



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.

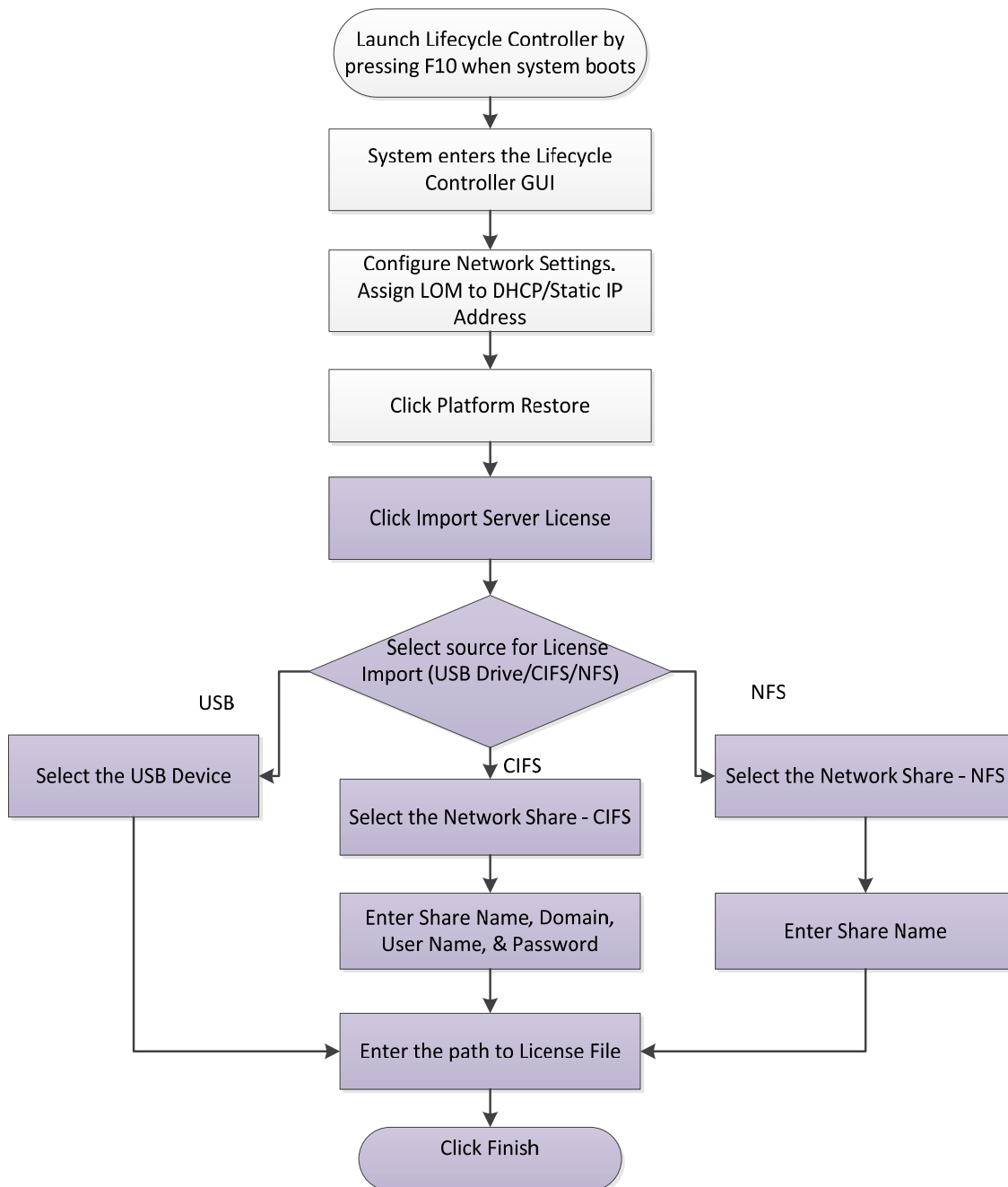
Customers with PowerEdge 200–500 series can also upgrade their systems to either Express or Enterprise by installing a license key. The installed license information can be verified by clicking the **About** icon, and then clicking the **License Information** link on the Lifecycle Controller GUI.

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

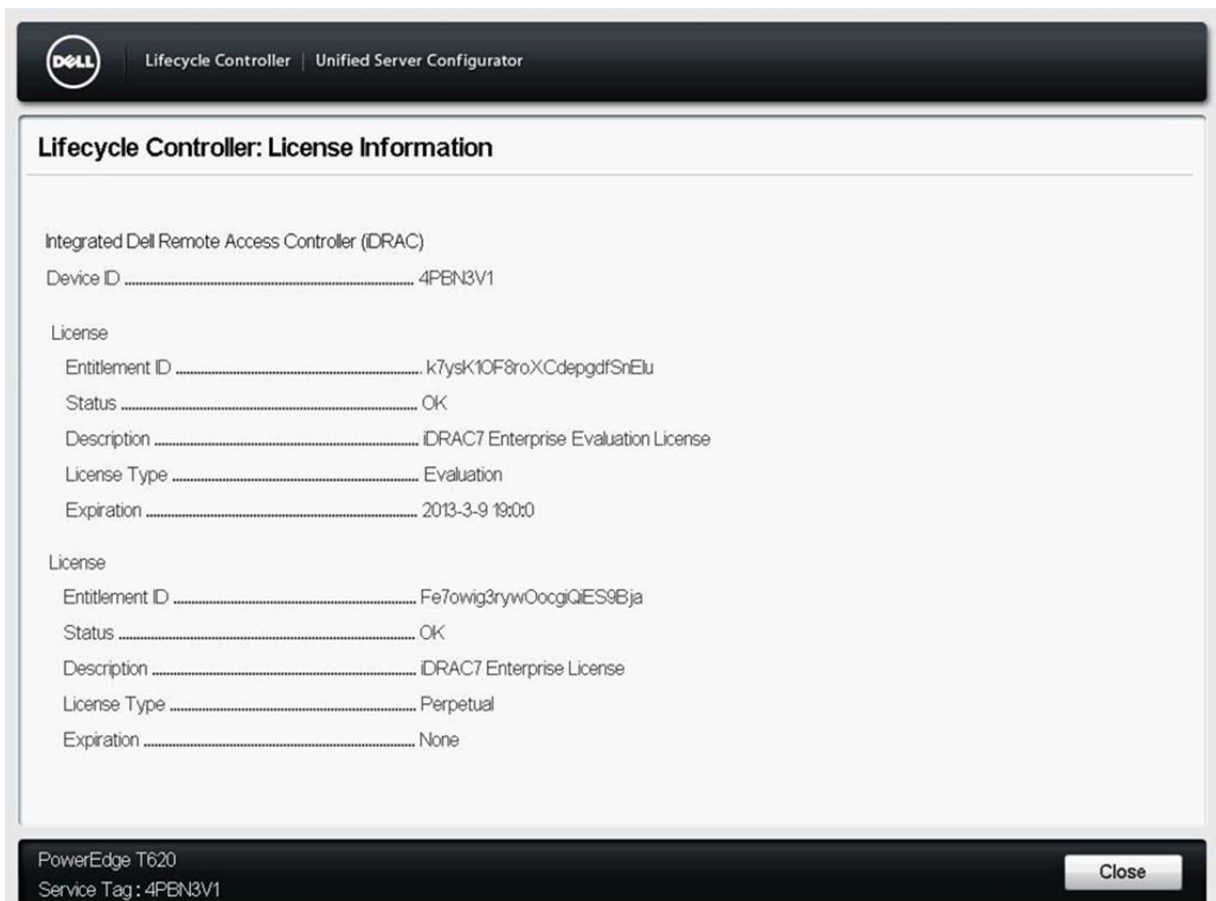
The tasks that must be performed to import a license using Lifecycle Controller GUI is shown in the process flow chart here. It also shows the upload mechanism through the Network Share & USB drive as a media.



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**.

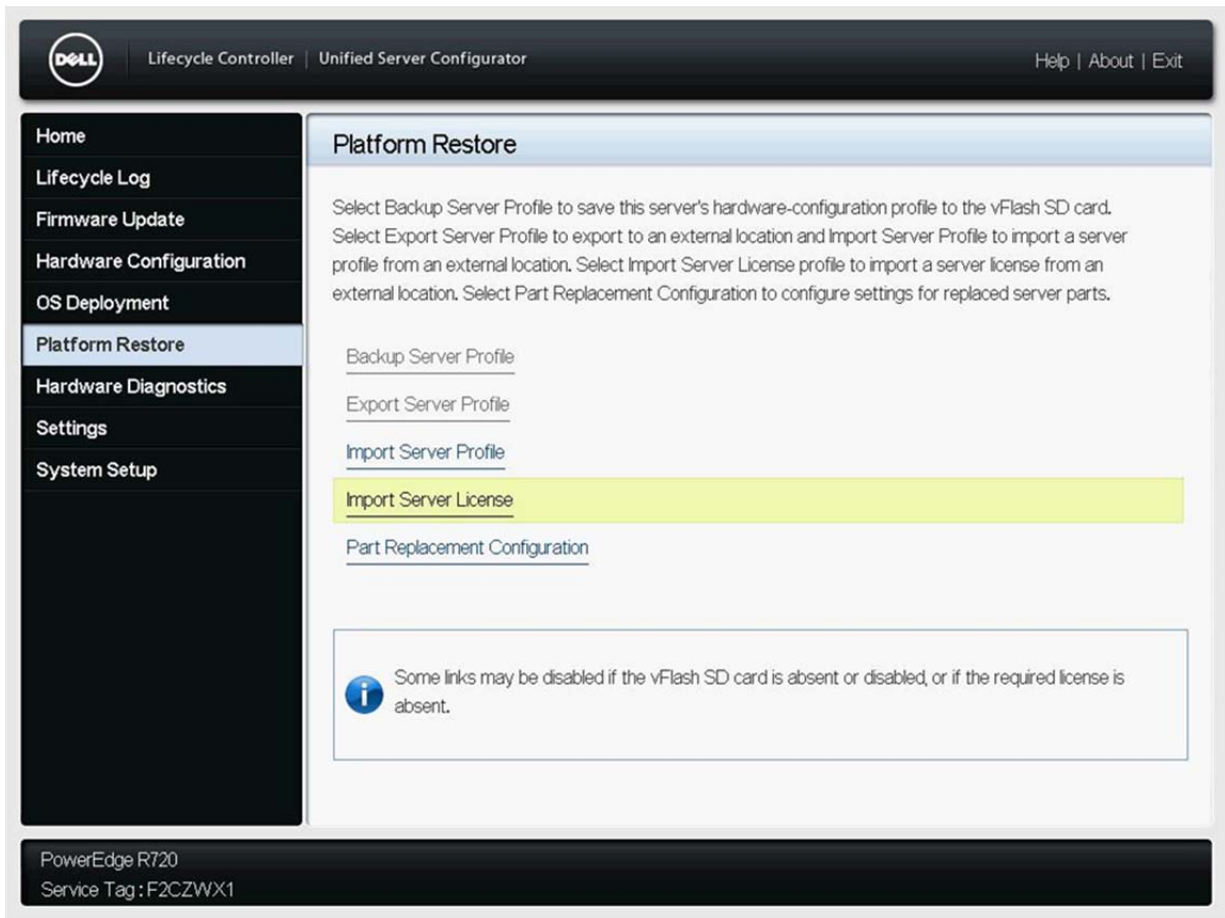


2.2 Importing from USB Drive

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



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



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

The screenshot shows the Dell Lifecycle Controller Unified Server Configurator interface. At the top, there is a header bar with the Dell logo, "Lifecycle Controller | Unified Server Configurator", and links for "Help | About | Exit". Below this is a section titled "Platform Restore" with a sub-section "Import Server License". The instruction "Select the device and location to import a license." is displayed. There are two main options: "USB Drive" (selected with a radio button) and "Network Share" (unselected). Under "USB Drive", there is a "Select Device" dropdown menu showing "PRAVEEN (Virtual Floppy)" and an empty "File Path" text box. Under "Network Share", there are radio buttons for "CIFS" and "NFS" (selected). Below these are text boxes for "Share Name", "Domain and User Name", "Password", and "File Path". A "Test Network Connection" link is also present. At the bottom of the window, a black bar displays "PowerEdge R720" and "Service Tag: F2CZWX1" on the left, and "Cancel", "Back", and "Finish" buttons on the right.

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**

☐ CIFS ☒ **NFS**

Share Name

Domain and User Name

Password

File Path

[Test Network Connection](#)

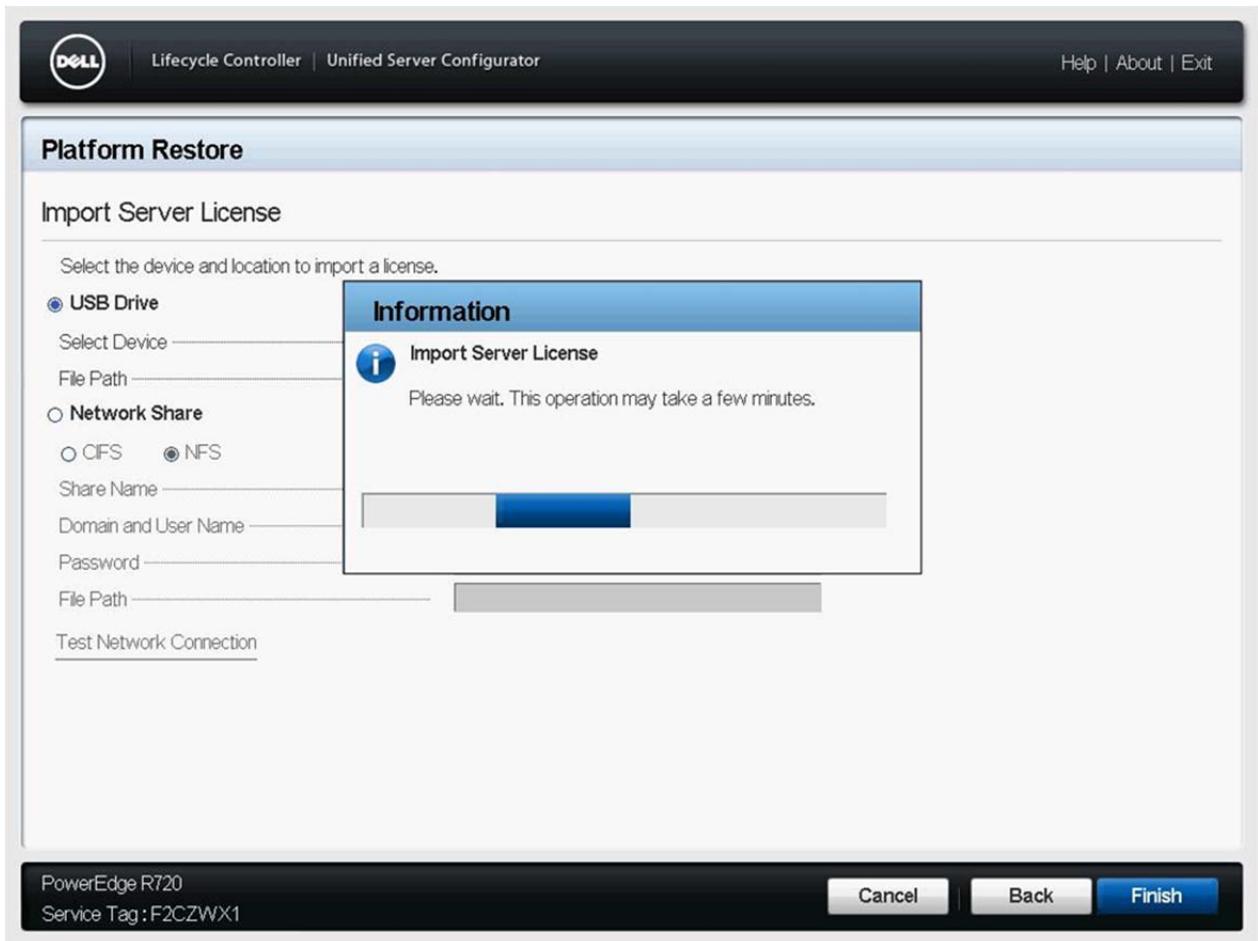
PowerEdge R720
Service Tag: F2CZWX1

Cancel

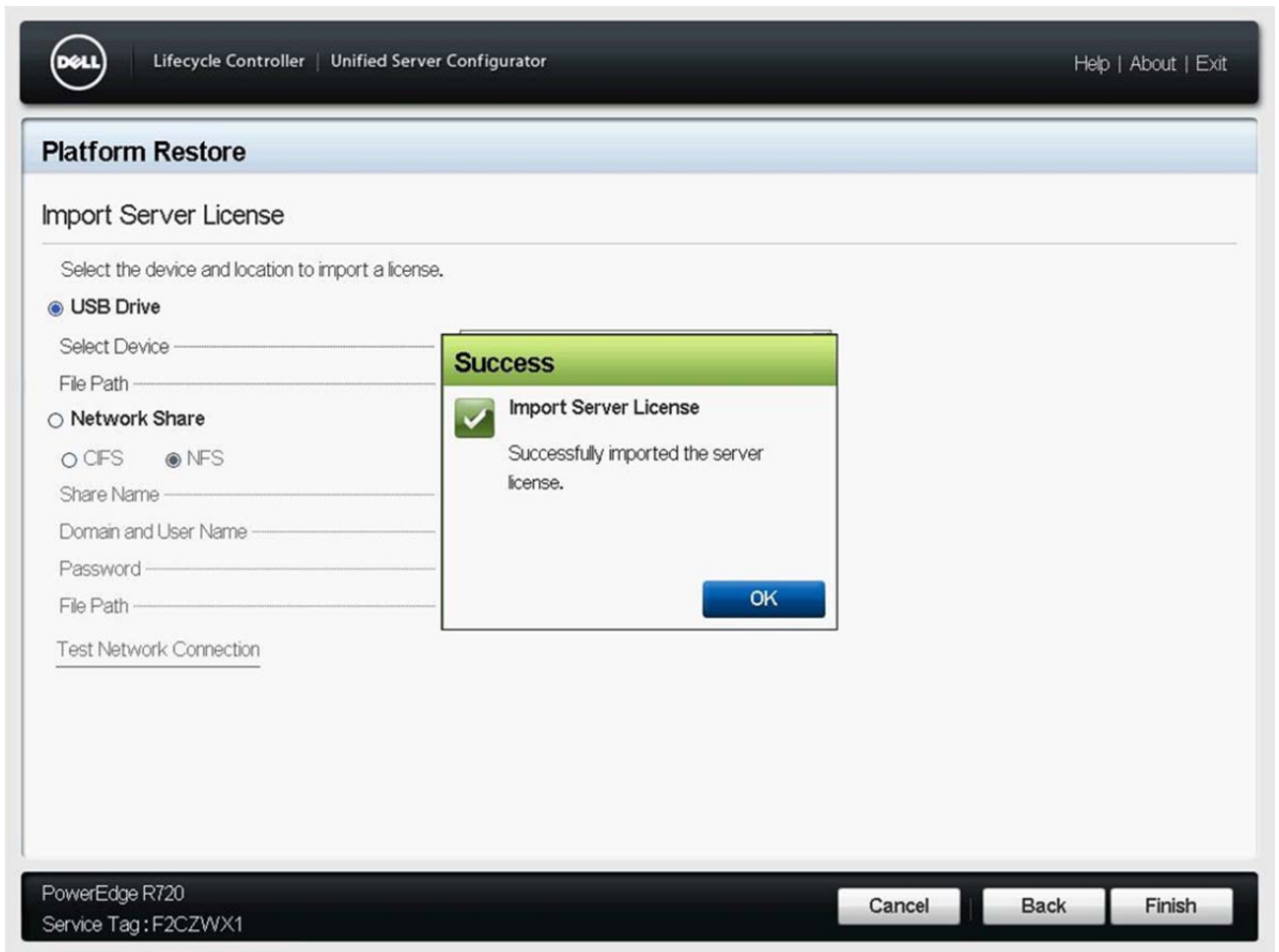
Back

Finish

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



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



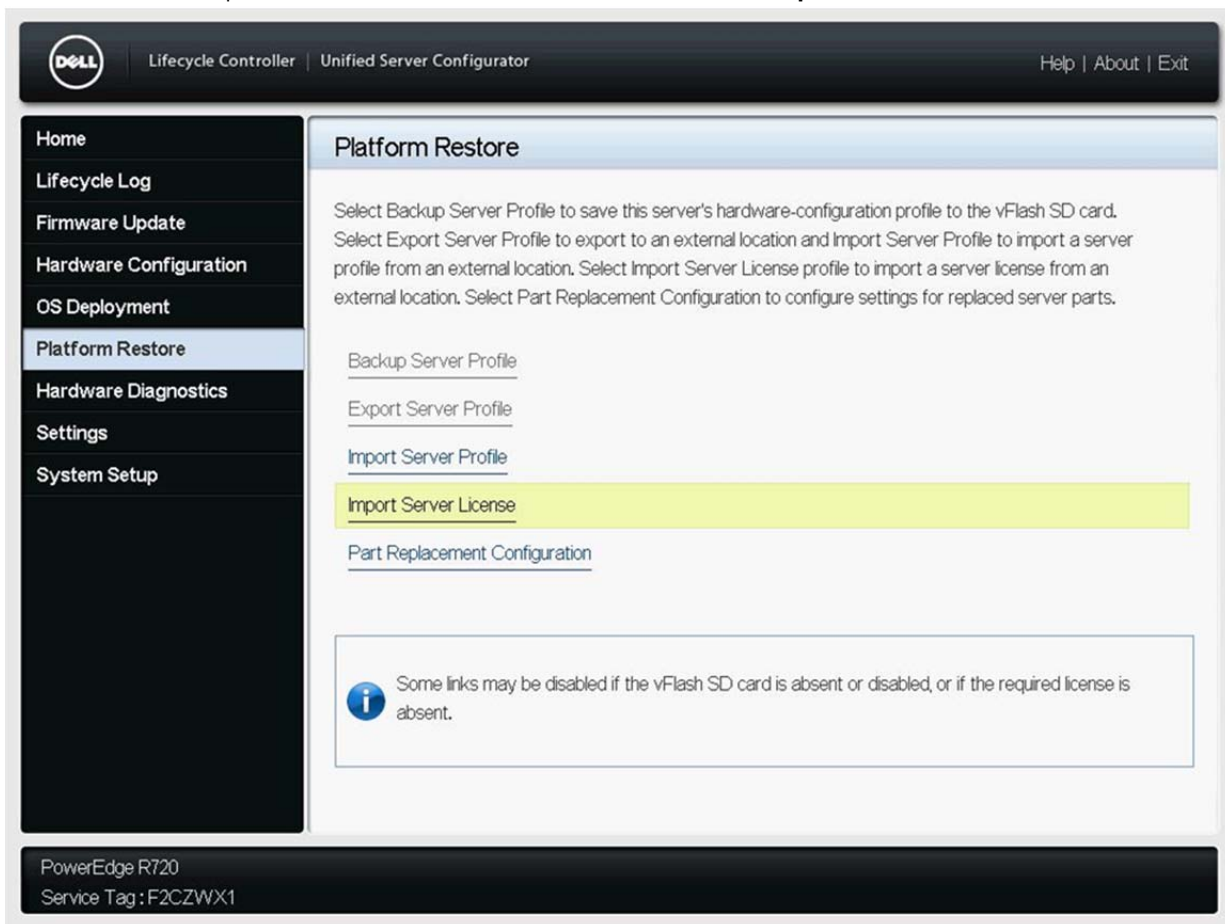
A message is displayed to indicate that the file is successfully imported. A sample screen shot is given here.

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**.



6. Select the **CIFS** option.

The screenshot shows the Dell Lifecycle Controller Unified Server Configurator interface. At the top, there is a header bar with the Dell logo, the text "Lifecycle Controller | Unified Server Configurator", and links for "Help | About | Exit". Below the header, the main window is titled "Platform Restore" and contains a section for "Import Server License".

Inside the "Import Server License" section, there is a prompt: "Select the device and location to import a license." Below this, there are two main options: "USB Drive" and "Network Share". The "Network Share" option is selected, and within it, the "CIFS" radio button is chosen over the "NFS" option.

For the "USB Drive" option, there are fields for "Select Device" (with a dropdown menu currently showing "Insert Media") and "File Path".

For the "Network Share" option, there are fields for "Share Name", "Domain and User Name", "Password", and "File Path". Below these fields is a link that says "Test Network Connection".

At the bottom of the window, there is a footer bar containing the system information "PowerEdge R720" and "Service Tag : F2CZWY1", along with three buttons: "Cancel", "Back", and "Finish".

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

The screenshot shows the 'Platform Restore' window in the Dell Lifecycle Controller. The 'Import Server License' section is active, with the instruction 'Select the device and location to import a license.' Below this, there are two main options: 'USB Drive' and 'Network Share'. The 'Network Share' option is selected with a radio button. Under 'Network Share', there are sub-options for 'CIFS' (selected) and 'NFS'. Fields for 'Share Name' (\\10.94.197.35\share), 'Domain and User Name' (joe), 'Password' (masked with ***), and 'File Path' (R720-Arev.xml) are present. A 'Test Network Connection' link is also visible. At the bottom, the system information 'PowerEdge R720' and 'Service Tag : F2CZWX1' is displayed, 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: \\10.94.197.35\share

Domain and User Name: joe

Password: ***

File Path: R720-Arev.xml

[Test Network Connection](#)

PowerEdge R720
Service Tag : F2CZWX1

Cancel Back 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.

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 _____ R720-Arev.xml

[Test Network Connection](#)

Information

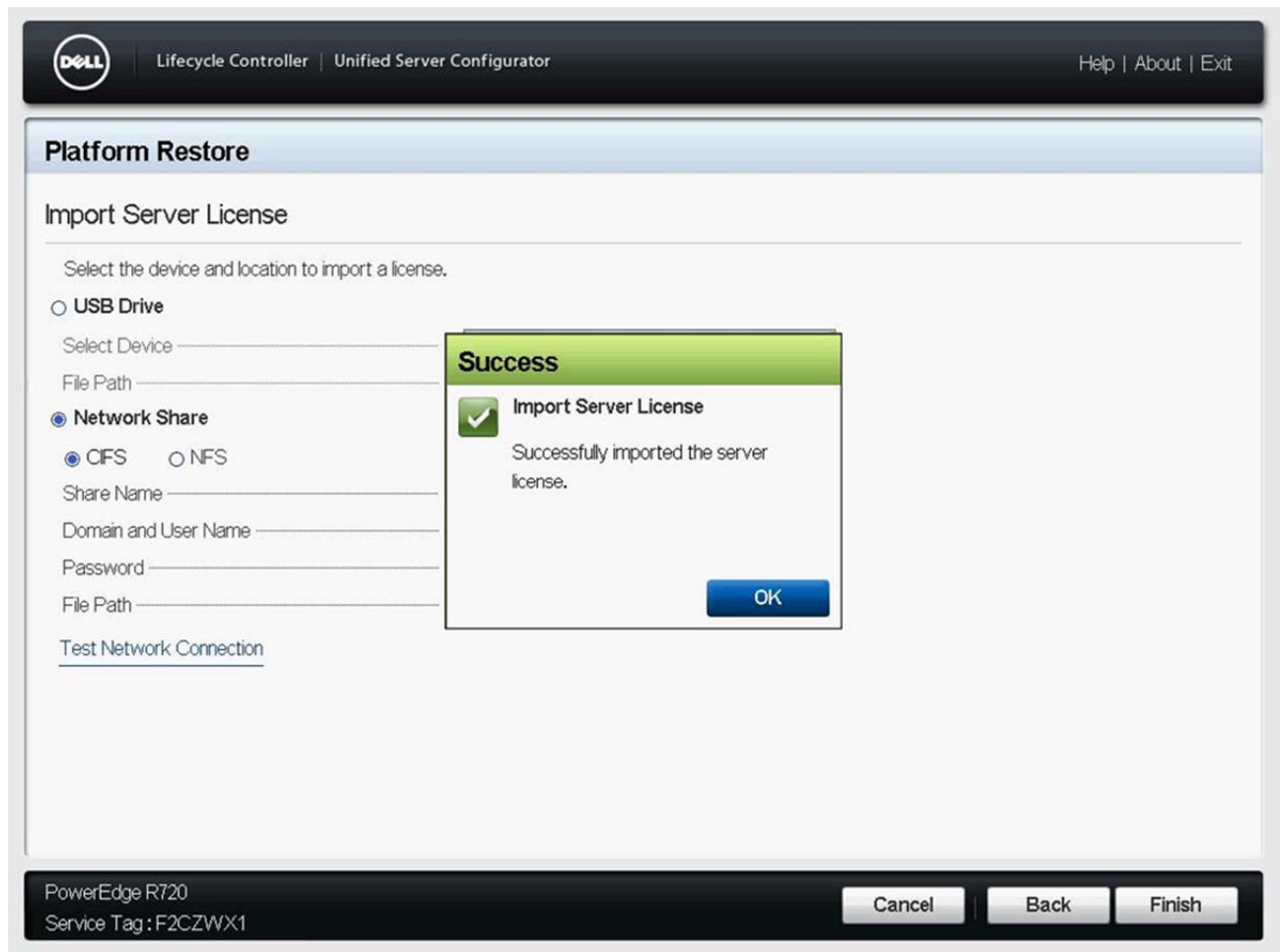
Import Server License

Please wait. This operation may take a few minutes.

PowerEdge R720
Service Tag: F2CZWX1

Cancel Back Finish

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

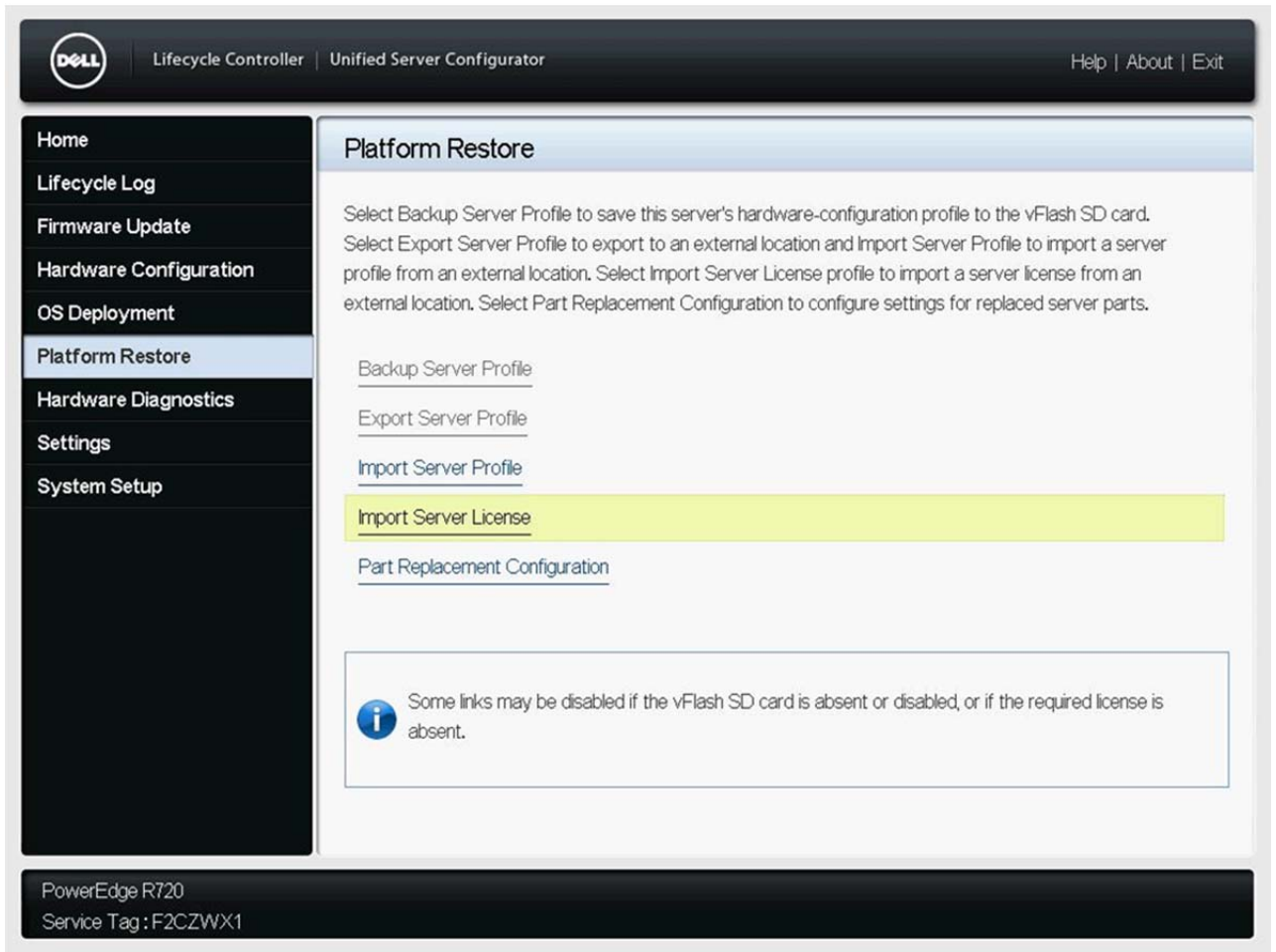


2.4 Using Network Share NFS

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



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



10. Select the **NFS** option.

The screenshot shows 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. On the right, there are links for "Help | About | Exit". The main title is "Platform Restore". Below it, the section is "Import Server License". A instruction says "Select the device and location to import a license." There are two main options: "USB Drive" and "Network Share". The "Network Share" option is selected with a radio button. Under "Network Share", there are two sub-options: "CIFS" and "NFS". The "NFS" option is selected with a radio button. Below these are several input fields: "Select Device" (with a dropdown menu showing "Insert Media"), "File Path" (with a text box), "Share Name" (with a text box), "Domain and User Name" (with a text box), "Password" (with a text box), and "File Path" (with a text box). There is also a link "Test Network Connection". At the bottom, there is a black bar with "PowerEdge R720" and "Service Tag : F2CZWX1" on the left, and three buttons: "Cancel", "Back", and "Finish" on the right.

Platform Restore

Import Server License

Select the device and location to import a license.

☐ **USB Drive**

Select Device

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

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

The screenshot shows 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. On the right, there are links for 'Help | About | Exit'. The main title is 'Platform Restore'. Below it, the section is 'Import Server License'. A instruction says 'Select the device and location to import a license.' There are two radio buttons: 'USB Drive' and 'Network Share'. The 'Network Share' option is selected. Under 'Network Share', there are two sub-options: 'CIFS' and 'NFS', with 'NFS' selected. The fields are as follows: 'Select Device' is a dropdown menu showing 'Insert Media'; 'File Path' is an empty text box; 'Share Name' is a text box containing '\\10.94.136.140\pradeep'; 'Domain and User Name' is an empty text box; 'Password' is an empty text box; and 'File Path' is a text box containing 'R720-Arev.xml'. There is a link 'Test Network Connection' below the fields. At the bottom, there is a black bar with 'PowerEdge R720' and 'Service Tag : F2CZWX1' on the left, and three buttons 'Cancel', 'Back', and 'Finish' on the right.

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: \\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.

The screenshot shows the Dell Lifecycle Controller Unified Server Configurator interface. The top bar includes the Dell logo, the text 'Lifecycle Controller | Unified Server Configurator', and links for 'Help | About | Exit'. The main section is titled 'Platform Restore' and contains the 'Import Server License' sub-section. Below this, a message says 'Select the device and location to import a license.' There are two radio button options: 'USB Drive' and 'Network Share'. The 'Network Share' option is selected, and it has sub-options for 'CIFS' and 'NFS', with 'NFS' being selected. Below these are input fields for 'Select Device', 'File Path', 'Share Name', 'Domain and User Name', 'Password', and 'File Path'. The 'File Path' field contains the text 'R720-Arev.xml'. There is also a 'Test Network Connection' link. An 'Information' dialog box is overlaid on the form, with the title 'Import Server License' and the message 'Please wait. This operation may take a few minutes.' The dialog box has a progress bar that is partially filled. At the bottom of the window, there is a status bar showing 'PowerEdge R720' and 'Service Tag : F2CZWX1', and three buttons: 'Cancel', 'Back', and 'Finish'.

Platform Restore

Import Server License

Select the device and location to import a license.

☐ USB Drive

Select Device _____

File Path _____

☒ **Network Share**

☐ CIFS ☒ NFS

Share Name _____

Domain and User Name _____

Password _____

File Path _____ R720-Arev.xml

[Test Network Connection](#)

Information

Import Server License

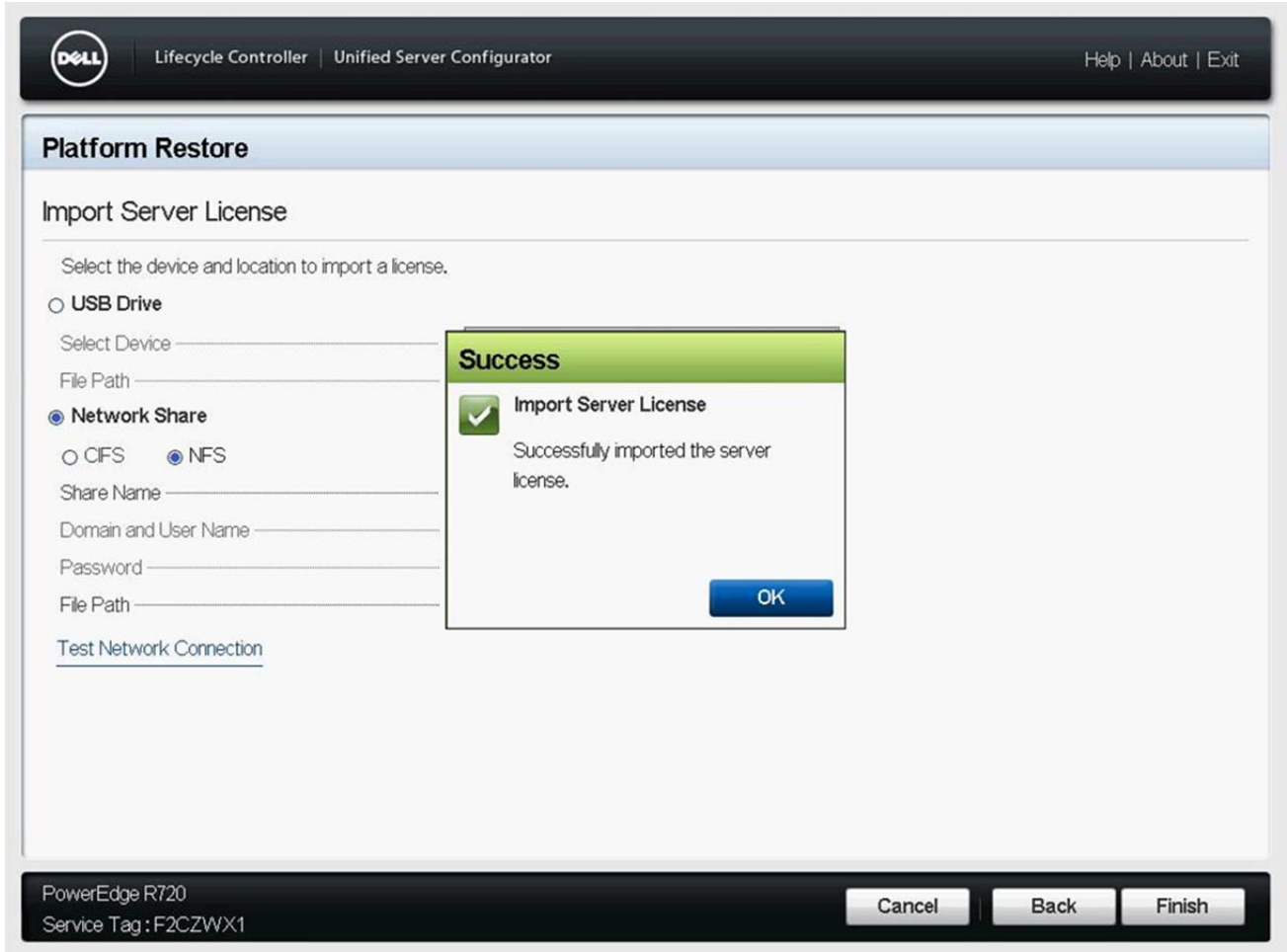
Please wait. This operation may take a few minutes.

PowerEdge R720
Service Tag : F2CZWX1

Cancel Back Finish



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

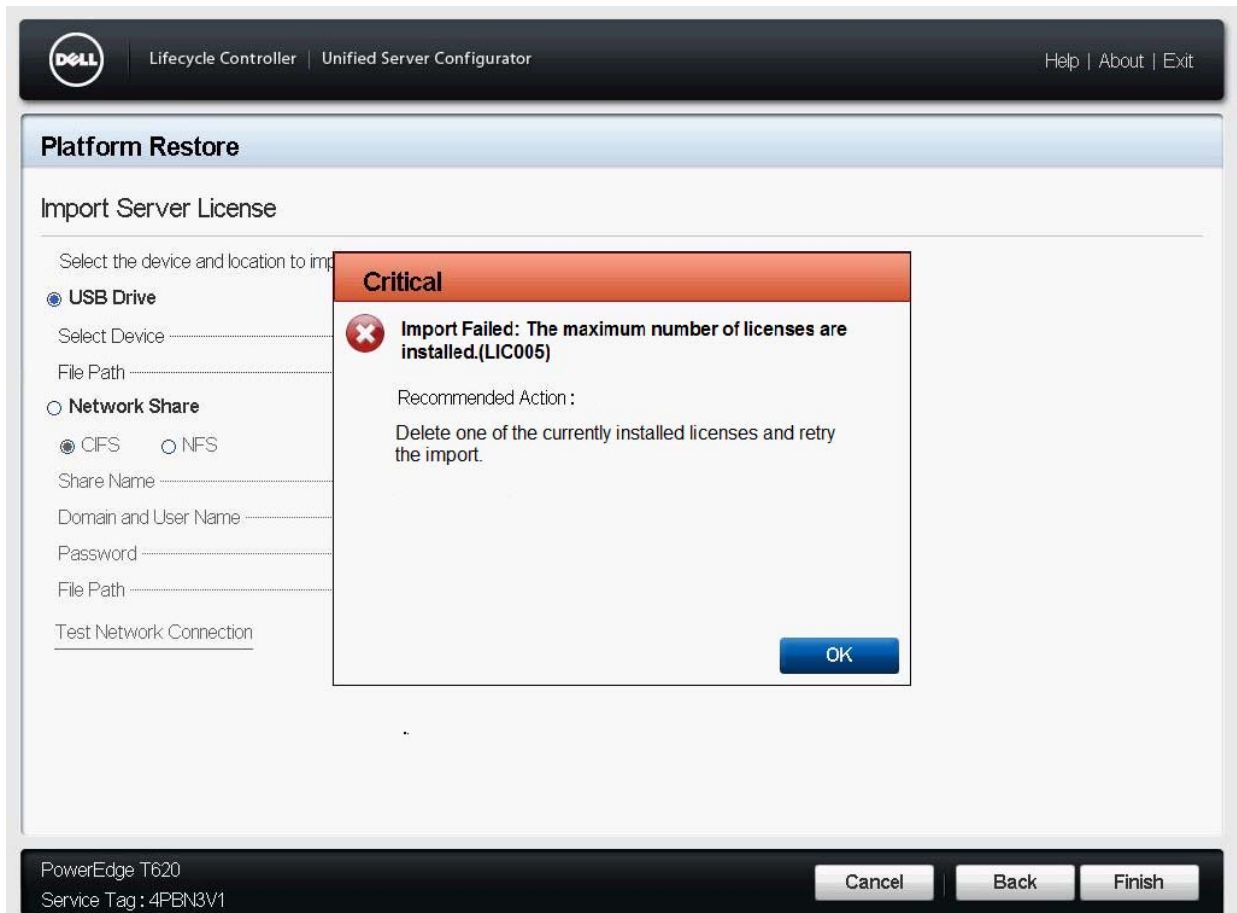


3 Error Scenarios and Resolutions

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.

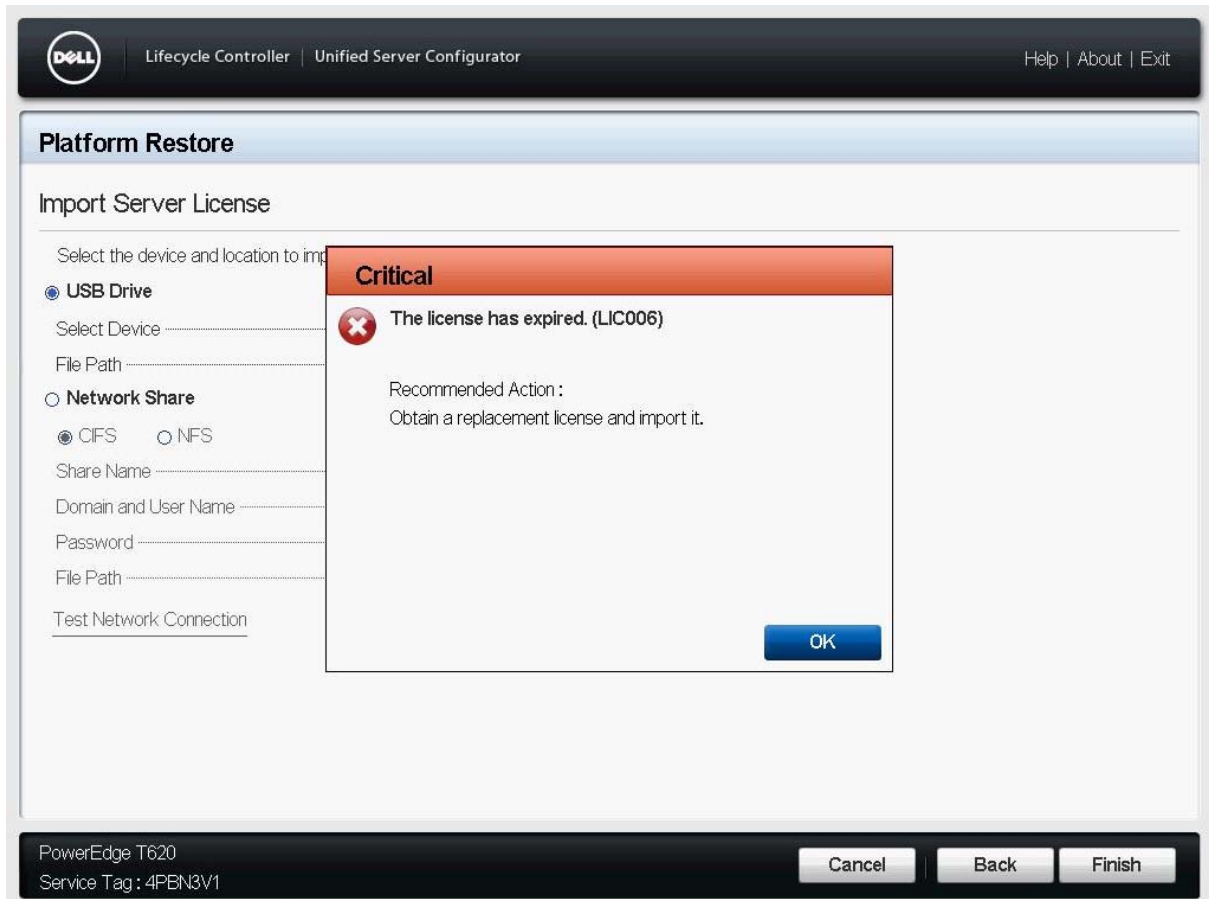
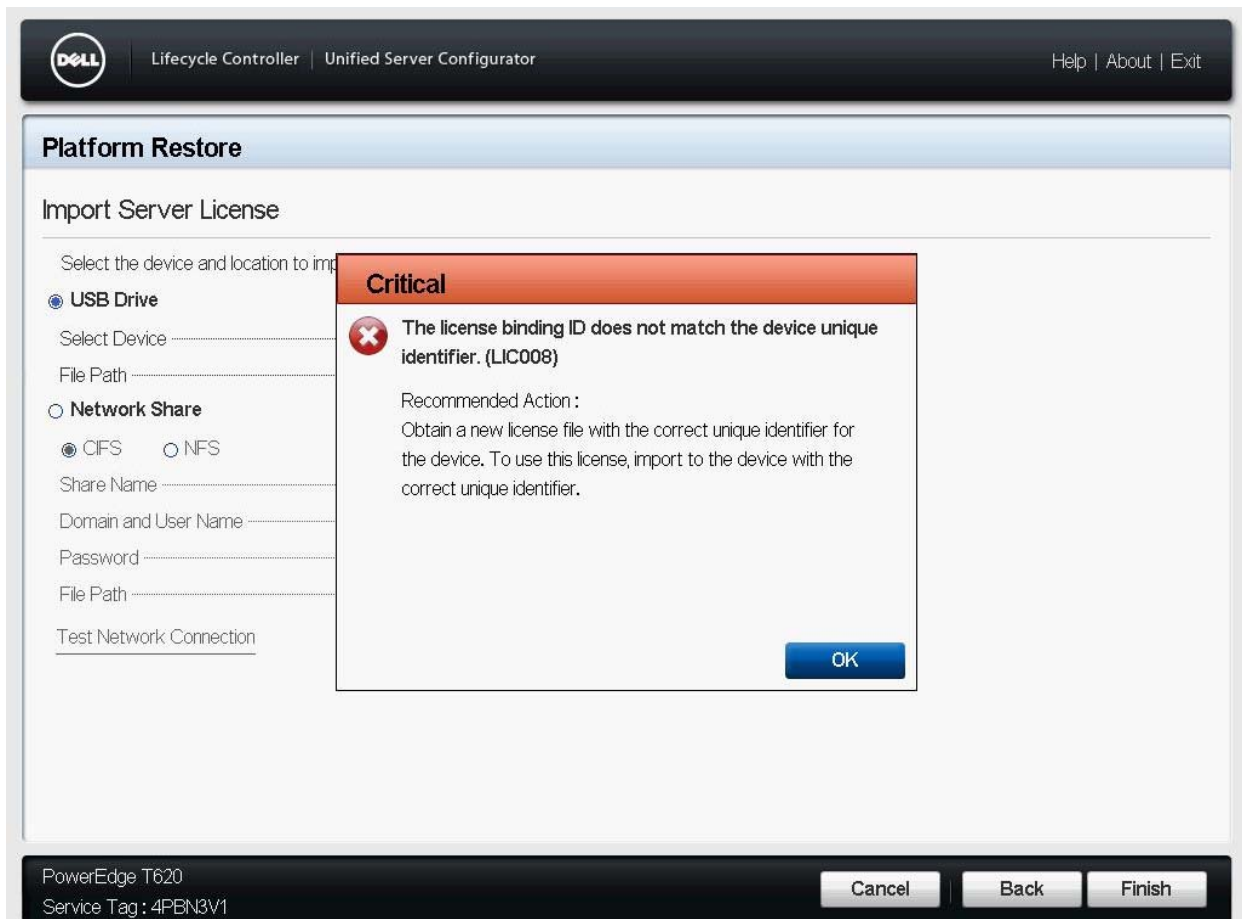


Figure 1

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 the 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

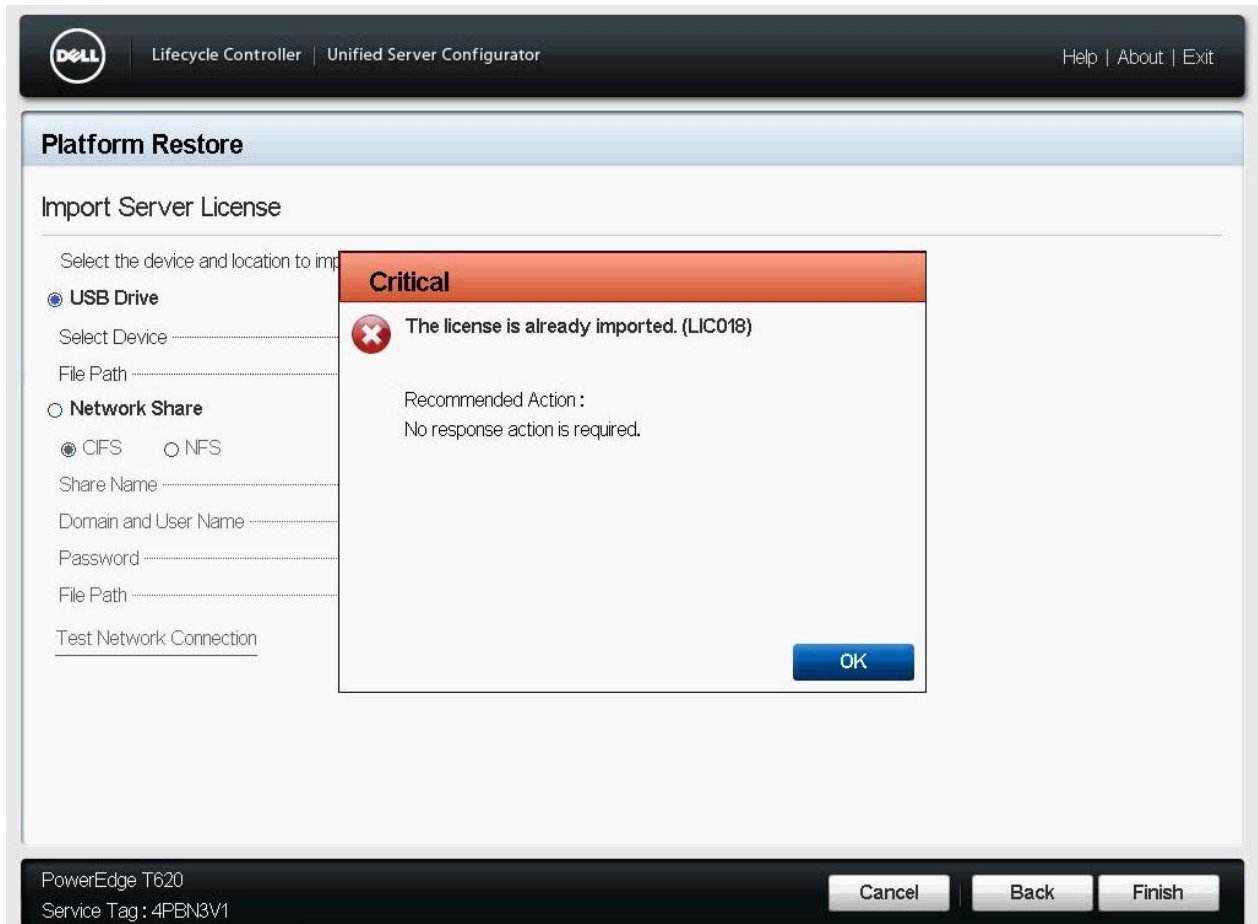
Finish



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.

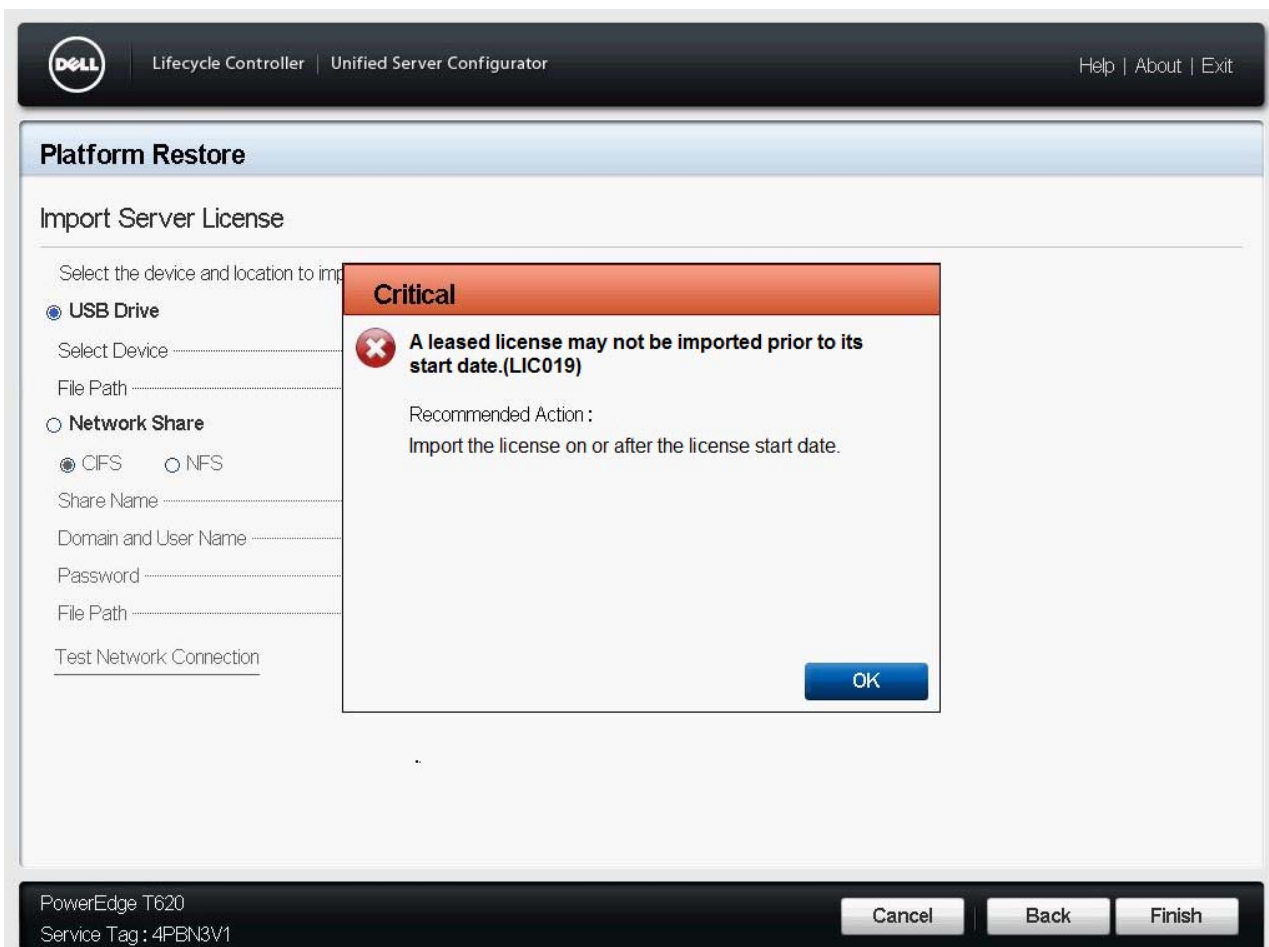
Solution: Do not reinstall the license on the server.



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.

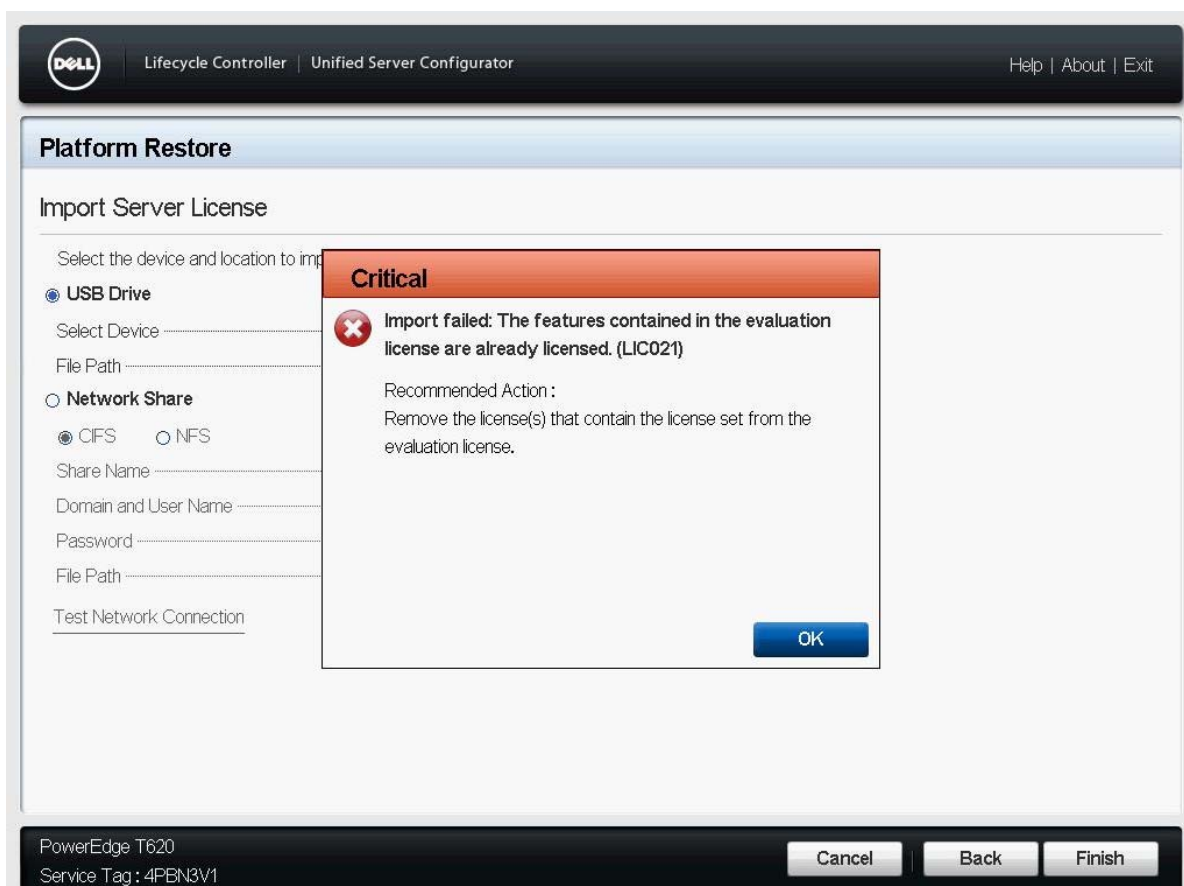


3.7 LIC021: Import failed: The features contained in the evaluation license are already licensed

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
• Tested and validated on all 12G servers, having LC2 1.3.0 and iDRAC7 1.50.50 versions.	• 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>

