Configure add-on features

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Configure add-on features

How add-on features work

Add-ons are features that are not included in the standard configuration of System Manager and might require a key to enable. An add-on feature can be either a single premium feature or a bundled feature pack.

The following steps provide an overview for enabling a premium feature or feature pack:

1. Obtain the following information:
   - Chassis serial number and the Feature Enable Identifier, which identify the storage array for the feature to be installed. These items are available in System Manager.
   - Feature Activation Code, which is available from the Support site when you purchase the feature.
2. Obtain the feature key by contacting your storage provider or by accessing the Premium Feature Activation site. Provide the chassis serial number, enable identifier, and feature code for activation.
3. Using System Manager, enable the premium feature or feature pack using the feature key file.

Add-on feature terminology

Learn how the add-on feature terms apply to your storage array.

Term	Description
Feature Enable Identifier	A Feature Enable Identifier is a unique string that identifies the specific storage array. This identifier ensures that when you obtain the premium feature, it is associated with only that particular storage array. This string is displayed under Add-Ons on the System page.
Feature key file	A feature key file is a file you receive for unlocking and enabling a premium feature or feature pack.
Feature pack	A feature pack is a bundle that changes storage array attributes (for example, changing the protocol from Fibre Channel to iSCSI). Feature packs require a special key to enable them.
Premium feature	A premium feature is an extra option that requires a key to enable it. It is not included in the standard configuration of System Manager.

Obtain a feature key file

To enable a premium feature or feature pack on your storage array, you must first obtain a feature key file. A key is associated with only one storage array.

About this task

This task describes how to gather required information for the feature, and then send a request for a feature

key file. Required information includes:

- Chassis serial number
- Feature Enable Identifier
- Feature Activation Code

Steps

1. In System Manager, locate and record the chassis serial number. You can view this serial number by hovering your mouse over the Support Center tile.
2. In System Manager, locate the Feature Enable Identifier. Go to **Settings › System**, and then scroll down to **Add-ons**. Look for the **Feature Enable Identifier**. Record the number for the Feature Enable Identifier.
3. Locate and record the code for feature activation. For features packs, this code is provided in the appropriate instructions for performing the conversion.

   NetApp instructions are available from NetApp E-Series Systems Documentation Center.

   For premium features, you can access the activation code from the Support site, as follows:

   a. Log in to NetApp Support.
   b. Go to **Software Licenses** for your product.
   c. Enter the serial number for the storage array chassis, and then click **Go**.
   d. Look for the Feature Activation Codes in the **License Key** column.
   e. Record the Feature Activation Code for the feature you want.
4. Request a feature key file by sending an email or a text document to your storage supplier with the following information: chassis serial number, the enable identifier, and the code for feature activation.

   You can also go to NetApp License Activation: Storage Array Premium Feature Activation and enter the required information to obtain the feature or feature pack. (The instructions on this site are for premium features, not feature packs.)

After you finish

When you have a feature key file, you can enable the premium feature or feature pack.

Enable a premium feature

A premium feature is an extra option that requires a key to enable.

Before you begin

- You have obtained a feature key. If necessary, contact technical support for a key.
- You have loaded the key file on the management client (the system with a browser for accessing System Manager).

About this task

This task describes how to use System Manager to enable a premium feature.

If you want to disable a premium feature, you must use the Disable Storage Array Feature command (`disable storageArray) (featurePack | feature=featureAttributeList`) in the Command Line Interface (CLI).

Steps

1. Select **Settings › System**.
2. Under **Add-ons**, select **Enable Premium Feature**.

   The Enable a Premium Feature dialog box opens.

3. Click **Browse**, and then select the key file.

   The file name is displayed in the dialog box.

4. Click **Enable**.

Enable feature pack

A feature pack is a bundle that changes storage array attributes (for example, changing the protocol from Fibre Channel to iSCSI). Feature packs require a special key for enablement.

Before you begin

- You have followed the appropriate instructions describing conversion and preparation for the new storage array attributes. For host protocol conversion instructions, refer to the hardware maintenance guide for your controller model.
- The storage array is offline, so no hosts or applications are accessing it.
- All data is backed up.
- You have obtained a feature pack file.

  The feature pack file is loaded on the management client (the system with a browser for accessing System Manager).

You must schedule a downtime maintenance window and stop all I/O operations between the host and controllers. In addition, be aware that you cannot access data on the storage array until you have successfully completed the conversion.

About this task

This task describes how to use System Manager to enable a feature pack. When you are done, you must restart the storage array.

Steps

1. Select **Settings › System**.
2. Under **Add-ons**, select **Change Feature Pack**.
3. Click **Browse**, and then select the key file.

   The file name is displayed in the dialog box.

4. Type `change` in the field.
5. Click **Change**.

   The feature pack migration begins and the controllers reboot. Unwritten cache data is deleted, which ensures no I/O activity. Both controllers automatically reboot for the new feature pack to take effect. The storage array returns to a responsive state after the reboot is complete.

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