

HPE Network Virtualization

Software Version: 9.13

Licensing Guide

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Hewlett Packard
Enterprise

Document Release Date: August 2017 | Software Release Date: August 2017

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The title page of this document contains the following identifying information:

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Network Virtualization Licensing

You need a valid license to use NV Test Manager.

Note: To check for recent updates of this or any other Network Virtualization documentation, visit the [HPE Network Virtualization Help Center](http://nvhelp.saas.hpe.com/en/9.13) (<http://nvhelp.saas.hpe.com/en/9.13>).

In this topic:

- ["License types" below](#)
- ["NV Test Manager License features" on the next page](#)
- ["NV Virtual Appliance License features" on page 6](#)


License types

The following license types are available. You install one license per NV Test Manager installation.

License type	Description	How to install
Trial	NV Test Manager is installed with a 14-day trial license. The trial license provides access to all product functionality (except for Virtual Appliance). The trial period begins the first time you use the product.	-
Seat	<p>A seat license is generated for a specific computer, and cannot be transferred to any other computer.</p> <p>Linux: Licenses from previous versions of NV are not supported. NV Test Manager must be re-licensed when upgrading.</p> <p>Integration with other HPE products:</p> <p>Use a seat license when integrating with HPE Mobile Center.</p>	"Install a seat license" on page 8
Floating	Floating licenses are shared dynamically between multiple NV Test Manager machines. This enables organizations to purchase only the number of licenses that they expect to be consumed concurrently, instead of individual seat license for every NV Test Manager.	"Install and use floating licenses" on page 9

NV Test Manager License features

The NV Test Manager license includes the following features:

Feature	Description
Emulation flows	<p>Defines the number of emulation flows that can run concurrently. Each test can include one or more emulation flows. A flow is a set of network impairments and conditions that are applied to the network traffic that moves between the client and server IP addresses that are specified in the flow.</p> <p>When installing or checking out a license, the number of emulation flows is subtracted from the purchased bank of emulation flows, as defined in the HPE license portal.</p> <h3>Bank of emulation flows</h3> <p>When purchasing Network Virtualization, the purchaser specifies the total number of emulation flows required for all potential licenses. This becomes the "bank" of emulation flows from which each NV Test Manager license can "check out" as many emulation flows as needed. Purchased emulation flows can be divided among all NV Test Manager installations, as shown in the following example.</p> <div style="border-left: 2px solid purple; padding-left: 10px;"><p> Example: If your company purchased 100 emulation flows, in the HPE license portal you can activate:</p><ul style="list-style-type: none">• 100 licenses—each with one flow• 30 licenses—10 with five flows, 15 with two flows, and 5 with four flows</div> <h3>Integration with other HPE products</h3> <p>Mobile Center. Each mobile device uses one emulation flow.</p> <p>UFT. Each UFT instance uses one emulation flow.</p>
NV Insights	Allows you to run the analysis routine to analyze test results and generate the NV Insights report.
Global Library	Allows you to import network profiles from the Network Virtualization Global Library. A network profile is a set of parameters that define network impairments and conditions.


NV Virtual Appliance License features

The NV Virtual Appliance license includes "NV Test Manager License features" on the previous page and the following feature:

Feature	Description
Virtual Appliance	Allows you to use the NV Virtual Appliance capabilities. For details, see the NV Virtual Appliance section in the HPE Network Virtualization Installation Guide (also available from the HPE Network Virtualization Help Center (http://nvhelp.saas.hpe.com/en/9.13)).

Open the NV License Manager

You can open the NV License Manager as follows:

From	Do this
Windows Start menu	Select All Programs > HPE Network Virtualization > NV License Manager .
NV Test Manager	From the menu in the top-right corner, click License Manager .
Web browser	Navigate to: <code>http(s)://<hostname>:<port>/shunra/license/</code> Default port. 8182  Example: <code>http://123.12.123.12:8182/shunra/license/</code>

Install a seat license

When using seat licenses, you must install a license on every computer on which NV Test Manager is installed.



Caution: Cloning a virtual machine on which NV Test Manager is installed will disable the license.

To install a seat license:

1. Determine the required number of [emulation flows](#) before you get started. You need to enter this number when generating the license in step 5, below.
2. Open the NV License Manager on the relevant computer.
3. Click **Install seat license**.
4. In the Install Seat license screen, copy the NV machine code (unique to your computer).
5. Navigate to the [HPE license portal](#) (requires an HPE Passport) to generate and download a license file.
6. In the NV License Manager, browse to the Install Seat license screen. In the **License file** box, select the license file you saved in the previous step.
7. Click **Update**. The updated license details are displayed in the NV License Manager main page.

Install and use floating licenses

Floating licenses are managed via HPE AutoPass. You install an AutoPass License Server from the Network Virtualization installation package.

You can check out a floating license for your NV Test Manager for up to the maximum number of days allowed (configurable in the AutoPass License Server up to a maximum of 30 days). When you return the license to the AutoPass License Server—either by checking it in or because the license expires—the license is returned to the license pool, so that it can be consumed by other NV Test Manager installations.

In this topic:

- ["Set up your AutoPass license server" below](#)
- ["Floating license types" below](#)


Set up your AutoPass license server

To begin using the AutoPass License Server, you must upload a license file that includes your floating licenses. Navigate to the [HPE license portal](#) (requires an HPE Passport) to generate and download the license file. Then install the license file on the AutoPass License Server machine as described in the AutoPass documentation (included in the Network Virtualization installation package). You will need the IP address of the AutoPass License Server machine.

Make sure that all NV Test Manager installations can access the AutoPass License Server over the defined port (by default, 5814).

Floating license types

Floating license type	Description	How to use
Commuter	Requires an active connection to the AutoPass License Server only when generating and downloading the license file, and when returning the license (if returned before it expires).	"Check out commuter licenses" on the next page

Floating license type	Description	How to use
Remote commuter	<p>A license that can be used without an active connection to the AutoPass License Server.</p> <p> Example: Alex needs a license for NV Test Manager, but cannot access the AutoPass License Server. So, Alex asks her colleague, Sarah, who has access to the AutoPass License Server, to generate a remote commuter license.</p> <p>Using the license request file received from Alex, Sarah generates and downloads a remote commuter license file and emails the license file to Alex. Alex then uploads the license file to the NV License Manager, checking out the license for NV Test Manager.</p>	<p>"Check out remote commuter licenses" on the next page</p>

Check out commuter licenses

A commuter license is a floating license that requires an active connection to the AutoPass License Server for the time it takes to check out and download the license file.

Licenses are held by the AutoPass License Server and are checked out as necessary for use by your NV Test Manager machine. You can check out a license for a specified number of days, at the end of which it is automatically returned to the AutoPass License Server. You can return a license early, if desired.

Check out a commuter license

1. Open the NV License Manager on the machine that needs to check out a license. For details, see ["Open the NV License Manager" on page 7](#).
2. Click **Check out commuter license**.
3. In the Check out Commuter license screen, enter the address and port of the AutoPass License Server and click **Connect**.
When successfully connected, the bottom of the screen becomes enabled.
4. In the **License duration (days)** box, enter the number of days to check out the license. You can check out a license up to a maximum number of days.
5. Select the features for which you want to check out a license. Only licensed features that are currently available are enabled.
6. Click **Check out license**. The license is checked out from the AutoPass License Server.

Return a commuter license

1. Open the NV License Manager on the machine that needs to return a license. For details, see ["Open the NV License Manager" on page 7](#).
2. Click **Check in commuter license** and approve the checkin in the confirmation message. The license is returned to the AutoPass License Server.

Check out remote commuter licenses

Remote commuter licenses are useful when NV Test Manager cannot access the AutoPass License Server, for example, if the server port is not accessible.

When using remote commuter licenses, licenses are held by the AutoPass License Server and are checked out to the NV License Manager for use by your NV Test Manager machine.

A license is checked out for a specified number of days, at the end of which the license is automatically returned to the AutoPass License Server. You can return a license early, if desired, following the instructions below.

Check out a remote commuter license

1. Determine the required number of [emulation flows](#) before you get started. You need to enter this number when generating the license in step 5, below.
2. Open the NV License Manager on the machine that needs to check out a license. For details, see ["Open the NV License Manager" on page 7](#).
3. Click **Check out remote license**.
4. Generate and download the license request file from the NV License Manager.
 - a. Specify the number of days that the license will be checked out (up to the maximum allowed number of days).
 - b. Select the features that need to be covered by the license.
 - c. Click **Download** and save the file to a convenient location.
5. Generate and download a remote commuter license from the AutoPass License Server.

If someone else is generating the remote commuter license for you, give the license request file generated in step 4 to that person. Then you, or the person generating the remote commuter license for you, must:

- a. Log on to the AutoPass License Server.
- b. Select **Remote Commuter > Remote Commuter Check Out**.
- c. In the Remote Commuter Check Out screen, browse to and select the license request file and click **Check Out**.
- d. In the screen that opens, select all of the feature check boxes and do one of the following to receive the license file:

- Download the file by clicking **Download <file name>**.
 - Enter an email address and click **Send Email** using AutoPass's built-in email feature.
6. After you receive the license file, open the NV License Manager, if closed, and browse to the Check out Remote Commuter license screen.
 7. Upload the generated license file to the NV License Manager, as follows:
 - a. Browse to and select the license file.
 - b. Click **Update**.The license is checked out.

Return a remote commuter license

1. Open the NV License Manager on the machine that needs to return a license. For details, see ["Open the NV License Manager" on page 7](#).
2. Click **Check in remote license** and approve the checkin in the confirmation message. The license is removed from the NV License Manager and a license file is downloaded to your computer.
3. Return the license file to the AutoPass License Server.

If someone else is generating the remote commuter license for you, give the license request file generated in step 2 to that person. Then you, or the person returning the remote commuter license for you, must:

- a. Log on to the AutoPass License Server.
- b. Select **Remote Commuter > Remote Commuter Check In**.
- c. In the Remote Commuter Check In screen, browse to and select the license request file and click **Check In**. A validation screen opens confirming that the license was returned to the AutoPass License Server successfully.

Send Us Feedback



Let us know how we can improve your experience with the Licensing Guide.

Send your email to: docteam@hpe.com

