



Importing iDRAC License Using Lifecycle Controller

This Dell Technical White Paper describes the tasks to update an iDRAC license from Lifecycle Controller on the 12th generation servers of Dell.

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Executive Summary

This document provides an overview of License management in Lifecycle Controller. Now, you can install the Dell Server license from Lifecycle Controller and also view the license information about the installed licenses on a server. The licensed features in Lifecycle Controller are:

- Backup Server Profile
- Export Server Profile
- vFlash Configuration

If license is not installed on the server, then these features will be in disabled state. After you install a valid license, these features will be enabled.

1.1 Supported Platforms and License Types

Dell provides three main license offerings:

- Basic Management
Basic Management (called BMC in 11th generation servers) is default for servers that belong to a series of 200–500.
- Express (Evaluation, Evaluation Extension, and Perpetual)
For 600-series and later, iDRAC Express is the standard or default offering that is part of the base configuration. It does not require a license to be installed, backed up, or managed. Express offers embedded tools, console integration, and simplified remote access. However, most IT administrators want a deeper and more inclusive solution that allows them to manage servers as if they were physically near the server.
- Enterprise (Evaluation, Evaluation Extension and Perpetual)
Dell lifecycle Controller will allow you to update the server license from Basic Management to Express / Enterprise and Express to Enterprise state.

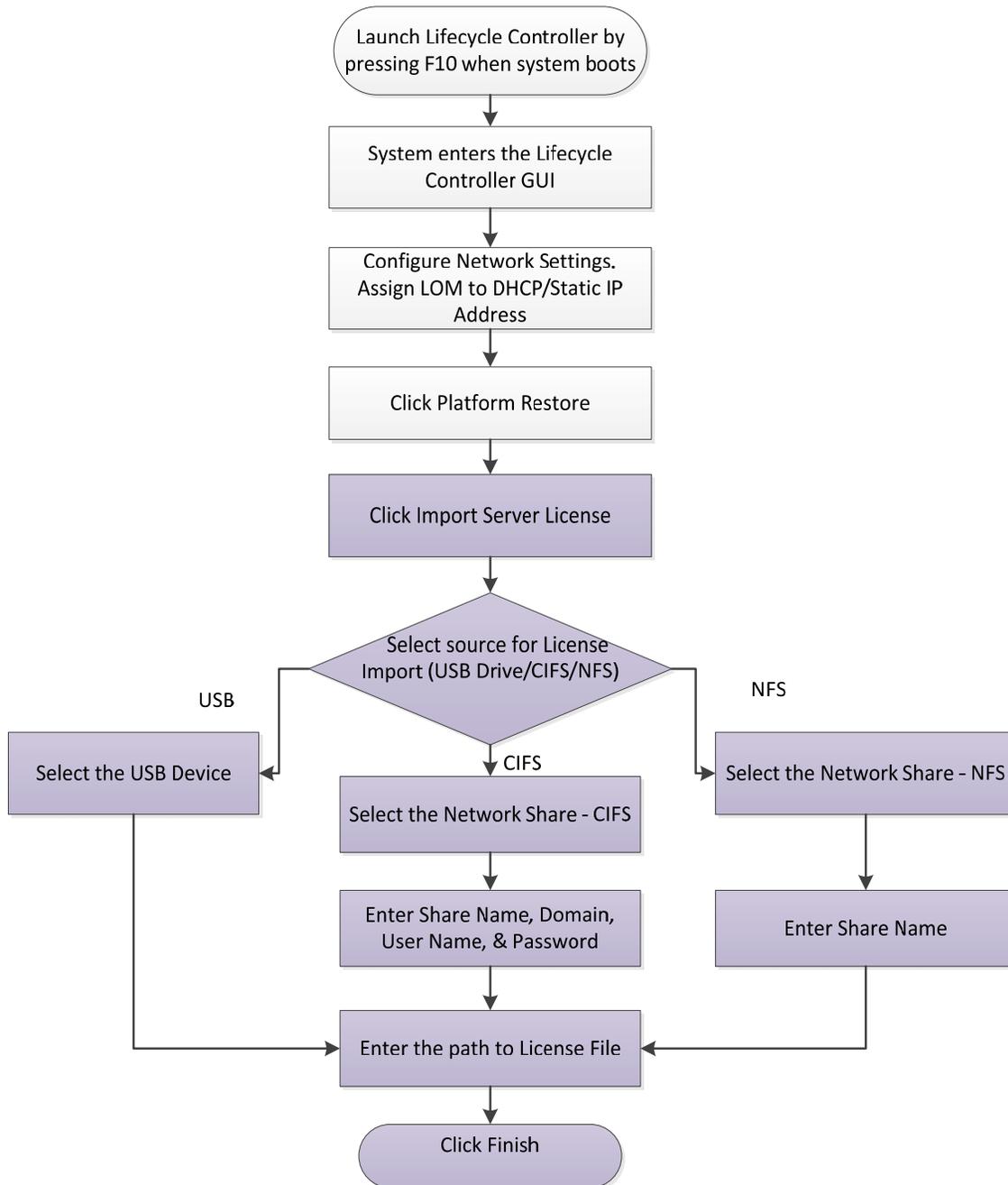
Customers with PowerEdge 200–500 series can also upgrade their systems to either Express or Enterprise by installing a license key. The installed license information can be verified by clicking the **About** icon, and then clicking the **License Information** link on the Lifecycle Controller GUI.

Note: For more information about features in Basic Management, Express, and Enterprise licenses, go to http://www.google.co.in/url?sa=t&rct=j&q=dell%20software%20license%20whitepaper&source=web&cd=1&ved=0CCkQFjAA&url=http%3A%2F%2Fen.community.dell.com%2Ftechcenter%2Fextras%2Fm%2Fwhite_papers%2F20067892%2Fdownload.aspx&ei=NCf2UfKCNobq8gTqhoGYCA&usg=AFOjCNGWOCjT6cAc-LS9VOyCbK5EFhhJeQ&bvm=bv.49784469,d.eWU&cad=rja



1.2 License Feature Workflow Using Lifecycle Controller

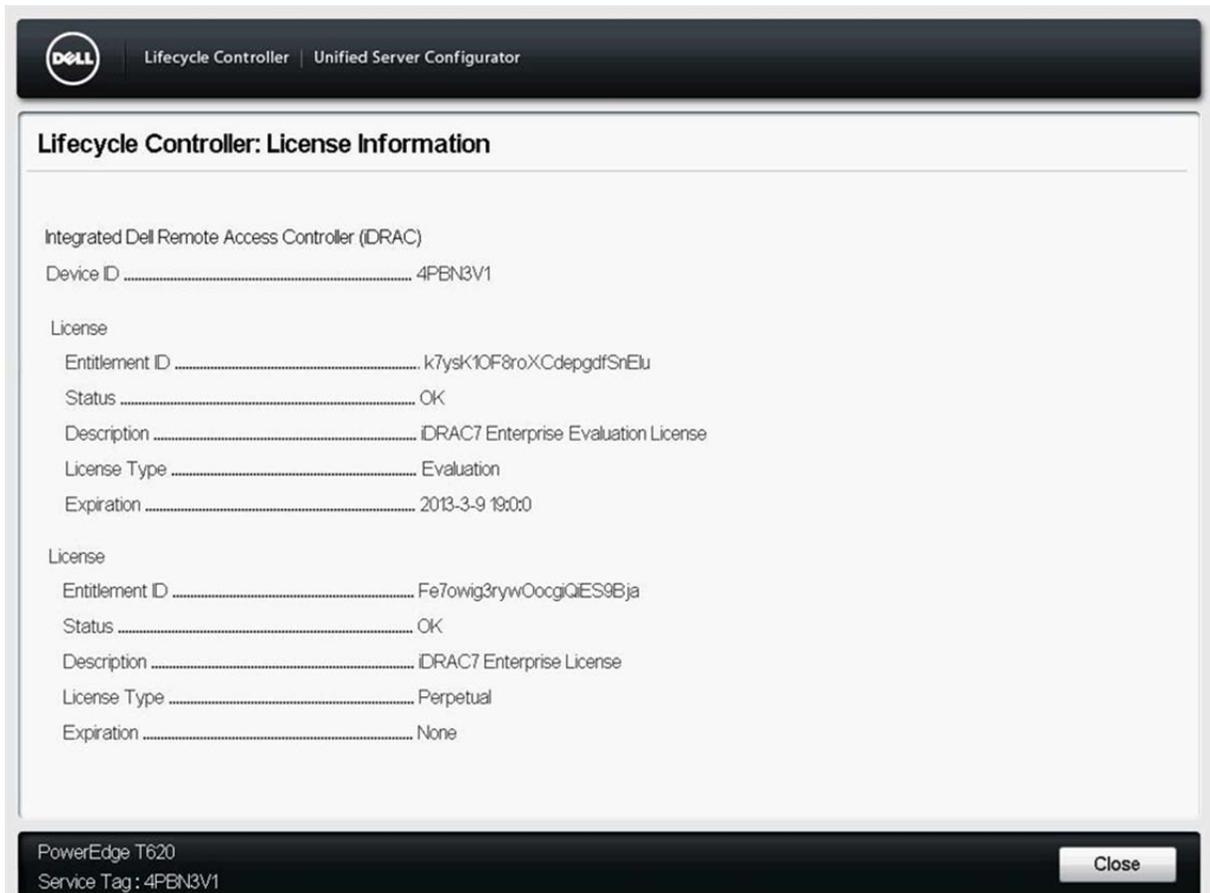
The tasks that must be performed to import a license using Lifecycle Controller GUI is shown in the process flow chart here. It also shows the upload mechanism through the Network Share & USB drive as a media.



2 Deployment and Configuration Guide

2.1 View License Information

Lifecycle Controller allows you to view details about licenses installed on a server as shown in the screen shot here. To view information about the licenses on a server, in the upper-right corner, click **About**, and then click **License information**.



2.2 Importing from USB Drive

1. To start Lifecycle Controller, press **<F10>** during POST.



2. In the left pane, click **Platform Restore**, and then click **Import Server License**.

The screenshot displays the Dell Lifecycle Controller Unified Server Configurator interface. At the top, the Dell logo is on the left, and 'Lifecycle Controller | Unified Server Configurator' is in the center, with 'Help | About | Exit' on the right. A dark sidebar on the left contains a menu with the following items: Home, Lifecycle Log, Firmware Update, Hardware Configuration, OS Deployment, Platform Restore (highlighted in light blue), Hardware Diagnostics, Settings, and System Setup. The main content area is titled 'Platform Restore' and contains the following text: 'Select Backup Server Profile to save this server's hardware-configuration profile to the vFlash SD card. Select Export Server Profile to export to an external location and Import Server Profile to import a server profile from an external location. Select Import Server License profile to import a server license from an external location. Select Part Replacement Configuration to configure settings for replaced server parts.' Below this text are five underlined links: Backup Server Profile, Export Server Profile, Import Server Profile, Import Server License (highlighted in yellow), and Part Replacement Configuration. At the bottom of the main content area, there is an information icon (a blue circle with a white 'i') followed by the text: 'Some links may be disabled if the vFlash SD card is absent or disabled, or if the required license is absent.' The footer of the interface shows 'PowerEdge R720' and 'Service Tag: F2CZWX1'.



3. Select the **USB Drive** option, and then select the name of USB drive where the license file is stored.

The screenshot shows the 'Platform Restore' window with the 'Import Server License' section. The 'USB Drive' option is selected. The 'Select Device' dropdown menu is set to 'PRAVEEN (Virtual Floppy)'. The 'File Path' field is empty. The 'Network Share' option is unselected, with 'CIFS' and 'NFS' radio buttons. The 'Share Name', 'Domain and User Name', 'Password', and 'File Path' fields are all greyed out. A 'Test Network Connection' link is present below the network share fields. The bottom of the window shows the system information: 'PowerEdge R720' and 'Service Tag: F2CZWX1', along with 'Cancel', 'Back', and 'Finish' buttons.

Platform Restore

Import Server License

Select the device and location to import a license.

USB Drive

Select Device: PRAVEEN (Virtual Floppy)

File Path: _____

Network Share

CFS NFS

Share Name: _____

Domain and User Name: _____

Password: _____

File Path: _____

[Test Network Connection](#)

PowerEdge R720
Service Tag: F2CZWX1

Cancel Back Finish

Note: Make sure to copy the license file in to the USB drive.



 Lifecycle Controller | Unified Server Configurator Help | About | Exit

Platform Restore

Import Server License

Select the device and location to import a license.

USB Drive

Select Device

File Path

Network Share

CFS NFS

Share Name

Domain and User Name

Password

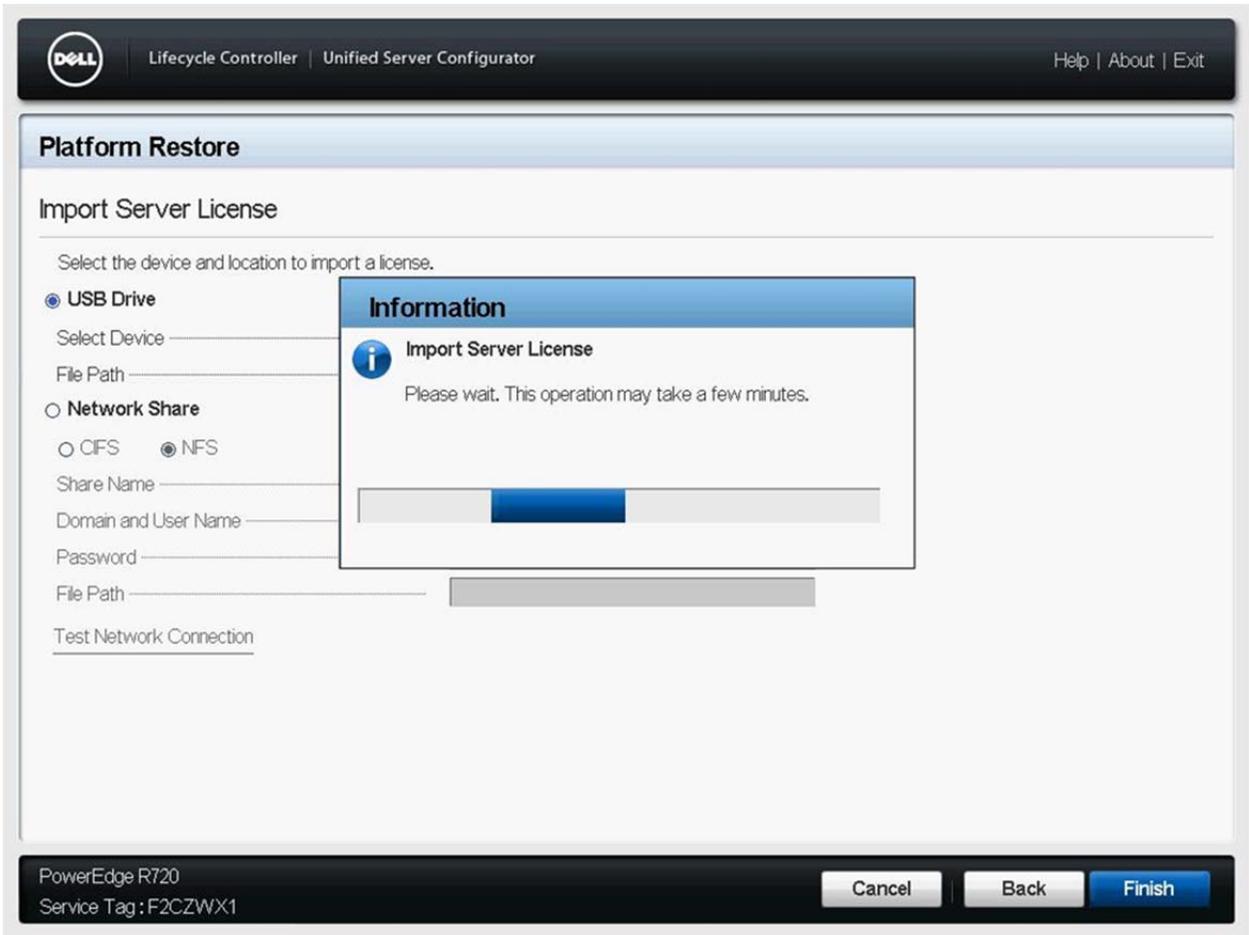
File Path

[Test Network Connection](#)

PowerEdge R720
Service Tag : F2CZWX1

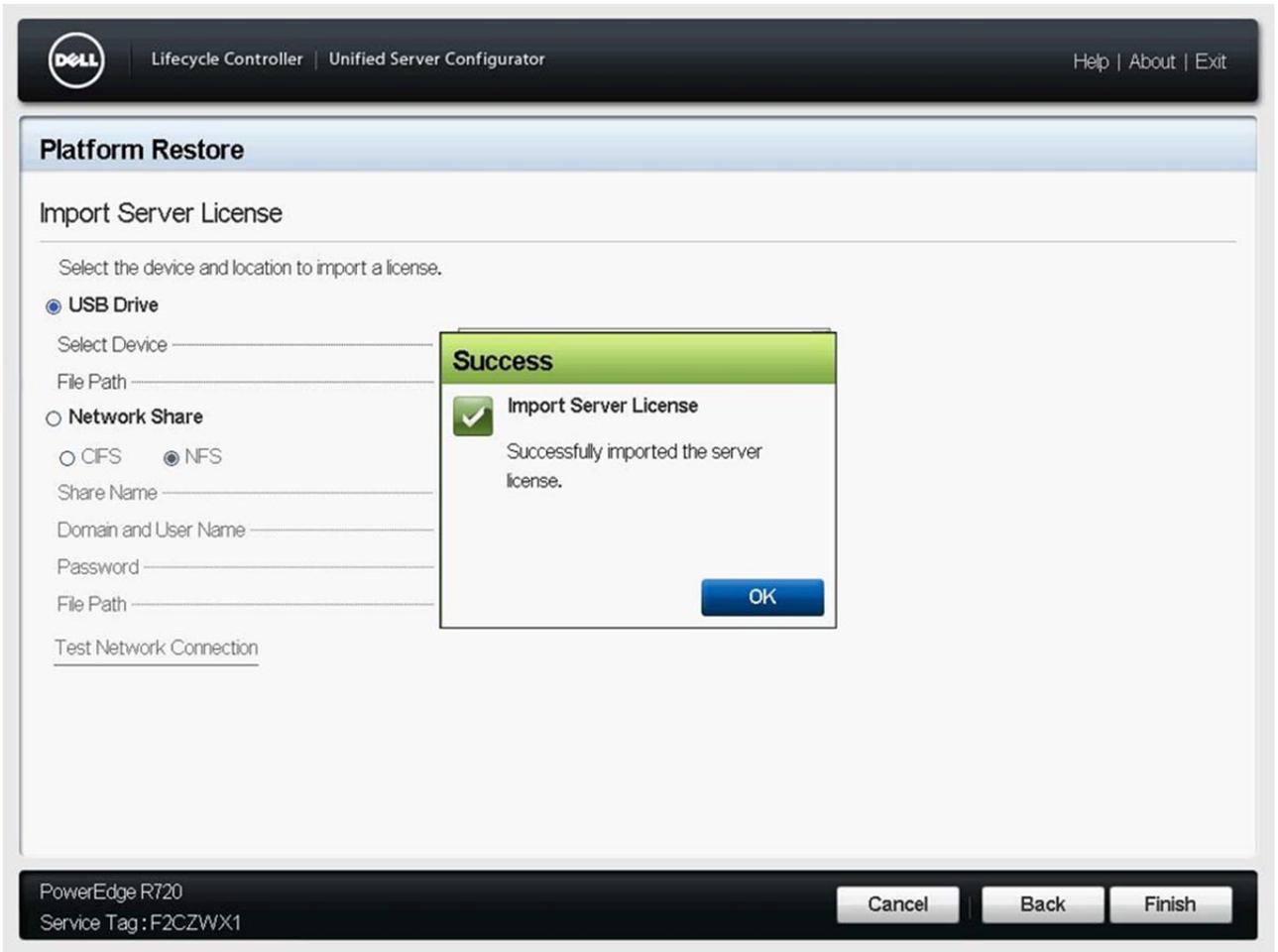
4. Type full path of the license file, and then click **Finish**.





Lifecycle Controller takes a few minutes to import the license file.



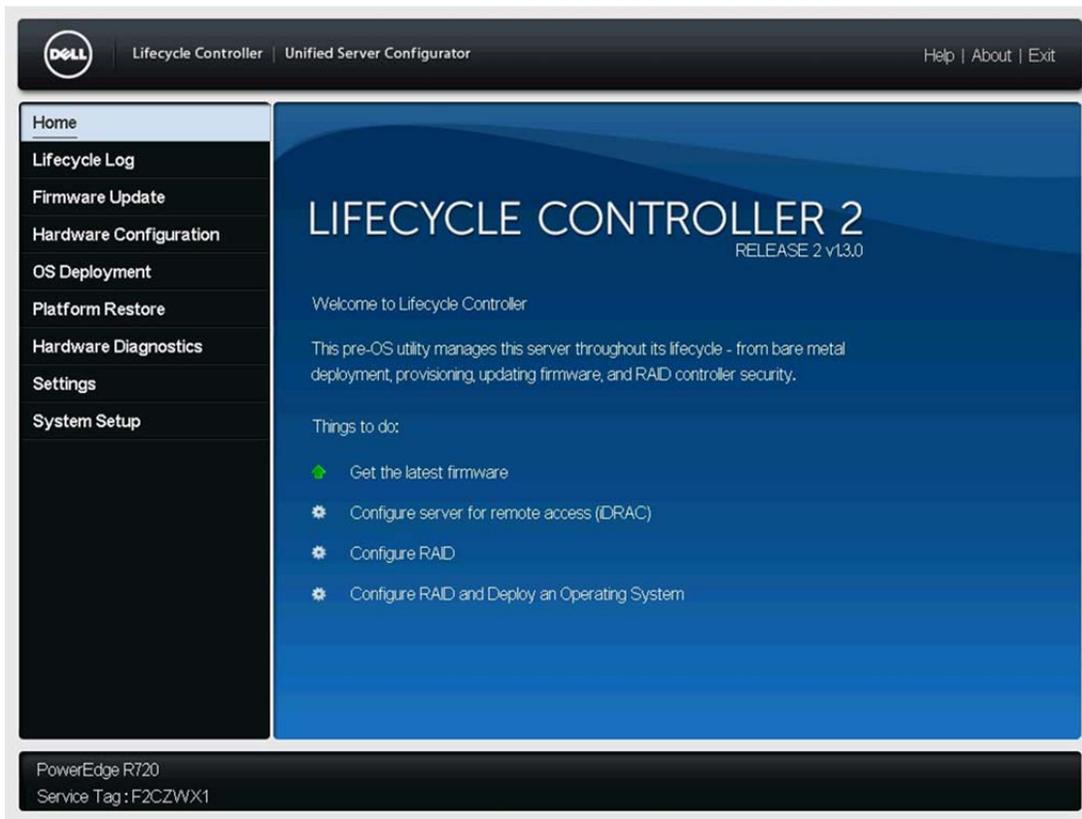


A message is displayed to indicate that the file is successfully imported. A sample screen shot is given here.



2.3 Using Network Share CIFS

To start Lifecycle Controller , press <F10> during POST.



5. In the left pane, click **Platform Restore**, and then click **Import Server License**.

The screenshot displays the Dell Lifecycle Controller Unified Server Configurator interface. At the top, the Dell logo is on the left, and 'Lifecycle Controller | Unified Server Configurator' is in the center, with 'Help | About | Exit' on the right. A dark sidebar on the left contains navigation links: Home, Lifecycle Log, Firmware Update, Hardware Configuration, OS Deployment, Platform Restore (highlighted), Hardware Diagnostics, Settings, and System Setup. The main content area is titled 'Platform Restore' and contains the following text: 'Select Backup Server Profile to save this server's hardware-configuration profile to the vFlash SD card. Select Export Server Profile to export to an external location and Import Server Profile to import a server profile from an external location. Select Import Server License profile to import a server license from an external location. Select Part Replacement Configuration to configure settings for replaced server parts.' Below this text are five underlined links: Backup Server Profile, Export Server Profile, Import Server Profile, Import Server License (highlighted with a yellow bar), and Part Replacement Configuration. At the bottom of the main area is an information box with a blue 'i' icon and the text: 'Some links may be disabled if the vFlash SD card is absent or disabled, or if the required license is absent.' The footer of the interface shows 'PowerEdge R720' and 'Service Tag : F2CZWX1'.



6. Select the **CIFS** option.

The screenshot shows the 'Platform Restore' window with the 'Import Server License' section. The 'Network Share' option is selected, and the 'CIFS' radio button is chosen. The 'USB Drive' option is also visible but not selected. The 'Network Share' section includes fields for 'Share Name', 'Domain and User Name', 'Password', and 'File Path'. A 'Test Network Connection' link is present below these fields. The bottom of the window displays the system information: 'PowerEdge R720' and 'Service Tag: F2CZWX1', along with 'Cancel', 'Back', and 'Finish' buttons.

Platform Restore

Import Server License

Select the device and location to import a license.

USB Drive

Select Device _____ Insert Media

File Path _____

Network Share

CIFS NFS

Share Name _____

Domain and User Name _____

Password _____

File Path _____

[Test Network Connection](#)

PowerEdge R720
Service Tag: F2CZWX1

Cancel Back Finish



7. Type appropriate information in the boxes, and then click **Finish**.

The screenshot shows the 'Platform Restore' window with the 'Import Server License' section. The 'Network Share' option is selected. The fields are filled with the following information:

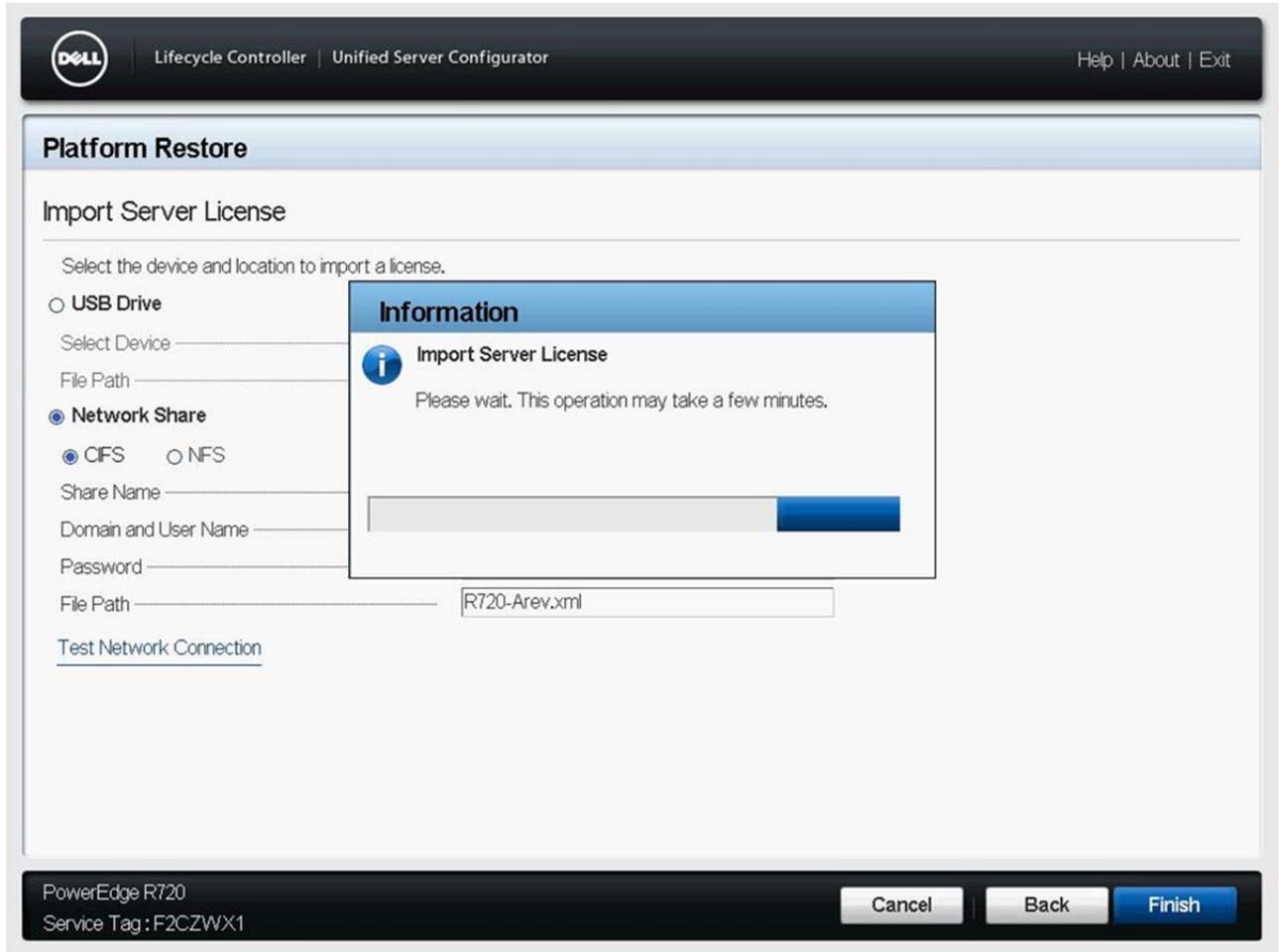
Field	Value
Select Device	Insert Media
File Path	
Share Name	\\10.94.197.35\share
Domain and User Name	joe
Password	***
File Path	R720-Arev.xml

At the bottom of the window, the system information is displayed: PowerEdge R720, Service Tag: F2CZWX1. There are three buttons: Cancel, Back, and Finish.

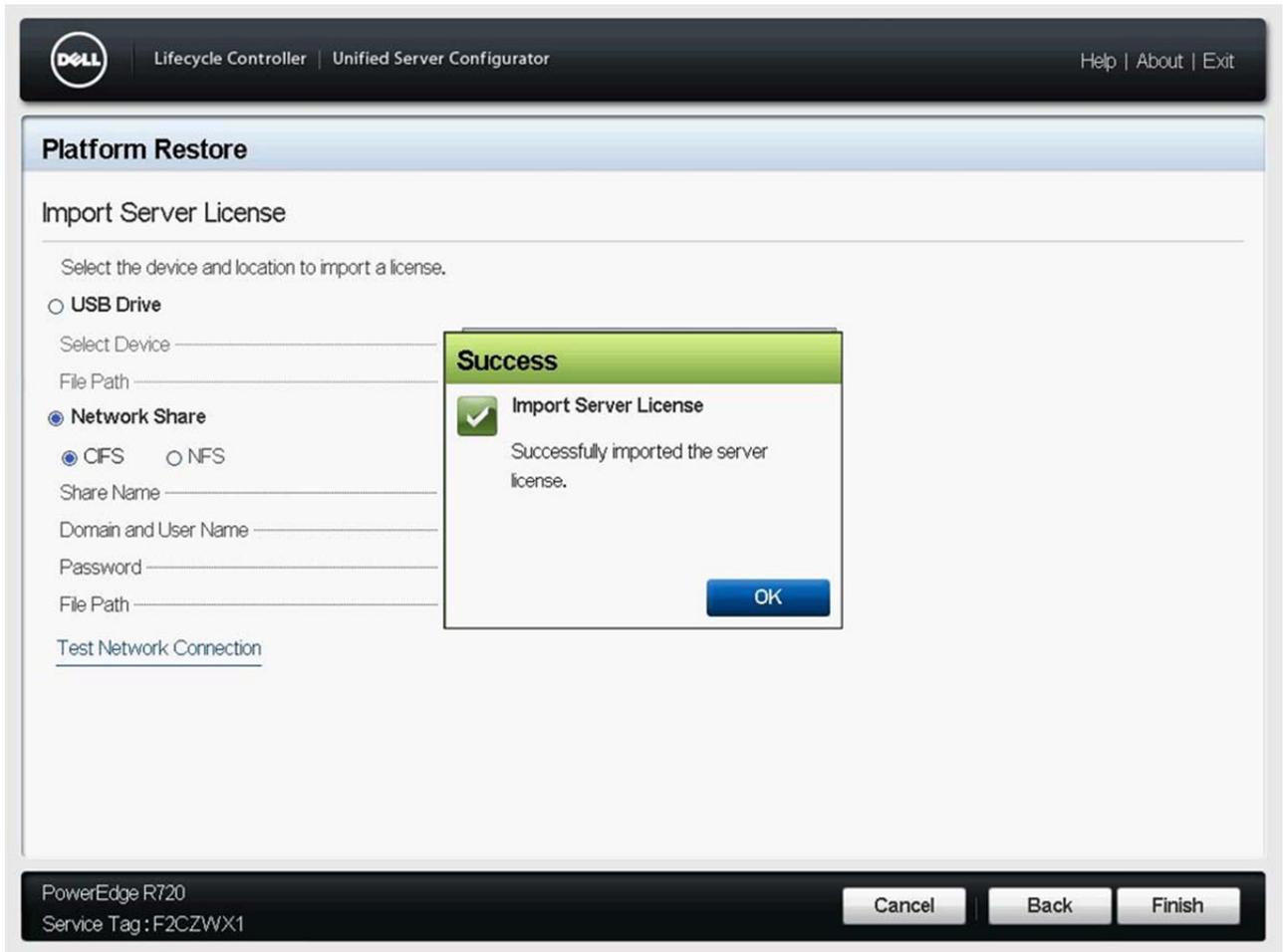
Note: Make sure to copy the .xml license file in to the CIFS share.



Lifecycle Controller takes a few minutes to import the server license file.



A message is displayed to indicate that the license file is successfully imported. A sample screen shot is given here.



2.4 Using Network Share NFS

8. To start Lifecycle Controller, press **<F10>** during POST.



9. In the left pane, click **Platform Restore**, and then click **Import Server License**.

The screenshot displays the Dell Lifecycle Controller Unified Server Configurator interface. The top navigation bar includes the Dell logo, the text "Lifecycle Controller | Unified Server Configurator", and links for "Help | About | Exit". On the left, a dark sidebar menu lists various options: Home, Lifecycle Log, Firmware Update, Hardware Configuration, OS Deployment, Platform Restore (highlighted in light blue), Hardware Diagnostics, Settings, and System Setup. The main content area is titled "Platform Restore" and contains the following text: "Select Backup Server Profile to save this server's hardware-configuration profile to the vFlash SD card. Select Export Server Profile to export to an external location and Import Server Profile to import a server profile from an external location. Select Import Server License profile to import a server license from an external location. Select Part Replacement Configuration to configure settings for replaced server parts." Below this text are five underlined links: "Backup Server Profile", "Export Server Profile", "Import Server Profile", "Import Server License" (highlighted in yellow), and "Part Replacement Configuration". At the bottom of the main content area, there is an information icon (a blue circle with a white 'i') and the text: "Some links may be disabled if the vFlash SD card is absent or disabled, or if the required license is absent." The bottom status bar shows "PowerEdge R720" and "Service Tag : F2CZWX1".



10. Select the **NFS** option.

The screenshot shows the 'Platform Restore' window with the 'Import Server License' section. The 'Network Share' option is selected, and the 'NFS' sub-option is also selected. The 'USB Drive' section is unselected. The 'Network Share' section includes fields for 'Share Name', 'Domain and User Name', 'Password', and 'File Path'. A 'Test Network Connection' link is present below these fields. The bottom of the window displays the system information: 'PowerEdge R720' and 'Service Tag : F2CZWX1', along with 'Cancel', 'Back', and 'Finish' buttons.

Platform Restore

Import Server License

Select the device and location to import a license.

USB Drive

Select Device _____ Insert Media _____

File Path _____

Network Share

CFS **NFS**

Share Name _____

Domain and User Name _____

Password _____

File Path _____

[Test Network Connection](#)

PowerEdge R720
Service Tag : F2CZWX1

Cancel Back Finish



11. Type full path of the shared folder and the license file, and then click **Finish**.

The screenshot shows the 'Platform Restore' window with the 'Import Server License' section. The 'Network Share' option is selected. The 'Share Name' field contains '\\10.94.136.140\pradeep' and the 'File Path' field contains 'R720-Arev.xml'. The 'USB Drive' section is unselected. The bottom of the window shows the server model 'PowerEdge R720' and 'Service Tag: F2CZWX1', along with 'Cancel', 'Back', and 'Finish' buttons.

Platform Restore

Import Server License

Select the device and location to import a license.

USB Drive

Select Device: Insert Media

File Path:

Network Share

CFS NFS

Share Name: \\10.94.136.140\pradeep

Domain and User Name:

Password:

File Path: R720-Arev.xml

[Test Network Connection](#)

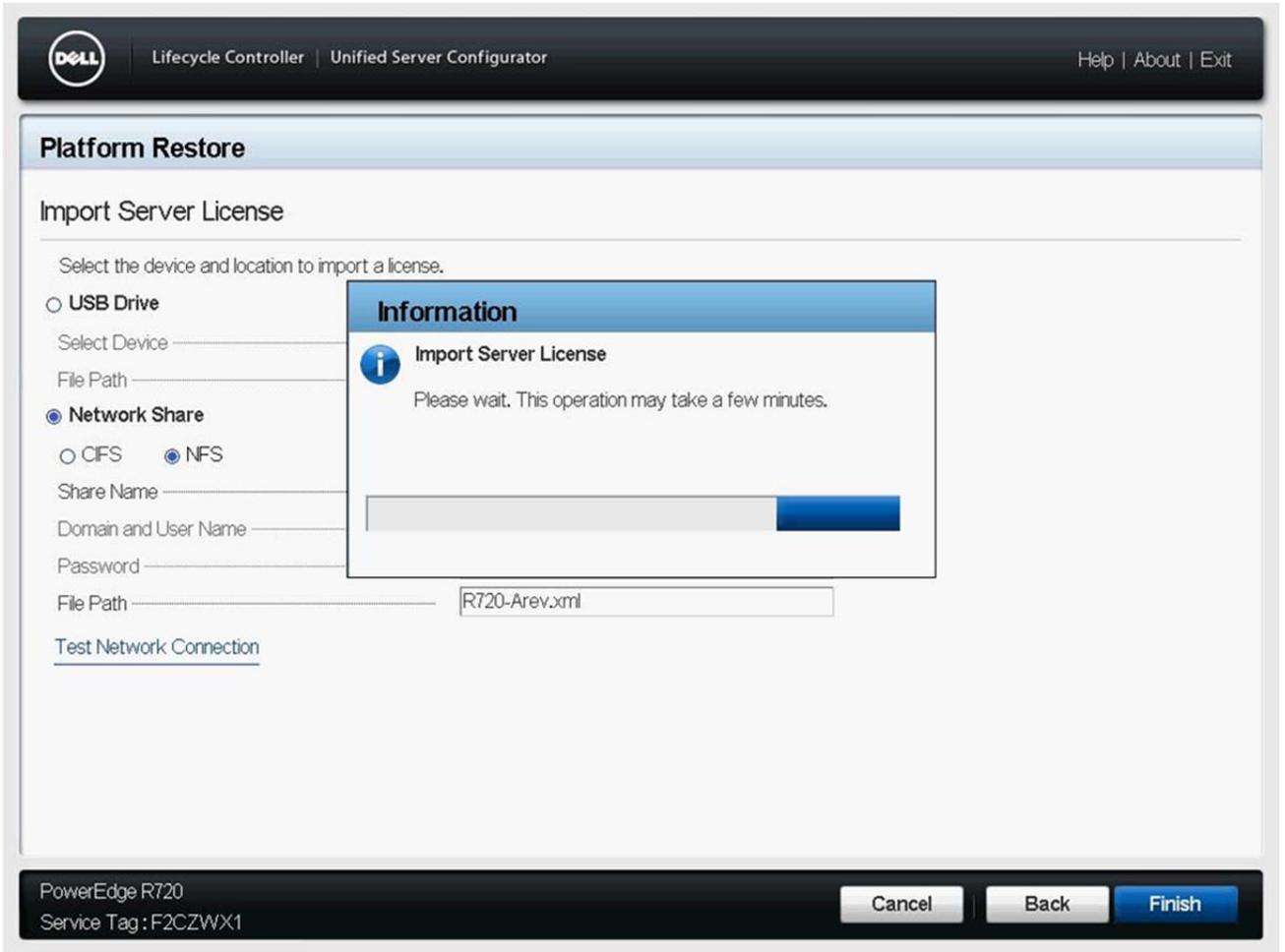
PowerEdge R720
Service Tag: F2CZWX1

Cancel Back Finish

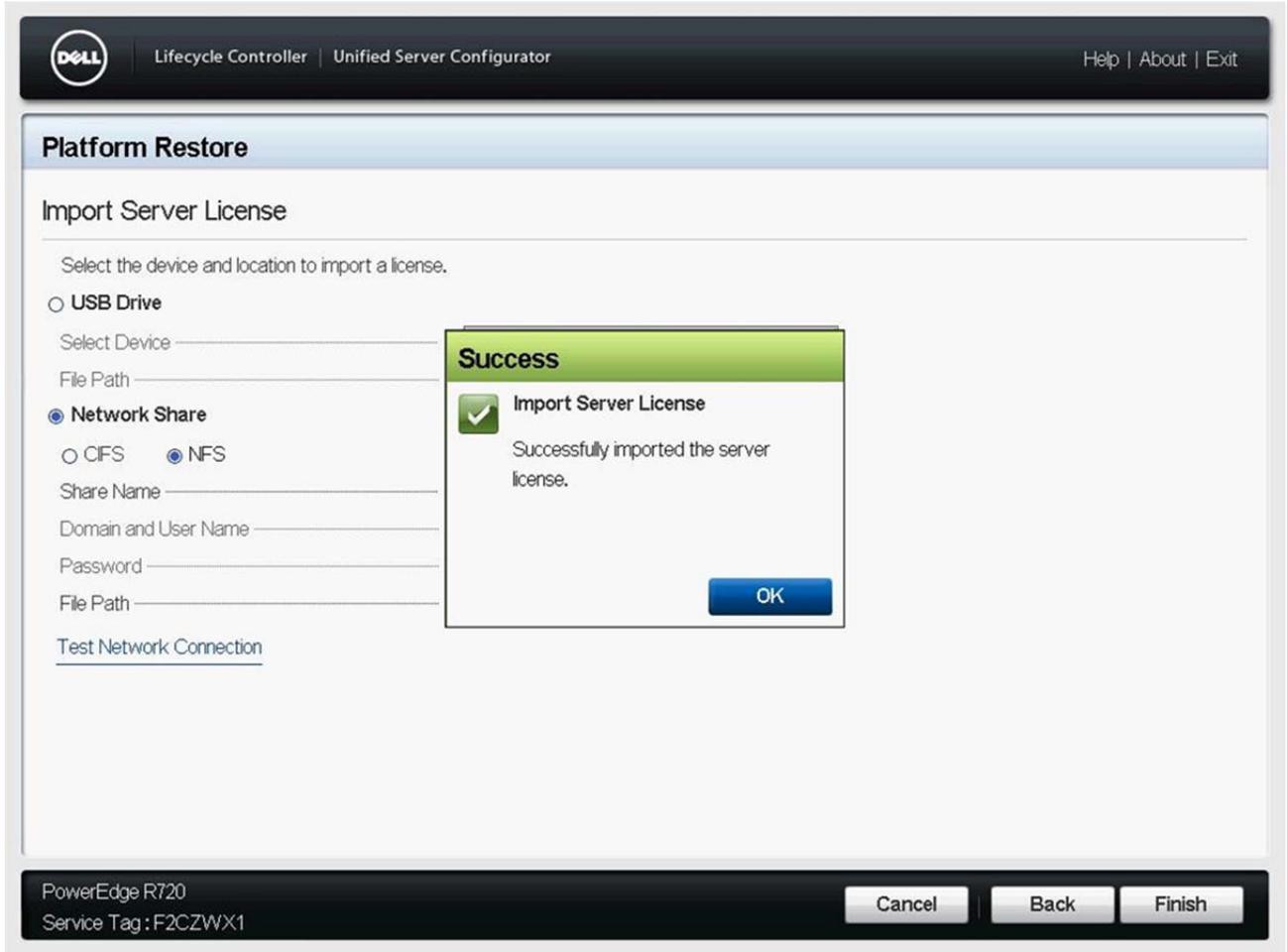
Note: Make sure to copy the License .xml file in the NFS share.



12. Lifecycle Controller takes few minutes to import the License file.



13. The message is displayed to indicate that the license file is successfully imported. A sample screen shot is given here.

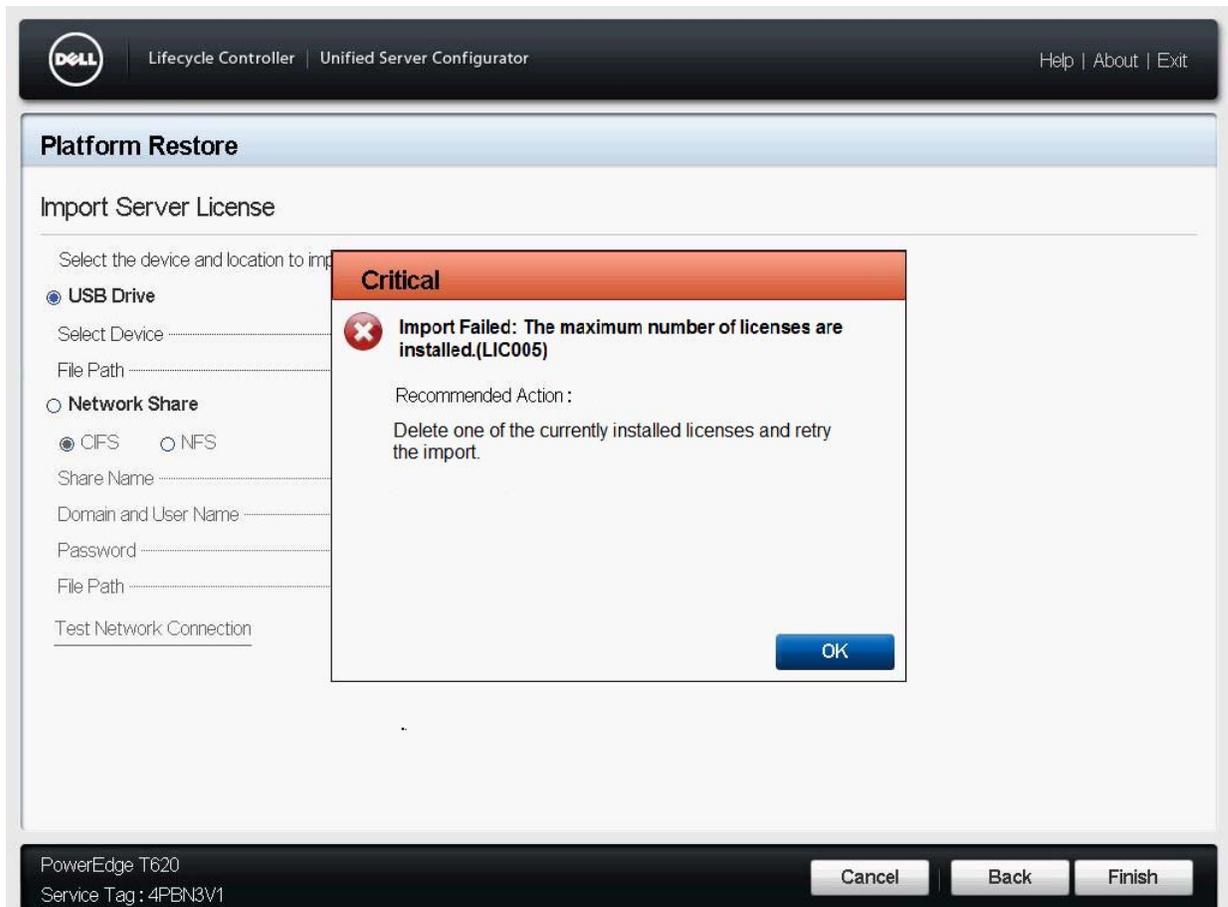


3 Error Scenarios and Resolutions

3.1 LIC005: Import Failed: Maximum number of licenses are installed

Description: You can install a maximum of 16 licenses on a server. If you try installing more than 16 licenses, an error message is displayed as shown in the screen shot here.

Solution: Delete more than one license from a server, and then retry installing a license.



3.2 LIC006: The license has expired

Description: If you try to import a license that has already expired, an error message is displayed.

Solution: Obtain an appropriate license or replacement license, and then install.

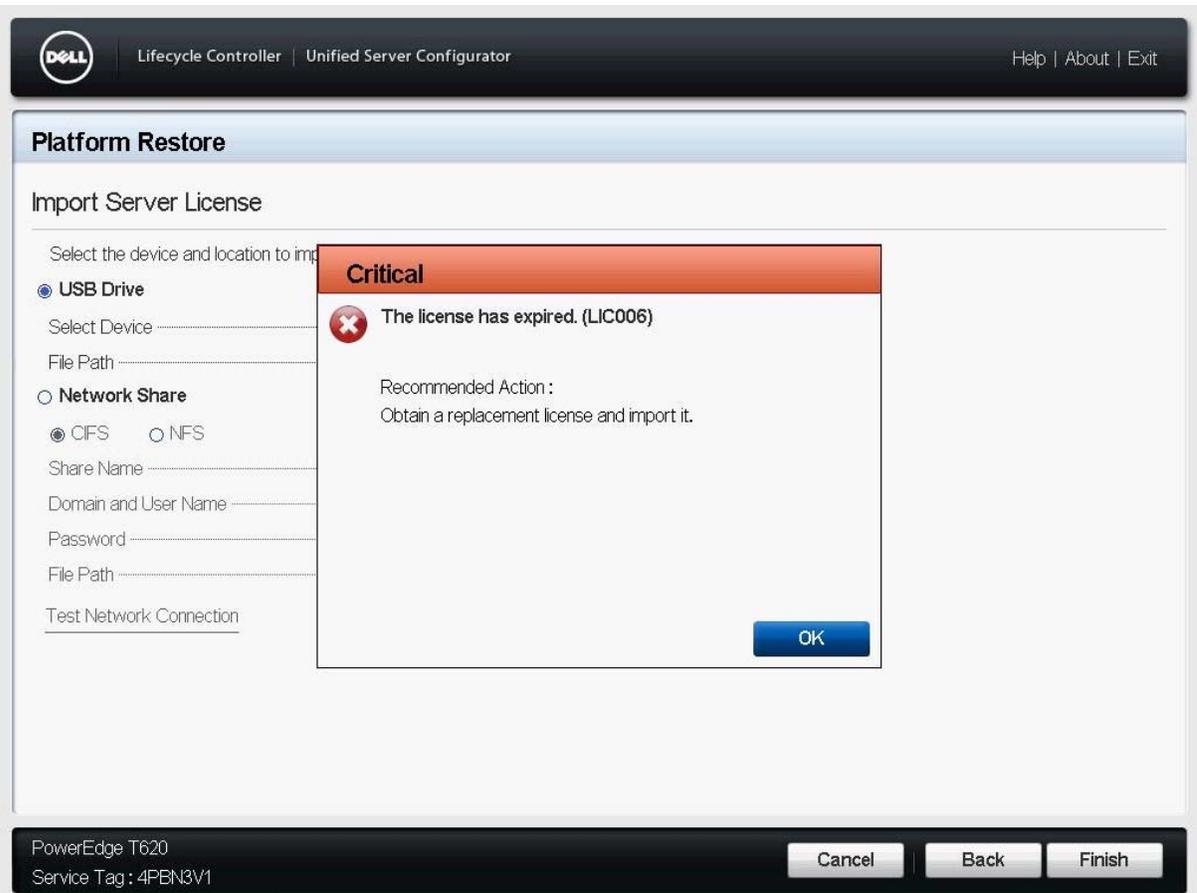
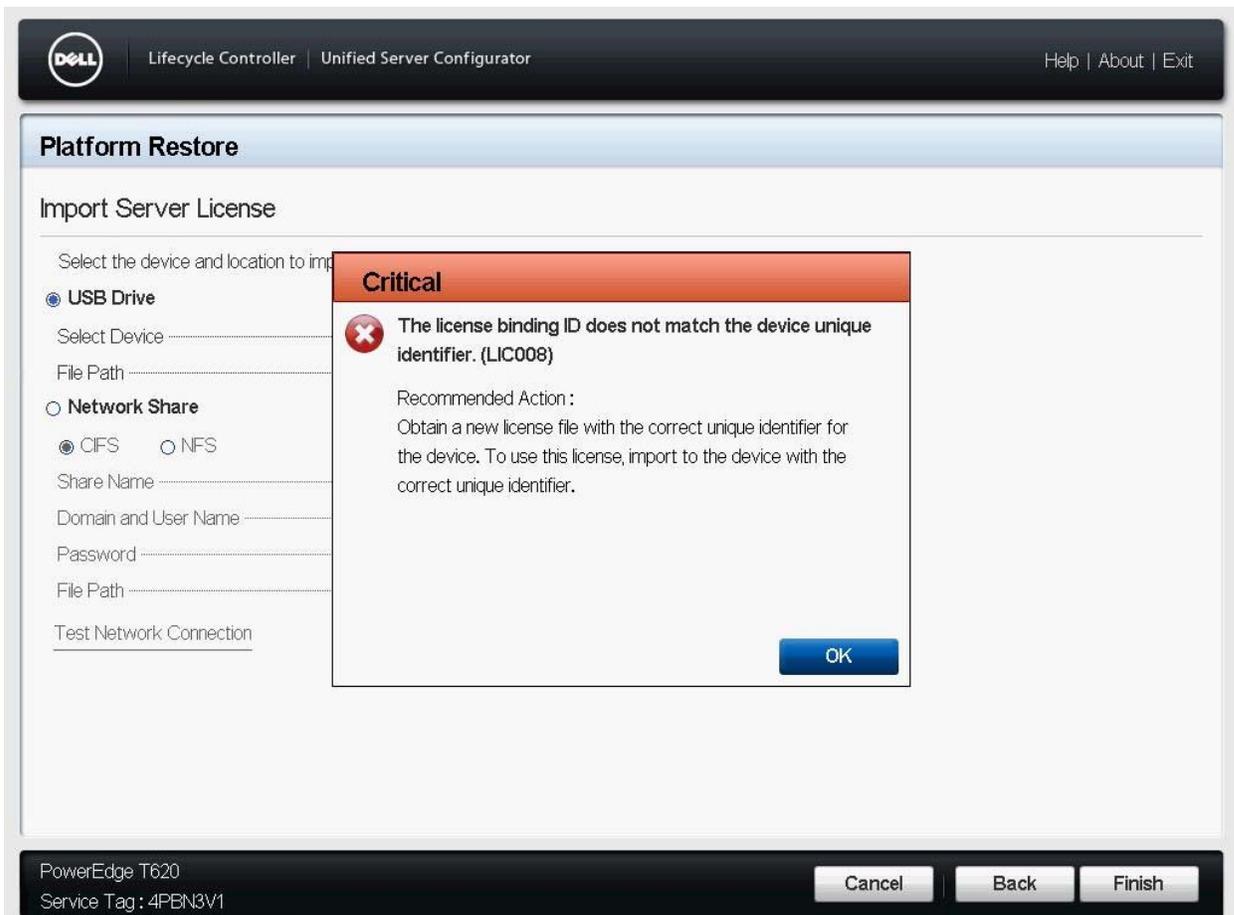


Figure 1

3.3 LIC008: The license binding ID does not match with the device unique identifier

Description: If you try to import the perpetual license which has the unique identifier or service tag specified to another device, an error message is displayed as shown in the screen shot here.

Solution: Obtain a new license file which has your device unique identifier or service tag, and then import it.



3.4 LIC017: The license file is corrupted, has not been unzipped, or is not a valid license file

Description: If you try to import a license file that is expanded, corrupted, or not valid, then an error message is displayed as shown in the screen shot here.

Solution: Try importing a valid license file.





Platform Restore

Import Server License

Select the device and location to import license file.

USB Drive

Select Device

File Path

Network Share

CIFS NFS

Share Name

Domain and User Name

Password

File Path

Test Network Connection

Critical



The license file is corrupted, has not been unzipped, or is not a valid license file. (LIC017)

Recommended Action :

Download the license file, unzip and import the license.

OK

PowerEdge T620
Service Tag : 4PBN3V1

Cancel

Back

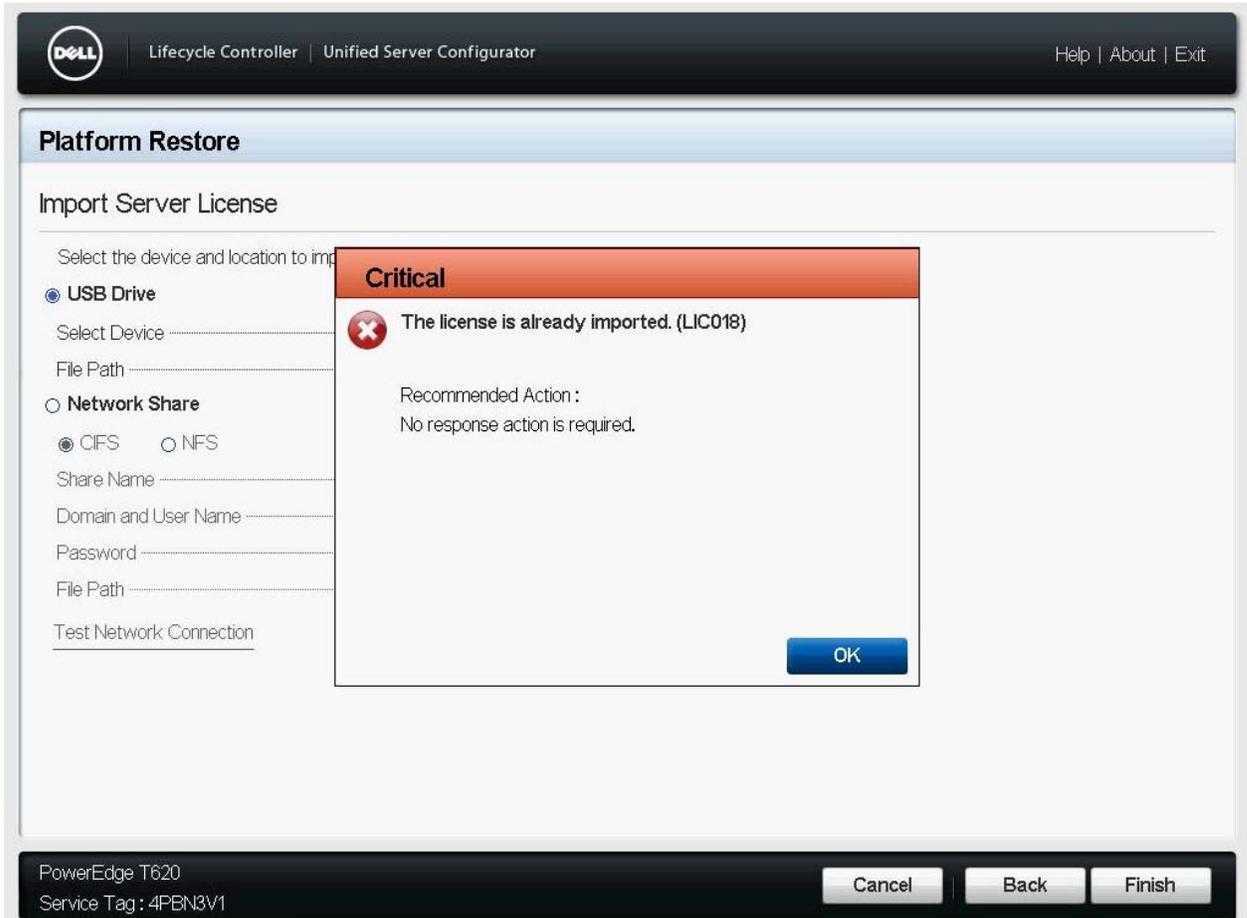
Finish



3.5 LIC018: The license is already imported

Description: The error message is displayed, when you try to install a previously installed license. A sample screen shot is given here.

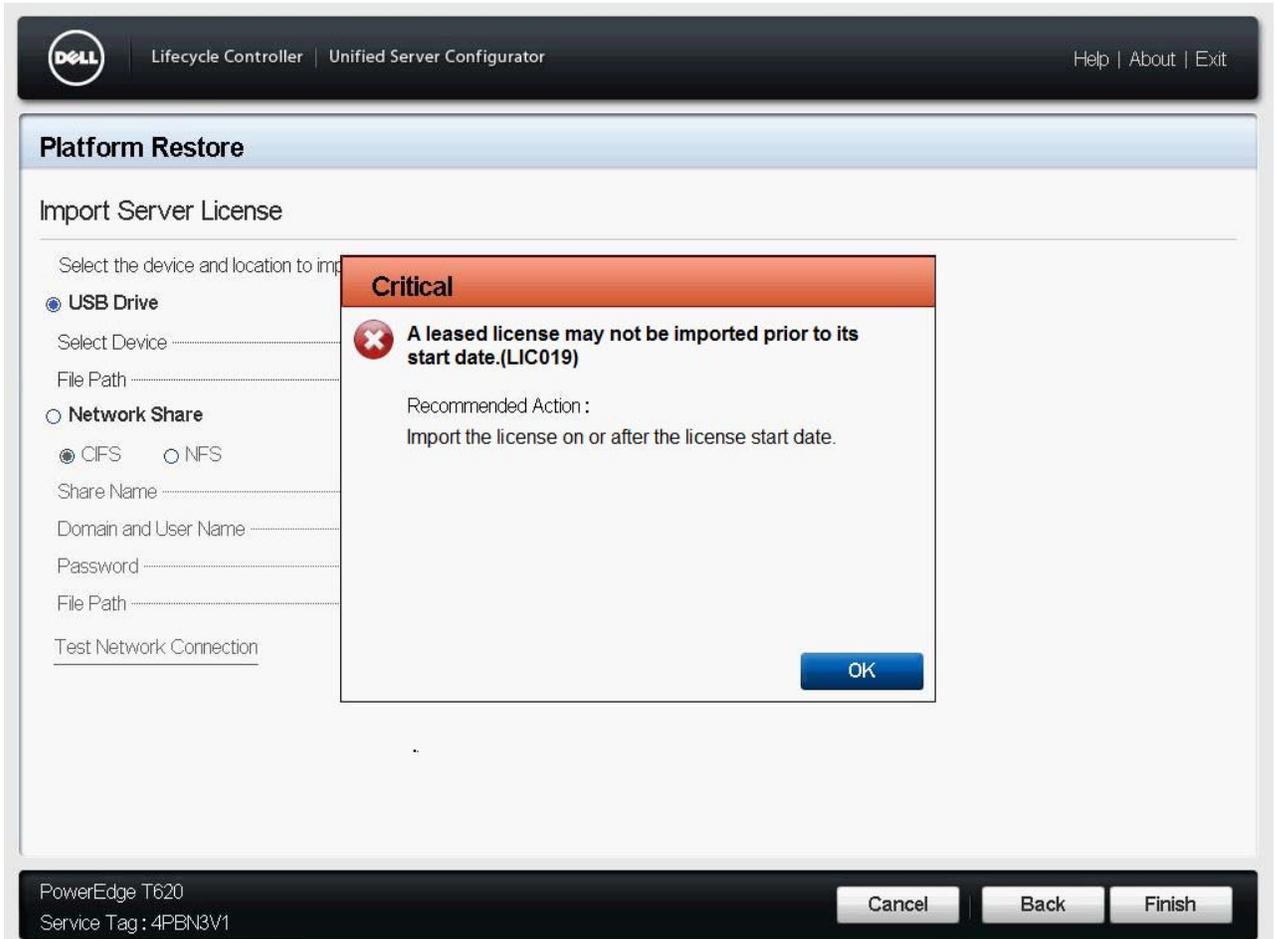
Solution: Do not reinstall the license on the server.



3.6 LIC019: A leased license may not be imported prior to its start date

Description: The error message is displayed if you try to install a license before its starting date. A sample screen shot is given here.

Solution: Install the license on or after the license start date.

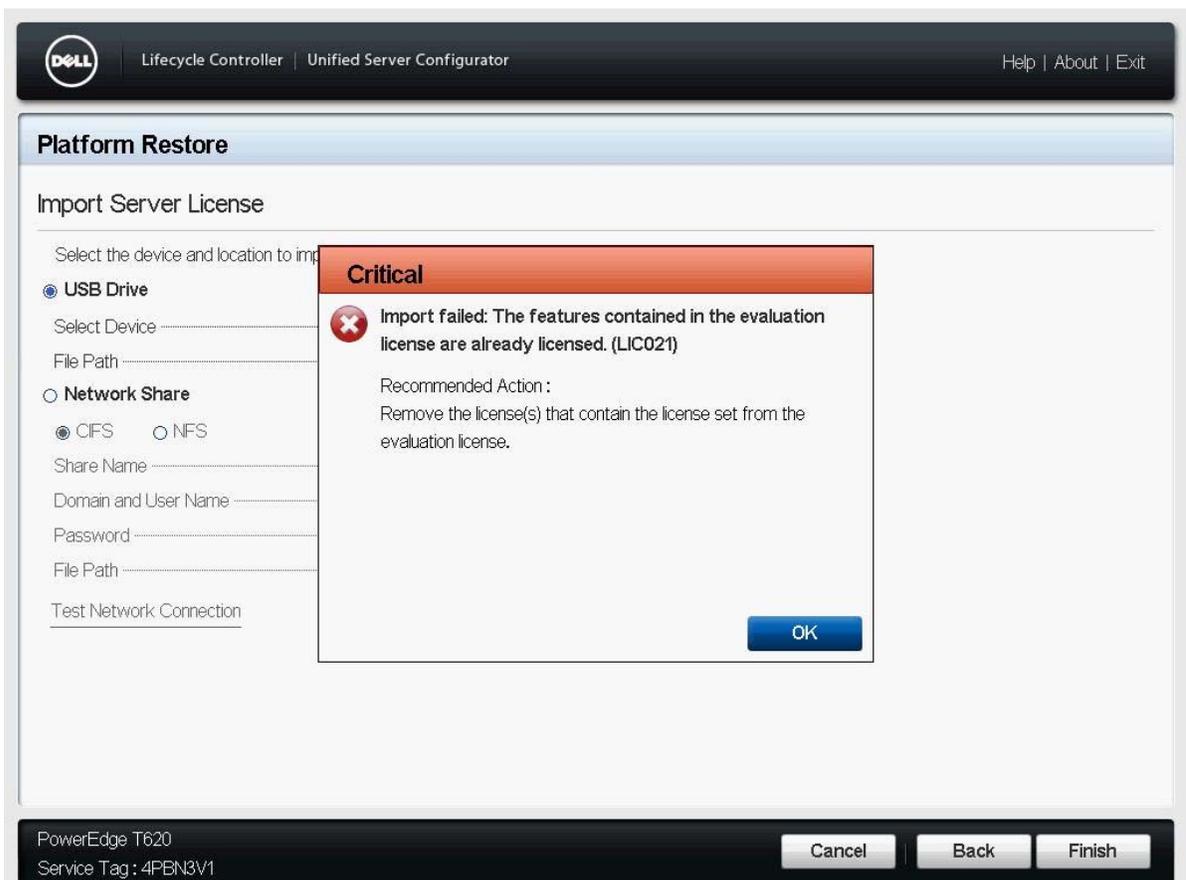


3.7 LIC021: Import failed: The features contained in the evaluation license are already licensed

Description:The error message is displayed if you try importing any other license type (for example, if server has a perpetual license installed and tries to import an evaluation license), or when a installed license is still active. A sample screen shot is given here.

Solution: Delete the active license on the server, and then try to import another type of license from the server.

Note:Deleting license will permanently remove the license from the server.



3.8 Can I use an Evaluation license?

You cannot reuse an Evaluation license.



3.9 Best Practices

For recommended actions in case of any errors during installing a license, Refer to Error Scenarios and Resolution.

3.10 Technical White Paper

Table 1 Technical White Paper Definition

Is	Is not
<ul style="list-style-type: none">• Tested and validated on all 12G servers, having LC2 1.3.0 and iDRAC7 1.50.50 versions.	<ul style="list-style-type: none">• Supported on 11G or 12G servers having LC 1.2.0 version or earlier.



A Configuration Details

Table 2 Component Table

Component	Description
Firmware version	NIC, RAID, switch, storage firmware versions, and so on.
Application	That is, MS–SQL Server, Oracle, and so on includes management applications (OMSA, SANHQ, and so on).
Server	Server type, CPU type, memory, internal HDDs, and so on.



B Additional Resources

Support.dell.com is focused on meeting your needs with proven services and support.

DellTechCenter.com is an IT Community where you can connect with Dell Customers and Dell employees for the purpose of sharing knowledge, best practices, and information about Dell products and installations.

Referenced or recommended Dell publications:

- Lifecycle Controller User Guide:
<http://en.community.dell.com/dell-groups/dtcmedia/m/mediagallery/19852516/download.aspx>

