

Replace the real-time clock battery - AFF A700s

ONTAP Systems

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Replace the real-time clock battery - AFF A700s

You replace the real-time clock (RTC) battery in the controller module so that your system's services and applications that depend on accurate time synchronization continue to function.

- You can use this procedure with all versions of ONTAP supported by your system
- All other components in the system must be functioning properly; if not, you must contact technical support.

Shut down the impaired node

To shut down the impaired node, you must determine the status of the node and, if necessary, take over the node so that the healthy node continues to serve data from the impaired node storage.

About this task

If you have a cluster with more than two nodes, it must be in quorum. If the cluster is not in quorum or a healthy node shows false for eligibility and health, you must correct the issue before shutting down the impaired node.

ONTAP 9 System Administration Reference

Steps

1. If AutoSupport is enabled, suppress automatic case creation by invoking an AutoSupport message: system node autosupport invoke -node * -type all -message MAINT=number of hours downh

The following AutoSupport message suppresses automatic case creation for two hours: cluster1:*> system node autosupport invoke -node * -type all -message MAINT=2h

- 2. Disable automatic giveback from the console of the healthy node: storage failover modify -node local -auto-giveback false
- 3. Take the impaired node to the LOADER prompt:

If the impaired node is displaying	Then
The LOADER prompt	Go to the next step.
Waiting for giveback	Press Ctrl-C, and then respond y when prompted.
System prompt or password prompt (enter system password)	Take over or halt the impaired node: • For an HA pair, take over the impaired node from the healthy node: storage failover takeover -ofnode impaired_node_name When the impaired node shows Waiting for giveback, press Ctrl-C, and then respond y.

Remove the controller module

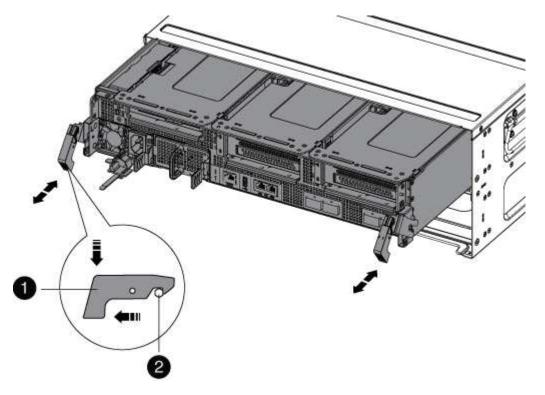
You must remove the controller module from the chassis when you replace the controller module or replace a component inside the controller module.

- 1. If you are not already grounded, properly ground yourself.
- 2. Loosen the hook and loop strap binding the cables to the cable management device, and then unplug the system cables and SFPs (if needed) from the controller module, keeping track of where the cables were connected.

Leave the cables in the cable management device so that when you reinstall the cable management device, the cables are organized.

- 3. Unplug the controller module power supply from the source, and then unplug the cable from the power supply.
- 4. Remove the cable management device from the controller module and set it aside.
- 5. Press down on both of the locking latches, and then rotate both latches downward at the same time.

The controller module moves slightly out of the chassis.

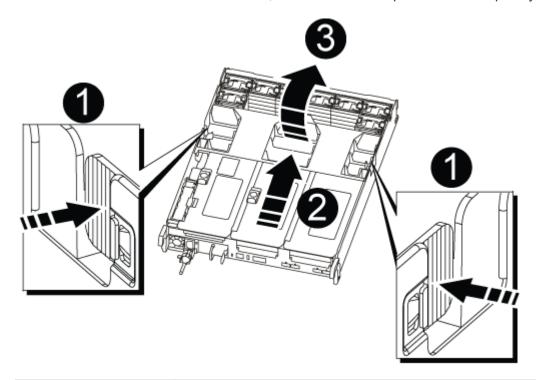


0	Locking latch
2	Locking pin

6. Slide the controller module out of the chassis.

Make sure that you support the bottom of the controller module as you slide it out of the chassis.

- 7. Place the controller module on a stable, flat surface, and then open the air duct:
 - a. Press in the locking tabs on the sides of the air duct toward the middle of the controller module.
 - b. Slide the air duct toward the fan modules, and then rotate it upward to its completely open position.

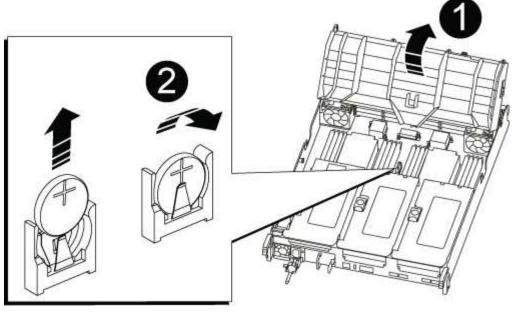


0	Air duct locking tabs
2	Risers
3	Air duct

Replace the RTC battery

To replace the RTC battery, locate it inside the controller and follow the specific sequence of steps.

- 1. If you are not already grounded, properly ground yourself.
- 2. Locate the RTC battery.



0	Air duct
2	RTC battery and housing

Gently push the battery away from the holder, rotate it away from the holder, and then lift it out of the holder.



Note the polarity of the battery as you remove it from the holder. The battery is marked with a plus sign and must be positioned in the holder correctly. A plus sign near the holder tells you how the battery should be positioned.

- 4. Remove the replacement battery from the antistatic shipping bag.
- 5. Note the polarity of the RTC battery, and then insert it into the holder by tilting the battery at an angle and pushing down.
- 6. Visually inspect the battery to make sure that it is completely installed into the holder and that the polarity is correct.

Reinstall the controller module and setting time/date after RTC battery replacement

After you replace a component within the controller module, you must reinstall the controller module in the system chassis, reset the time and date on the controller, and then boot it.

- 1. If you have not already done so, close the air duct or controller module cover.
- 2. Align the end of the controller module with the opening in the chassis, and then gently push the controller module halfway into the system.

Do not completely insert the controller module in the chassis until instructed to do so.

3. Recable the system, as needed.

If you removed the media converters (QSFPs or SFPs), remember to reinstall them if you are using fiber optic cables.

- 4. If the power supplies were unplugged, plug them back in and reinstall the power cable retainers.
- 5. Complete the reinstallation of the controller module:
 - a. Firmly push the controller module into the chassis until it meets the midplane and is fully seated.

The locking latches rise when the controller module is fully seated.



Do not use excessive force when sliding the controller module into the chassis to avoid damaging the connectors.

The controller module begins to boot as soon as it is fully seated in the chassis.

- b. Rotate the locking latches upward, tilting them so that they clear the locking pins, and then lower them into the locked position.
- c. If you have not already done so, reinstall the cable management device.
- d. Halt the controller at the LOADER prompt.
- 6. Reset the time and date on the controller:
 - a. Check the date and time on the healthy node with the show date command.
 - b. At the LOADER prompt on the target node, check the time and date.
 - c. If necessary, modify the date with the set date mm/dd/yyyy command.
 - d. If necessary, set the time, in GMT, using the set time hh:mm:ss command.
 - e. Confirm the date and time on the target node.
- 7. At the LOADER prompt, enter bye to reinitialize the PCIe cards and other components and let the node reboot.
- 8. Return the node to normal operation by giving back its storage: storage failover giveback -ofnode impaired_node_name
- 9. If automatic giveback was disabled, reenable it: storage failover modify -node local -auto -giveback true

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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