

## **Complete system restoration - FAS2600**

**ONTAP Systems** 

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## Complete system restoration - FAS2600

## Step 1: Install licenses for the replacement node in ONTAP

You must install new licenses for the *replacement* node if the impaired node was using ONTAP features that require a standard (node-locked) license. For features with standard licenses, each node in the cluster should have its own key for the feature.

#### About this task

Until you install license keys, features requiring standard licenses continue to be available to the *replacement* node. However, if the impaired node was the only node in the cluster with a license for the feature, no configuration changes to the feature are allowed. Also, using unlicensed features on the node might put you out of compliance with your license agreement, so you should install the replacement license key or keys on the *replacement* node as soon as possible.

The licenses keys must be in the 28-character format.

You have a 90-day grace period in which to install the license keys. After the grace period, all old licenses are invalidated. After a valid license key is installed, you have 24 hours to install all of the keys before the grace period ends.

### **Steps**

1. If you need new license keys, obtain replacement license keys on the NetApp Support Site in the My Support section under Software licenses.



The new license keys that you require are automatically generated and sent to the email address on file. If you fail to receive the email with the license keys within 30 days, you should contact technical support.

- 2. Install each license key: system license add -license-code license-key, license-key...
- 3. Remove the old licenses, if desired:
  - a. Check for unused licenses: license clean-up -unused -simulate
  - b. If the list looks correct, remove the unused licenses: license clean-up -unused

# **Step 2: Restore Storage and Volume Encryption functionality**

After replacing the controller module or NVRAM module for a storage system that you previously configured to use Storage or Volume Encryption, you must perform additional steps to provide uninterrupted Encryption functionality. You can skip this task on storage systems that do not have Storage or Volume Encryption enabled.

### Step

1. Restore Storage or Volume Encryption functionality by using the appropriate procedure in the *NetApp Encryption Power Guide*.

ONTAP 9 NetApp Encryption Power Guide

Use one of the following procedures, depending on whether you are using onboard or external key management:

- "Restoring onboard key management encryption keys"
- "Restoring external key management encryption keys"

## Step 3: Verify LIFs and register the serial number

Before returning the *replacement* node to service, you should verify that the LIFs are on their home ports, and register the serial number of the *replacement* node if AutoSupport is enabled, and reset automatic giveback.

1. Verify that the logical interfaces are reporting to their home server and ports: network interface show -is-home false

If any LIFs are listed as false, revert them to their home ports: network interface revert

- 2. Register the system serial number with NetApp Support.
  - If AutoSupport is enabled, send an AutoSupport message to register the serial number.
  - If AutoSupport is not enabled, call NetApp Support to register the serial number.
- 3. If automatic giveback was disabled, reenable it: storage failover modify -node local -auto -giveback true

## Step 4: Return the failed part to NetApp

After you replace the part, you can return the failed part to NetApp, as described in the RMA instructions shipped with the kit. Contact technical support at NetApp Support, 888-463-8277 (North America), 00-800-44-638277 (Europe), or +800-800-80-800 (Asia/Pacific) if you need the RMA number or additional help with the replacement procedure.

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