

Lenovo Storage License Key Activation Procedure



Obtaining your Lenovo storage license key

To obtain your software feature license key, do the following:

1. Log on to the Lenovo Storage Management Console.
2. From the **Home** tab, click **Action**.
3. In the drop-down list, select **Install License**.
4. Document the Licensing Serial Number displayed in the License Settings window.

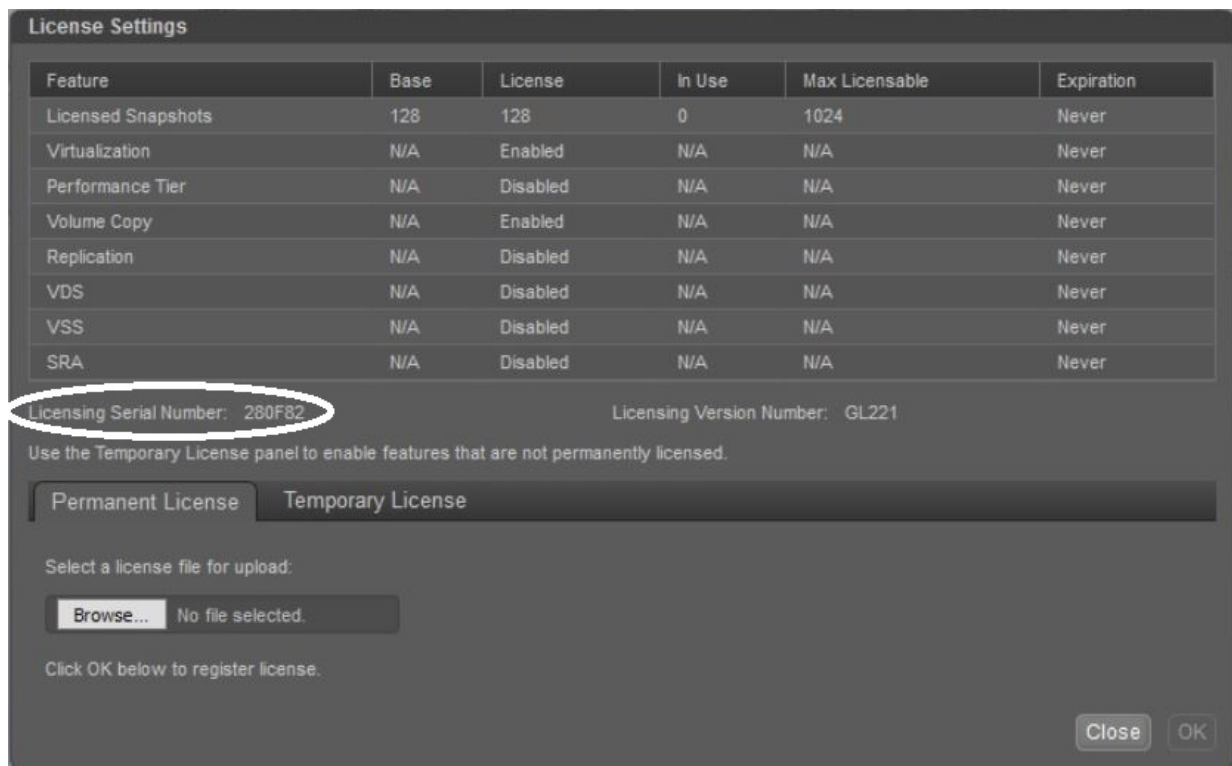


Figure 1. Example of the License Settings window

Licensing Serial Number: _____

5. Go to [Lenovo FoD](#) Web site to obtain the license key. Refer to the *Lenovo Features on Demand Activation Instructions* for detailed instructions.

Notes:

- The Licensing Serial Number, the Machine Serial Number, and the Authorization Code are needed for this process. Find the Authorization Code in the *Lenovo Features on Demand Activation Instructions*.
 - The license key can be downloaded or sent to a specified e-mail address after the authorization process is completed on the Lenovo FoD Web site.
6. Go to [Lenovo FoD](#) Web site for more information and support.

Applying your Lenovo storage license key

After you have the license key, do the following to apply the license key and activate the storage software feature:

1. Store the key to a location that is also accessible from the Lenovo Storage Management Console.
2. Log on to the Lenovo Storage Management Console.
3. From the **Home** tab, click **Action**.
4. Select **Install License**, and then select the **Permanent License** tab.
5. Click **Browse** under **Select a license file for upload**.
6. Navigate to the location where the license key file is stored.
7. Select the license key file for the corresponding Lenovo storage system and click **Open**.
8. Click **OK** to register the license key and activate the feature.

License key update after chassis replacement

The purpose of this procedure is to provide guidance for the transfer of Lenovo feature license keys from the defective RBOD enclosure to the new replacement RBOD enclosure. This procedure only needs to be performed when a DS-series array RBOD enclosure (enclosure 0) is replaced and you have the feature licenses installed on the DS-series array. This procedure does not need to be performed if it is confirmed you had no prior license keys installed or if an expansion enclosure (enclosure 1+) has been replaced (DS EXP or D3284). You must register and create a user account on the [Lenovo FOD](#) Web site in order to complete license key transfer to the new system. Refer to Table 1 “License keys for the S series storage and ThinkSystem DS series storage” on page 2 for a description of applicable Lenovo ThinkSystem feature license keys.

The license keys are those listed in the table below.

Table 1. License keys for the S series storage and ThinkSystem DS series storage

Option PN	FC	Description	Machine Type
01GV558	AWGL	DS series 256 snapshot upgrade	6411
01GV559	AWGM	DS series 512 snapshot upgrade	4599, 4619, 4617, 6411
01GV560	AWGN	DS series 1024 snapshot upgrade	4599, 4619, 4617, 6411
01GV561	AWGP	DS series SSD data tiering	4599, 4619, 4617, 6411
01GV562	AWGQ	DS series asynchronous replication	4599, 4619, 4617, 6411

Note: The license keys for the S series storage are supported on the FOD Web site for customers who purchased license keys after July 17, 2017. Contact Lenovo Support if you are attempting to restore a License Key on an S series storage sold prior to July 17, 2017.

Attention: Ensure that the new chassis and machine code have been updated to level **GN265R008-03** or **GT265R008-03** or later.

Once the replacement RBOD enclosure (enclosure 0) has been added to the array and determined to be in good health, proceed with the following steps to regenerate license keys for the new system:

1. Locate and record the Lenovo MTM and SN or UID of the defective RBOD enclosure. They will be needed for reference once logged into the Lenovo FoD Web site.

- a. To find the Lenovo MTM and SN, do any one of the following:

- Locate on the enclosure top cover labeling and the front-right enclosure ear cover.

If the defective RBOD enclosure has not been replaced and remains in operation,

- Log on to the Lenovo Storage CLI, enter the command show license.

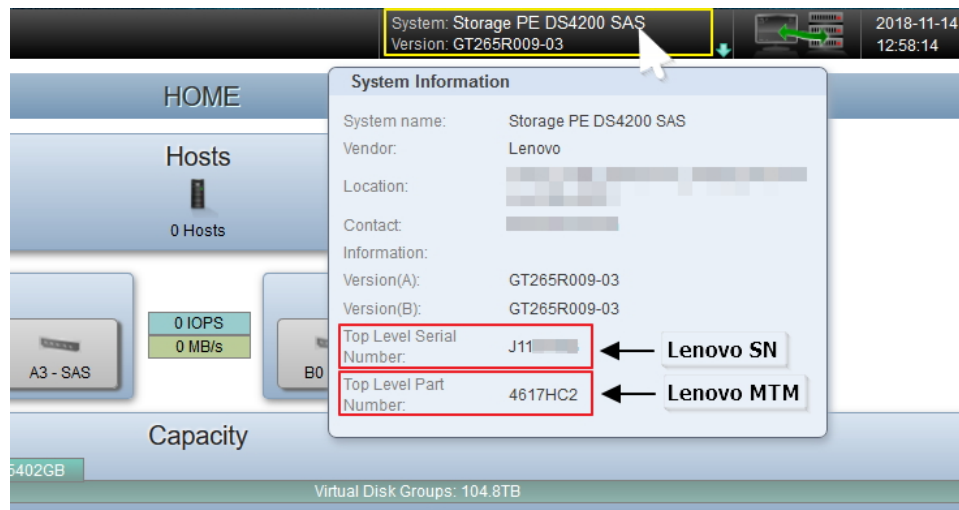
```
Version: GT265R009-03
# show frus
SKU
---
Part Number: 4617HC2
Serial Number: J1
Revision:
Enclosure ID: 0
```

Lenovo MTM, 4599, 4617 or 4619

Lenovo SN, 7 digit alphanumeric

0 denotes RBOD controller enclosure

- Log on to the Lenovo Storage Management Console (SMC), the Lenovo MTM and SN will be displayed when hovering mousing pointer over the system banner.



- b. To find the UID or licensing serial number, do any one of the following:

- Request the UID or licensing serial number be provided by the support personnel by review of array logs.

If the defective RBOD enclosure has not been replaced and remains in operation,

- Log on to the Lenovo Storage CLI, enter the command show license.

```
# show license
License Key: c83c85955cba8ff47387f470db543394
Licensing Serial Number: 28FEDE
Maximum Licensable Snapshots: 1024
Base Maximum Snapshots: 128
Licensed Snapshots: 128
In-Use Snapshots: 0
```

UID or Licensing Serial Number

- Log on to the Lenovo SMC, and click **Home → Action → System Setting → Install License**.

System: Storage PE DS4200 SAS Version: GT265R009-03						
System Settings						
Date and Time	Feature	Base	License	In Use	Max Licensable	Expiration
	Licensed Snapshots	128	128	0	1024	Never
Manage Users	Virtualization	N/A	Enabled	N/A	N/A	Never
	Performance Tier	N/A	Enabled	N/A	N/A	Never
	Volume Copy	N/A	Disabled	N/A	N/A	Never
	Replication	N/A	Enabled	N/A	N/A	Never
Install License	VDS	N/A	Disabled	N/A	N/A	Never
	VSS	N/A	Enabled	N/A	N/A	Never
	SRA	N/A	Disabled	N/A	N/A	Never
Licensing Serial Number: 28FEDE Licensing Version Number: GT265						
Use the Temporary License panel to enable features that are not permanently licensed.						

- Once the above information has been collected, the servicer can perform the hardware replacement or the RBOD enclosure.
- When the RBOD enclosure replacement is completed, the array can be powered on and allowed time to fully boot.
- Get the UID or licensing serial number for the new RBOD enclosure by accessing the array's Lenovo Storage CLI or Lenovo SMC. For detailed information, refer to step 1bb. on page 3.
- Go to [Lenovo FoD](#) Web site, and then Click the **Hardware replacement** tab.
 - Select your **Machine type** (firs 4 digits of MTM) from the pull-down menu and enter the 7-digit serial number, and then select **Continue**.

Lenovo

Features on Demand

Request activation key

Retrieve history

Hardware replacement

Adapter mobility

Trial key

Retrieve authorization code

Profile management

Support function

Generate report

Inventory management

Help

Contact

Hardware replacement

Step 1: Machine details

Select your machine type and model if available and enter your 7 character machine serial number. (Your machine serial number can be found on the back panel or in one of the system administration tools).

Machine type*

4617 - Lenovo ThinkSystem DS4200

Model

Machine serial number*

J11XXXX

OR

If you do not know the MTSN of your server or chassis or your activations are not tracked using those values (some OEM do not). Enter the UID of the device below:

NOTE: If you enter the UID value, your MTSN selection will be ignored and only the below UID used to find your FOD upgrades to replace.

UID*

Continue

Cancel

- b. Or enter the UID or licensing serial number, and then select Continue.

The screenshot shows the 'Hardware replacement' page on the Lenovo support website. The left sidebar contains a list of navigation links: Features on Demand, Request activation key, Retrieve history, Hardware replacement (highlighted), Adapter mobility, Trial key, Retrieve authorization code, Profile management, Support function, Generate report, Inventory management, Help, and Contact. The main content area is titled 'Hardware replacement' and shows 'Step 1: Machine details'. It instructs the user to select their machine type and model, and enter their 7-character machine serial number. Below this, there are input fields for 'Machine type*', 'Model*', and 'Machine serial number*'. An 'OR' section follows, explaining that if the user does not know the MTSN, they can enter the UID. A 'NOTE' states that entering the UID will ignore the MTSN selection. There is an input field for 'UID*' with the value '28fede' entered. At the bottom right are 'Continue' and 'Cancel' buttons.

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Step 1: Machine details

Select your machine type and model if available and enter your 7 character machine serial number. (Your machine serial number can be found on the back panel or in one of the system administration tools).

Machine type* Please select a machine type... ?

Model* ?

Machine serial number* ?

OR

If you do not know the MTSN of your server or chassis or your activations are not tracked using those values (some OEM do not). Enter the UID of the device below:

NOTE: If you enter the UID value, your MTSN selection will be ignored and only the below UID used to find your FOD upgrades to replace.

UID* 28fede ?

Continue Cancel

6. All feature licenses applied to the system will be displayed and be available for transfer as shown below.

The screenshot shows the 'Hardware replacement' page on the Lenovo support website, specifically 'Step 2: Activation keys selection'. The left sidebar is identical to the previous screenshot, with 'Hardware replacement' highlighted. The main content area is titled 'Hardware replacement' and shows 'Step 2: Activation keys selection'. It lists the activation keys generated for the UID entered in Step 1. Below this, there is a checkbox for 'Select all'. A table displays the installed system information and the activation keys. The table has three columns: UID, Feature, and Detail. The first row shows the installed system information: 'Installed in system: 4617J11'. The second row shows the UID '28FEDE', Feature 'AWGQ', and Detail 'DS Series Asynchronous Replication'. The third row shows the UID '28FEDE', Feature 'AWGP', and Detail 'DS Series SSD Data Tiering'. At the bottom right are 'Continue' and 'Cancel' buttons.

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Hardware replacement

Step 2: Activation keys selection

This lists the activation keys generated for the UID entered.

Select the keys you want to replace its UID.

☐ Select all

Installed in system: 4617J11

UID	Feature	Detail
<input type="checkbox"/> 28FEDE	AWGQ	DS Series Asynchronous Replication
<input type="checkbox"/> 28FEDE	AWGP	DS Series SSD Data Tiering

Continue Cancel

7. If the list of feature licenses is accurate, click **Select all** to select all licenses and then select **Continue** to go to next step.

The screenshot shows the Lenovo Hardware replacement interface. On the left is a sidebar with navigation links: Features on Demand, Request activation key, Retrieve history, Hardware replacement (highlighted), Adapter mobility, Trial key, Retrieve authorization code, Profile management, Support function, and Generate report. The main content area is titled 'Hardware replacement' and shows 'Step 2: Activation keys selection'. Below the title, it states: 'This lists the activation keys generated for the UID entered. Select the keys you want to replace its UID.' There is a checkbox labeled 'Select all' which is checked. Below this is a table with the following data:

Installed in system: 4617J11KVWG			
	UID	Feature	Detail
<input checked="" type="checkbox"/>	28FEDE	AWGQ	DS Series Asynchronous Replication
<input checked="" type="checkbox"/>	28FEDE	AWGP	DS Series SSD Data Tiering

At the bottom right of the main content area are two buttons: 'Continue' and 'Cancel'.

Note: If the feature license key inventory is not correct, please select the contact link on the left sidebar to engage the [Lenovo FoD](#) Web site support team for immediate investigation.

8. Enter the UID or licensing serial number of the new enclosure into the **New UID** input field of each license key, be certain each new UID is correct, then select **Continue**.

The screenshot shows the 'Hardware replacement' section of the Lenovo management interface. On the left is a sidebar with navigation links: 'Features on Demand', 'Request activation key', 'Retrieve history', 'Hardware replacement' (highlighted in blue), 'Adapter mobility', 'Trial key', 'Storage Host Protocol Change', 'Retrieve authorization code', 'Profile management', 'Support function', 'Generate report', 'Inventory management', 'Help', and 'Contact'. The main content area is titled 'Hardware replacement' and shows 'Step3: Enter new UIDs'. Below the title, it says 'Here is the list of the activation keys you want to replace.' and 'Please enter new UIDs for each keys.' There are two rows of information. The first row is for 'Storage Licensing Number' 'AWGQ' and 'DS Series Asynchronous Replication'. It shows an 'Old UID' of '28FEDE' and a 'New UID' field with the placeholder text 'New RBOD enclosure Licensing SN goes here'. The second row is for 'Storage Licensing Number' 'AWGP' and 'DS Series SSD Data Tiering'. It also shows an 'Old UID' of '28FEDE' and a 'New UID' field with the same placeholder text. At the bottom right of the main content area are 'Continue' and 'Cancel' buttons.

UID type	Feature	Detail
Storage Licensing Number	AWGQ	DS Series Asynchronous Replication
Old UID		28FEDE
New UID		<i>New RBOD enclosure Licensing SN goes here</i>
Storage Licensing Number	AWGP	DS Series SSD Data Tiering
Old UID		28FEDE
New UID		<i>New RBOD enclosure Licensing SN goes here</i>

9. New license keys are generated successfully, you can download to the desired directory by clicking on the each of them.

The screenshot shows the 'Hardware replacement' section of the Lenovo management interface, now at 'Step5: Download'. The sidebar is the same as in the previous screenshot. The main content area is titled 'Hardware replacement' and shows 'Step5: Download'. Below the title, it says 'New activation keys were generated successfully, please click on the uid for download the key.' There are two '3B2D8A' links listed. To the right of these links is the text 'New license keys download links' with two arrows pointing from it to each of the '3B2D8A' links.

3B2D8A
3B2D8A

New license keys download links

10. Once the new license keys have been downloaded, access the DS-series SMC and install the licenses. For detailed instructions, refer to the G265 Storage Manager Guide at:
https://download.lenovo.com/storage/lenovo_g265_storage_manager_guide.pdf
11. Once the license keys are installed successfully, the DS-series array can be returned to normal operations.

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