



# Virtual GPU License Server Version 2020.05 and 2020.05 Update 1

Release Notes

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# Chapter 1. Release Notes

These *Release Notes* summarize current status, information on supported platforms, and known issues with NVIDIA vGPU software License Server, versions 2020.05 and 2020.05 Update 1.

License server 2020.05 Update 1 addresses known security issues in license server release 2020.05 and in license server release 2020.11. However, the update does **not** include other changes introduced in license server release 2020.11.

The following table correlates the license server release with the full release number with build number.

License Server Release	Full Release Number with Build Number
2020.05 Update 1	2020.05.0.29698264
Initial 2020.05 release	2020.05.0.28406365



## Note:

If the version of your current license server software is 2015.12 or earlier, you must uninstall any previous version of NVIDIA vGPU software License Server before installing this release. For details, see [Upgrade installation does not operate correctly](#).

Installed NVIDIA vGPU software licenses are **not** retained across an uninstallation followed by reinstallation. You must reinstall your licenses after reinstalling the license server software.

All releases of the License Server are compatible with **all** releases of NVIDIA vGPU software.

## 1.1. Supported Platforms

### 1.1.1. Operating Systems Supported

This release of NVIDIA vGPU software License Server has been tested on several releases of the Windows and Linux operating systems.



**Note:** Support for installation in console mode on Windows and Linux was introduced in license server release 2018.06. It is **not** supported in earlier license server releases. The license server installer for earlier releases must be run in a graphical desktop environment. Installation in silent mode is **not** supported in any release.

### 1.1.1.1. Windows Operating Systems Supported

- ▶ Windows 10 64-bit
- ▶ Windows Server 2019
- ▶ Windows Server 2016
- ▶ Windows Server 2012 R2



**Note:** On Windows, the license server supports **only** the English locale.

### 1.1.1.2. Linux Operating Systems Supported

- ▶ Red Hat Enterprise Linux 8.2 64-bit
- ▶ Red Hat Enterprise Linux 7.6 64-bit
- ▶ Red Hat Enterprise Linux 7.3 64-bit
- ▶ CentOS-8 (2004) 64-bit
- ▶ CentOS 7.6 64-bit
- ▶ CentOS 7.3 64-bit
- ▶ Ubuntu 18.04 64-bit
- ▶ Ubuntu 16.04 64-bit

## 1.1.2. Java Runtime Environment Requirements

NVIDIA vGPU software License Server requires one of the following Java Runtime Environment (JRE) versions:

- ▶ Oracle Java SE JRE version 1.8 update 282 or higher, or 11.0.10 or higher
- ▶ OpenJDK JRE version 1.8 update 282 or higher, or 11.0.10 or higher

For information about the licenses under which these JRE releases are provided, see [Oracle Java SE Licensing FAQ](#).

JRE should be installed before the License Server installer package is run, as described in the [Virtual GPU License Server User Guide](#).

## 1.1.3. .NET Framework Requirements

On Windows platforms, NVIDIA vGPU software License Server requires .NET Framework 4.5 or later.

## 1.1.4. Apache Tomcat Server Requirements

The license server's management interface requires Apache Tomcat server. The version of Apache Tomcat server required depends on the release of the license server that you are using.

License Server Release	Apache Tomcat Version
2020.05 Update 1	9.x
Initial 2020.05 release	8.5.x or 9.x

An Apache Tomcat package is included with the license server installer package for Windows. For Linux, Tomcat should be installed before the license server installer package is run, as described in [Virtual GPU License Server User Guide](#).

## 1.1.5. Web Browser Requirements

The license server's web browser-based management interface supports the following browsers:

- ▶ Mozilla Firefox versions 17 and later
- ▶ Google Chrome versions 27 and later
- ▶ Microsoft Internet Explorer version 9 and later

## 1.2. Changes in this Release

### Changes in the License Server 2020.05 Update 1 Release

- ▶ An updated Apache Tomcat version (9.0.44) is included with the license server installer package for Windows.
- ▶ Apache Tomcat version 8.5.x is no longer supported.
- ▶ Miscellaneous bugs have been fixed.

### Changes in the Initial License Server 2020.05 Release

- ▶ An updated Apache Tomcat version (8.5.54) is included with the license server installer package for Windows.
- ▶ The license server installer warns users if the path in the `JAVA_HOME` system environment variable appears to be incorrect.
- ▶ Miscellaneous bugs have been fixed.

## 1.3. Security Updates

### Security Updates in the License Server 2020.05 Update 1 Release

- ▶ A new version of Apache Tomcat (9.0.44) is included with the license server installer package for Windows.
- ▶ Multiple known CVEs and security issues have been addressed.

### Security Updates in the Initial License Server 2020.05 Release

A new version of Apache Tomcat (8.5.54) is included with the license server installer package for Windows.

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## Chapter 2. Resolved Issues

No issues that have been previously noted as known issues have been resolved in this release.



**Note:** Reverting to NVIDIA vGPU software license server 2020.05 Update 1 avoids the issues that caused NVIDIA to withdraw NVIDIA vGPU software license server release 2020.11. However, bug fixes in NVIDIA vGPU software license server release 2020.11 are not available in release 2020.05 Update 1.

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# Chapter 3. Known Issues

## 3.1. `nvidiaalsadmin -licenses -verbose` fails with a large number of clients

### Description

When the `nvidiaalsadmin -licenses -verbose` command is run on a license server that has a large number (more than around 300) of clients, the command fails with the error `Server responded with a 429 and an error message of: key='unknown' message='arguments=[]`. This issue occurs because the command submits more requests than the maximum number of requests per second that the license server can handle.

When this issue occurs, the following message is written to the license server log files:

```
Request throttled - rate exceeded.
```

### Workaround

Run the `nvidiaalsadmin` utility with a different option depending on the information that you want to list.

- ▶ To list the features installed on the license server, run the `nvidiaalsadmin -features` command.
- ▶ To list the details of all licensed clients, run the `nvidiaalsadmin -clients` command.

The `nvidiaalsadmin -licenses -verbose` command is concatenation of the preceding commands. It also shows the number of used and available features on the license server.

### Status

Not a bug



**Ref. #**

200700529

## 3.2. The primary and secondary license servers report different numbers of licenses being used

**Description**

The primary and secondary license servers in a high availability (HA) configuration report a different number of licenses that are being used. This issue occurs because the primary license server fails to synchronize its license usage records with the secondary server.

**Status**

Open

**Ref. #**

3052765

## 3.3. The primary and secondary license servers report different client expiration times

**Description**

The primary and secondary license servers in a high availability (HA) configuration report a different license expiration time for the same client. This issue occurs because the primary license server fails to synchronize its license usage records with the secondary server.

**Status**

Open

**Ref. #**

200689065

## 3.4. License feature usage reports a negative number of available licenses

### Description

For a license server configured for high availability, license server feature usage sometimes reports a negative number of available licenses on the secondary license server. This issue occurs after failover of the primary license server because the primary license server can no longer synchronize the secondary license server with its state information.



**Note:** This issue does **not** affect the actual number of licenses that users can check out.

After failover of the primary license server, the secondary license server fulfills license checkout requests from clients. However, by design, the primary license server is not updated with information from the secondary server about licenses that were served while the primary license server was out of service.

As a result of this design, the counts of available and checked out licenses on the primary and the secondary license servers might be different. For example, the counts of available and checked out licenses are different if the clients served by the secondary license server are different than the clients served by the primary license server when it returns to service after a failure. How long the counts are different depends on the synchronization interval or the license borrow period.

### Workaround

In most situations no action is required. This issue should resolve itself over multiple synchronization operations either when the clients renew their licenses or the licenses that are causing the difference in counts are released or expire.

If this issue does not resolve itself, reset the secondary license server without disrupting the primary license server by performing the following sequence of tasks **on the secondary license server only**:

1. Delete the trusted storage database.
2. Start the `flexnetls-nvidia` service.
3. Reinstall your licenses.

For information about how to perform these tasks, see [Virtual GPU License Server User Guide](#).

After the secondary license server comes online, its first successful synchronization with primary license server causes the license counts to be the same on both servers.

## Status

Not a bug

## Ref. #

2778609

# 3.5. The license server installation path name cannot contain white spaces

## Description

The path name to the folder where the NVIDIA vGPU software license server is installed must not contain white space. The license server installer prevents you from installing the license server in a folder whose path name contains white space as follows:

- ▶ For a new license server installation, the license server installer proposes a default installation location with no white space in its path name.
- ▶ For an upgrade to a license server that was installed at a location with white spaces in its path name, the license server installer prompts you to exit.



**Note:** If the license server was installed at a location **without** spaces in its path name, the installer overwrites the existing version in its current location with the new version. The installer does **not** warn you to install the license server at a location with no white space in its path name.

## Version

NVIDIA vGPU software license server 2020.05 and 2020.05 Update 1.

## Workaround

**For a new license server installation**, click **Yes** when prompted to continue with the installation at the default installation location without white space in its path name that the license server proposes.

**For an upgrade**, follow these steps:

1. When prompted, click **Yes** to exit the installation.
2. Uninstall your existing license server.

- If you were using a 32-bit license server, uninstall the Apache Tomcat software and replace the existing 32-bit JRE with a 64-bit JRE.



**Note:** The processor architecture for the JRE, Apache Tomcat, and the license server must match. Only 64-bit license server 2020.05 and 2020.05 Update 1 software is available. Therefore, you must use a 64-bit JRE.

- Install the license server 2020.05 and 2020.05 Update 1 and Apache Tomcat software.

For more information, see [Virtual GPU License Server User Guide](#).

## Status

Open

# 3.6. License server installer unexpectedly quits during upgrade on Windows

## Description

During an upgrade of an existing license server installation, the installer might quit unexpectedly, throwing an `InvocationTargetException`.



The application exception details are as follows:

```
C:\Users\lsuser\AppData\Local\Temp\I1559058258\Windows_Pure_64_Bit\resource
\iawin32.dll not found
at Flexeraaw7.af(Unknown Source)
at Flexeraaw7.aa(Unknown Source)
at com.zerog.ia.installer.LifeCycleManager.init(Unknown Source)
at com.zerog.ia.installer.LifeCycleManager.executeApplication(Unknown Source)
at com.zerog.ia.installer.Main.main(Unknown Source)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
at java.lang.reflect.Method.invoke(Unknown Source)
at com.zerog.lax.LAX.launch(Unknown Source)
at com.zerog.lax.LAX.main(Unknown Source)
```

This error occurs if you attempt to install the 64-bit license server software for Windows on a host where a 32-bit license server with 32-bit JRE is installed. Because the 64-bit license server installer requires a 64-bit JRE, the installer fails if a 32-bit JRE is installed.

## Workaround

Uninstall and reinstall the license server and associated software as explained in [Virtual GPU License Server User Guide](#).



**Note:** Installed NVIDIA vGPU software licenses are **not** retained across an uninstallation followed by reinstallation. You must reinstall your licenses after reinstalling the license server software.

## Status

Not a bug

## Ref. #

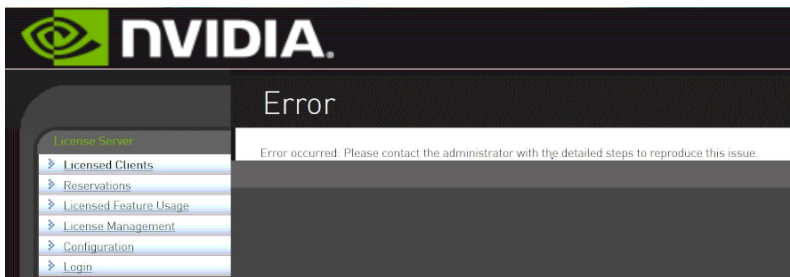
2609471

# 3.7. Occasional errors in loading the Configuration page

## Description

Sometimes, the **Configuration** page fails to load and the license server management interface reports the following error:

```
Error occurred: Please contact the administrator with the detailed steps to reproduce this issue.
```



The following error messages are written to the license server log file:

```
14:44:00,964 ERROR Trust startup failure:Unable to read anchor, status:FATAL.
14:44:00,964 ERROR Trust break detected at startup time:Unable to read anchor, status:FATAL.
```

When this issue occurs, any attempt by a license server client to acquire a license fails.

On Linux clients, error messages similar to the following example are logged in the standard activity log (/var/log/messages for distributions based on Red Hat or /var/log/syslog for distributions based on Debian):

```
Jun 19 14:04:43 localhost nvidia-gridd: Error: Error processing capability response.
  Server URL : http://10.31.20.45:7070/request -
#012[1,7E2,2,0[7000001C,7100002E,250137]]#012Server was not able to process request
correctly.#012Server status: (Back office server error.)
```

On Windows clients, no error messages are logged.

## Workaround

On Linux, this workaround requires system administrator privileges.

- Restart the license server service.
  - On Windows, in the **Services** application, context-click the **FlexNet License Server - nvidia** service and choose **Restart**.
  - On Linux, restart the `flexnetls-nvidia.service` service from the command line.
 

```
[nvidia@localhost ~]$ systemctl restart flexnetls-nvidia.service
```
- Confirm that the **Configuration** page now loads by accessing the license server management interface and clicking **Configuration**.



**Note:** This error occurs when the license server service is started or restarted. Therefore, the error might persist after the license server service is restarted. If the error persists, restart the license server service again.

## Status

Open

## Ref. #

200463359

# 3.8. On Windows, upgrading the License Server removes HTTPS configuration

## Description

If you are upgrading from a 64-bit license server and your earlier version of the license server was configured to use HTTPS, the HTTPS configuration is removed during the upgrade.

- Files for configuring HTTPS for connections between the management interface are stored in a subfolder of the license server installation folder. The installer deletes the entire

contents of any existing license server installation folder, including files that were added after the license server software was installed, such as the SSL certificate that the license server was configured with.

- ▶ The HTTPS connector for connections from a web browser to the license server management interface is defined in the Tomcat configuration file `server.xml`. The installer overwrites the existing `server.xml` file and any custom configuration specified in the file is lost.

## Workaround

1. Before installing the new version of the license server software, copy the files that are necessary to re-instate the configuration after the upgrade.
  - ▶ If HTTPS is configured for connections between the management interface and the license server, copy the SSL certificate that the license server was configured with.



### Note:

Copying an SSL certificate might corrupt it. To determine if the certificate is corrupted, run this command:

```
$JAVA_HOME/bin/keytool -list -keystore certificate-file-name.jks -storepass certificate-password
```

If the certificate is corrupted, contact the CA that issued your certificate to obtain a new certificate.

- ▶ If HTTPS is specified for connections from a web browser to the license server management interface, copy the Tomcat configuration file `server.xml`.
2. After installing the new version of the license server software, re-create the HTTPS configuration as explained in [Virtual GPU License Server User Guide](#).

## Status

Not a bug

## Ref. #

- ▶ 200500532
- ▶ 200521319

## 3.9. Apache Tomcat Servlet/JSP Container Default Files Vulnerability (Nessus ID: 12085)

### Description

The License Server requires an Apache Tomcat server. On Windows, Apache Tomcat is included with the License Server installer package. On Linux, Apache Tomcat must be installed separately.

By default, files such as documentation, the default index page, example JSP files, and example servlets are installed on the host where the Apache Tomcat software is installed. These files may help an attacker uncover information about the Apache Tomcat installation or the host where the Apache Tomcat software is installed. Furthermore, the files may themselves contain vulnerabilities that might allow attacks such as cross-site scripting attacks.

### Mitigations

- ▶ Review the files and delete the files that are not needed.
- ▶ Provide a custom error page for common HTTP errors such as error 404 or 500.

### See Also

- ▶ [Securing Tomcat](#) from the Open Web Application Security Project (OWASP)
- ▶ *How do I get a customized error page?* in [Miscellaneous FAQ](#) on the Tomcat wiki

## 3.10. Time stamps in the License Server Management Interface and log files are inconsistent

### Description

The time shown in the **Client Expiry** field on the **Client Details** page is inconsistent with the time stamps in the license server log files.

For example, the log files might show these time stamps:

- ▶ License acquired time is - Wed May 30 16:18:23 2018
- ▶ Borrow interval is 1440 mins



From these time stamps, the expected client expiry time is 2018-05-31 16:18:23. However, on the **Client Details** page, the **Client Expiry** field shows 2018-05-31T10:48:59.999Z.

This inconsistency occurs because the time of day in the license management interface is given in Coordinated Universal Time (UTC), not the local time of the license server host.

## Status

Not an NVIDIA bug

## Ref. #

200418046

# 3.11. Deleting a license reservation deletes the entire reservation group

## Description

When the management UI is used to delete a single entry from the **Reservation** page, all entries on the page are deleted because the management UI supports operations only on reservation groups, not individual reservations, specifically:

- ▶ Deleting an existing reservation group. Deleting individual reservations within a reservation group is **not** supported.
- ▶ Adding reservations to a new reservation group. Adding reservations to an existing reservation group is **not** supported.

## Workaround

To add or delete reservations in an existing group:

1. Delete the existing group.
2. Re-create the group with the set of reservations that you want:
  - ▶ Include the existing reservations that you want to keep and any new reservations that you want to add.
  - ▶ Exclude any reservations that you want to remove.

You can re-create the group by using the **Add Reservation** page or by importing reservations from a JSON file. For instructions, see [Virtual GPU License Server User Guide](#).



**Note:** If you are importing reservations from a JSON file, ensure that the `name` attribute of each array of reservations is set to a non-null value. Although the `name` attribute is

optional, any imported reservation groups for which the `name` attribute is not set cannot be deleted through the management UI.

## Status

Not a bug

## Ref. #

200418787

# 3.12. Sudden shutdown of the license server can cause database corruption

## Description

If the license server is shut down suddenly and cannot be shut down cleanly, the trusted storage database may become corrupted. If the database is corrupted, it cannot be read and the `flexnetls-nvidia` service cannot start.

When the `flexnetls-nvidia` service cannot start because the database is corrupted, messages similar to the following examples for each platform are written to the license server log file:

### ► On Windows:

```
org.h2.message.DbException: General error:
"java.lang.IllegalStateException: File corrupted in chunk ${chunk_number},
expected page length ${page_length}, got ${actual_page_length}" [50000-193]

org.h2.message.DbException: General error:
"java.lang.IllegalStateException: Reading from
nio:C:/Windows/ServiceProfiles/NetworkService/flexnetls/nvidia/
flexnetls_licenses.mv.db failed;
file length ${file_length} read length ${read_length} at ${index}"
```

### ► On Linux:

```
org.h2.message.DbException: General error:
"java.lang.IllegalStateException: Reading from
nio:/var/opt/flexnetls/nvidia/flexnetls_licenses.mv.db failed;
file length ${file_length} read length ${read_length} at ${index}"
```

On Windows, event 6008 may be written to the event viewer log indicating that the license server was shut down abruptly and could not be shut down cleanly.

## Workaround

Restore the database from a backup as explained in [Virtual GPU License Server User Guide](#).

If the database remains corrupted after it is restored, the backup that you restored it from may also be corrupt. In this situation, delete the trusted storage files, start the `flexnetls-nvidia`

service, and reinstall your licenses. For instructions for performing these tasks, see [Virtual GPU License Server User Guide](#).

## Status

Not an NVIDIA bug

## Ref. #

2104881

# 3.13. License server MAC address cannot be changed in the management interface

## Description

The management interface of the license server enables the MAC address of the license server to be changed and the change to be saved. However, when the license server host is restarted, the MAC address reverts to its previous setting.

## Workaround

Change the MAC address by editing the license server settings file, updating the license server settings from the edited file, and restarting the license server.

Before attempting this workaround, ensure that the `JAVA_HOME` or `JRE_HOME` environment variable is set to the directory where the Java runtime environment is installed on the license server host.

This workaround requires system administrator privileges.

### On Windows:

1. Open the file `license-server-installation-folder\server\flexnetls.settings` in a plain text editor such as WordPad.

#### ***license-server-installation-folder***

The folder in which the license server software is installed. The default license server installation folder is `%SystemDrive%\NVIDIA\LicenseServer`.

2. Uncomment the `#ACTIVE_HOSTID=` line and append the MAC address to the line followed by `/Ethernet`.

For example:

```
...
ACTIVE_HOSTID=4E7DBF3A250A/Ethernet
...
```

3. Save your changes and exit the editor.
4. As an Administrator user, open a **Command Prompt** window and change to the `license-server-installation-folder\server` folder.

For example:

```
C:\>cd C:\NVIDIA\LicenseServer\server
C:\NVIDIA\LicenseServer\server>
```

5. In the **Command Prompt** window, run the command to update the license server settings from the edited file.

```
C:\NVIDIA\LicenseServer\server>flexnetls.bat -update
Updating service FNLS-nvidia
Service FNLS-nvidia successfully stopped
Uninstalling service FNLS-nvidia
Installing service FNLS-nvidia

C:\NVIDIA\LicenseServer\server>
```

6. In the **Command Prompt** window, run the command to restart the license server.

```
C:\NVIDIA\LicenseServer\server>flexnetls.bat -start
Service FNLS-nvidia successfully started

C:\NVIDIA\LicenseServer\server>
```

### On Linux:

1. As root, open the file `/opt/flexnetls/nvidia/local-configuration.yaml` in a plain text editor.
2. Uncomment the `#ACTIVE_HOSTID=` line and append the MAC address to the line followed by `/Ethernet`.

For example:

```
...
ACTIVE_HOSTID=4E7DBF3A250A/Ethernet
...
```

3. Save your changes and exit the editor.
4. As root, restart the `flexnetls-nvidia` service.

```
# sudo systemctl restart flexnetls-nvidia.service
```

### Status

Open

### Ref. #

200397697

## 3.14. The logging threshold can only be uppercase

### Description

The logging threshold under **Logging properties** on the **Configuration** page accepts input only in uppercase. When a valid logging threshold value in lowercase is entered, an error message similar to the following message is displayed:

```
The value "error" for "Logging Threshold" is not valid. [Logging Threshold, error]
```

### Workaround

Enter logging threshold values in all uppercase.

### Status

Not an NVIDIA bug

### Ref. #

200334630

## 3.15. License Server upgrade fails

### Description

An attempt to upgrade from License Server version 2015.12-0001 to the current version fails with the following error:

```
One or more newer versions of the product are installed. An update is not available.
```

### Version

This issue affects upgrades from version 2015.12-0001.

### Workaround

1. When the error dialog box opens, click **Abort** to abandon the upgrade.
2. Cleanly uninstall License Server version 2015.12-0001.
3. Install the current version of the License Server software.

### Status

Closed

**Ref. #**

200301811

## 3.16. Log files can exhaust local disk space

**Description**

A long-running license server may fail because the license server log files `flexnet1s.log` and `access.log` have exhausted the disk space on the server. Although the license server rotates log files by opening a new log file each day, it does not automatically delete old log files.

**Workaround**

Delete old log files when they are no longer required. On Linux, you can use a `cron` job to delete files that are more than a specific number of days old.

**Status**

Open

**Ref. #**

1932568

## 3.17. Client in time zone ahead of license server may fail to check out a license close to its expiry time

**Description**

A client located in a time zone that is ahead of the license server's time zone may fail to check out a license, if the license expiration time has passed in the client's time zone.

**Platform**

All

**Workaround**

Locate the license server in a time zone proximate to the clients it will serve.

## Status

Open

## Ref. #

1685774

# 3.18. Upgrade installation does not operate correctly

## Description

If the license server is installed on a platform on which license server software version 2015.12 or earlier is installed, the license server installer is incorrectly executed. The upgrade installation is not indicated to the user and, on Windows, the Apache Tomcat installer is erroneously rerun.

## Platform

All

## Version

This issue affects upgrades from version 2015.12 or earlier.

## Workaround

Before installing this release of the license server, uninstall the previous license server software and, on Windows, uninstall the Apache Tomcat software.



**Note:** Installed NVIDIA vGPU software licenses are **not** retained across an uninstallation followed by reinstallation. You must reinstall your licenses after reinstalling the license server software.

## Status

Closed

## Ref. #

1713544, 1713532

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