

# Juniper Agile Licensing Guide

Published  
2021-11-23

Juniper Networks, Inc.  
1133 Innovation Way  
Sunnyvale, California 94089  
USA  
408-745-2000  
[www.juniper.net](http://www.juniper.net)

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*Juniper Agile Licensing Guide*

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# Table of Contents

About This Guide | iv

1

## Juniper Agile Licensing Overview

Juniper Agile Licensing Overview | 2

Juniper Agile Licensing Overview | 2

Juniper Agile Licensing Workflow for Procuring and Managing Licenses | 4

Juniper Agile License Management | 6

Juniper Agile License Management | 6

2

## Activate and Deploy Software Entitlements

Activating and Deploying Software Entitlements | 10

3

## Configure Licenses

Install and Manage License | 12

Configuring Licenses on vMX Virtual Routers | 13

Managing vMX Licenses | 13

Adding a License | 14

Deleting a License | 15

Managing cRPD Licenses | 17

Managing cSRX Licenses | 18

Managing vSRX Licenses Using Standalone Mode | 21

Managing QFX5220-32CD, QFX5220-128C, PTX10003-80C, and PTX10003-160C Devices  
License | 24

# About This Guide

Juniper Networks introduced the Juniper Agile Licensing Portal to install and manage licenses for hardware and software features. Juniper Agile Licensing is the new and improved license management system to simplify the license management in a network.

# 1

CHAPTER

## Juniper Agile Licensing Overview

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[Juniper Agile Licensing Overview | 2](#)

[Juniper Agile License Management | 6](#)

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# Juniper Agile Licensing Overview

## SUMMARY

Learn about Juniper Agile Licensing, an improved license management system to activate, install, manage, and monitor licenses on Juniper Networks devices.

## IN THIS SECTION

- [Juniper Agile Licensing Overview | 2](#)
- [Juniper Agile Licensing Workflow for Procuring and Managing Licenses | 4](#)

## Juniper Agile Licensing Overview

### IN THIS SECTION

- [Benefits of Juniper Agile Licensing | 2](#)
- [Understand Juniper Agile Licensing | 3](#)
- [Components of Juniper Agile Licensing | 3](#)

## Benefits of Juniper Agile Licensing

- Provides an intuitive user experience and simplified operational processes.
- Provides seamless lifecycle management of licenses.
- Offers flexible license administration and deployment.
- Enables monitoring of software usage through centralized administrator and reporting.
- Allows users to proactively adjust usage based on real-time reporting.
- Provides consistent license management workflow for all Juniper products.

## Understand Juniper Agile Licensing

Juniper Networks introduced the Juniper Agile Licensing solution to provide an efficient way for customers and partners to manage licenses for hardware and software features. To use a licensed feature, you need to purchase and activate a license that corresponds to that feature and deploy that license so that it can be utilized by the software during normal operation. You can administer and manage the licenses through the [Juniper Agile Licensing Portal](#). The portal provides an intuitive task-based user interface that provides full lifecycle management of licenses.

Juniper Agile Licensing ensures that features are used in compliance with Juniper's End User License Agreement. There are currently two main modes for deploying licenses:

- Standalone mode allows you to activate a license on a single hardware device or software instance. Such a license can only be used by the instance on which it is activated. Sharing a license with multiple instances is not permissible.

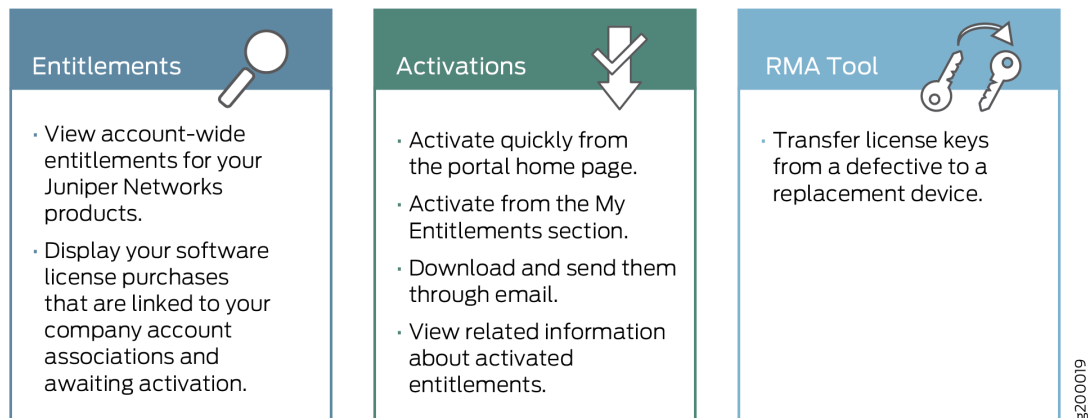
Support for each deployment mode varies by product. Both deployment modes enable efficient management of both subscription and perpetual licenses and may enable combinations of features and capacity depending on the specific license purchased.

## Components of Juniper Agile Licensing

### 1. Juniper Agile Licensing Portal

The Juniper Agile Licensing Portal provides the features shown in [Figure 1 on page 3](#).

**Figure 1: Juniper Agile Licensing Portal Features**



You use the [Juniper Agile Licensing Portal](#) to activate and deliver the required license keys for products you have purchased.

Depending on the type of license, the fulfillment e-mail you receive from Juniper after purchase of a license indicates whether your device can be used without installing license keys. If you need to install license keys, you can view and activate the purchased entitlements in the Agile Licensing Portal.

**NOTE:** In some cases, the fulfillment e-mail might include a license key, in which case it is not necessary to manage the entitlement through the Agile Licensing Portal.

## 2. Juniper Entitlement Management System

The Juniper Agile Entitlement Management System is a repository of all your entitlements. It simplifies the licensing life cycle by providing a centralized license management interface that you can access using the Agile Licensing Portal.

# Juniper Agile Licensing Workflow for Procuring and Managing Licenses

## IN THIS SECTION

- [Procuring and Managing Licenses | 4](#)

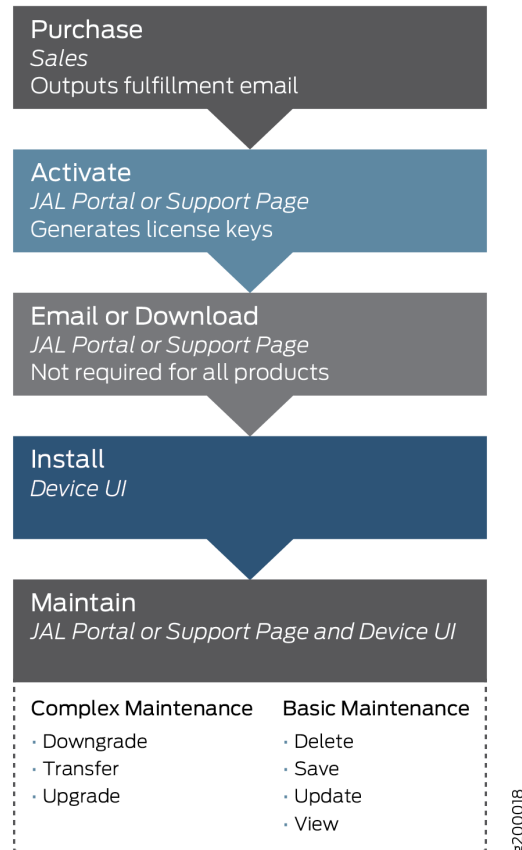
## Procuring and Managing Licenses

For procuring and managing licenses, Juniper Agile Licensing comprises the following phases:



The phases of the licensing life cycle are shown in [Figure 2 on page 5](#).

**Figure 2: Licensing Phases**



## Purchase Licenses from Juniper Networks

Licenses to use Juniper software are purchased through Juniper's standard sales order process. After meeting with your Sales Representative or Juniper Partner, submit a sales order to Juniper. License sales order lines will send you an e-mail that includes your activation code and Software Support Reference Number (SSRN) relating to your entitlements. The system creates entitlements associated with your user account (e-mail ID) that you can subsequently manage through the Juniper Agile Licensing Portal.

Depending on the type of license, access the Agile Licensing Portal to activate license keys or send the keys by e-mail to yourself.

**NOTE:** Keep a record of your SSRN, which is used as a proof of purchase and for support entitlement purposes.

### Manage Entitlements using the Agile Licensing Portal

You use the information from the fulfillment e-mail to activate your entitlements. This process generates software license activation keys (license keys) that you can install on devices directly, or automatically synchronize to previously installed licenses.

**NOTE:** Some software licenses can be only activated, and do not generate or require a license activation key to be installed on the device. Refer to the fulfillment e-mail that you receive after purchase for this information.

## Juniper Agile License Management

### IN THIS SECTION

- [Juniper Agile License Management | 6](#)

## Juniper Agile License Management

### IN THIS SECTION

- [Licensing Models | 7](#)

[Table 1 on page 7](#) lists licensing tasks and links to procedures where you can perform those tasks. Complex tasks require you to use both the Juniper Agile Licensing portal (or Support page) and a user interface to the device.

**Table 1: Licensing Tasks Used to Manage Your Licenses**

Licensing Task	Link
View entitlements, activate products to generate licenses, and mail or download licenses.  (Juniper Agile Licensing Portal or Support page)	<a href="#">Manage Product Licenses</a> (select product to launch Juniper Agile Licensing Portal or Support page)
Install license keys on a device.	<a href="#">Adding a License</a>
Delete license keys on a device.	<a href="#">Deleting a License</a>

## Licensing Models

Juniper Agile Licensing supports two models described in [Table 2 on page 7](#).

**Table 2: Juniper Agile Licensing Models**

Licensing Model	Description
Subscription	Prepaid, term-based licenses that enable the right to use for a fixed duration. At the end of the subscription period, customers must renew the subscription or the license is deemed out of compliance.
Perpetual	Prepaid licenses that are activated in perpetuity for the life of the product or device.

Juniper Agile Licensing supports the license types described in [Table 3 on page 8](#). Unless otherwise stated, license types apply to Juniper Networks customers and potential customers.

**Table 3: Types of Juniper Agile Licenses**

License Type	Purpose	Term
Production	Use in a production environment	Perpetual: In perpetuity Subscription: 1 or 3 years or 5 years
Trial	Marketing of Juniper Networks products	90 days

# 2

CHAPTER

## Activate and Deploy Software Entitlements

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Activating and Deploying Software Entitlements | 10

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# Activating and Deploying Software Entitlements

To activate and deploy your software entitlements, perform the following steps:

1. Log in to the [Juniper Agile Licensing Portal](#).
2. Navigate to the **My Entitlements** section on the landing page.
3. Click the **Activate**.
4. In the Product Activation screen, select the Software Version and the quantity to activate. You can add any useful information in the Notes field. Click **Activate**.

When the activation is complete, the following screen is displayed:

5. Click **Activate**. Once complete, the screen will display as shown below:

The screenshot shows the Juniper Agile Licensing Portal interface. At the top left is the Juniper Networks logo. To the right are links for 'Licensing Home', 'Original LMS', 'Portal FAQ', and a user greeting 'Welcome, MARK JORDAN'. Below the header, there's a section with 'Company:', 'Activation Code:', and 'Entitlement Expiration: N/A'. The main heading is 'Activation Complete'. Below this is a table with three columns: 'Product Name', 'Activated', and 'Expiry Date'. The table contains one row for 'VBNG-PREF-10K' with '100' activated and 'N/A' expiry date. At the bottom right is a blue button labeled 'I'm Done'.

Product Name	Activated	Expiry Date
VBNG-PREF-10K	100	N/A

# 3

CHAPTER

## Configure Licenses

---

[Install and Manage License](#) | 12

---

# Install and Manage License

## IN THIS SECTION

- [Configuring Licenses on vMX Virtual Routers | 13](#)
- [Managing vMX Licenses | 13](#)
- [Managing cRPD Licenses | 17](#)
- [Managing cSRX Licenses | 18](#)
- [Managing vSRX Licenses Using Standalone Mode | 21](#)
- [Managing QFX5220-32CD, QFX5220-128C, PTX10003-80C, and PTX10003-160C Devices License | 24](#)

**NOTE:** After you install or delete a license, system might take up to one minute to synchronize license between master and backup. You must allow one minute interval before performing any actions such as switchover or reboot.

Junos OS generates alarms for capacity (scale) features such as bandwidth to indicate the license requirement if the feature usage on a device exceeds the installed license. The alarm detail shows the current feature usage information.

You can see the list of alarms at [System Log Explorer](#).

For example, see the below scenarios where alarms are generated for license requirement:

- Scenario 1

If a device is configured with a 100G bandwidth license and current usage is 200G bandwidth, the Junos OS generates an alarm as the bandwidth usage exceeded the installed license.

The alarm specifies that the current usage of 200G bandwidth requires a license.

- Scenario 2

If a device is configured with a 128K RIB license and uses 130K RIB, the Junos OS generates an alarm as the RIB feature scale exceeded the installed licenses.

The alarm specifies 130K RIB requires a license.



## Configuring Licenses on vMX Virtual Routers

Configure the licenses that are available in your Juniper Agile License portal.

1. Log in to the vMX device and enter configuration mode.
2. Set the chassis license along with the type of license required.

```
# set chassis license scale ?
Possible completions:
  advance          Advance license
  base             Base license
  premium          Premium license
```

3. Set the chassis license bandwidth in Mbps.

```
# set chassis license bandwidth ?
Possible completions:
  <bandwidth>      Configure bandwidth of FPC in Mbps
```

## Managing vMX Licenses

### IN THIS SECTION

- [Adding a License | 14](#)
- [Deleting a License | 15](#)

You must add a license to use vMX features. The licensed features are enforced based on the license you purchased.

Starting in Junos OS Release 17.4 for AWS, you must add a license if you are using vMX in the Bring Your Own License (BYOL) model.

If you upgrade from a BASE package license to an ADVANCE or PREMIUM package license or if you downgrade from an ADVANCE or PREMIUM package license to a BASE package license, you must

restart the routing protocol process (restart routing). If your configuration has logical systems, you must restart the routing protocol process for all logical systems (restart routing logical-system *logical-system-name*).

If you need to move your vMX installation to another host, you must remove vMX from the current host before installing vMX and adding the license on the new host.

## Adding a License

To add a license key to the vMX:

1. Copy the license activation key file to the VCP and add the license key by specifying the filename.

```
user@vmx> request system license add filename
```

Or, you can copy and paste the license activation key directly to add the license key. For example:

```
user@vmx> request system license add terminal
XXXXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX
          XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX
          XXXXXX XXXXXX
```

Starting from Junos OS Evolved Release 21.2R2, you can view additional information field as follows.

```
user@vmx> request system license add terminal
XXXXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX
          XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX
          XXXXXX XXXXXX

information: XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX: Ignoring the license for feature id:
272(License for activating IP Tunnels scale).This feature is not used by your product.
XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX: successfully added
XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX: successfully added
add license complete (no errors)
```

2. Verify that the license is installed. VMX-BANDWIDTH indicates the licensed bandwidth (in Mbps) and VMX-SCALE indicates the application package. (VMX-SCALE 1 is the BASE package, VMX-SCALE 2 is the ADVANCE package, and VMX-SCALE 3 is the PREMIUM package.) This information

is also listed as Features in the Licenses installed section. For example, this output indicates that the 40G perpetual license for the PREMIUM application package is installed.

```
user@vmx> show system license
```

License usage:

	Licenses used	Licenses installed	Licenses needed	Expiry
Feature name				
scale-subscriber	0	1000	0	permanent
scale-l2tp	0	1000	0	permanent
scale-mobile-ip	0	1000	0	permanent
VMX-BANDWIDTH	40000	40000	0	permanent
VMX-SCALE	3	3	0	permanent

Licenses installed:

License identifier: JUNOS640113

License version: 4

Software Serial Number: XXXXXXX

Customer ID: vMX-Juniper

Features:

vmx-bandwidth-40g - vmx-bandwidth-40g  
permanent

vmx-feature-premium - vmx-feature-premium  
permanent

3. Verify the configured bandwidth for PFE traffic matches the licensed bandwidth (VMX-BANDWIDTH). The current and average bandwidth are also displayed.

```
user@vmx> show pfe statistics traffic bandwidth
```

```
Configured Bandwidth      : 40000000000 bps
Bandwidth                  : 0 bps
Average Bandwidth          : 0 bps
```

## Deleting a License

To delete a vMX license:

1. Display the installed licenses.

```
user@vmx> show system license installed
```

```
License identifier: JUNOS640113
License version: 4
Features:
  vmx-bandwidth-40g - vmx-bandwidth-40g
    permanent
  vmx-feature-premium - vmx-feature-premium
    permanent
```

2. Delete the license.

```
user@vmx> request system license delete license-identifier
```

For example:

```
user@vmx> request system license delete JUNOS640113
```

3. Verify that the license is deleted.

```
user@vmx> show system license
```

```
License usage:
```

	Licenses used	Licenses installed	Licenses needed	Expiry
Feature name				
scale-subscriber	0	1000	0	permanent
scale-l2tp	0	1000	0	permanent
scale-mobile-ip	0	1000	0	permanent

```
Licenses installed: none
```

## Managing cRPD Licenses

You must add a license to use cRPD features. The licensed features are enforced based on the license you purchased.

There are two methods to add license on containerized routing protocol process (cRPD).

### Adding a License to cRPD

#### Method 1:

To add a license key to the cRPD:

1. Copy the license activation key file to the VCP and add the license key by specifying the filename.

```
user@crpd> request system license add filename
```

Or, you can copy and paste the license activation key directly to add the license key. For example:

```
user@crpd> request system license add terminal
XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX
XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX
XXXXXXXX XXXXXXXX
```

2. Verify the installed license.

```
user@crpd> show system license
show system license
License usage:

              Licenses    Licenses    Licenses    Expiry
Feature name      used    installed    needed
containerized-rpd-standard      1          1          0  2020-06-05 23:59:00 UTC

Licenses installed:
License identifier: XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX
License SKU: CRPD-STD
License version: 1
Order Type: commercial
Customer ID: |**CustomerId**|
Features:
  containerized-rpd-standard - Containerized routing protocol daemon with standard features
  date-based, 2019-06-06 00:00:00 UTC - 2020-06-05 23:59:00 UTC
```

**Method 2:**

To add a license key to the cRPD:

1. Copy the license activation key file to the VCP and add the license key by specifying the filename.

```
user@crpd# set system license keys key "XXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
XXXXXXXXX .....XXXXXXXXX XXXXXXXXXX"
```

2. Verify the installed license.

```
user@crpd> show system license
show system license
License usage:

Feature name                Licenses   Licenses   Licenses   Expiry
                        used    installed   needed
containerized-rpd-standard      0          1          0  2020-06-05 23:59:00 UTC
Licenses installed:
License identifier: XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX
License SKU: CRPD-STD
License version: 1
Order Type: commercial
Customer ID: |**CustomerId**|
Features:
  containerized-rpd-standard - Containerized routing protocol daemon with standard features
    date-based, 2019-06-06 00:00:00 UTC - 2020-06-05 23:59:00 UTC
```

## Managing cSRX Licenses

### IN THIS SECTION

- [Add license using a license file | 19](#)
- [Add license using a license key | 20](#)

There are two methods to add license on cSRX.

## Add license using a license file

To add a license file to the cSRX:

1. Copy the license activation key file to the VCP and add the license key by specifying the filename.

```
user@csrx> request system license add filename
```

Or, you can copy and paste the license activation key directly to add the license key. For example:

```
user@csrx> request system license add terminal
XXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
XXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
XXXXXXXX XXXXXXXXXX
```

2. Verify the installed license.

```
user@csrx> show system license
show system license
License usage:
```

Feature name	Licenses used	Licenses installed	Licenses needed	Expiry
anti_spam_key_sbl	0	1	0	2024-12-04 23:59:00 UTC
idp-sig	0	1	0	2024-12-04 23:59:00 UTC
appid-sig	0	1	0	2024-12-04 23:59:00 UTC
av_key_sophos_engine	0	1	0	2024-12-04 23:59:00 UTC
wf_key_websense_ewf	0	1	0	2024-12-04 23:59:00 UTC
cSRX	1	1	0	2024-12-04 23:59:00 UTC

```

Licenses installed:
License identifier: XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX
License SKU: S-CSRX-A2-5
License version: 1
Order Type: commercial
Customer ID: |**CustomerId**|
License count: 1
Features:
  idp-sig          - IDP Signature
                   date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC
  av_key_sophos_engine - Anti Virus with Sophos Engine
                   date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC

```

```

appid-sig          - APPID Signature
                    date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC
cSRX                - Containerized Firewall
                    date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC
anti_spam_key_sb1   - Anti-Spam
                    date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC
wf_key_websense_ewf - Web Filtering EWF
                    date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC

```

## Add license using a license key

To add a license key to the cSRX:

1. Copy the license activation key file to the VCP and add the license key by specifying the filename.

```

user@csrx# set system license keys key "XXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
XXXXXXXXXX .....XXXXXXXXXX XXXXXXXXXX"

```

2. Verify the installed license.

```

user@csrx> show system license
show system license
License usage:

```

Feature name	Licenses used	Licenses installed	Licenses needed	Expiry
anti_spam_key_sb1	0	1	0	2024-12-04 23:59:00 UTC
idp-sig	0	1	0	2024-12-04 23:59:00 UTC
appid-sig	0	1	0	2024-12-04 23:59:00 UTC
av_key_sophos_engine	0	1	0	2024-12-04 23:59:00 UTC
wf_key_websense_ewf	0	1	0	2024-12-04 23:59:00 UTC
cSRX	1	1	0	2024-12-04 23:59:00 UTC

```

License usage:
Licenses installed:
License identifier: XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX
License SKU: S-CSRX-A2-5
License version: 1
Order Type: commercial
Customer ID: |**CustomerId**|
License count: 1
Features:
idp-sig          - IDP Signature

```



```

date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC
av_key_sophos_engine - Anti Virus with Sophos Engine
date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC
appid-sig          - APPID Signature
date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC
cSRX                - Containerized Firewall
date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC
anti_spam_key_sb1 - Anti-Spam
date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC
wf_key_websense_ewf - Web Filtering EWF
date-based, 2019-12-06 00:00:00 UTC - 2024-12-04 23:59:00 UTC

```

## Managing vSRX Licenses Using Standalone Mode

### IN THIS SECTION

- [Add License Using a License File | 21](#)
- [Add License Using a License Key | 23](#)

There are two methods to add licenses on vSRX.

### Add License Using a License File

To add a license file to vSRX:

1. Copy the license activation key file to the Virtual Chassis Port (VCP) and add the license key by specifying the filename.

```
user@vSRX> request system license add filename
```

Or, you can copy and paste the license activation key directly to add the license key. For example:

```

user@vSRX> request system license add terminal
XXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX

```

```
XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXX XXXXXXXXXXXX
```

## 2. Verify the installed license.

```
user@vSRX> show system license
```

License usage:

Feature name	Licenses used	Licenses installed	Licenses needed	Expiry
anti_spam_key_sbl	0	1	0	30 days
idp-sig	0	1	0	30 days
appid-sig	0	1	0	30 days
av_key_sophos_engine	0	1	0	30 days
logical-system	1	3	0	permanent
wf_key_websense_ewf	0	1	0	30 days
Virtual Appliance	1	1	0	59 days
remote-access-ipsec-vpn-client	0	2	0	permanent

Licenses installed:

License identifier: XXXX-XXXX-XXXX-XXXX

License version: 4

Software Serial Number: \$ABC123

Customer ID: |\*\*CustomerId\*\*|

Features:

```
idp-sig          - IDP Signature
count-down, Original validity: 30 days
wf_key_websense_ewf - Web Filtering EWF
count-down, Original validity: 30 days
anti_spam_key_sbl - Anti-Spam
count-down, Original validity: 30 days
appid-sig        - APPID Signature
count-down, Original validity: 30 days
av_key_sophos_engine - Anti Virus with Sophos Engine
count-down, Original validity: 30 days
```

License identifier: XXXX-XXXX-XXXX-XXXX

License version: 4

Software Serial Number: \$ABC123

Customer ID: |\*\*CustomerId\*\*|

Features:

```
Virtual Appliance - Virtual Appliance
count-down, Original validity: 60 days
```

## Add License Using a License Key

To add a license key to vSRX:

1. Copy the license activation key file to the VCP and add the license key by specifying the filename.

```
user@vSRX# set system license keys key "XXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
XXXXXXXX .....XXXXXXXX XXXXXXXXXX"
```

2. Verify the installed license.

```
user@vSRX> show system license
```

License usage:

	Licenses used	Licenses installed	Licenses needed	Expiry
Feature name				
anti_spam_key_sbl	0	1	0	30 days
idp-sig	0	1	0	30 days
appid-sig	0	1	0	30 days
av_key_sophos_engine	0	1	0	30 days
logical-system	1	3	0	permanent
wf_key_websense_ewf	0	1	0	30 days
Virtual Appliance	1	1	0	59 days
remote-access-ipsec-vpn-client	0	2	0	permanent

Licenses installed:

License identifier: XXXX-XXXX-XXXX-XXXX

License version: 4

Software Serial Number: \$ABC123

Customer ID: |\*\*CustomerId\*\*|

Features:

idp-sig - IDP Signature

count-down, Original validity: 30 days

wf\_key\_websense\_ewf - Web Filtering EWF

count-down, Original validity: 30 days

anti\_spam\_key\_sbl - Anti-Spam

count-down, Original validity: 30 days

appid-sig - APPID Signature

count-down, Original validity: 30 days

```
av_key_sophos_engine - Anti Virus with Sophos Engine
count-down, Original validity: 30 days
```

```
License identifier: XXXX-XXXX-XXXX-XXXX
```

```
License version: 4
```

```
Software Serial Number: $ABC123
```

```
Customer ID: |**CustomerId**|
```

```
Features:
```

```
Virtual Appliance - Virtual Appliance
```

```
count-down, Original validity: 60 days
```

## Managing QFX5220-32CD, QFX5220-128C, PTX10003-80C, and PTX10003-160C Devices License

You must add a license to use QFX5220-32CD, QFX5220-128C, PTX10003-80C, and PTX10003-160C devices features. The licensed features are enforced based on the license you purchased.

To manage a license on the QFX5220-32CD, QFX5220-128C, PTX10003-80C, and PTX10003-160C devices, use below methods:

- Using operational command on the device, see ["No Link Title" on page 24](#).

There are two methods to add license on QFX5220-32CD, QFX5220-128C, PTX10003-80C, and PTX10003-160C devices.

### Add license using a license file:

To add a license key to the QFX5220-32CD, QFX5220-128C, PTX10003-80C, and PTX10003-160C devices:

1. Copy the license activation key file to the VCP and add the license key by specifying the filename.

```
user@qfx> request system license add filename
```

Or, you can copy and paste the license activation key directly to add the license key. For example:

```
user@qfx> request system license add terminal
XXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
XXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
XXXXXXXX XXXXXXXXXX
```

## 2. Verify the installed license.

```

user@qfx> show system license
show system license
License usage:

```

Feature name	Licenses used	Licenses installed	Licenses needed	Expiry
esi-lag	0	1	0	permanent
l3static	1	0	1	invalid

```

License installed:
License identifier: XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX
License SKU: DEV-SKU-jnpr
License version: 1
Order Type: commercial
Software Serial Number: xxxxxxxx-xxxx
Customer ID: JUNIPER NETWORKS
License count: 1
Features:
esi-lag      - ESI-LAG
permanent

```

### Add license using a license key:

To add a license key to the QFX5220-32CD, QFX5220-128C, PTX10003-80C, and PTX10003-160C devices:

#### 1. Copy the license activation key file to the VCP and add the license key by specifying the filename.

```

user@qfx# set system license keys key "XXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
XXXXXXXXXXXX .....XXXXXXXXXXXX XXXXXXXXXX"

```

## 2. Verify the installed license.

```

user@qfx> show system license
show system license
License usage:

```

Feature name	Licenses used	Licenses installed	Licenses needed	Expiry
esi-lag	0	1	0	permanent
l3static	1	0	1	invalid

```

Licenses installed:
  License identifier: XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX
  License SKU: DEV-SKU-jnpr
  License version: 1
  Order Type: commercial
  Software Serial Number: xxxxxxxx-xxxx
  Customer ID: JUNIPER NETWORKS
  License count: 1
  Features:
    esi-lag          - ESI-LAG
    permanent

```

For more information on install, save, and delete the license, see [Managing Licenses](#).

#### Release History Table

Release	Description
17.4	Starting in Junos OS Release 17.4 for AWS, you must add a license if you are using vMX in the Bring Your Own License (BYOL) model.