain the RUCKUS GRE tunnel towards the active data plane. By default, the controller grants a 90-day trial license for 100,000 APs. After this period, purchase the required amount of AP tunnel licenses equivalent to one license per AP.

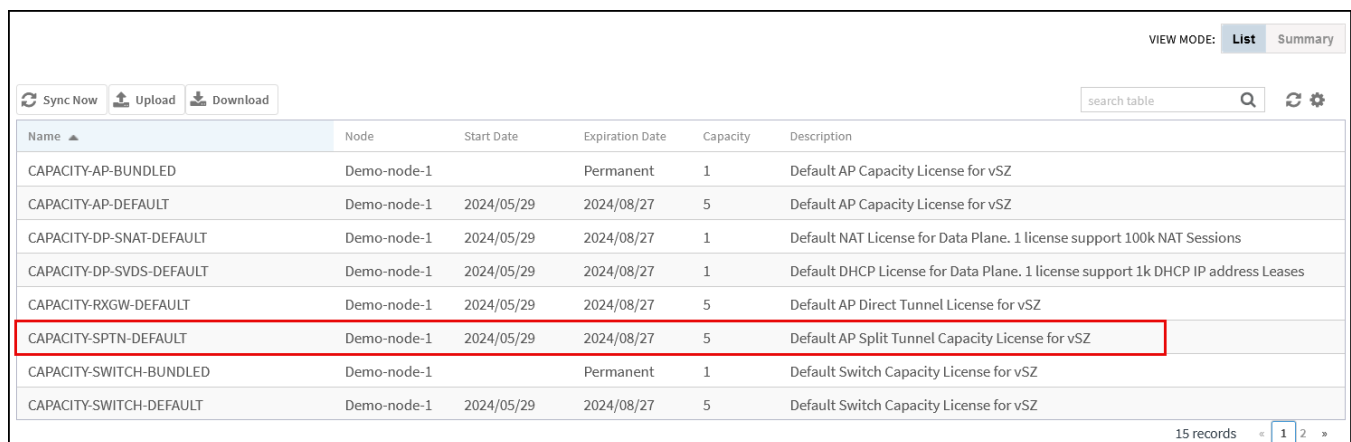
## Soft GRE Tunnel

Enables the AP to form a GRE tunnel to a 3rd party data plane. Each license provides one tunnel capacity per AP.

## Split Tunnel

The split tunnel feature enables the access point to manage corporate and local traffic separately, by sending only corporate traffic to the controller and keeping the local traffic from traveling on the WAN link which minimizes latency for local application traffic. By default, you get 5 90-day trial split tunnel licenses when deploying the controller. Purchase one split tunnel license per AP using the feature.

**Figure 5.** Default Trial Split Tunnel Licenses



Name	Node	Start Date	Expiration Date	Capacity	Description
CAPACITY-AP-BUNDLED	Demo-node-1		Permanent	1	Default AP Capacity License for vSZ
CAPACITY-AP-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default AP Capacity License for vSZ
CAPACITY-DP-SNAT-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default NAT License for Data Plane. 1 license support 100k NAT Sessions
CAPACITY-DP-SVDS-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	1	Default DHCP License for Data Plane. 1 license support 1k DHCP IP address Leases
CAPACITY-RXGW-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default AP Direct Tunnel License for vSZ
CAPACITY-SPTN-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default AP Split Tunnel Capacity License for vSZ
CAPACITY-SWITCH-BUNDLED	Demo-node-1		Permanent	1	Default Switch Capacity License for vSZ
CAPACITY-SWITCH-DEFAULT	Demo-node-1	2024/05/29	2024/08/27	5	Default Switch Capacity License for vSZ

Parent topic: [Managing Licenses](#)

## License Requirements for Software Upgrades

When upgrading the controller's software, it is important to consider the license requirements. This includes the Right to Use (RTU) instance license and support on the RTU. Additionally, for vSZ software upgrades, support on

AP capacity licenses is necessary. It is crucial to have these licenses in place to ensure a smooth and successful software upgrade process for both SZ and vSZ controllers.

## 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**.
2. Select the **Installed Licenses** tab.  
The tab displays the following options:
  - a. **Sync Now:** Provide manual license sync button and sync status. Refer to [Synchronizing the Controller with the License Server](#).
  - b. **Upload:** Uploads the binary license data file. Refer to [Importing Installed Licenses](#).
  - c. **Download:** Downloads the binary license data file. Refer to [Downloading License Files](#).
  - d. **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 1.** Installed Licenses: List View

Installed Licenses   License Servers   URL Filtering Licenses

VIEW MODE: 

List

Summary

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:

2022-09-14 05:48:12

e. **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.

View Mode: **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

search table

License Type ▲	Status	Expiration Date
AP Support License	Valid	2029/03/08

1 records

Parent topic: [Managing Licenses](#)

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

**Figure 1.** Synchronizing the Controller with the License Server

Installed Licenses   License Servers   URL Filtering Licenses					
<div> <span>Sync Now</span> <span>Upload</span> <span>Download</span> </div>					
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
<div> Last Sync: 2022-09-23 12:35:00 </div>					

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.

Parent topic: [License Requirements for Software Upgrades](#)

## 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.

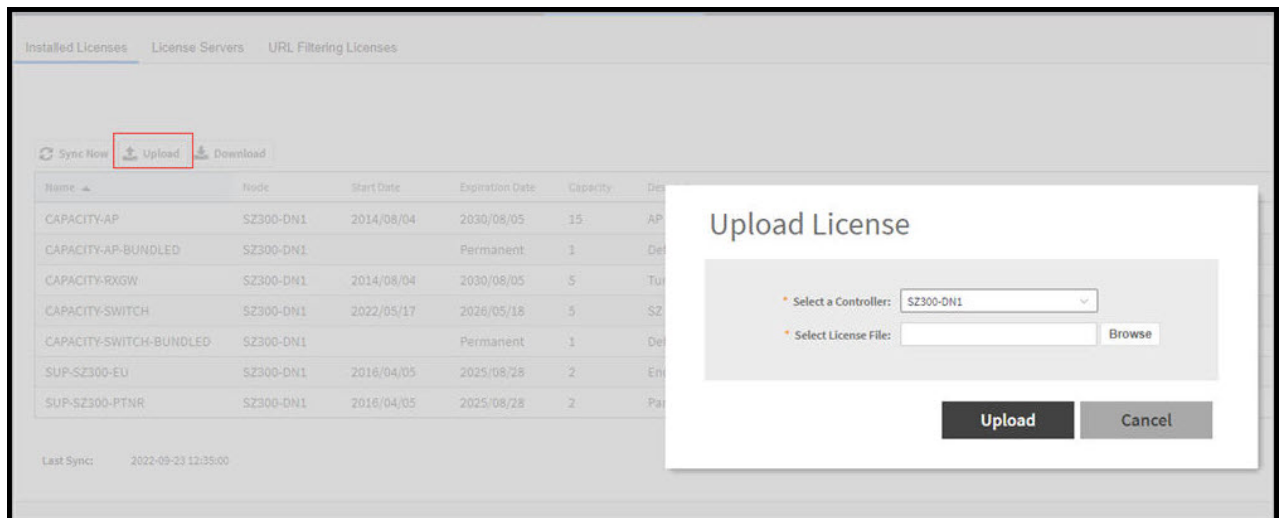
The **Upload** option allows you to upload a license file into the controller. Because this option is available only when you choose to connect with the Cloud License Server, the **Installed Licenses** tab will be unavailable or will not appear on the user interface if you want to connect with the local 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.

1. 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).
2. Log in to the controller web interface, and select **Administration > Administration > Licenses**.
3. 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 1.** Importing Licenses



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


**Parent topic:** [License Requirements for Software Upgrades](#)

## 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 Licensed** 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.

Parent topic: [License Requirements for Software Upgrades](#)

## 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>

Parent topic: [Managing Licenses](#)

## License Requirements to Manage Access Points and Switches

There are certain licenses required for the SmartZone controller to operate network-managed equipment, including capacity licenses for onboarding the AP and switch devices and support licenses for entitling software upgrades and support services.

Parent topic: [Managing Licenses](#)

# License Functionality on SmartZone Clusters

When multiple standalone controller nodes join a cluster, the licenses they possess (such as AP/SW capacity, data plane, and feature licenses) are shared among the cluster members.

Even if a node goes offline due to technical issues or network disconnection, the licenses associated with that node remain accessible to the cluster for the next 45 days.

- **Note:** Even if a node goes offline, it must remain part of the cluster. Deleting a node from the cluster will result in the licenses associated with that node becoming unavailable to the cluster. Therefore, it is important to keep the offline node in the cluster.

RTU and support licenses are not shared among the nodes. Each node in the cluster must have its own RTU license and support license.

## Cluster Redundancy

When there are multiple clusters on the network, you have the option to configure cluster redundancy. This allows APs managed by one cluster to automatically fail over to another cluster if the parent cluster becomes unavailable. There are two different modes for configuring cluster redundancy, and the rules for license availability vary depending on the mode selected.

### Active-Standby Mode

When an active cluster becomes inaccessible for APs, external DPs (vSZ-D and SZ100-D), and ICX switches, a standby cluster restores the latest configuration of the out-of-service (OOS) active cluster, then takes over all external devices (including APs, external DPs, and ICX switches). The AP or ICX switch capacity is limited by the AP or ICX switch High Availability (HA) licenses on the standby cluster and the services license limits from the failed active cluster. When the active cluster returns to the in-service state, the end user can "rehome" all APs, external DPs, and ICX switches back to the active cluster.

Active-Standby mode offers the following deployment types:

- **One-to-one** - One active cluster to one standby cluster. The standby cluster is always in backup mode and ready to receive the APs, external DPs, and ICX switches from the out-of-service active cluster.
- **Many-to-one** - Two or three active clusters to one standby cluster. The standby cluster can only take over the services from one cluster at a time.

### Active-Active Mode

When there are multiple clusters, one cluster can be the configuration source cluster, and all other active clusters restore its configuration periodically to make sure the configuration between the clusters is synchronized constantly. When the active cluster becomes inaccessible for APs and external DPs (vSZ-D and SZ100-D), they fail over to the target active cluster with priority.

In the event of a failover, the cluster that temporarily hosts the APs must have sufficient capacity and feature licenses to accommodate the additional demand.

Refer to the RUCKUS SmartZone Controller Administration Guide for deeper insights on how cluster redundancy works and how to configure it.

Parent topic: [Managing Licenses](#)

## 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).

Parent topic: [Managing Licenses](#)

## Configuring the License Server

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

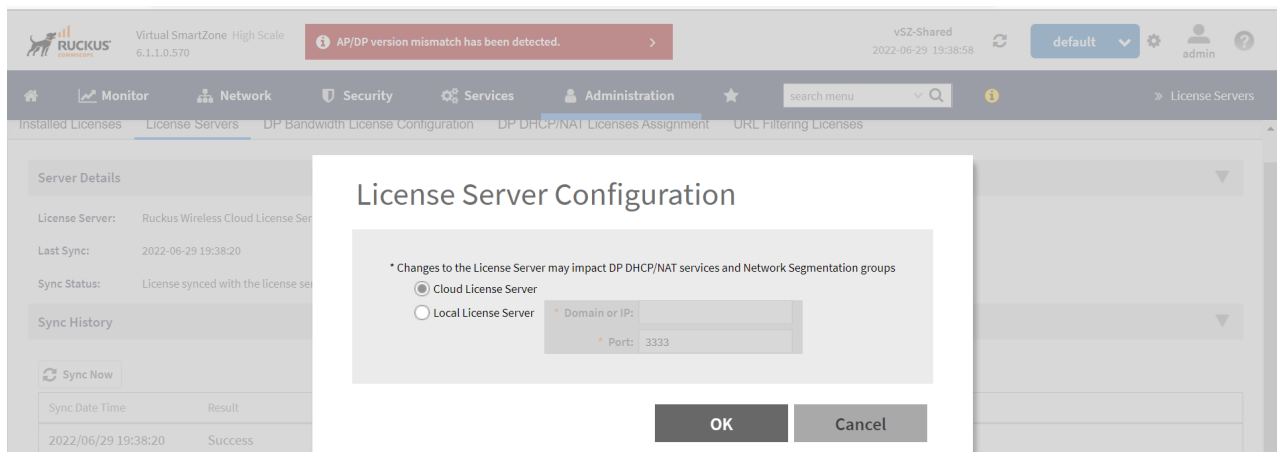
The Cloud License Server, also known as the SmartLicense Server, is a cloud-based server that stores all of the licenses and support entitlements that you have purchased for the controller.

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.

Parent topic: [Managing Licenses](#)

## 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**.

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

**Figure 1.** 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.


Parent topic: [Managing Licenses](#)

## 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.

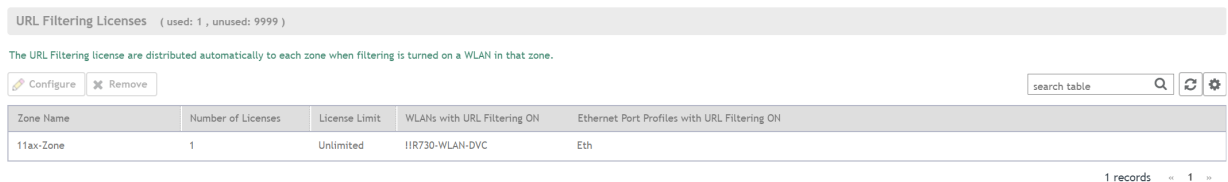
You can configure the number of URL filtering licenses on an AP within a Zone. You can both limit the number of URL filtering licenses per Zone, and also configure the AP to have an unlimited number of licenses..

- 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 1.** 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	11R730-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.

**Parent topic:** [Managing Licenses](#)



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