



GigaVUE Licensing Guide

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GigaVUE-FM and GigaVUE-OS Licenses

Gigamon provides a range of software licenses to enable and manage features across its physical and cloud product portfolios. These licenses fall into distinct types, such as GigaVUE-FM, GigaVUE-OS, GigaVUE-OS Module, GigaSMART Application, and Cloud Licenses, each serving a specific function within your deployment.

To help you deploy and manage these licenses effectively, Gigamon licenses are categorized based on two key dimensions:

- License Binding Model – Defines how a license is tied within your environment, whether it's fixed to specific hardware, transferable (floating), or based on usage volume.
- License Duration – Specifies how long a license remains valid, including options for evaluation, term-based subscription, and perpetual use.

The following sections outline the various license types, explain the license models, and provide deployment-specific guidance to ensure proper licensing and support alignment.

License Types

There are five major types of software licenses:

License Type	Description	Reference
GigaVUE-FM License	Required to manage physical and cloud infrastructure using GigaVUE-FM.	GigaVUE-FM Licenses
GigaVUE-OS License	Required on HC Series and TA Series devices to enable management of the nodes. Licenses can be installed and managed via CLI or through GigaVUE-FM.	GigaVUE-OS and GigaVUE-OS Module Licenses
GigaVUE-OS Module License	Required to manage modules or cards in HC Series devices.	GigaVUE-OS and GigaVUE-OS Module Licenses
GigaSMART Application License	Required to perform GigaSMART operations and traffic processing on HC Series devices.	GigaSMART Application Licenses
Cloud License	Required to manage the GigaVUE Cloud Suite. This includes base bundles such as CoreVUE, NetVUE, and SecureVUEPLUS, as well as optional add-on packages that extend the functionality of base bundles.	Volume-Based Licenses (Cloud License)

License Models

Gigamon offers various licensing models based on how the license is bound to the deployment and how long the license remains valid.

In addition to how licenses are bound, Gigamon licenses are also categorized by duration:

Model	Description	Additional Notes
Term Licenses	These are time-bound licenses and include two types: • Evaluation Licenses - These are short-term licenses valid for 60 days, intended for evaluation purposes. You must upgrade to a fully licensed version once the evaluation period ends. • Subscription Licenses - Available as monthly or multi-year subscriptions (1, 3, 5, or 7 years). These licenses expire at the end of the subscription term and can either be renewed or upgraded to a different licensing model.	• Software and feature usability - Limited to the license validity period. • Support- Elite support is included for the duration of the license. Refer to the Term License Behavior after expiry section for more details.
Perpetual Licenses	These are one-time purchase licenses that do not expire.	• Software and feature usability - Not time-bound. • Support - Elite support is included with the license purchase.

The following table lists the license models based on how the license is bound to the deployment:

Model	Description	Additional Notes
Fixed Licensing Model	This model is also known as Node-locked licenses. This model ties the license to a specific hardware component, either a card or device serial number. The license remains fixed to that hardware and cannot be moved. Node-locked licenses can be managed either from the GigaVUE-FM GUI or using the Command Line Interface.	• License key is generated through the licensing portal. • You can manage the licenses from the CLI or through the GigaVUE-FM GUI. • Automatic renewal of licenses is not supported. You must manually create the license in the Licensing Portal, import the licenses to GigaVUE-FM and assign the new licenses in GigaVUE-FM.
Flexible Licensing Model	This model is also known as Floating licenses. Licenses are not attached to a specific card or device. They can be moved or reassigned across cards within a device or even across devices, offering greater deployment flexibility.	License file with pooled floating licenses is generated in License Portal, and imported into GigaVUE-FM through GUI. You can manage the licenses using GigaVUE-FM. Automatic renewal of licenses is supported.

Model	Description	Additional Notes
	GigaSMART application licenses can be moved across the devices or cards. You can move licenses only within the same device type. GigaVUE-FM must be installed for managing floating licenses.	
Volume-based Licensing Model	This model is based on usage volume. Licenses are offered as base bundles (CoreVUE, NetVUE, SecureVUE PLUS), with optional add-ons, and are typically used for cloud-based deployments.	License file with bundled volume license is generated in the License Portal, and imported into GigaVUE-FM through the GUI.

Bundle License Matrix for Hardware Platforms

The following table list the bundle license matrix for hardware platforms:

Features	Base Bundle		Tunnel License	Advance Tunneling		ZTA	
	HC Series Gen2	HC Series Gen3	HC1 Gen2	HC Series Gen2	HC Series Gen3	HC Series Gen2	HC Series Gen3
GigaSMART IP Encapsulation (GigaSMART Tunnel)	Yes	No	Yes	No	No	No	No
GigaSMART IP Decapsulation (GigaSMART Tunnel)	Yes	No	Yes	No	No	No	No
GigaSMART Layer 2 GRE Tunnel Encapsulation	Yes	Yes	Yes	No	Yes	No	No
GigaSMART Layer 2 GRE Tunnel Decapsulation	Yes	Yes	Yes	No	Yes	No	No
GigaSMART VXLAN Tunnel Encapsulation	No	Yes	No	No	Yes	No	No
GigaSMART VXLAN Tunnel Decapsulation	Yes	Yes	Yes	No	Yes	No	No
GigaSMART	Yes	Yes	Yes	No	Yes	No	No

Features	Base Bundle		Tunnel License	Advance Tunneling		ZTA	
	HC Series Gen2	HC Series Gen3	HC1 Gen2	HC Series Gen2	HC Series Gen3	HC Series Gen2	HC Series Gen3
Custom Tunnel Decapsulation							
GigaSMART ERSPAN Tunnel Decapsulation	No	No	Yes	Yes	Yes	No	No
Header Stripping (Includes Header Addition)	Yes	No	No	No	No	Yes	Yes
Slicing	Yes	No	No	No	No	No	No
Masking	Yes	No	No	No	No	No	No
Stateless Load Balancing	Yes	No	No	No	No	No	No
Advanced Load Balancing	No	No	No	No	No	No	No
Secure Port Labeling	Yes	No	No	No	No	No	No
Deduplication	No	No	No	No	No	Yes	Yes
NetFlow	No	No	No	No	No	Yes	Yes
Adaptive Packet Filtering (APF)	No	No	No	No	No	Yes	Yes
Application Filtering Intelligence (AFI) (Includes APF, ASF, and Stateful Load Balancing for ASF)	No	No	No	No	No	Yes	Yes
Application Metadata Intelligence (Includes AMX)	No	No	No	No	No	Yes	Yes
SSL (Inline+OOB)	No	No	No	No	No	Yes	Yes
Preencryption	No	No	No	No	No	No	No

Features	Base Bundle		Tunnel License	Advance Tunneling		ZTA	
	HC Series Gen2	HC Series Gen3	HC1 Gen2	HC Series Gen2	HC Series Gen3	HC Series Gen2	HC Series Gen3
GEM for Workloads (AMX)	No	No	No	No	No	No	No
NetFlow Integrator (AMX)	No	No	No	No	No	No	No
GEM for Kubernetes Containers	No	No	No	No	No	No	No

NOTE: For SKU related details, contact Gigamon Sales Representative.

Volume-Based Bundle License Matrix

Features	Core License Bundle			NetVUE (NV)			NetVUE Plus (NVP)			SecureVUE			SecureVUE Plus (SVP)		
	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3
GigaSMART IP Encapsulation (GigaSMART Tunnel)	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
GigaSMART IP Decapsulation (GigaSMART Tunnel)	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
GigaSMART Layer 2 GRE	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No

Features	Core License Bundle			NetVUE (NV)			NetVUE Plus (NVP)			SecureVUE			SecureVUE Plus (SVP)		
	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3
Tunnel Encapsulation															
GigaSMART Layer 2 GRE Tunnel Decapsulation	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
GigaSMART VXLAN Tunnel Encapsulation	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
GigaSMART VXLAN Tunnel Decapsulation	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
GigaSMART Custom Tunnel Decapsulation	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
GigaSMART ERSPAN Tunnel Decapsulation	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
Header Stripping (Includ	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No

Features	Core License Bundle			NetVUE (NV)			NetVUE Plus (NVP)			SecureVUE			SecureVUE Plus (SVP)		
	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3
es Header Addition)															
Slicing	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
Masking	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
Stateless Load Balancing	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
Advanced Load Balancing	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
Secure Port Labeling	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
Deduplication	No	No	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
NetFlow	No	No	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
Adaptive Packet Filtering (APF)	No	No	No	No	No	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No
Application Filtering Intelligence (AFI) (Includes APF, ASF,	No	No	No	No	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No

Features	Core License Bundle			NetVUE (NV)			NetVUE Plus (NVP)			SecureVUE			SecureVUE Plus (SVP)		
	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3	V Series	HC Series Gen2	HC Series Gen3
and Stateful Load Balancing for ASF)															
Application Metadata Intelligence (Includes AMX)	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No
SSL (Inline+OOB)	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No
Precryption	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No
GEM for Workloads (AMX)	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No
NetFlow Integrator (AMX)	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No
GEM for Kubernetes Containers	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No

NOTE: With an AMI license (AMI SKU, ZTA bundle, or SecureVUE Plus bundle), you are also entitled to deploy AMX. For more information on standalone licenses, contact Gigamon Sales representatives.

Manage GigaVUE-FM License

Procure License

Licenses can be purchased through Gigamon's sales channels. They will provide you with the necessary Entitlement ID(s) (EID) and further instructions for your installation. The Entitlement ID is required to generate license keys on the Gigamon Licensing Portal. Contact your Sales representative to obtain a new license for GigaVUE-FM Nodes (see [Manage GigaVUE-FM License](#) for the contact information).

GigaVUE-FM is provisioned by default with a base licenses that uses the node-locked (fixed) licensing model.

Install GigaVUE-FM license

To install the GigaVUE-FM license, you must:

1. [Generate License Key in License portal](#)
2. [Activate License in GigaVUE-FM](#)

Prerequisites

You must have the Challenge MAC ID to generate the license key in the Gigamon License portal. To get the challenge MAC ID in GigaVUE-FM, click  and select **System > Licenses > Fabric Manager > Summary**.

Generate License Key in License portal

1. Go to [Gigamon License Portal](#).
2. Select **Entitlements** in the License portal page.
3. Click the numbers in the **Remaining Qty** field for the SKU, which you need to install the license.

You can view an **Activation Method** page.

4. In the Activation Method page, select **No** in the **Do you use GigaVUE-FM to manage your environment?**, as GigaVUE-FM license is a node locked license.

NOTE: If you select **Yes**, you need to upload the fabric inventory JSON file.

- Click **Continue**.

You can view an **Activation Quantity** page.

- Enter the GigaVUE-FM Challenge MAC ID in **Device Locked to** field, in the **Activation Quantity** page.

NOTE: When you select Yes in Step 4, MAC ID will be automatically populated.

- Click **Review**.

- Click **Activate** in the **Review** page.

You can view the License Key in the **Activate Results** page. Copy the license key and save it to use while activating the licensing key.

Activate License in GigaVUE-FM

- Go to **GigaVUE-FM**.
- Go to **Settings**.
- Select **System > Fabric Manager > Licenses**.
- Click **Activate Licenses** to activate a GigaVUE-FM license.

You can view the **Activate your license** page as shown:

Activate your license

In order to activate your license, follow the steps below

You can choose to include the below device information. If you exclude the IP or Hostname, you will have to identify the chassis or GigaSMART card by its ID when activating.

IP Address ☐ Excluded

Hostname ☐ Excluded

Download JSON



This file will only be valid for the next 1 hour. If you need to export a new file, you can download your file again.

Step 2

Upload the above file to your [Gigamon license portal](#), after choosing a SKU to activate in the portal.

Step 3

After uploading the inventory (.json) file, the license portal will provide you with a license key. Proceed to the [Add FM License](#) page to manually activate your license.

Cancel

- Click **Add FM License** in **Step 3** in the **Activate your license** page.

You can view the **Add License(s)** page.

- Enter the License key generated in Step 8 in **License 1** field.

7. Click **Install**.

Delete GigaVUE-FM License

GigaVUE-FM allows you to delete a license key. Once you delete a license, you can use the license key again.

To delete a license, do the following:

1. Go to **Settings**.
2. Go to **System > Fabric Manager > Licenses**.
3. Select the license key to be deleted.
4. Click **Delete** to delete the license.

A deleted license can be added again to GigaVUE-FM and can be reused.

Revoke GigaVUE-FM License

GigaVUE-FM allows you to revoke a license key. Once you revoke a license, you cannot use the license key again.

To revoke a license, do the following:

1. Go to **Settings**.
2. Go to **System > Fabric Manager > Licenses**.
3. Select the license key to be revoked.
4. Click **Revoke** to remove the license.

Once a license is revoked, you cannot add the license again in GigaVUE-FM.

Manage GigaVUE Device Node Locked License using CLI

You must also install the following software licenses for the chassis and modules to be active and operational:

- GigaVUE-OS License (Chassis License)
- GigaVUE-OS Module License (Module License)
- GigaSMART License (Feature License)

The licenses are categorized under:

- Fixed Licensing (Node-Locked)- This model is also known as Node-locked licenses. This model ties the license to a specific hardware component, either a card or device serial number. The license remains fixed to that hardware and cannot be moved. Node-locked licenses can be managed either from the GigaVUE-FM GUI or using the Command Line Interface.

Procure License

Licenses can be purchased through Gigamon's sales channels. They will provide you with the necessary Entitlement ID(s) (EID) and further instructions for your installation. The Entitlement ID is required to generate license keys on the Gigamon Licensing Portal.

Install GigaVUE Device License

Use the `license` command to install the GigaVUE-OS, GigaVUE-OS Module license, and GigaSMART license:

For example: To install the GigaVUE-OS license:

```
(config) # license install box 1 key LK2-GVOS-****-****-****-****-****-
****-****-****-****-****-****
-****-*
```

NOTE: Execute the `write memory` command after installing the license.

To verify that the license is installed:

show license

Box 2

Slot	Feature	Parameters	Start Date	Expiration Date
1	GVOS-module	-		Never

1	GVOS-module	-		Never
---	-------------	---	--	-------

Chassis-Feature	Parameters	Start Date	Expiration Date
GVOS	-	2021/02/22	Never

GVOS	-	2021/02/22	Never
------	---	------------	-------

To verify that the cards and ports are operationally up:

show card

Box ID: 2

Slot	Config	Oper Status	HW Type	Product Code	Serial Num
HW Rev	PowerReq	PowerPriority			

```

-----
cc1    yes    up                HC3-Main-Board    132-00DR    1DR0-1100
1.0-00 N/A                N/A

1      yes    up                PRT-HC3-X24-HW    132-00DY    1DY0-1000
1.0-0  60                1

2      yes    up                PRT-HC3-C08Q08    132-00DW    1DW0-2001
1.0-0  160                2

3      yes    up (unlicensed)  SMT-HC3-C05-HW    132-00DX    1DX0-1005
1.0-0  200                3

4      yes    up (unlicensed)  PRT-HC3-C08Q08-HW 132-00DW    1DW0-2002
1.0-0  160                4

```

The above **show card** output indicates the following:

- GigaVUE-OS license is installed for the chassis: *cc1 is displayed as licensed*.
- GigaVUE-OS Module license is installed for Module 1: *Module 1 is displayed as licensed*.
- Module 2 (PRT-HC3-C08Q08) is displayed as licensed, since it has the integrated license.
- The rest of the modules are displayed as unlicensed (highlighted in gray).

NOTE: If you use the GigaVUE-FM CLI command **show license**, the command may show an active Prime license as unrecognized.

Uninstall Node Locked License using CLI

To uninstall the license use the **no license install** command:

For example: To uninstall the GigaVUE-OS license:

```

(config) # no license install box 1 key LK2-GVOS-*****-*****-*****-*****-*****-
*****-*****-*****-*****-*****-*****
_*****_*

```

NOTE: This command removes the license from the chassis but does not revoke it. The same license can be reinstalled later if required.

Revoke Node Locked License using CLI

To revoke the license use the **license revoke** command:

For example: To revoke the GigaVUE-OS license:

```
(config) # license revoke key LK2-GVOS-****-****-****-****-****-****-****-
****-****-****-****
-****-*
```

NOTE: Once you revoke the key, the license key becomes permanently unusable. You will not be able to use the revoked license when you reinstall. You need to contact the Gigamon technical support team to generate a new key for a device.

Manage GigaVUE Device Node Locked License using GigaVUE-FM

Install Device Node Lock License using GigaVUE-FM

In the traditional method, to install a device node lock license using GigaVUE-FM, you need the Device serial number, using which you generate the license key and activate the key in GigaVUE-FM.

Prerequisites

You must have the Device Serial Number to generate the license key in the Gigamon License portal.

To get the Device serial number:

1. Go to **GigaVUE-FM**.
2. On the left navigation pane, click  (Inventory).
3. Select **Physical > Nodes**.
4. Click the Cluster ID.
5. On the left navigation pane, select **System > Chassis**.
You can view the **Chassis** page.
6. Click **Table**.

In the **Cards** section, you can view the hardware types and their corresponding serial number. Copy the Device serial number for the card and use it while generating the license key.

Generate Device License Key in Gigamon License portal

1. Go to [Gigamon License Portal](#).
2. Select **Entitlements** in the License portal page.
3. Click the numbers in the **Remaining Qty** field for the SKU, which you need to install the license.

You can view an **Activation Method** page.

4. In the Activation Method page, select **No** in the **Do you use GigaVUE-FM to manage your environment?**, as GigaVUE-FM license is a node-locked license.
5. Click **Continue**.

You can view an **Activation Quantity** page.

6. Enter the Device Serial number in the **Device Locked to** field, in the **Activation Quantity** page.
7. Click **Review**.
8. Click **Activate** in the **Review** page.

You can view the License Key in the **Activate Results** page. Copy the license key and save it to use while activating the licensing key.

Activate Device License

1. Go to **GigaVUE-FM**.
2. Go to **Settings**.
3. Select **System > Licenses**.
4. From the top navigation bar, click the **Activation** drop- down list, and select **Floating**.
5. In the **Activated** tab, from the **Activate Licenses** drop-down list, select **With License Key**.

You can view the **Activate your license** page as shown:

Activate your licenses

In order to activate your licenses, follow the steps below

Hostname



Excluded

you need to export a new file, you can download your file again.

Download JSON

Fabric Inventory (.json)

Step 2

Upload the above file to your [Gigamon license portal](#), after choosing a SKU to activate in the portal.

Step 3

After uploading the inventory (.json) file, the license portal will provide you with a license key. Proceed to the [Add Node License](#) page to manually activate your licenses.

or

After uploading the inventory (.json) file, the license portal will provide you with a license activation (.key) file. Import that file here.

Cancel

Continue

6. Click **Add Node License** in **Step 3** in the **Activate your license** page.
You can view the **Add License(s)** page.
7. Select the cluster ID from the **Cluster ID** drop-down list for which you need to install the license.
8. Select the box ID from the **Box ID** for which you need to install the license.
9. Enter the License key that you generated in Step 8 in the **License Key** field.
10. Click **Install**.

GigaVUE-FM displays a message that your license is installed successfully. You can view the SKU, feature and the respective details in the **Activated** tab.

Deactivate Device Node Lock License using GigaVUE-FM

1. Go to **GigaVUE-FM**.
2. Go to **Settings**.
3. Select **System > Licenses**.
4. On the top navigation bar, click the **Activation** drop-down list and select **Floating**.
You can view the list of activated licenses in the **Activated** tab.
5. Select the SKU for which you want to deactivate the license in the **Activated** tab.
6. Click **Actions** drop-down list and select **Deactivate**.

GigaVUE-FM shows a confirmation message stating that when you deactivate the license, you will not be able to use the license key for the card.

7. Click **Deactivate License** to deactivate the license.

The license will get deactivated and will be added to the list view in the **Deactivated** tab.

Manage GigaVUE Device Floating License using GigaVUE-FM (Traditional Method)

Floating License is not attached to a specific card or chassis. You can move the licenses across the cards within a chassis or across the chassis. You cannot transfer the modules and chassis license. Floating license is supported only for GigaVUE-FM and GigaVUE-OS H Series and not supported for GigaVUE-TA Series.

Install GigaVUE Device Floating License using GigaVUE-FM

Download Fabric Inventory from GigaVUE-FM

1. Go to **GigaVUE-FM**.
2. Go to **Settings**.
3. Select **System > Licenses**.
4. From the top navigation bar, click **Activation** drop-down list, and select **Floating**.
5. In the **Activated** tab, from the **Activate Licenses** drop-down list, select **With License Portal**.

You can view the **Activate your license** page as shown:

Activate your licenses

In order to activate your licenses, follow the steps below

Hostname

☐ Excluded



This file will only be valid for the next 1 hour. If you need to export a new file, you can download your file again.

Download JSON

Fabric Inventory (.json)

Step 2

Upload the above file to your [Gigamon license portal](#), after choosing a SKU to activate in the portal.

Step 3

After uploading the inventory (.json) file, the license portal will provide you with a license activation (.lic) file. Import that file here.

Import License (.lic) *

Choose File

No file chosen

Cancel

Continue

- In Step 1, click **Fabric Inventory (.json)** from the **Download JSON** option.

Generate Device Floating License Key in Gigamon License portal

- Go to [Gigamon License Portal](#).
- Select **Entitlements** in the License portal page.
- Click the numbers in the **Remaining Qty** field for the SKU, which you need to install the license.

You can view an **Activation Method** page.

- In the **Activation Method** page, select **Yes** in the **Do you use GigaVUE-FM to manage your environment?**
- Click **Choose file**.
- Upload the JSON file that you have download in your local machine to the Gigamon license portal.
- Click **Continue**.

You can view an **Activation Quantity** page.

- Enter the Quantity in the **Activation Quantity** page.
- Click **Review**.
- Click **Activate** in the **Review** page.

11. Click **Download** in the **License Key** option in the **Activate Results** page to download the license key file. Save the file to use while activating the licensing key.

Activate and Assign Device Floating License

1. Activate Floating License using GigaVUE-FM
 - a. Go to **Settings**.
 - b. Select **System > Licenses**.
 - c. From the top navigation bar, click the **Activation** drop- down list, and select **Floating**.
 - d. In the **Activated** tab, from the **Activate Licenses** drop-down list, select **With License Portal**.

You can view the **Activate your license** page as shown:

Activate your licenses

In order to activate your licenses, follow the steps below

Hostname

☐ Excluded

Download JSON

Fabric Inventory (.json)



This file will only be valid for the next 1 hour. If you need to export a new file, you can download your file again.

Step 2

Upload the above file to your [Gigamon license portal](#), after choosing a SKU to activate in the portal.

Step 3

After uploading the inventory (.json) file, the license portal will provide you with a license activation (.lic) file. Import that file here.

Import License (.lic) *

Choose File

No file chosen

Cancel

Continue

- e. Click **Choose file** in **Import License (.lic)*** in **Step 3** and upload the license key file that you have downloaded in to your local machine in the **Activate your license** page.
- f. Click **Continue**.

You can view the activated licensed in **Floating > Activated** tab.
2. Assign Device License Key
 - g. Select the license which you want to assign it to the device.

- h. Click the numbers in the **Available** quantity.

You can view the list of devices in the **Assign License(s)** page.

- i. Select the device.
- j. Click **Assign**.

GigaVUE-FM displays a message that your license is installed successfully. You can view the SKU, feature and the respective details in the **Activated** tab.

Renew GigaVUE-FM Device Floating License using GigaVUE-FM

When your license expires today and the new one starts tomorrow, renew the license in GigaVUE-FM to link them and keep traffic flowing. To renew license:

1. Go to **GigaVUE-FM**.
2. Go to **Settings**.
3. Select **System > Licenses**.
4. From the top navigation bar, click **Activation** drop- down list, and select **Floating**.
5. In the **Active** tab, from the **Activate Licenses** drop-down list, select **With License Portal**.

You can view the **Activate your license** page.

6. In Step 1, click **Fabric Inventory (.json)** from the **Download JSON** option.
7. Go to [Gigamon License Portal](#).
8. Select **Entitlements** in the License portal page.
9. Click the numbers in the **Remaining Qty** field for the SKU, which you need to install the license.

You can view an **Activation Method** page.

10. In the **Activation Method** page, select **Yes** in the **Do you use GigaVUE-FM to manage your environment?**.
11. Click **Choose file**.
12. Upload the JSON file that you have download in your local machine to the Gigamon license protal.
13. Click **Continue**.

You can view an **Activation Quantity** page.

14. Enter the Quantity in the **Activation Quantity** page.
15. Click **Review**.
16. Click **Activate** in the **Review** page.

17. Click **Download** in the **License Key** option in the **Activate Results** page to download the license key file. Save the file to use while activating the licensing key.
18. Activate Floating License using GigaVUE-FM.

- a. Go to **Settings**.
- b. Select **System > Licenses**.
- c. From the top navigation bar, click the **Activation** drop- down list, and select **Floating**.
- d. In the **Activated** tab, from the **Activate Licenses** drop-down list, select **With License Key**.

You can view the **Activate your license** page.

- e. click **Choose file** in **Import License (.lic)* in Step 3** and upload the license key file that you have downloaded in to your local machine in the **Activate your license** page.
- f. Click **Continue**.

You can view the activated licensed in **Floating > Activated** tab.

19. Select **System > Licenses**.
20. On the top navigation bar, click the **Activation** drop-down list and select **Floating**.

You can view the list of activated licenses in the **Activated** tab.

21. Click **Actions** drop-down list and select **Renewal**.

You can view the **Renewal of Licenses** page.

22. Click the license that needs to be renewed.
23. Select the SKU for you which you have purchased the license and the one want to renew the license..

You can view the list of new SKU associated to it.

24. Click **Submit Renewal** to renew the license.

Replace GigaVUE-FM Device Floating License using GigaVUE-FM

You can transfer the activated license used in an GigaVUE-FM to another GigaVUE-FM using the MAC ID of the GigaVUE-FM. You must install the new GigaVUE-FM before you replace the license. To replace the license from the old GigaVUE-FM:

1. Go to **GigaVUE-FM** .
2. Go to **Settings**.
3. Select **System > Licenses**.
4. On the top navigation bar, click the **Activation** drop-down list and select **Floating**.

You can view the list of activated licenses in the **Activated** tab.

5. Click **Actions** drop-down list and select **Replace License**.
6. Enter the Challenge MAC Id in the **Enter old FM challenge MAC *** field.
7. Click **OK** to replace the activated license from the old GigaVUE-FM.

Deactivate Device Floating License using GigaVUE-FM (Traditional Method)

Prerequisites

You must remove the license associated to the cards before deactivating it.

To remove an expired license banner, you must deactivate the license. To deactivate the license:

1. Go to **GigaVUE-FM**.
2. Go to **Settings**.
3. Select **System > Licenses**.
4. On the top navigation bar, click the **Activation** drop-down list and select **Floating**.
You can view the list of activated licenses in the **Activated** tab.
5. Select the SKU for which you want to deactivate the license in the **Activated** tab.
6. Click **Actions** drop-down list and select **Deactivate**.

GigaVUE-FM shows a confirmation message stating that when you deactivate the license, you will not be able to use the license key for the card.

7. Click **Deactivate License** to deactivate the license.

The license will get deactivated and will be added to the list view in the **Deactivated** tab.

Manage GigaVUE Device Floating License using GigaVUE-FM (Integrated License Method)

In the Floating Licensing model, after procuring the GigaVUE-OS License you can install it on the device using GigaVUE-FM (Integrated License Method). In Integrated License method, you can establish direct communication between GigaVUE-FM and the license portal by generating a token from the license portal and registering it in GigaVUE-FM. Once registered, you can view, manage, and activate entitlements directly from GigaVUE-FM, eliminating the need to upload and download files manually. Additionally, the volume-based license (VBL) usage data is automatically captured from each GigaVUE-FM instance and sent to the license portal for tracking.

Key Benefits

- **Self-service management:** You can activate and manage entitlements directly from GigaVUE-FM, removing the need to constantly switch between GigaVUE-FM and the license portal.
- **Seamless license activation:** When an entitlement expires, call Gigamon Sales team and renew it. Once you renew, you can view the new entitlement in GigaVUE-FM, from which you can activate the license.
- **Flexible licensing:** A license pool offered by an entitlement can be redistributed between multiple GigaVUE-FMs, allowing greater flexibility to accommodate changing licensing needs across the set of devices monitored by each GigaVUE-FM.
- **Reclaim and Reuse license:** You can reclaim the license from one GigaVUE-FM instance and use it in another GigaVUE-FM. You can reclaim the license for VBL and Floating types of licenses. To reuse the license, the GigaVUE-FM should be in connected mode.
- **Traceability of Renewals:** When you renew your licenses, GigaVUE-FM allows you to trace which license was renewed and update your entitlements.

This feature greatly simplifies the license management process, reduces the potential for manual errors, and offers customers enhanced control and flexibility over their licensing.

Register GigaVUE-FM with the License Server

To establish direct communication between the license server and GigaVUE-FM, you must generate a token from the license portal and register the token in GigaVUE-FM. GigaVUE-FM authenticates the token and enables you to view and manage your entitlements.

This is a one-time activity, and registration is valid until you opt out of GigaVUE-FM.

To register GigaVUE-FM with the license server:

1. Log in to the [Gigamon Community Portal](#).
2. Select **License Portal** from the **More** drop-down list.
3. In the License Portal, click the **GigaVUE-FM Token Generation** tab.
A dialog box **Token Generator for GigaVUE-FM** appears.
4. Click **Generate GigaVUE-FM Token**.
Copy the token that appears at the bottom of the dialog box.
5. Log in to GigaVUE-FM.
6. On the left navigation pane, click  , and then select **Licenses > Settings**.
7. Click **Register**.
You can view the EULA Agreement.
8. Accept the terms and click **Agree**.

The **Enter Registration Token** dialog box appears.

NOTE: For a direct connection to the license portal and for a successful registration, the firewall must permit outbound connections to <https://gigamoninc.prod.sentinelcloud.com/> on port 443.

9. Paste the token you copied from the License portal into the dialog box.
10. Click **OK**.

Enable License Settings for Integrated Method

After successful registration, Connected GigaVUE-FM, Volume Usage Event Notification, and License Expiry Event Notifications will be enabled by default. You can enable them as required:

- Connected GigaVUE-FM
- Volume Usage Event Notification
- License Expiry Event Notifications

Connected GigaVUE-FM

In the Digital license management and performance analytics, you can enable automatic entitlement retrieval. When you enable automatic entitlement retrieval, GigaVUE-FM performs the following:

- License entitlements and activations are automatically retrieved from the license server. GigaVUE-FM also reports Volume-Based License (VBL), VBL usage volumes, and in-use hardware and software assets. For more information, refer to [View Entitlements in GigaVUE-FM](#).
- GigaVUE-FM sends details about hardware SKUs, software SKUs, cloud SKUs, GigaVUE- OS version, and GigaVUE-FM version. It will not send details regarding Accessories SKUs, PSU or Fan information, Support SKUs, and GigaVUE Cloud Suite™ virtual inventory collection. The information is sent once a week during off-hours. The frequency is not configurable but can be adjusted by Gigamon staff. To adjust the frequency, you can reach out to [Technical Support](#). You need to open a one-way port for communication between GigaVUE-FM and Gigamon devices. All communications between GigaVUE-FM and Gigamon devices should be secure and encrypted. The information shared must also be encrypted. If sending information fails, the node will retry up to 3 times. GigaVUE-FM shares SKU-level information without any PII (Personally Identifiable Information) implications. No sensitive data, such as IP addresses, host names, or usernames/passwords, will be shared.

Volume Usage Event Notification

In the Volume Usage Event Notification, you can enable:

- **Status** — GigaVUE-FM sends a notification when the daily usage exceeds the allowance time threshold (in percentage).

- **Threshold (%)** — You can configure the percentage of threshold beyond which GigaVUE-FM sends a notification.

To enable Volume Usage Event Notification:

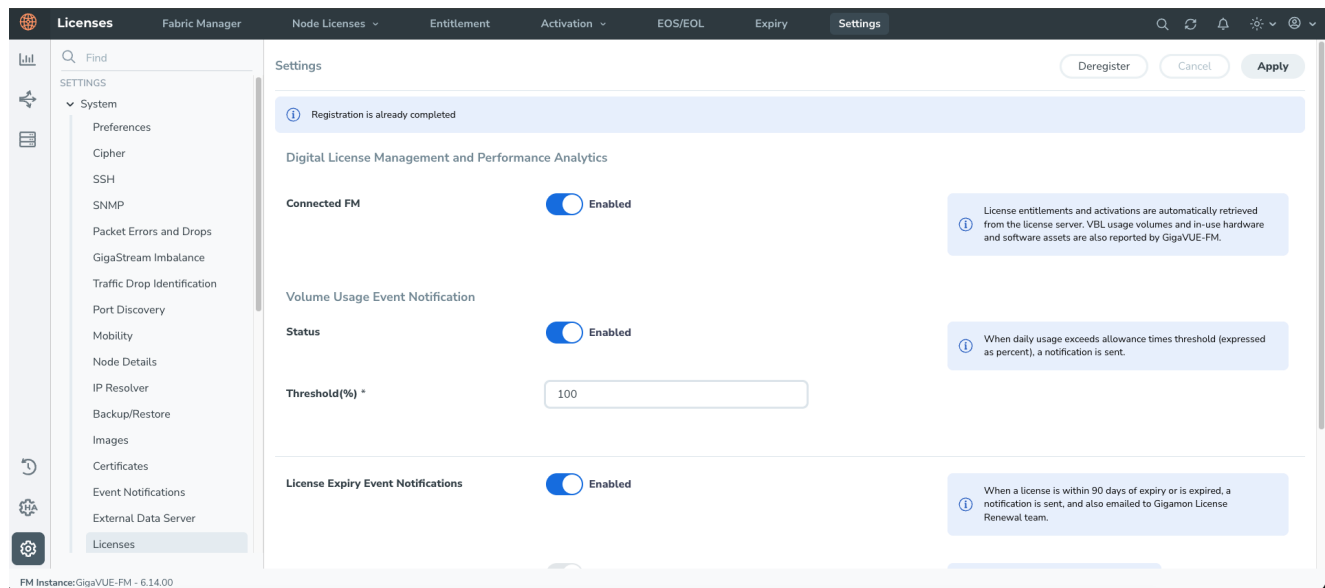
1. Go to  > **Licenses** > **Settings**.
2. Enable the **Volume Usage Event Notification** toggle button.

License Expiry Event Notifications

When you enable License Expiry Event Notifications, GigaVUE-FM sends a notification when a license is within 90 days of expiry or if it is expired and sends an email to the Gigamon License Renewal team.

To enable Volume Usage Event Notification:

1. Go to  > **Licenses** > **Settings**.
2. Enable the **License Expiry Event Notifications** toggle button.



Reclaim GigaVUE Device Floating Licenses using GigaVUE-FM

GigaVUE-FM allows to reclaim the licenses for Floating License. You can reclaim the unassigned license from one GigaVUE-FM instance and use it in another GigaVUE-FM. To reclaim the license, the GigaVUE-FM should be in connected mode.

To reclaim the floating license activations in GigaVUE-FM:

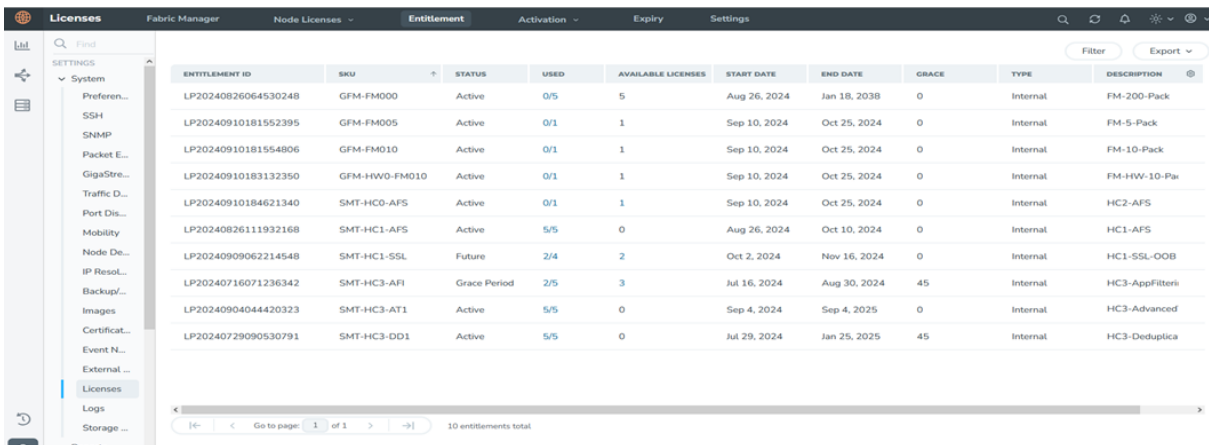
1. Unassign the floating license from any Node or card it is bound to. To unassign:
 - a. On the left navigation pane, click .

- b. Select the Activation drop-down list on the top navigation bar and then select **Floating**.
 - c. Click the hyperlink on the **Used** column corresponding to the floating license that you want to unassign.
 - d. In the bottom section, unassign the floating license from all the Nodes or card(s) to which they are assigned.
2. Reclaim the activations:
 - a. Select **the Entitlements** tab on the top navigation bar.
 - b. Click the numbers in the **Used Licenses** column.
 - c. In the bottom section, select **Floating**.
 - d. Select the activation you want to reclaim by clicking the checkbox next to the Activation ID.
 - e. Click **Reclaim**.

The Available Licenses column against the Entitlement ID displays the increase in the count by the number of reclaimed licenses.

View Entitlements in GigaVUE-FM

After successfully registering GigaVUE-FM with the license portal, you can view the SKUs you purchased and the licenses you are entitled to in GigaVUE-FM. On the left navigation pane, click , and then select **Licenses > Entitlement**.



ENTITLEMENT ID	SKU	STATUS	USED	AVAILABLE LICENSES	START DATE	END DATE	GRACE	TYPE	DESCRIPTION
LP20240826064530248	GFM-FM000	Active	0/5	5	Aug 26, 2024	Jan 18, 2038	0	Internal	FM-200-Pack
LP20240910181552395	GFM-FM005	Active	0/1	1	Sep 10, 2024	Oct 25, 2024	0	Internal	FM-5-Pack
LP20240910181554806	GFM-FM010	Active	0/1	1	Sep 10, 2024	Oct 25, 2024	0	Internal	FM-10-Pack
LP20240910183132350	GFM-HW0-FM010	Active	0/1	1	Sep 10, 2024	Oct 25, 2024	0	Internal	FM-HW-10-Pa
LP20240910184621340	SMT-HC0-AFS	Active	0/1	1	Sep 10, 2024	Oct 25, 2024	0	Internal	HC2-AFS
LP20240826111932168	SMT-HC1-AFS	Active	5/5	0	Aug 26, 2024	Oct 10, 2024	0	Internal	HC1-AFS
LP20240909062214548	SMT-HC1-SSL	Future	2/4	2	Oct 2, 2024	Nov 16, 2024	0	Internal	HC1-SSL-OOB
LP20240716071236342	SMT-HC3-AFI	Grace Period	2/5	3	Jul 16, 2024	Aug 30, 2024	45	Internal	HC3-AppFilter
LP20240904044420323	SMT-HC3-AT1	Active	5/5	0	Sep 4, 2024	Sep 4, 2025	0	Internal	HC3-Advanced
LP20240729090530791	SMT-HC3-DD1	Active	5/5	0	Jul 29, 2024	Jan 25, 2025	45	Internal	HC3-Deduplica

The number in the **Used** column denotes the licenses used by the GigaVUE-FM or the device from the entitled license. The number in the numerator represents the number of

activated licenses, and the denominator denotes the total number of licenses. When you click on the link in the Used column, you can view the license details for that entitlement at the bottom of the screen, as shown in the figure.

The screenshot displays the GigaVUE Licenser interface. The top navigation bar includes tabs for Licenses, Fabric Manager, Node Licenses, Entitlement, Activation, Expiry, and Settings. The left sidebar shows a menu with options like System, Preferences, SSH, SNMP, Packet Errors and Dro..., GigaStream Imbalance, Traffic Drop Identificat..., Port Discovery, Mobility, Node Details, IP Resolver, Backup/Restore, Images, Certificates, Event Notifications, External Data Server, Licenses, NTP, Logs, and Storage Management. The main area shows a table of entitlements with columns: ENTITLEMENT ID, SKU, STATUS, USED, AVAILABLE LI..., START DATE, END DATE, and REFERENCE ID. Below the table, there is a section for a selected entitlement (LP20240121154625185) with a 'Node Locked' status. This section includes a table with columns: ACTIVATION ID, SERIAL NUMBER, and LICENSE KEY.

ENTITLEMENT ID	SKU	STATUS	USED	AVAILABLE LI...	START DATE	END DATE	REFERENCE ID
LP20240212171513...	SMT-HC3-DD1	Expired	3/5	2	Feb 12, 2024	Mar 28, 2024	64ce640e-0d6d-4a3...
LP20240130101740...	SMT-HC0-DD1	Expired	3/5	2	Jan 30, 2024	Mar 15, 2024	368cf3ac-3ee7-4e67...
LP20240123163625...	SMT-HC3-DD1	Expired	2/5	3	Jan 23, 2024	Mar 8, 2024	7e9a5522-05d1-463...
LP20240123163544...	SMT-HC3-AFI	Expired	3/5	2	Jan 23, 2024	Mar 8, 2024	11e3304d-305e-46d...
LP20240121154918...	SMT-HC3-AT1	Expired	5/5	0	Jan 21, 2024	Jul 19, 2024	9e8e7a55-14b6-46f...
LP20240121154625...	SMT-HC3-APF	Expired	4/5	1	Jan 21, 2024	Mar 6, 2024	1560ddee-394c-476...
LP20240102165305...	GFM-FM005	Active	1/5	4	Jan 2, 2024	Jan 18, 2038	7e4664aa-9add-4cc...

ACTIVATION ID	SERIAL NUMBER	LICENSE KEY
bf4ea50d-7fde-4dbc-bf21-daad191800cd	1DX0-8008	LK2-SMT_HC3_APF_20240122164812-7YF0-QL8N...
cc252d89-91d4-47b5-b72b-5cc441a6f6e6	1DX0-1005	LK2-SMT_HC3_APF_20240201050639-7YF0-QL8N...

You can view the tab :

- **Node Locked**—The node-locked tab allows you to view the device's details, such as the Activation ID, Serial number, and License Key.

Manage Volume Based License using GigaVUE-FM (Traditional Method)

Install GigaVUE Volume Based License using GigaVUE-FM

1. Go to **GigaVUE-FM**.
2. Go to **Settings**.
3. Select **System > Licenses**.
4. From the top navigation bar, click **Activation** drop-down list, and select **VBL**.
5. In the **Active** tab, click **Activate Licenses**.

You can view the **Activate your license** page as shown:

Activate License

1 Download 2 Upload 3 Cancel Activate Back Next

Step 1

Download this inventory (.json) file, which contains everything we need to know about your GigaVUE-FM. You can choose to include the below device information. If you exclude the IP or Hostname, you will have to identify the chassis or GigaSMART card by its ID when activating.

Include

☒ IP Address
☒ Hostname

Download JSON

Fabric Inventory (.json)

ance:GigaVUE-FM - 6.12.00

6. In Step 1, click the **Fabric Inventory (.json)** from the **Download JSON** file option.
7. Click **Next** to generate the license key in Gigamon License portal.
 - a. Go to [Gigamon License Portal](#).
 - b. Select **Entitlements** in the License portal page.
 - c. Click the numbers in the **Remaining Qty** field for the SKU, which you need to install the license.

You can view an **Activation Method** page.

- d. In the Activation Method page, select **Yes** in the **Do you use GigaVUE-FM to manage your environment?**
- e. Click **Choose file**.
- f. Upload the JSON file that you have downloaded in your local machine to the Gigamon license portal.
- g. Click **Continue** to view the **Activation Quantity** page.
- h. Enter the number of license that you need to activate in the **Quantity** field.
- i. Click **Review** to view the **Review** page.
- j. Click **Activate** in the **Review** page to view **Activation Results** page.
- k. Click **Download** to download the license key.
8. In the GigaVUE-FM, click **Next** to activate the license.

- a. Click **Choose file** and upload the inventory license activation file **Upload and Activate** in **Step 3**.
- b. Click **Save**.

GigaVUE-FM displays a message that your license is installed successfully. You can view the SKU, feature and the respective details in the **Activated** tab.

Deactivate Volume Based License using GigaVUE-FM (Traditional Method)

1. Go to **GigaVUE-FM**.
2. Go to **Settings**.
3. Select **System > Licenses**.
4. On the top navigation bar, click **Activation** drop-down list box and select **VBL**.

You can view the list of activated licenses in the **Activate** tab.

5. Select the SKU for which you want to delete the license in the **Activate** tab. GigaVUE-FM allows you to select only one license at a time to deactivate.
6. Click **Deactivate**.

GigaVUE-FM shows a confirmation message stating that when you deactivate the license, you will not be able to use the license key for the card.

7. Click **Deactivate License** to deactivate the license.

Deactivate expired Volume Based License using GigaVUE-FM (Traditional Method)

You can deactivate licenses that have expired. GigaVUE-FM displays the licenses in Recently Expired state in **ACTIVE** page and licenses in Expired State in **INACTIVE** page.

To deactivate the licenses:

1. Go to **Settings**.
2. Select **System > Licenses**.
3. On the top navigation bar, click **Activation** drop-down list box and select **VBL**.
4. Click **INACTIVE** tab.

You can view the details of licenses in expired state.

NOTE: To view the list of licenses in recently expired, click **ACTIVE** tab.

5. Select the license that you want to deactivate. GigaVUE-FM allows to you to select only one license at a time to deactivate.
6. Select the Deactivate button.

The license gets deactivated.

NOTE: You can view the Deactivate button, only when you select Recently Expired, Expired.

Manage Volume Based License using GigaVUE-FM (Integrated License Method)

In the Floating Licensing model, after procuring the GigaVUE-OS License you can install it on the device using GigaVUE-FM (Integrated License Method). In Integrated License method, you can establish direct communication between GigaVUE-FM and the license portal by generating a token from the license portal and registering it in GigaVUE-FM. Once registered, you can view, manage, and activate entitlements directly from GigaVUE-FM, eliminating the need to upload and download files manually. Additionally, the volume-based license (VBL) usage data is automatically captured from each GigaVUE-FM instance and sent to the license portal for tracking.

Key Benefits

- **Self-service management:** You can activate and manage entitlements directly from GigaVUE-FM, removing the need to constantly switch between GigaVUE-FM and the license portal.
- **Seamless license activation:** When an entitlement expires, call Gigamon Sales team and renew it. Once you renew, you can view the new entitlement in GigaVUE-FM, from which you can activate the license.
- **Flexible licensing:** A license pool offered by an entitlement can be redistributed between multiple GigaVUE-FMs, allowing greater flexibility to accommodate changing licensing needs across the set of devices monitored by each GigaVUE-FM.
- **Reclaim and Reuse license:** You can reclaim the license from one GigaVUE-FM instance and use it in another GigaVUE-FM. You can reclaim the license for VBL and Floating types of licenses. To reuse the license, the GigaVUE-FM should be in connected mode.
- **Traceability of Renewals:** When you renew your licenses, GigaVUE-FM allows you to trace which license was renewed and update your entitlements.

This feature greatly simplifies the license management process, reduces the potential for manual errors, and offers customers enhanced control and flexibility over their licensing.

Register GigaVUE-FM with the License Server

To establish direct communication between the license server and GigaVUE-FM, you must generate a token from the license portal and register the token in GigaVUE-FM. GigaVUE-FM authenticates the token and enables you to view and manage your entitlements.

This is a one-time activity, and registration is valid until you opt out of GigaVUE-FM.

To register GigaVUE-FM with the license server:

1. Log in to the [Gigamon Community Portal](#).
2. Select **License Portal** from the **More** drop-down list.
3. In the License Portal, click the **GigaVUE-FM Token Generation** tab.
A dialog box **Token Generator for GigaVUE-FM** appears.
4. Click **Generate GigaVUE-FM Token**.
Copy the token that appears at the bottom of the dialog box.
5. Log in to GigaVUE-FM.
6. On the left navigation pane, click , and then select **Licenses > Settings**.
7. Click **Register**.
You can view the EULA Agreement.
8. Accept the terms and click **Agree**.
The **Enter Registration Token** dialog box appears.

NOTE: For a direct connection to the license portal and for a successful registration, the firewall must permit outbound connections to <https://gigamoninc.prod.sentinelcloud.com/> on port 443.

9. Paste the token you copied from the License portal into the dialog box.
10. Click **OK**.

Enable License Settings for Integrated Method

After successful registration, Connected GigaVUE-FM, Volume Usage Event Notification, and License Expiry Event Notifications will be enabled by default. You can enable them as required:

- Connected GigaVUE-FM
- Volume Usage Event Notification
- License Expiry Event Notifications

Connected GigaVUE-FM

In the Digital license management and performance analytics, you can enable automatic entitlement retrieval. When you enable automatic entitlement retrieval, GigaVUE-FM performs the following:

- License entitlements and activations are automatically retrieved from the license server. GigaVUE-FM also reports Volume-Based License (VBL), VBL usage volumes, and in-use hardware and software assets. For more information, refer to [View Entitlements in GigaVUE-FM](#).
- GigaVUE-FM sends details about hardware SKUs, software SKUs, cloud SKUs, GigaVUE- OS version, and GigaVUE-FM version. It will not send details regarding Accessories SKUs, PSU or Fan information, Support SKUs, and GigaVUE Cloud Suite™ virtual inventory collection. The information is sent once a week during off-hours. The frequency is not configurable but can be adjusted by Gigamon staff. To adjust the frequency, you can reach out to [Technical Support](#). You need to open a one-way port for communication between GigaVUE-FM and Gigamon devices. All communications between GigaVUE-FM and Gigamon devices should be secure and encrypted. The information shared must also be encrypted. If sending information fails, the node will retry up to 3 times. GigaVUE-FM shares SKU-level information without any PII (Personally Identifiable Information) implications. No sensitive data, such as IP addresses, host names, or usernames/passwords, will be shared.

Volume Usage Event Notification

In the Volume Usage Event Notification, you can enable:

- **Status** — GigaVUE-FM sends a notification when the daily usage exceeds the allowance time threshold (in percentage).
- **Threshold (%)** — You can configure the percentage of threshold beyond which GigaVUE-FM sends a notification.

To enable Volume Usage Event Notification:

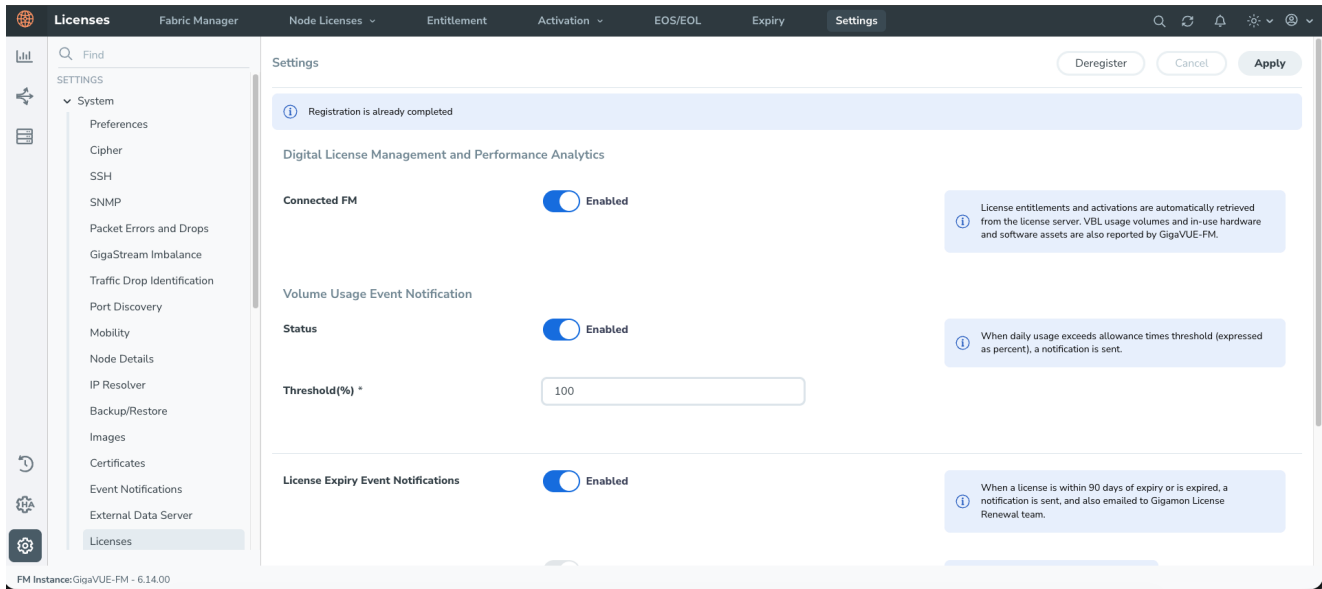
1. Go to  > **Licenses** > **Settings**.
2. Enable the **Volume Usage Event Notification** toggle button.

License Expiry Event Notifications

When you enable License Expiry Event Notifications, GigaVUE-FM sends a notification when a license is within 90 days of expiry or if it is expired and sends an email to the Gigamon License Renewal team.

To enable Volume Usage Event Notification:

1. Go to  > **Licenses** > **Settings**.
2. Enable the **License Expiry Event Notifications** toggle button.



Activate License using GigaVUE-FM

1. Go to **Entitlement** tab.
You can view the licensees purchased.
2. Click the quantity displayed in the available licenses field to activate the license.
3. You can view the **Activate License(s)** dialog box.
5. Enter the number of licenses that you want to activate.
6. Click **OK** to activate the license.

Reclaim Volume Based Floating Licenses using GigaVUE-FM

GigaVUE-FM allows to reclaim the licenses for Floating License. You can reclaim the unassigned license from one GigaVUE-FM instance and use it in another GigaVUE-FM. To reclaim the license, the GigaVUE-FM should be in connected mode.

To reclaim the floating license activations in GigaVUE-FM:

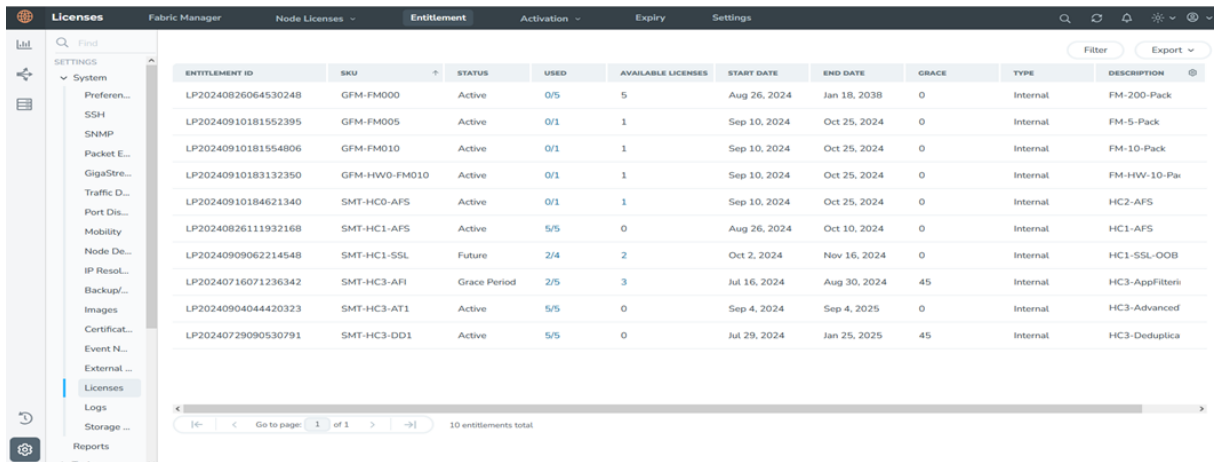
1. Select **Entitlements** tab on the top navigation bar.
2. Click the numbers in the **Used Licenses** column.
3. Click the check box next to the Activation ID that you want to reclaim.
4. Click **Reclaim**.

NOTE: You can reclaim license only from the GigaVUE-FM where the license is activated.

The Available Licenses column against the Entitlement ID displays the increase in the count by the number of reclaimed licenses.

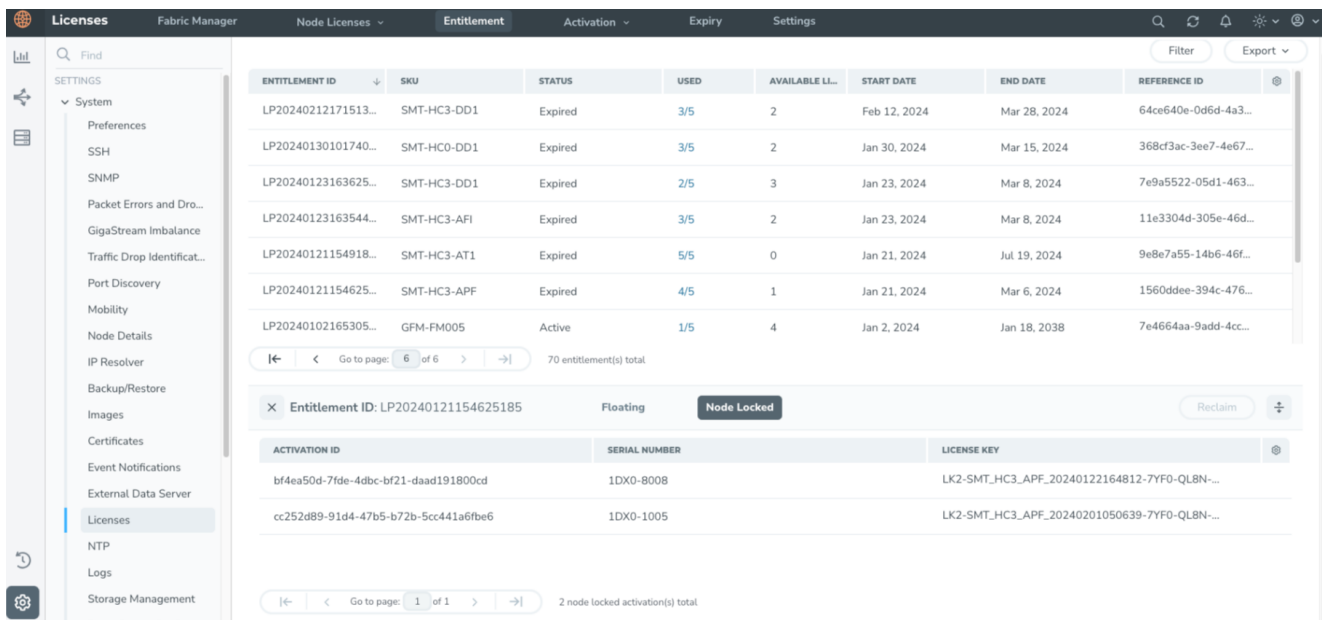
View Entitlements in GigaVUE-FM

After successfully registering GigaVUE-FM with the license portal, you can view the SKUs you purchased and the licenses you are entitled to in GigaVUE-FM. On the left navigation pane, click , and then select **Licenses > Entitlement**.



ENTITLEMENT ID	SKU	STATUS	USED	AVAILABLE LICENSES	START DATE	END DATE	GRACE	TYPE	DESCRIPTION
LP20240826064530248	GFM-FM000	Active	0/5	5	Aug 26, 2024	Jan 18, 2038	0	Internal	FM-200-Pack
LP20240910181552395	GFM-FM005	Active	0/1	1	Sep 10, 2024	Oct 25, 2024	0	Internal	FM-5-Pack
LP20240910181554806	GFM-FM010	Active	0/1	1	Sep 10, 2024	Oct 25, 2024	0	Internal	FM-10-Pack
LP20240910183132350	GFM-HW0-FM010	Active	0/1	1	Sep 10, 2024	Oct 25, 2024	0	Internal	FM-HW-10-Pa
LP20240910184621340	SMT-HC0-AFS	Active	0/1	1	Sep 10, 2024	Oct 25, 2024	0	Internal	HC2-AFS
LP20240826111932168	SMT-HC1-AFS	Active	5/5	0	Aug 26, 2024	Oct 10, 2024	0	Internal	HC1-AFS
LP20240909062214548	SMT-HC1-SSL	Future	2/4	2	Oct 2, 2024	Nov 16, 2024	0	Internal	HC1-SSL-OOB
LP20240716071236342	SMT-HC3-AFI	Grace Period	2/5	3	Jul 16, 2024	Aug 30, 2024	45	Internal	HC3-AppFilteris
LP20240904044420323	SMT-HC3-AT1	Active	5/5	0	Sep 4, 2024	Sep 4, 2025	0	Internal	HC3-Advanced
LP20240729090530791	SMT-HC3-DD1	Active	5/5	0	Jul 29, 2024	Jan 25, 2025	45	Internal	HC3-Deduplica

The number in the **Used** column denotes the licenses used by the GigaVUE-FM or the device from the entitled license. The number in the numerator represents the number of activated licenses, and the denominator denotes the total number of licenses. When you click on the link in the Used column, you can view the license details for that entitlement at the bottom of the screen, as shown in the figure.



ENTITLEMENT ID	SKU	STATUS	USED	AVAILABLE LI...	START DATE	END DATE	REFERENCE ID
LP20240212171513...	SMT-HC3-DD1	Expired	3/5	2	Feb 12, 2024	Mar 28, 2024	64ce640e-0d6d-4a3...
LP20240130101740...	SMT-HC0-DD1	Expired	3/5	2	Jan 30, 2024	Mar 15, 2024	368cf3ac-3ee7-4e67...
LP20240123163625...	SMT-HC3-DD1	Expired	2/5	3	Jan 23, 2024	Mar 8, 2024	7e9a5522-05d1-463...
LP20240123163544...	SMT-HC3-AFI	Expired	3/5	2	Jan 23, 2024	Mar 8, 2024	11e3304d-305e-46d...
LP20240121154918...	SMT-HC3-AT1	Expired	5/5	0	Jan 21, 2024	Jul 19, 2024	9e8e7a55-14b6-46f...
LP20240121154625...	SMT-HC3-APF	Expired	4/5	1	Jan 21, 2024	Mar 6, 2024	1560ddee-394c-476...
LP20240102165305...	GFM-FM005	Active	1/5	4	Jan 2, 2024	Jan 18, 2038	7e4664aa-9add-4cc...

Entitlement ID: LP20240121154625185			Floating	Node Locked	Reclaim
ACTIVATION ID	SERIAL NUMBER	LICENSE KEY			
bf4ea50d-7fde-4dbc-bf21-daad191800cd	1DX0-8008	LK2-SMT_HC3_APF_20240122164812-7YF0-QL8N...			
cc25d89-91d4-47b5-b72b-5cc441a6f8e6	1DX0-1005	LK2-SMT_HC3_APF_2024021050639-7YF0-QL8N...			

You can view the tab :

- **Floating**—The **Floating** tab allows you to view the device's details, such as the Activation ID, Serial number, and License Key.

View List of Unlicensed Hardware in GigaVUE-FM

Starting from 5.12, you must purchase chassis license and card license for device license. You can view the license that you have obtained for device license in GigaVUE-FM. To view the license:

1. Go to **GigaVUE-FM** .
2. Go to **Settings**.
3. Select **System** > **Licenses**.
4. On the top navigation bar, click **Activation** drop-down list box and select **Unlicensed Hardware**.

You can view the list of chassis license and card license for device license.

View End of Support or End of Life Licenses Details

GigaVUE-FM allows you to view the license details of SKU that are nearing or have reached End of Support (EOS) or End of Life (EOL). You can view the details for SKUs used in:

- Physical nodes
- Virtual nodes
- GigaVUE-FM

To view the details:

1. In GigaVUE-FM, go to **Settings**.
2. Select **System** > **Licenses**.
3. On the top navigation bar, click the **EOS/EOL**.

The **End-of-Sale/End-of-Life SKUs** page shows node license and card license details for SKUs that are nearing or have reached EOS/EOL, as shown:

At the top of the page, select one of the following tabs based on the information that you want to view:

- **Physical** - Information for physical nodes.
- **Virtual** - Information for virtual nodes.
- **FM**- Information for GigaVUE-FM.

To get the latest EOS/EOL SKU details from the Gigamon Community portal, click **Download EOS/EOL** at the top right corner of the page. You can download the files in **CSV** or **XLSX** format.

To update the GigaVUE-FM with the latest license details for the SKUs, click **Upload EOS/EOL** and upload the **CSV** or **XLSX** file you downloaded to your machine.

Upgrade and Downgrade License Packages

- Upgrading of license packages is available at all times.
- To purchase a new license, please contact Gigamon Sales Representative.
- Licenses can be either term or perpetual licenses.
- Licenses can be upgraded from Base to either a 60 day evaluation or to a paid version.
- Licenses can be deleted and re-entered as long as the MAC address tied to the license is still valid.

In case of expiration of the evaluation license, GigaVUE-FM will revert back to supporting only 1 physical and 1 virtual node.

The list below shows the node priorities in case a License is invalid and nodes are deactivated. In such a case, the nodes will be visible but deactivated. They can be re-activated if the license is reinstalled. This is especially important if the evaluation license expires and you need extra time to enter a valid license.

(1) If a cluster exists:

- Leader
 - In case of multiple clusters, the cluster with the top level priorities as shown in standalone will take over. For example, a cluster with leader as GigaVUE-FM and GigaVUE-OS-HC1P will have preference over a cluster with leader.
- Standalone node (*Based on the node priority levels as shown below*)
- Standby leader, in case the leader is removed
- Stack/Cluster member
- Unreachable
- Unknown

(2) If there is no cluster

- GigaVUE-HC3
- GigaVUE-HC1
- GigaVUE-FM and GigaVUE-OS-TA200

In cases where nodes have connectivity issues as listed below, the next level nodes as shown in Scenarios (1) and (2) will take effect:

- Nodes should not have any connectivity issue
- Nodes can be reached but node response has parsing problem
- Nodes can be reached but authentication is invalid
- Node cannot be reached
- Nodes cannot be added

Licenses Catalog

GigaVUE-FM License

GigaVUE-FM is provisioned by default with a base license. With the base license you can add one physical node, one virtual node, and 10 virtual tap points for each of the applicable cloud platforms. Contact your Gigamon representative to get an evaluation license for GigaVUE-FM.

Table 1: GigaVUE-FM Evaluation License Package

License Types	Physical Nodes	Virtual Nodes	OpenStack/AWS/Azure	Features available	Notes
GigaVUE-FM Evaluation	Up to 200	1 (included as Base)	10 Virtual TAP Points	All features available with Prime for the evaluation period.	License automatically expires after 45 days.

Evaluation licenses are not recommended for deployment in production environment. At the end of the evaluation period, if you fail to upgrade GigaVUE-FM to a fully licensed version, the features are disabled automatically.

NOTE: To run only GigaVUE V Series, there is no requirement to purchase additional licenses for GigaVUE-FM. For information about GigaVUE-FM and GigaVUE-OS V Series licensing, refer to the *GigaVUE Cloud Suite Deployment Guide - VMware*.

GigaVUE-FM License Packages

Upgrade packages for GigaVUE-FM are available if you have already purchased GigaVUE-FM. The packages allow users to upgrade from a 5-pack option to a 10-pack or a Prime package. There is also an option to upgrade from a 10-pack to a Prime package. To find out more about the upgrade purchase, contact your Gigamon Sales representative.

The following table summarizes the GigaVUE-FM License packages.

Table 2: GigaVUE-FM License Packages

Features	Base / Evaluation License (Free of charge)	5-Pack	10-Pack	Prime
Physical Node Count	1	Up to 5	Up to 10	¹ Greater than 10 nodes.
Rest API	Yes	Yes	Yes	Yes
Audit, Events Logs	Yes	Yes	Yes	Yes
Firmware Upgrade	Yes	Yes	Yes	Yes
Configuration Backup	Yes	Yes	Yes	Yes
Dashboard	Only the following Static Widgets are displayed: • Top 10 Network Ports by Traffic • Top 10 Tool Ports by Traffic • Top 10 Maps by Traffic • Audit Logs By Result • Events By Severity • Ports Link Status Summary • Unhealthy Maps Status Summary • Unhealthy Flows	Customizable	Customizable	Customizable
Reports	No	Yes	Yes	Yes
Trending Data	1 Day	1 Week	1 Month	1 Month

¹Refer to the GigaVUE-FM specifications for the maximum number of nodes.

GigaVUE-FM Licenses

GigaVUE-FM is provisioned by default with a base licenses that uses the node-locked (fixed) licensing model. With the base license you can add one physical node, one virtual node, and 10 virtual tap points for each of the applicable cloud platforms. Contact your Gigamon representative to get an evaluation license for GigaVUE-FM.

Table 1: GigaVUE-FM Evaluation License Package

License Types	Physical Nodes	Virtual Nodes	OpenStack/AWS/Azure	Features available	Notes
GigaVUE-FM Evaluation	Up to 200	1 (included as Base)	10 Virtual TAP Points	All features available with Prime for the evaluation period.	License automatically expires after 60 days.

Evaluation licenses are not recommended for deployment in production environment. At the end of the evaluation period, if you fail to upgrade GigaVUE-FM to a fully licensed version, the features are disabled automatically.

NOTE: To run only GigaVUE-VM, there is no requirement to purchase additional licenses for GigaVUE-FM. For information about GigaVUE-VM licensing, refer to the *GigaVUE Cloud Suite Deployment Guide - VMware*.

GigaVUE-FM License Packages

Upgrade packages for GigaVUE-FM are available if you have already purchased GigaVUE-FM. The packages allow users to upgrade from a 5-pack option to a 10-pack or a Prime package. There is also an option to upgrade from a 10-pack to a Prime package. To find out more about the upgrade purchase, contact your Gigamon Sales representative.

The following table summarizes the GigaVUE-FM License packages.

Table 2: GigaVUE-FM License Packages

Features	Base / Evaluation License (Free of charge)	5-Pack	10-Pack	Prime
Physical Node Count	1	Up to 5	Up to 10	¹ Greater than 10 nodes.
Rest API	Yes	Yes	Yes	Yes
Audit, Events Logs	Yes	Yes	Yes	Yes
Firmware Upgrade	Yes	Yes	Yes	Yes

Features	Base / Evaluation License (Free of charge)	5-Pack	10-Pack	Prime
Configuration Backup	Yes	Yes	Yes	Yes
Dashboard	Only the following Static Widgets are displayed: • Top 10 Network Ports by Traffic • Top 10 Tool Ports by Traffic • Top 10 Maps by Traffic • Audit Logs By Result • Events By Severity • Ports Link Status Summary • Unhealthy Maps Status Summary • Unhealthy Flows	Customizable	Customizable	Customizable
Reports	No	Yes	Yes	Yes
Trending Data	1 Day	1 Week	1 Month	1 Month

¹Refer to the GigaVUE-FM specifications for the maximum number of nodes.

GigaVUE-OS and GigaVUE-OS Module Licenses

You must consider some of the following points:

- GigaVUE-OS and GigaVUE-OS Module licenses support both Term and Perpetual licensing.
- You can activate the GigaVUE-OS and GigaVUE-OS Module licenses from the Gigamon Licensing portal or from the GigaVUE-FM GUI. Refer to [Manage GigaSMART Application Licenses using GigaVUE-FM](#):
 - When assigning GigaVUE-OS licenses, only the relevant chassis (based on the model) is available for assignment (GigaVUE-HC1, GigaVUE-HC3, GigaVUE-HC1-Plus) based on the specific SKU.
 - When assigning GigaVUE-OS module licenses, only the relevant cards (based on the card type) is available for assignment (PRT-, BPS-, TAP-, SMT-) based on the specific SKU of the card.
- Activation of licenses from GUI is applicable only for the following devices:
 - GigaVUE-HC1
 - GigaVUE-HC1-Plus
 - GigaVUE-HC3

- Devices must be running software version 6.2.00. GigaVUE-FM does not allow you to activate licenses for devices running earlier software versions.
- You cannot transfer the GigaVUE-OS and GigaVUE-OS Modules licenses across chassis and cards.
- On the GigaVUE-OS and GigaVUE-OS Module licenses that are activated from the GigaVUE-FM GUI, an F-icon is displayed.

Refer to the [GigaVUE HC Series Data Sheet](#) for the license SKUs.

Supported Hardware Devices

The following table shows the licenses applicable for the GigaVUE HC series and TA series devices and expiry of the license.

License Type	Supported Platforms	Installation of License	Uninstallation/Expiry of License	Term License Behavior
GigaVUE-OS License	• GigaVUE-HC1/ GigaVUE-HC1-Plus • GigaVUE-HC3	• Chassis will be operationally up and active.	• All the modules except the CC cards will be in shutdown state. • You cannot bring the cards up through CLI or GigaVUE-FM until the licenses are renewed.	Refer to Term License Behavior after expiry for details.
	• GigaVUE-TA25 • GigaVUE-TA25E • GigaVUE-TA200 • GigaVUE-TA200E • GigaVUE-TA400	• Default ports will be up and active. • Non-default ports (Pseudo slot) will require appropriate port license.	• All ports in the device will go to inactive state. • Port level configurations (such as, admin enable, port type change) are not allowed until licenses are renewed.	

License Type	Supported Platforms	Installation of License	Uninstallation/Expiry of License	Term License Behavior
	GigaVUE-TA400E	Default ports will be up and active until 100Gb speed. To upgrade to 400Gb speed, you require an upgrade license.	All ports in the device will go to inactive state.	
GigaVUE-OS Module License	- GigaVUE-HC1/ GigaVUE-HC1-Plus - GigaVUE-HC3	Ports will be up and active.	- Ports will be in inactive state. - Port level configurations (such as, admin enable, port type change) are not allowed until licenses are renewed. Note: The GigaVUE-HC1-X12G4 card does not require a separate module license. The GigaVUE-OS license is used to bring up / down the card.	



Appropriate banner notifications will be displayed on expiry of licenses.



The Gigamon G-TAP/Dell platforms do not support GigaVUE-OS and GigaVUE-OS Module License. The GigaVUE TA Series devices do not support GigaVUE-OS Module license.

The following table provides additional details on the dependency between the chassis and the modules types for software version 5.12.00 and above (for the GigaVUE HC Series devices):

Chassis License Type	Module License Type	Dependency
Chassis with Hardware only license (-HW)	Module with Hardware only license (-HW card)	GigaVUE-OS license and GigaVUE-OS Module license are required for the chassis and the modules to be operationally up and active.
Chassis with integrated license	Module with integrated license	Base license required for chassis and module to be operationally up.

Chassis License Type	Module License Type	Dependency
Chassis with Hardware only license	Module with integrated license	GigaVUE-OS license is required for the modules to be operationally up. No license requirement for the ports.
Chassis with integrated license	Module with Hardware only license	GigaVUE-OS Module license is required for the ports to be in active state. No license requirement for the chassis.

If the GigaVUE-OS Module license expires on the BPS card, physical bypass is enabled on all protected inline-networks in the card, allowing traffic to be physically bypassed when licenses are expired.

Rules and Notes

- For OOB clusters, it is recommended to install license for all the nodes from the leader.
- For Inband clusters, GigaVUE-OS and GigaVUE-OS module licenses (as applicable) must be installed in the individual nodes before the cluster is formed.
- On expiry of the GigaVUE-OS or GigaVUE-OS Module licenses:
 - Inband cluster will break.
 - Logical inline traffic flows will get affected.
 - `config switch-to` will fail.
 - Switching to FIPS/Crypto Mode will fail

NOTE: Renew the licenses for the above functionality/commands to work.

Troubleshooting Scenarios

Use the following table to troubleshoot issues that you might encounter on expiry of the GigaVUE-OS and GigaVUE-OS Module licenses.

Problem	Solution
On expiry of the GigaVUE-OS Module license, installing the new term license or perpetual license will not move the ports to active state.	• Uninstall the new license and re-install it. • Execute the <code>write memory</code> command after installing the license.
GigaVUE TA Series devices:	• Uninstall the new license and re-install it.

Problem	Solution
On expiry of the GigaVUE-OS license, installing the new term license or perpetual license will not bring up the cards.	Execute the write memory command after installing the license.
GigaVUE HC Series devices: On expiry of the GigaVUE-OS license, installing the new term license or perpetual license will not bring up the cards.	- Execute the no card slot <slot number> down command for all the cards. - If the problem persists, uninstall the new license and re-install it. - Execute the write memory command after installing the license.
During new cluster formation or adding a node to a cluster, the leader does not detect member nodes license that have been installed before the cluster formation.	- Install the member nodes license once again from the leader after the cluster is formed. - If the problem persists, uninstall the new license and re-install it. - Execute the write memory command.

GigaSMART Application Licenses

GigaSMART applications improve network visibility, traffic handling, and tool efficiency. You need licensing keys to enable GigaSMART applications in the devices. GigaSMART licenses can be procured as either node-locked or floating and are available in the following licensing models:

License	Features
GigaSMART Packet Slicing	Base license available on GigaVUE HC Series nodes.
GigaSMART Masking	Base license available on GigaVUE HC Series nodes.
Using GigaSMART Trailers	Base license available on GigaVUE HC Series nodes.
GigaSMART IP Encapsulation/Decapsulation (GigaSMART Tunnel)	Base license available on GigaVUE HC Series nodes.
GigaSMART Layer 2 GRE Tunnel Encapsulation/Decapsulation	Base license available on GigaVUE HC Series nodes.
GigaSMART VXLAN Tunnel Decapsulation	Base license available on GigaVUE HC Series nodes.
GigaSMART Custom Tunnel Decapsulation	Base license available on GigaVUE HC Series nodes.
Advanced Tunneling License/Tunneling License	Advanced Tunneling license on and GigaVUE-HC3. Referred to as "Tunneling license" on GigaVUE-HC1. It enable the following GigaSMART applications: - GigaSMART IP Encapsulation/Decapsulation (GigaSMART Tunnel) - GigaSMART Layer 2 GRE Tunnel Encapsulation/Decapsulation - GigaSMART VXLAN Tunnel Decapsulation

License	Features
	- GigaSMART Custom Tunnel Decapsulation - GigaSMART ERSPAN Tunnel Decapsulation
De-duplication License	Enables the GigaSMART De-duplication application.
Header Stripping License	Enables the GigaSMART Header Addition, GigaSMART Header Stripping.
Adaptive Packet Filtering (APF) License	Enables the GigaSMART Adaptive Packet Filtering (APF).
Application Filtering Intelligence License	Enables both Application Session Filtering and Adaptive Packet Filtering (APF) License.
Application Metadata Intelligence License	Enables Application Metadata Intelligence license.
GTP Filtering and Correlation License	Enables the following GigaSMART applications: - GigaSMART GTP Correlation - GigaSMART GTP Whitelisting and GTP Flow Sampling - GTP Scaling - GTP Stateful Session Recovery
SIP/RTP Correlation License	Enables the GigaSMART SIP/RTP Correlation
FlowVUE License	Enables the GigaSMART FlowVUE license
NetFlow Generation License	Enables the GigaSMART NetFlow Generation
SSL Decryption License	Enables the following GigaSMART applications: - GigaSMART Passive SSL Decryption - GigaSMART SSL Decryption for Inline and Out-of-Band Tools NOTE: GigaSMART load balancing does not require a separate license. Stateless load balancing is included with base licenses. Stateful load balancing for GTP and ASF are included with the GTP Filtering & Correlation and Application Session Filtering (ASF) licenses. Stateful load balancing for tunnel is included with the tunneling licenses. Refer to GigaSMART Load Balancing in GigaVUE Fabric Management Guide. NOTE: GigaSMART MPLS traffic performance enhancement does not require a separate license. Refer to GigaSMART MPLS Traffic Performance Enhancement in GigaVUE Fabric Management Guide.

GigaSMART licenses can be purchased individually or as bundles. Refer to the [GigaSMART Data Sheet](#) for the GigaSMART License SKU for the various devices.

NOTE: Bundled features can only run on the corresponding GigaSMART hardware.

GigaSMART Tunnel Licenses

GigaSMARTTunnel Encapsulation and Decapsulation features are supported for the base license, tunnel license and advance license as given in the table:

Tunnel Encapsul ation and Decapsul ation	Base License					Tun nel Lice nse	Advance License			
	Gen2		Gen3			Gen2	Gen2	Gen3		
	SMT-HC1-BSE	SMT-HC3	SMT-HC1-S	GVS-HC1P SW	SMT-HC3-GEN3	SMT-HC1-TUN	SMT-HC3-ATI	SMT-HC1P-GEN3-ATI	SMT-HC1-GEN3-ATI	SMT-HC3-GEN3-ATI
GigaSMART IP Encapsula tion (GigaSMA RT Tunnel)	Support ed	Support ed	Not Support ed	Not Support ed	Not Support ed	Support ed	Not Support ed	Not Support ed	Not Support ed	Not Support ed
GigaSMART IP Decapsula tion (GigaSMA RT Tunnel)	Support ed	Support ed	Not Support ed	Not Support ed	Not Support ed	Support ed		Not Support ed	Not Support ed	
GigaSMART Layer 2 GRE Tunnel Encapsula tion	Support ed	Support ed	Support ed	Support ed	Support ed	Support ed		Support ed	Support ed	
GigaSMART Layer 2 GRE Tunnel Decapsula tion	Support ed	Support ed	Support ed	Support ed	Support ed	Support ed		Support ed	Support ed	
GigaSMART VXLAN Tunnel	Not Support ed	Not Support ed	Support ed	Support ed	Support ed	Not Support ed		Support ed	Support ed	

Tunnel Encapsulation and Decapsulation	Base License					Tunnel License	Advance License			
Encapsulation										
GigaSMART VXLAN Tunnel Decapsulation	Supported	Supported	Supported	Supported	Supported	Supported		Supported	Supported	
GigaSMART Custom Tunnel Decapsulation	Supported	Supported	Supported	Supported	Supported	Supported		Supported	Supported	
GigaSMART ERSPAN Tunnel Decapsulation	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Supported	Supported	Supported	Supported	Supported

Notes

- ERSPAN is not supported with the base license and is not listed when you use the command **show license**.
- Advance licensing for GigaVUE-FM and GigaVUE-OS-HC3 Gen3 and GigaVUE-FM and GigaVUE-OS-HC3 Gen2 installs only ERSPAN and TLS-PCAPng.
- Advance licensing for GigaVUE-FM and GigaVUE-OS-HC1 Gen3 and GigaVUE-FM and GigaVUE-OS-HC1P Gen3 installs both ERSPAN and base license (that supports to configure remaining tunnel types).
- Tunnel license is available only for the GigaVUE-FM and GigaVUE-OS-HC1 Gen2 card.
- Advanced Tunnel license is required for GigaVUE-FM and GigaVUE-OS TA series tunnel support. For GigaVUE-FM and GigaVUE-OS H Series, no specific license is required.

Combine Evaluation and Perpetual Licenses for GigaSMART applications

An evaluation license can be for a number of GigaSMART applications combined in a bundle. If you have a perpetual license for one GigaSMART application, for example, de-duplication, and you want to evaluate a bundle that contains 10 GigaSMART applications, including de-duplication, the 60-day evaluation period will apply to the other 9 GigaSMART applications, while the perpetual license will apply to de-duplication.

If you obtain a perpetual license after an evaluation license, the perpetual license will overwrite the evaluation license.

Move Evaluation and Perpetual Licenses

Evaluation and perpetual license keys are saved on the GigaSMART line card or module, while license information is stored in the configuration database. The license key on the line card or module has to match the license information stored in the database, otherwise a license mismatch will result.

License Key Saved on GigaSMART Line Card/Module	License Information Stored on Configuration Database	Can be Moved?
Perpetual License	Evaluation License	Yes
Evaluation License	Perpetual License	No
Evaluation License with an earlier expiry date than the one stored on the configuration database	Evaluation License	No
Evaluation License with a later expiry date than the one stored on the configuration database	Evaluation License	Yes

Volume-Based Licenses (Cloud License)

All the GigaVUE V Series Nodes connected to GigaVUE-FM periodically report statistics on the amount of traffic that flows through the V Series Nodes. The statistics reflect the data volume flowing through the V Series Nodes, with the usage statistics of all licensed applications that run on these nodes.

GigaVUE Cloud Suite uses volume-based licensing (VBL), available as monthly subscription licenses. In the Volume-based Licensing (VBL) scheme, specific applications on the V Series Nodes are entitled to a specified amount of total data volume over the term of the license.

Distributing the license to individual nodes becomes irrelevant for Gigamon accounting purposes. GigaVUE-FM monitors overall consumption across all nodes and tracks individual application usage and overages.

Related Information

- [Contact Sales](#): For purchasing licenses with the Volume-Based License (VBL) option.
- For more information, refer to the Data Sheet for the required GigaVUE Cloud Suite.

Base Bundles

In volume-based licensing scheme, licenses are offered as bundles. The following three base bundle types are available:

- CoreVUE
- NetVUE
- SecureVUE Plus

The bundles are available as SKUs¹. The SKUs are named such that the number indicates the total volume allowance of the SKU for that base bundle. For example, VBL-250T-BN-CORE indicates a daily volume allowance of 250 Terabytes (250T) for the CoreVUE bundle.

The features supported for base bundle licenses are given in the following table:

Feature	CoreVUE	NetVUE	SecureVUE Plus
Slicing	√	√	√
Masking	√	√	√
Advanced Load Balancing	√	√	√

¹Stock Keeping Unit. Refer to the [What is a License SKU?](#) section in the FAQs for Licenses chapter.

Feature	CoreVUE	NetVUE	SecureVUE Plus
Advanced Tunneling	√	√	√
Deduplication	-	√	√
NetFlow Generation	-	√	√
Adaptive Packet Filtering (APF)	-	-	√
Application Filtering Intelligence (AFI)	-	-	√
Application Metadata Intelligence (AMI)	-	-	√
Application Metadata Exporter (AMX)	-	-	√
Inline Decryption	-	-	√
OOB Decryption	-	-	√
Precryption	-	-	√
Gigamon Enriched Metadata	-	-	√

Bundle Replacement Policy

Refer to the following notes:

- You can only upgrade to a higher bundle.
- You cannot have two different base bundles at the same time. However, you can have multiple base bundles of the same type.
- As soon as you upgrade to a higher bundle, the existing lower bundles are automatically deactivated.

Add-on Packages

GigaVUE-FM allows you to add add-on packages to the base bundles. These add-on packages allow you to add additional applications to your base bundles. Add-on packages have their own start/end date and volume specifications.

The following add-on SKUs are available:

- VBL-50T-ADD-5GC
- VBL-250T-ADD-5GC

- VBL-2500T-ADD-5GC
- VBL-25KT-ADD-5GC

Rules for add-on packages:

- An active base bundle is required to use an Add-on package.
- Your base bundle limits the total volume usage of the add-on package in the following ways:
 - If the volume allowance of your add-on package is less than the base bundle, then your add-on package can only handle the volume allocated for the add-on package.
 - When the life term of an add-on package extends beyond the base bundle, and the base bundle expires, the add-on package's volume allowance is reduced to zero until you add a new base bundle.
 - The total volume is cumulative when multiple base bundles of the same type are active within the same time interval.

For more information about SKUs, refer to the respective Data Sheets as follows:

- [GigaVUE Cloud Suite for VMware Data Sheet](#)
- [GigaVUE Cloud Suite for AWS Data Sheet](#)
- [GigaVUE Cloud Suite for Azure Data Sheet](#)
- [GigaVUE Cloud Suite for OpenStack](#)
- [GigaVUE Cloud Suite for Nutanix](#)

How GigaVUE-FM Tracks Volume-Based License Usage

GigaVUE-FM applies the following methods to track the license usage for each GigaVUE V Series Node:

- When you create and deploy a monitoring session, GigaVUE-FM allows you to use only applications with active licenses.
- When a license expires, you are notified with an audit log. For more information, refer to the *About Audit Logs* section in the respective GigaVUE Cloud Suite Deployment Guide.
- When a license expires (and has not been renewed yet), the monitoring sessions using the corresponding license are not undeployed.
- For releases prior to 6.4:
 - The Monitoring Sessions using the corresponding license are undeployed, but not deleted from the database.
 - Any undeployed monitoring sessions are redeployed when you renew a license or newly import the same.

NOTE: GigaVUE-FM displays a notification on the screen when the license expires.

Default Trial Licenses

After installing GigaVUE-FM, you receive a one-time, free 1TB SecureVUE Plus trial Volume-Based License (VBL) for 60 days, starting from the installation date.

This license includes the following applications:

- ERSPAN
- GENEVE
- Slicing
- Masking
- Trailer
- Tunneling
- Load Balancing
- Enhanced Load Balancing
- Flow map
- Header Stripping
- Header Addition
- De-duplication
- NetFlow
- Application Packet Filtering
- Application Filtering Intelligence
- Application Metadata Intelligence
- Application Metadata Exporter
- Inline SSL
- SSL Decrypt
- Precryption

NOTE: If you do not have any other volume-based licenses installed, the deployed monitoring sessions are undeployed from the existing GigaVUE V Series Nodes after 60 days at the expiration of the trial license.

When you install a new Volume-Based License (VBL), the existing trial license remains active alongside the new VBL. When the trial license period expires, it is automatically deactivated. After deactivation, the trial license moves to the Inactive tab on the VBL page.

License Requirements for Monitoring Sessions

You must use one of the following GigaVUE Cloud Suite™ licenses to deploy any supported application in a Monitoring Session:

- CoreVUE Base Bundle (minimum required)
- NetVUE

- SecureVUE Plus

The default GigaVUE-FM licenses do not provide entitlement for deploying Monitoring Session applications.

The default trial VBL license (SecureVUE Plus) will support deploying applications in Monitoring Sessions only for the duration of the trial license.

Term License Behavior after expiry

Gigamon offers a uniform 45 day window of time after a term license expires during which normal operation continues. During the time window:

- There is no impact to the flow of traffic.
- Creating new maps and editing existing map configurations are allowed.
- Appropriate notifications are displayed in GigaVUE-OS CLI and GigaVUE-FM.

At the end of the 45 day window, you will not be allowed to create new maps or edit existing maps. There is no impact to the flow of traffic during 45 days and beyond.

The following tables summarizes the configuration behavior based on the state of the license for the different license types.

For GigaVUE HC Series devices:

License State	Restrictions / Permissions	GigaVUE-OS License	GigaVUE-OS Module License	GigaSMART License
Not Installed	All cards in the node will be in a down state.	✓	-	-
	All ports of the card will be in an inactive state.	-	✓	-
	Configuring new maps with GigaSMART operations.	-	-	Cannot be configured
Upon Expiration	Creating new maps and editing existing maps.	✓	✓	✓
	Periodic notification from GigaVUE-FM and devices.	✓	✓	✓
	Banner Notification in CLI.	✓	✓	✓
At Expiration +45 days	Creating new maps and editing existing maps.	Cannot create new maps / edit existing maps		
	Periodic notification from GigaVUE-FM and devices.	✓	✓	✓
	Banner Notification in CLI.	✓	✓	✓

GigaVUE TA Series devices:

License State	Permissions / Restrictions	GigaVUE-OS License	Port License	Advance Feature License
Not Installed	All ports will be inactive.	✓	-	-
	Ports that need licenses for activation will be in an inactive state.	-	✓	-
	Enable Cluster.	-	-	✓
	Setting port type as Circuit port, Stack port.	-	-	✓
	Configure PTP in global and in port level (in TA200)	-	-	✓
	Configure Header stripping with VXLAN and MPLS-L3 in port-level.	-	-	✓
Upon Expiration	Creating new maps and editing existing maps.	✓	✓	-
	Periodic notification from GigaVUE-FM and devices.	✓	✓	-
	Banner Notification in CLI.	✓	✓	-
At Expiration +45 days	Creating new maps and editing existing maps.	Cannot create new maps / edit existing maps		-
	Periodic notification from GigaVUE-FM and devices.	✓	✓	-
	Banner Notification in CLI.	✓	✓	-

Term license behavior for **Inline Bypass license** is as follows:

License State	Restrictions for GigaVUE TA Series Devices
Not Installed	You are not allowed to configure inline network and inline tool ports.
Installed and not expired	You can: • Configure inline network and inline tool ports. • Edit port parameters (admin enable, port type change).
Upon Expiration	• You can create or edit flexible inline maps. • Periodic notification from GigaVUE-FM and devices. • Banner Notification in CLI.
At Expiration + 45 days	• You cannot create or edit flexible inline maps. • Periodic notification from GigaVUE-FM and devices. • Banner Notification in CLI.

Term license behavior for **Volume-Based Licenses** is as follows. For more information on Volume-Based Licenses, refer to [Volume-Based Licenses \(Cloud License\)](#) and [Manage Volume-based Licenses](#).

License State	Permissions / Restrictions
Not Installed	You are not allowed to create a Monitoring Session.
Installed and not expired	You can create, edit, delete, deploy, and redeploy a Monitoring Session.
Upon Expiration	- You cannot create, edit, deploy, or redeploy a Monitoring Session. - You can delete a Monitoring Session. - Traffic continues to pass.
At Expiration	- You cannot create, edit, deploy, or redeploy a Monitoring Session. - You can delete a Monitoring Session. - Traffic continues to pass.

Notification Banners for Licenses

Notification banners associated with licenses are displayed in the GigaVUE-FM GUI in the following scenarios:

- [Expiry of Licenses](#)
- [Excessive Volume Usage](#)
- [End of Sale and End of Life SKUs Licenses Notifications](#)

Until appropriate action is taken, these notification banners continue to be displayed in the GigaVUE-FM GUI:

- To temporarily close the banner, click the **X** button on the banner. The banner does not appear again until the next login session.
- To permanently clear the banners:
 - **Banners for expiry of licenses:** Renew the licenses or deactivate the licenses.
 - **Banners for excessive volume usage:** Add licenses with sufficient allowance to compensate for the deficient volume.

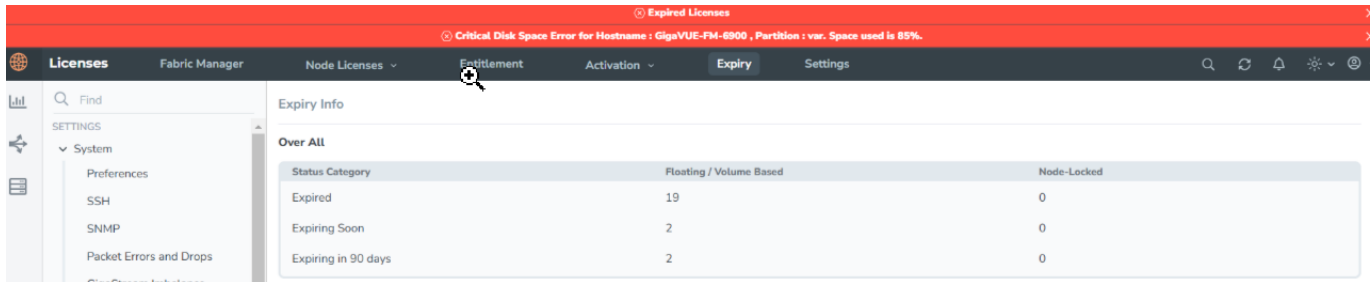
Expiry of Licenses

A notification banner is displayed in the GigaVUE-FM GUI when one of the following licenses expires:

- GigaSMART Licenses
- GigaVUE-OS Licenses

- GigaVUE-OS Module Licenses
- Volume-based Licenses

Click on the Expired Licenses banner ribbon. You will be navigated to the **License Expiry** tab from where you can view the detailed status of the expired licenses.



Note: License expiry notification banner will automatically disappear when you deactivate the license. This is applicable for Volume-based licenses, GigaSMART licenses, and GigaVUE-OS and GigaVUE-OS Module licenses when the following conditions are true:

- Licenses that are in Expired state.
- Floating licenses are not assigned to any node.

Excessive Volume Usage

In the Volume-based Licensing scheme, only licensed applications can be used to process the traffic. GigaVUE-FM calculates the volume usage of the licensed applications and displays the same in the Fabric Health Analytics dashboards and reports.

To compute excessive volume usage, GigaVUE-FM calculates the average volume usage (in Terabytes per day) every day, starting from the 15th day after the license is installed, for the previous 14-day period. If license usage is higher than twice the allowed licensed volume, then GigaVUE-FM GUI:

- Displays a notification banner in the GUI to indicate excessive volume usage.
- Triggers an event in the Events page. Refer to the [Event Notifications](#) section in the GigaVUE Administration Guide for details on configuring email notifications for events.

Refer to the [Notes](#) section for details on license upgrade scenarios.

Excessive Volume Usage calculation

GigaVUE-FM calculates excessive volume usage using the following parameters:

- Average Allowed License Volume per day (A)
- Average Volume Usage per day (U)

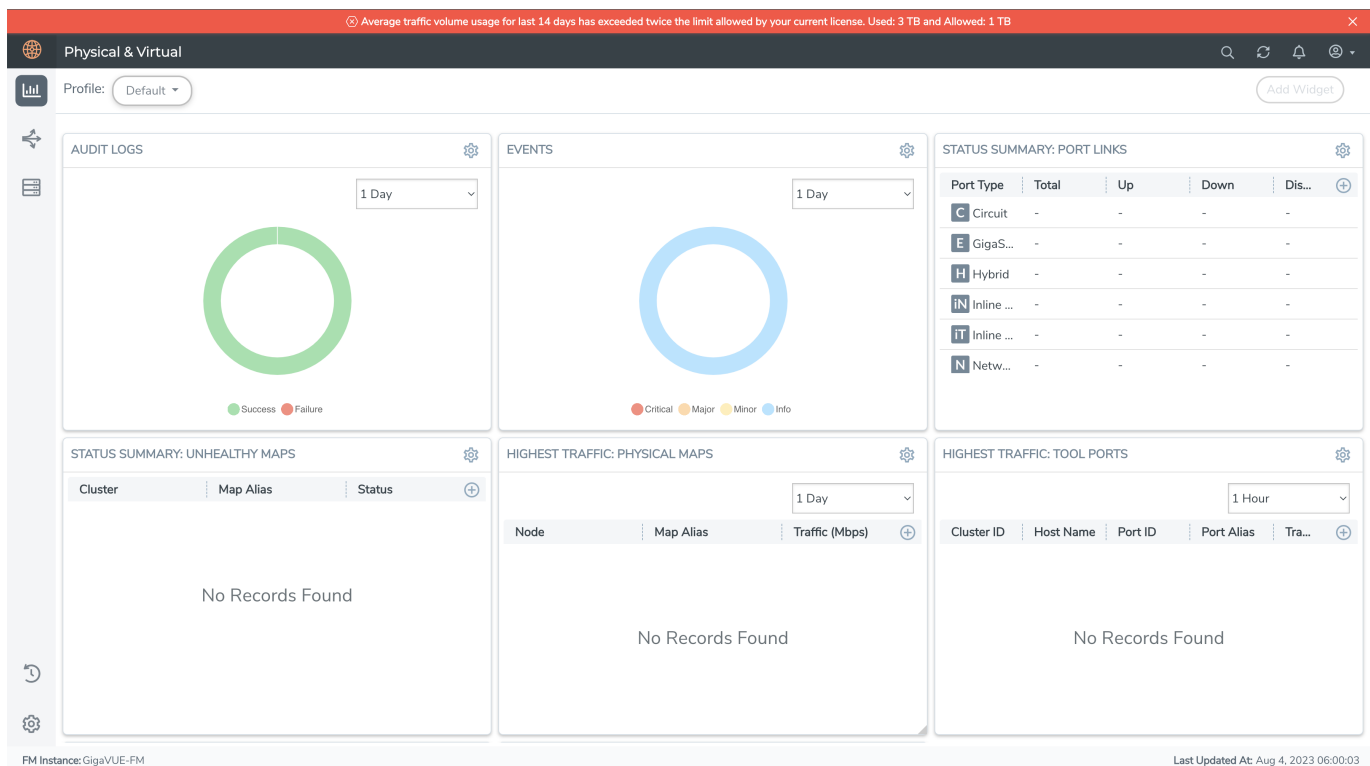
Ratio = Average Volume Usage per day (U)/ Average Allowed License Volume per day (A)

- If the U/A ratio is greater than or equal to 2, notification banners are triggered in the GUI. An event with a severity level of 'Critical' is displayed in the Events page.
- If the U/A ratio is equal to 1.25, an event with a severity level of 'Major' is displayed in the Events page.

Example:

For a VBL license, the allowed license volume **A** is 250 Terabytes per day. GigaVUE-FM calculates volume usage on a daily basis for the previous 14-day period starting from the 15th day. If the average usage **U** is 500 Terabytes on a particular day, then **U/A** is 2. Notification banners indicating excessive volume usage will be displayed in the GUI.

The average VBL usage is calculated on a daily basis and, therefore will be different for each day.



Notes

Refer to the following notes when upgrading licenses or importing additional licenses.

- When you upgrade the license, the licensed volume changes accordingly:
 - GigaVUE-FM does not display the excessive volume usage banner until the following midnight.
 - There is a net increase in the license allowance from the previous day to the next day (a behavior observed for the consecutive pair of days after licenses are upgraded). In this scenario, the banner will not be displayed for the upcoming 14-day period even if license usage is higher than twice the allowed licensed volume.
 - At the end of the 14-day period, the average volume usage (in Terabytes per day) is recalculated to determine if it is still over the 2x threshold. If it is more than the threshold ratio (2x), the banner is displayed in the GUI.

NOTE: Upgrade refers to upgrading to a higher bundle package or higher volume of the same bundle.

When you import additional licenses, the licensed volume changes accordingly:

- GigaVUE-FM does not display the excessive volume usage banner until the following midnight.
- GigaVUE-FM then re-evaluates if a banner should be displayed or not. If license usage is higher than twice the allowed licensed volume, then the banner is displayed.

NOTE: Additional licenses refer to licenses belonging to the same base bundle.

End of Sale and End of Life SKUs Licenses Notifications

GigaVUE-FM displays a notification banner to alert users when a device license is approaching or has reached its End of Sale (EOS) or when a SKU has reached an End of Life (EOL) status.

This notification system helps you to proactively manage device life cycles and support planning.

You can view the banner when you login to GigaVUE-FM. You can close it, and it stays hidden until you refresh the session and log in again. GigaVUE-FM refreshes the banner at midnight after related SKUs are upgraded.

When you click the banner it takes you to the EOL/EOS screen and provides you detailed information of the EOS/EOL. For more information on EOL/EOS screen, refer to [View End of Sale or End of Life SKUs Licenses Details](#)

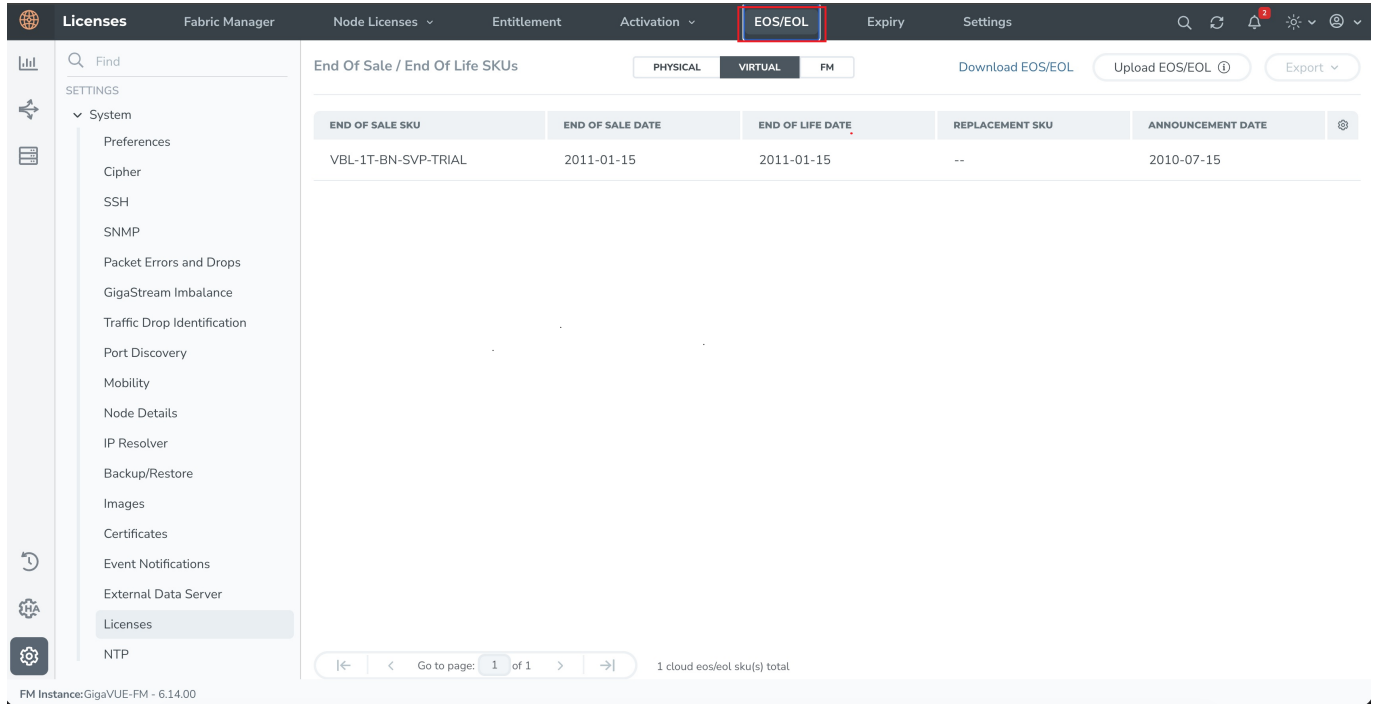
The color of the banner represents the following behavior:

- Yellow means the device is within one year of its EOS or EOL date.
- Red means the EOS or EOL date has passed (red overrides yellow).

View End of Sale or End of Life SKUs Licenses Details

To view the End of Sale or End of Life SKUs licenses details:

1. Go to  > **Settings** > **System** > **Licenses**.
2. Select **EOS/EOL** in the top navigation bar. The **End of Sale/End of Life SKUs** page appears.



The screenshot shows the GigaVUE-FM interface. The top navigation bar includes 'Licenses', 'Fabric Manager', 'Node Licenses', 'Entitlement', 'Activation', 'EOS/EOL' (highlighted), 'Expiry', and 'Settings'. The left sidebar shows 'Settings' > 'System' > 'Licenses' selected. The main content area is titled 'End Of Sale / End Of Life SKUs' and has tabs for 'PHYSICAL', 'VIRTUAL', and 'FM'. Below the tabs is a table with the following data:

END OF SALE SKU	END OF SALE DATE	END OF LIFE DATE	REPLACEMENT SKU	ANNOUNCEMENT DATE
VBL-1T-BN-SVP-TRIAL	2011-01-15	2011-01-15	--	2010-07-15

At the bottom of the table, there are buttons for 'Download EOS/EOL', 'Upload EOS/EOL', and 'Export'. A pagination bar at the bottom indicates 'Go to page: 1 of 1' and '1 cloud eos/eol sku(s) total'.

You can view the **End of Sale or End of Life SKUs** details. Use the tabs at the top to see details for Physical, Virtual, or FM options.

To download the EOS or EOL details from the community portal, click **Download EOS/EOL**. You can save the report to your local machine. If you do not see the latest EOS or EOL details in your GigaVUE-FM as shown in the community portal, upload the downloaded report into GigaVUE-FM.

To upload the latest EOS or EOL details, click **Upload EOS/EOL** and upload the downloaded file into GigaVUE-FM.

FAQs For Licensing

This section provides information about some of the issues that you may face while working with Licenses.

How to Clear License Mismatch when Moving Licenses Between Cards

A license mismatch may occur in the following cases:

- When a GigaSMART card crashes: It is possible for all licenses stored in the GigaSMART card to be erased.
- When moving licenses between cards.

In the above cases, the `show license` command output displays license-mismatch.

Re-install one of the licenses to clear the license-mismatch flag on the card. This allows you to continue using the card with the newly installed license.

NOTE: It is always recommended to execute `show license` command before installing a new license. Ensure to re-install all licenses that are lost.

How to Activate Volume Based License when GigaVUE-FM does not have network access?

In this case, the Fabric Inventory file (JSON file) downloaded from GigaVUE-FM cannot be uploaded in the Licensing portal. You must generate the license key manually by performing the following steps (applicable for):

On a system that can reach the License Portal:

1. Open a notepad and paste the below.

```
{  
  "virtualMac": "00:50:56:94:68:c1",  
  "fmSwVersion": "5.8.01",  
  "timeOfReportCreation": "2022-08-22T17:48:39Z",  
  "allocationMaps": [],  
  "revokedTargets": [],  
  "revokedFmLicences": []  
}
```

2. Change the virtualMAC to the MAC address of GigaVUE-FM and change the timeOfReportCreation to reflect current Zulu time.
3. Save and change the file extension to .json.

4. Log in to the License Portal and select the required Volume-based License and click **Activate**.
5. In the next step, select **Yes** to manage with GigaVUE-FM.
6. Choose the JSON that file you created.
7. Review the information and change quantity accordingly.
8. Generate the .lic file that you can download. Move this file to the network where GigaVUE-FM resides.
9. Log into GigaVUE-FM. Go to **Settings > Licenses > Floating > Activated > Activated Licenses > With License Portal**.
10. In the dialogue box, select Import License (.Lic). Select the license file downloaded. Click **Open > Continue**

The required Volume-based License is successfully activated.

How to Activate Floating License when GigaVUE-FM does not have network access?

To activate a floating license when GigaVUE-FM is in an air-gaped environment:

1. **Download the GigaVUE-FM Inventory File:** Export the inventory file (JSON format) from the GigaVUE-FM .
2. **Transfer the Inventory File to the License Portal:** Move the exported JSON file to a system that has network access and upload it to the License Portal.
3. **Generate the License File:** In the License Portal, use the imported inventory file to generate the required license file.
4. **Download the License File:** Download the generated license file from the License Portal to your local system.
5. **Transfer the License File to GigaVUE-FM:** Move the downloaded license file back to the GigaVUE-FM system, where activation must occur.
6. **Import the License File in GigaVUE-FM:** Use the GigaVUE-FM interface to upload and apply the license file to complete activation.

What is a Fabric Inventory File?

Fabric Inventory File is a JSON file that must be downloaded while activating the licenses. This file contains the following details.

- Details about GigaVUE-FM from which license is activated.
- Inventory of all the physical nodes connected to GigaVUE-FM.
- Inventory of GigaSMART cards within the nodes
- License information of each of the GigaSMART cards.

The file must then be uploaded in the Licensing Portal. Refer to [Activate floating licenses](#)

NOTE: The file is encrypted to prevent unauthorized use. However, you can obtain an unencrypted version of the inventory information (in JSON format) using the following API: <https://<fm-IP>/api/v1.3/licensing/inventory>.

For GigaVUE-FM, it contains:

- The Virtual MAC address of GigaVUE-FM (the primary GigaVUE-FMs MAC address in a HA group)
- Software version of GigaVUE-FM
- Time of report creation
- List of cards from which all license keys have been revoked (possibly because of card RMA)
- List of GigaVUE-FM license keys that have been revoked

For each of the devices connected to GigaVUE-FM, it contains:

- Serial number of the chassis
- IP address
- Host name
- The model of the chassis (GigaVUE-HC1 etc)
- Name of the chassis cluster to which it belongs
- The version of software running on the device
- Whether the device is healthy
- Information about all GigaSMART cards

For each GigaSMART Card

- Serial Number of the card
- Slot number in the chassis where the card is inserted
- The type of card
- Whether the card is healthy (operational etc.)

For each GigaSMART Card, the following information about all the license keys that are added on the card is collected:

- License SKU
- License start date

- License end date
- Encoded license key

What is a License SKU?

An SKU in the licensing portal is a unique identifier defined for the various products offered by Gigamon. Depending on the type of license, the SKU identifier varies. However, it has a consistent format.

The first three letters in the SKU indicate the product, as seen in the following table:

SKU	Product/Module
GFM	GigaVUE-FM
GVS	GigaVUE-OS
BPS	By Pass Switch
PRT	Port Module
SMT	GigaSMART Module
VL	Volume-based license
TAP	TAP module
CLS	Advanced Features

Where can I find the license SKUs for the various products?

You can find the license SKUs in the following product data sheets.

- [GigaVUE-FM Data Sheet](#)
- [GigaSMART Data Sheet](#)
- [GigaVUE HC Series Data Sheet](#)
- [GigaVUE TA Series Data Sheet](#)
- [GigaVUE Cloud Suite for VMware Data Sheet](#)
- [GigaVUE Cloud Suite for AWS Data Sheet](#)
- [GigaVUE Cloud Suite for Azure Data Sheet](#)
- [GigaVUE Cloud Suite for OpenStack](#)
- [GigaVUE Cloud Suite for Nutanix](#)
- [GigaVUE Cloud Suite for Kubernetes](#)

How do I know if a Gigamon appliance or module needs a GVOS license?

Use **show chassis** and **show card** CLI commands and check for **HW type** field. Any type that has an **-HW** suffix would require a license.

What if there is no -HW suffix on the chassis/card HW type? Would I need any license to make it work?

An appliance or module without **-HW** suffix can be used right after the installation without any restrictions.

NOTE: You might require some other licenses to activate additional features (see GigaVUE-FM and GigaVUE-OS TA Series licenses and GigaSMART licenses).

Can I have mix -HW hardware with non-HW? For example can I install an -HW card in a regular non-HW appliances?

Yes different types of hardware can be mixed. Each component is licensed separately so it allowed to have an -HW card on a non-HW chassis or vice versa.

What happens with an -HW chassis or card on a version below 5.12?

In GigaVUE-OS versions earlier than 5.12, the system does not identify any -HW components as hardware. Instead, it loads them as standard non-HW components that do not require a license. Users also cannot install a GigaVUE-OS license on versions 5.11 or earlier. After upgrading to version 5.12 or later, the system correctly identifies the component as -HW, and the component then requires a license to operate.

Provide some examples of a bifurcated licensing model SKU:

- **GVS-HC3A1** - Standard GigaVUE-HC3 Node that doesn't require a GigaVUE-OS license to operate.
- **GVS-HC3A1-HW** - Bifurcated SKU (GigaVUE-HC3 Node) and requires a GigaVUE-OS Node license to be purchased.
- **GVS-HC3A1-SW-TM** - GigaVUE-FM and GigaVUE-OS-OS Node license SKU for an -HW GigaVUE-HC3 appliance.
- **PRT-HC3-C08Q08** - Standard GigaVUE-FM and GigaVUE-OS-HC3 expansion card, doesn't require a GigaVUE-FM and GigaVUE-OS-OS license to operate.
- **PRT-HC3-C08Q08-HW** - Bifurcated SKU (GigaVUE-HC3 expansion card) and requires a GigaVUE-FM and GigaVUE-OS-OS card license to be purchased.
- **PRT-HC3-C08Q08-SW-TM** - GigaVUE-FM and GigaVUE-OS-OS card license SKU for an -HW GigaVUE-HC3 expansion card.

Glossary

D

decrypt list

need to decrypt (formerly blacklist)

decryptlist

need to decrypt - CLI Command (formerly blacklist)

drop list

selective forwarding - drop (formerly blacklist)

F

forward list

selective forwarding - forward (formerly whitelist)

L

leader

leader in clustering node relationship (formerly master)

M

member node

follower in clustering node relationship (formerly slave or non-master)

N

no-decrypt list

no need to decrypt (formerly whitelist)

nodecryptlist

no need to decrypt- CLI Command (formerly whitelist)

P

primary source

root timing; transmits sync info to clocks in its network segment (formerly grandmaster)

R

receiver

follower in a bidirectional clock relationship (formerly slave)

S

source

leader in a bidirectional clock relationship (formerly master)