



## High Availability

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### Information About High Availability

High availability (HA) in controllers allows you to reduce the downtime of the wireless networks that occurs due to the failover of controllers.

A 1:1 (Active:Standby-Hot) stateful switchover of access points and clients is supported (HA SSO). In an HA architecture, one controller is configured as the primary controller and another controller as the secondary controller.

After you enable HA, the primary and secondary controllers are rebooted. During the boot process, the role of the primary controller is negotiated as active and the role of the secondary controller as standby-hot. After a switchover, the secondary controller becomes the active controller and the primary controller becomes the standby-hot controller. After subsequent switchovers, the roles are interchanged between the primary and the secondary controllers. The reason or cause for most switchover events is due to a manual trigger, a controller and/or a network failure.

During an HA SSO failover event, all of the AP CAPWAP sessions and client sessions in RUN state on the controller are statefully switched over to the standby controller without interruption, except PMIPv6 clients, which will need to reconnect and authenticate to the controller following an HA SSO switchover. For additional client SSO behaviors and limitations, see the "Client SSO" section in the *High Availability (SSO) Deployment Guide* at:

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-1/HA\\_SSO\\_DG/High\\_Availability\\_DG.html#pgfId-53637](https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-1/HA_SSO_DG/High_Availability_DG.html#pgfId-53637)

The standby-hot controller continuously monitors the health of the active controller through its dedicated redundancy port. Both the controllers share the same configurations, including the IP address of the management interface.

Before you enable HA, ensure that both the controllers can successfully communicate with one another through their dedicated redundancy port, either through a direct cable connection or through Layer 2. For more details, see the "Redundancy Port Connectivity" section in the *High Availability (SSO) Deployment Guide*:

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-1/HA\\_SSO\\_DG/High\\_Availability\\_DG.html#pgfld-83028](https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-1/HA_SSO_DG/High_Availability_DG.html#pgfld-83028)

ACL and NAT IP configurations are synchronized to the HA standby controller when these parameters are configured before HA pair-up. If the NAT IP is set on the management interface, the access point sets the AP manager IP address as the NAT IP address.

The following are some guidelines for high availability:

- We recommend that you do not pair two controllers of different hardware models. If they are paired, the higher controller model becomes the active controller and the other controller goes into maintenance mode.
- We recommend that you do not pair two controllers on different controller software releases. If they are paired, the controller with the lower redundancy management address becomes the active controller and the other controller goes into maintenance mode.
- All download file types, such as image, configuration, web-authentication bundle, and signature files—are downloaded on the active controller first and then pushed to the standby-hot controller.
- Certificates should be downloaded separately on each controller before they are paired.
- You can upload file types such as configuration files, event logs, crash files, and so on, from the standby-hot controller using the GUI or CLI of the active controller. You can also specify a suffix to the filename to identify the uploaded file.
- To perform a peer upload, use the service port. In a management network, you can also use the redundancy management interface (RMI) that is mapped to the redundancy port or RMI VLAN, or both, where the RMI is the same as the management VLAN. Note that the RMI and the redundancy port should be in two separate Layer2 VLANs, which is a mandatory configuration.
- If the controllers cannot reach each other through the redundant port and the RMI, the primary controller becomes active and the standby-hot controller goes into the maintenance mode.



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**Note** To achieve HA between two Cisco Wireless Services Module 2 (WiSM2) platforms, the controllers should be deployed on a single chassis, or on multiple chassis using a virtual switching system (VSS) and extending a redundancy VLAN between the multiple chassis.

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**Note** A redundancy VLAN should be a nonroutable VLAN in which a Layer 3 interface should not be created for the VLAN, and the interface should be allowed on the trunk port to extend an HA setup between multiple chassis. Redundancy VLAN should be created like any other data VLAN on Cisco IOS-based switching software. A redundancy VLAN is connected to the redundant port on Cisco WiSM2 through the backplane. It is not necessary to configure the IP address for the redundancy VLAN because the IP address is automatically generated. Also, ensure that the redundancy VLAN is not the same as the management VLAN.

For more information, see the "*High Availability Connectivity Using Redundant VLAN on WiSM-2 WLC*" section in the in the *High Availability (SSO) Deployment Guide* at:

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-1/HA\\_SSO\\_DG/High\\_Availability\\_DG.html#pgfid-43232](https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-1/HA_SSO_DG/High_Availability_DG.html#pgfid-43232)

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**Note** When the RMIs for two controllers that are a pair, and that are mapped to same VLAN and connected to same Layer3 switch stop working, the standby controller is restarted.

The "mobilityHaMac is out of range" XML message is seen during the active/standby second switchover in an HA setup. This occurs if mobility HA MAC field is more than 128.

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- When HA is enabled, the standby controller always uses the Remote Method Invocation (RMI), and all the other interfaces—dynamic and management, are invalid.



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**Note** The RMI is meant to be used only for active and standby communications and not for any other purpose.

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- When HA is enabled, ensure that you do not use the backup image. If this image is used, the HA feature might not work as expected:
  - The service port and route information that is configured is lost after you enable SSO. You must configure the service port and route information again after you enable SSO. You can configure the service port and route information for the standby-hot controller using the **peer-service-port** and **peer-route** commands.
  - For Cisco WiSM2, service port reconfigurations are required after you enable redundancy. Otherwise, Cisco WiSM2 might not be able to communicate with the supervisor. We recommend that you enable DHCP on the service port before you enable redundancy.
  - We recommend that you do not use the **reset** command on the standby-hot controller directly. If you use this, unsaved configurations will be lost.
- We recommend that you enable link aggregation configuration on the controllers before you enable the port channel in the infrastructure switches.

- All the configurations that require reboot of the active controller results in the reboot of the standby-hot controller.
- The Rogue AP Ignore list is not synchronized from the active controller to the standby-hot controller. The list is relearned through SNMP messages from Cisco Prime Infrastructure after the standby-hot controller becomes active.
- Client SSO related guidelines:
  - The standby controller maintains two client lists: one is a list of clients in the Run state and the other is a list of transient clients in all the other states.
  - Only the clients that are in the Run state are maintained during failover. Clients that are in transition, such as roaming, 802.1X key regeneration, web authentication logout, and so on, are dissociated.
  - As with AP SSO, Client SSO is supported only on WLANs. The controllers must be in the same subnet. Layer3 connection is not supported.
- In Release 7.3.x, AP SSO is supported, but client SSO is not supported, which means that after an HA setup that uses Release 7.3.x encounters a switchover, all the clients associated with the controller are deauthenticated and forced to reassociate.
- You must manually configure the mobility MAC address on the then active controller post switchover, when a peer controller has a controller software release that is prior to Release 7.2.

### Redundancy Management Interface

The active and standby-hot controllers use the RMI to check the health of the peer controller and the default gateway of the management interface through network infrastructure.

The RMI is also used to send notifications from the active controller to the standby-hot controller if a failure or manual reset occurs. The standby-hot controller uses the RMI to communicate to the syslog, NTP/SNTP server, FTP, and TFTP server.

It is mandatory to configure the IP addresses of the Redundancy Management Interface and the Management Interface in the same subnet on both the primary and secondary controllers.

### Redundancy Port

The redundancy port is used for configuration, operational data synchronization, and role negotiation between the primary and secondary controllers.

The redundancy port checks for peer reachability by sending UDP keepalive messages every 100 milliseconds (default frequency) from the standby-hot controller to the active controller. If a failure of the active controller occurs, the redundancy port is used to notify the standby-hot controller.

If an NTP/SNTP server is not configured, the redundancy port performs a time synchronization from the active controller to the standby-hot controller.

In Cisco WiSM2, the redundancy VLAN must be configured on the Cisco Catalyst 6000 Supervisor Engine because there is no physical redundancy port available on Cisco WiSM2.

The redundancy port and the redundancy VLAN in Cisco WiSM2 are assigned an automatically generated IP address in which the last two octets are obtained from the last two octets of the RMI. The first two octets are always 169.254. For example, if the IP address of the RMI is 209.165.200.225, the IP address of the redundancy port is 169.254.200.225.

The redundancy ports can connect over an L2 switch. Ensure that the redundancy port round-trip time is less than 80 milliseconds if the keepalive timer is set to default, that is, 100 milliseconds, or 80 percent of the keepalive timer if you have configured the keepalive timer in the range of 100 milliseconds to 400 milliseconds. The failure detection time is calculated, for example, if the keepalive timer is set to 100 milliseconds, as follows:  $3 * 100 = 300 + 60 = 360 + \text{jitter (12 milliseconds)} = \sim 400$  milliseconds. Also, ensure that the bandwidth between redundancy ports is 60 Mbps or higher. Ensure that the maximum transmission unit (MTU) is 1500 bytes or higher.

#### Related Documentation

- *High Availability (SSO) Deployment Guide*—[https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-1/HA\\_SSO\\_DG/High\\_Availability\\_DG.html](https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-1/HA_SSO_DG/High_Availability_DG.html)
- *N+1 High Availability Deployment Guide*—[https://www.cisco.com/c/en/us/td/docs/wireless/technology/hi\\_avail/N1\\_High\\_Availability\\_Deployment\\_Guide.html](https://www.cisco.com/c/en/us/td/docs/wireless/technology/hi_avail/N1_High_Availability_Deployment_Guide.html)

## Restrictions for High Availability

- We recommend that you do not disable LAG physical ports when HA SSO is enabled.
- HA sync for Fabric-related statistics is not supported.
- In an HA environment using FlexConnect locally switched clients, the client information might not show the username. To get details about the client, you must use the MAC address of the client. This restriction does not apply to FlexConnect centrally switched clients or central (local) mode clients.
- It is not possible to access the Cisco WiSM2 GUI through the service interface when you have enabled HA. The workaround is to create a service port interface again after HA is established.
- In an HA environment, an upgrade from an LDPE image to a non-LDPE image is not supported.
- It is not possible to pair two primary controllers or two secondary controllers.
- Standby controllers are unavailable on the APs connected switch port.
- An HA-SKU controller with an evaluation license cannot become a standby controller. However, an HA-SKU controller with zero license can become a standby controller.
- In an HA setup, CPU-ACL cannot be applied on the service port. However, if you want to block the service port using CPU-ACL, you can use the command **config acl high-priority** to configure as required.
- Service VLAN configuration is lost when moving from HA mode to non-HA mode and conversely. You should then configure the service IP address manually again.
- The following scenario is not supported: The primary controller has the management address and the redundancy management address in the same VLAN, and the secondary controller has the management address in the same VLAN as the primary one, and the redundancy management address in a different VLAN.
- The following is a list of some software upgrade scenarios:
  - A software upgrade on the active controller ensures the upgrade of the standby-hot controller.
  - An in-service upgrade is not supported. Therefore, you should plan your network downtime before you upgrade the controllers in an HA environment.

- Rebooting the active controller after a software upgrade also reboots the standby-hot controller.
  - We recommend that both active and standby-hot controllers have the same software image in the backup before running the **config boot backup** command. If both active and standby-hot controllers have different software images in the backup, and if you run the **config boot backup** command in the active controller, both the controllers reboot with their respective backup images breaking the HA pair due to a software mismatch.
  - A schedule reset applies to both the controllers in an HA environment. The peer controller reboots a minute before the scheduled time expires on the active controller.
  - You can reboot the standby-hot controller from the active controller by entering the **reset peer-system** command if the scheduled reset is not planned. If you reset only the standby-hot controller with this command, any unsaved configurations on the standby-hot controller are lost. Therefore, ensure that you save the configurations on the active controller before you reset the standby-hot controller.
  - If an SSO is triggered at the time of the image transfer, a preimage download is reinitiated.
  - Only **debug** and **show** commands are allowed on the standby-hot controller.
  - After a switchover, if a peer controller has a controller software release that is prior to Release 7.5, all the mobility clients are deauthenticated.
- It is not possible to access the standby-hot controller through the controller GUI, Cisco Prime Infrastructure, or Telnet. You can access the standby-hot controller only on its console.
  - In an HA setup, client Tx or Rx packets are not sent to the standby controller, hence, Remote Method Invocation (RMI) is not supported.
  - When a failover occurs, the standby controller must be in a standby-hot state and the redundant port in a terminal state in SSO for successful switchover to occur.
  - To enable or disable LAG, you must disable HA.




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**Note** If LAG is disabled and both primary and backup ports are connected to the management interface and if the primary port becomes nonoperational, a switchover might occur because the default gateway is not reachable and backup port failover might exceed 12 seconds.

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- Pairwise Master Key (PMK) cache synchronization is not supported on FlexConnect local-authenticated clients.
- Client SSO restrictions:
  - New mobility is not supported.
  - Posture and network admission control out-of-band are not supported because the client is not in the Run state.
  - The following are not synchronized between the active and standby controller:
    - Cisco Compatible Extension-based applications
    - Client statistics

- Proxy Mobile IPv6, Application Visibility and Control, session initiation protocol (SIP), and static call admission control (CAC) tree
  - Workgroup bridges and the clients that are associated with them
  - Passive clients
- Encryption is supported.
- Encryption is supported only if the active and standby controllers communicate through the Redundancy Management Interface on the management ports. Encryption is not supported if the redundancy port is used for communication between the active and standby controllers.
  - You cannot change the NAT address configuration of the management interface when the controllers are in redundancy mode. To enable NAT address configuration on the management interface, you must remove the redundancy configuration first, make the required changes on the primary controller, and then reenact the redundancy configuration on the same controller.
  - On Cisco WiSM2 and Cisco Catalyst 6500 Series Supervisor Engine 2T, if HA is enabled, post switchover, the APs might disconnect and reassociate with the WiSM2 controller. To prevent this from occurring, before you configure HA, we recommend that you verify, in the port channel, the details of both the active and standby Cisco WiSM2 controllers that the ports are balanced in the same order and the port channel hash distribution uses fixed algorithm. If they are not in order, you must change the port channel distribution to be fixed and reset Cisco WiSM2 from the Cisco Catalyst 6500 Series Supervisor Engine 2T.
  - After you enable SSO, you must access both the standby and active controller using:
    - The console connection
    - SSH facility on the service port
    - SSH facility on the redundant management interface



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**Note** While SSO is enabled, you cannot access both the standby and active controller either using the web UI/the telnet facility or using Cisco Prime Infrastructure/Prime NCS on the service port. This issue is addressed via [CSCuf71713](#) in Release 8.2 and later releases.

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- Synchronization of bulk configurations is supported only for the configurations that are stored in XMLs. Scheduled reboot is a configuration that is not stored in XMLs or Flash. Therefore, the scheduled reboot configuration is not included in the synchronization of bulk configurations.
- When a switchover occurs, the controller does not synchronize the information on DHCP dirty bit from the active to standby controller even when DHCP dirty bit is set on the active controller. After a switchover, the controller populates the DHCP dirty bit based on the client DHCP retries.
- If you are using Cisco WiSM2, we recommend that you use the following release versions of Cisco IOS on Cisco Catalyst 6500 Series Supervisor Engine 2T:
  - 15.1(02)SY
  - 15.1(01)ICB40.1

- 15.1(01)ICB29.36
- 15.1(01)ICB29.1
- 15.1(01)IC66.25
- 15.1(01)IB273.72

## Configuring High Availability (GUI)

### Before you begin

Ensure that the management interfaces of both controllers are in the same subnet. You can verify this on the GUI of both the controllers by choosing **Controllers > Interfaces** and viewing the IP addresses of the management interface.

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- Step 1** On the GUI of both the controllers, choose **Controller > Redundancy > Global Configuration**. The **Global Configuration** window is displayed.
- Step 2** Enter the addresses of the controllers in the **Redundant Management IP** field and the **Peer Redundant Management IP** field.
- Note** Ensure that the Redundant Management Interface IP address of one controller is the same as the Redundant Management Interface IP address of the peer controller.
- Step 3** From the **Redundant Unit** drop-down list, choose one of the controllers as primary and the other as secondary.
- Step 4** On the GUI of both the controllers, set the **SSO** to **Enabled** state.
- Note** After you enable an SSO, the service port peer IP address and the service port netmask appear on the configuration window. Note that the service port peer IP address and the netmask can be pushed to the peer only if the HA peer is available and operational. When you enable HA, you do not have to configure the service port peer IP address and the service port netmask parameters. You must configure the parameters only when the HA peer is available and operational. After you enable SSO, both the controllers are rebooted. During the reboot process, the controllers negotiate the redundancy role through the redundant port, based on the configuration. The primary controller becomes the active controller and the secondary controller becomes the standby controller.
- Step 5** [Optional] After the HA pair becomes available and operational, you can configure the peer service port IP address and the netmask after the service port is configured as static. If you enable DHCP on the service port, you do not have to configure these parameters on the **Global Configuration** window:
- **Service Port Peer IP**—IP address of the service port of the peer controller.
  - **Service Port Peer Netmask**—Netmask of the service port of the peer controller.
  - **Mobility MAC Address**—A common MAC address for both the active and standby controllers that is used in the mobility protocol. If an HA pair has to be added as a mobility member for a mobility group, the mobility MAC address (instead of the system MAC address of the active or standby controller) should be used. Normally, the mobility MAC address is chosen as the MAC address of the active controller and you do not have to manually configure this.



- **Keep Alive Timer**—The timer that controls how often the standby controller sends keepalive messages to the active controller. The valid range is between 100 to 1000 milliseconds.
- **Peer Search Timer**—The timer that controls how often the active controller sends peer search messages to the standby controller. The valid range is between 60 to 300 seconds.

**Note** After you enable the HA and pair the controllers, there is only one unified GUI to manage the HA pair through the management port. GUI access through the service port is not feasible for both the active and standby controllers. The standby controller can be managed only through the console port or the service port.

Only Telnet and SSH sessions are allowed through the service port of the active and standby controllers.

**Step 6** Click **Save Configuration**.

**Step 7** View the redundancy status of the HA pair by choosing **Monitor > Redundancy > Summary**.

The **Redundancy Summary** window is displayed.

**Step 8** (Optional) Perform these steps to configure the peer network route:

a) Choose **Controller > Redundancy > Peer Network Route**.

The **Network Routes Peer** window is displayed.

This window provides a summary of the existing service port network routes of the peer controller to network or element management systems on a different subnet. You can view the IP address, IP netmask, and gateway IP address.

- To create a new peer network route, click **New**.
- Enter the **IP address**, **IP netmask**, and the **Gateway IP address** of the route.
- Click **Apply**.

## Enabling High Availability (CLI)

**Step 1** Before you configure HA, it is mandatory to have the management interface of both the controllers in the same subnet. See the interface summary information by entering these commands on both the controllers:

**show interface summary**

**Step 2** HA is disabled by default. Before you enable HA, it is mandatory to configure the redundancy management IP address and the peer redundancy management IP address. Both the interfaces must be in the same subnet as the management interface. Enter the following commands to configure the redundancy management IP addresses:

- On WLC1: **config interface redundancy-management**  
*redundancy-mgmt-ip-addr-wlc1 peer-redundancy-management peer-redundancy-mgmt-ip-addr-wlc2*
- On WLC2: **config interface redundancy-management**  
*redundancy-mgmt-ip-addr-wlc2 peer-redundancy-management peer-redundancy-mgmt-ip-addr-wlc1*

**Step 3** Configure one controller as primary (by default, the WLC HA Unit ID is primary and should have a valid AP-BASE count license installed) and another controller as secondary (AP-BASE count from the primary controller is inherited by this unit) by entering these commands:

- WLC1 as primary—**config redundancy unit primary**
- WLC2 as secondary—**config redundancy unit secondary**

**Note** You are not required to configure the unit as secondary if it is a factory-ordered HA SKU that can be ordered from Release 7.3 onwards. A factory-ordered HA SKU is a default secondary unit and takes the role of the standby controller the first time it is paired with an active controller that has a valid AP count license.

To convert any existing controller as a standby controller, use the **config redundancy unit secondary** command on the CLI. This command works only if the controller that is intended to work as a standby also has some number of permanent license count. This condition is only valid for the Cisco 5508 controller, where a minimum of 50 AP permanent licenses are needed to be converted to standby. This restriction is not applicable to other controller models.

**Step 4** After you have configured the controllers with redundancy management and peer redundancy management IP addresses and have configured the redundant units, you must enable SSO. Ensure that the physical connections are operational between both the controllers (that is, both the controllers are connected back to back via the redundant port using an Ethernet cable) and the uplink is also connected to the infrastructure switch and the gateway is reachable from both the controllers before SSO is enabled.

After SSO is enabled, controllers are rebooted. During the boot process, the controllers negotiate the HA role as per the configuration via the redundant port. If the controllers cannot reach each other via the redundant port or via the redundant management interface, the controller that is configured as secondary might go into maintenance mode.

Enable SSO on both the controllers by entering these commands:

**config redundancy mode sso**

**Note** Enabling SSO initiates a controller reboot.

**Step 5** Enabling SSO reboots the controllers to negotiate the HA role as per the configuration performed. Once the role is determined, configuration is synchronized from the active controller to the standby controller via the redundant port. Initially, the controller configured as secondary reports XML mismatch and downloads the configuration from the active controller and reboot again. During the next reboot after determining the HA role, the controller validates the configuration again, reports no XML mismatch, and process further to establish itself as the standby controller.

**Note** Once SSO is enabled, you can access the standby controller through a console connection or through SSH on the service port and on the redundant management interface.

**Step 6** After SSO is enabled, controllers are rebooted, the XML configuration is synchronized, WLC1 transitions its state to active and WLC2 transitions its state to standby hot. From this point, GUI, Telnet, and SSH for WLC2 on the management interface does not work because all the configurations and management must be done from the active controller. If required, the standby controller (WLC2) can be managed only through the console or service port.

Once the peer controller transitions to the standby hot state, the *-Standby* keyword is automatically appended to the standby controller's prompt name.

**Step 7** To see the redundancy summary information for both the controllers, enter this command:

**show redundancy summary**

## Configuring High Availability Parameters

### Procedure

- Configure encryption of communication between controllers by entering this command:

```
config redundancy link-encryption {enable | disable}
```

- Configure the IP address and netmask of the peer service port of the standby controller by entering this command:

```
config redundancy interface address peer-service-port ip-address netmask
```

This command can be run only if the HA peer controller is available and operational.

- (Optional) Configure the route configurations of the standby controller by entering this command:

```
config redundancy peer-route {add network-ip-addr ip-mask | delete network-ip-addr}
```




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**Note** This command can be run only if the HA peer controller is available and operational.

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- (Optional) Configure a mobility MAC address by entering this command:

```
config redundancy mobilitymac mac-addr
```




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**Note**

- This command can be run only when SSO is disabled.
- If you upgrade from Release 8.0.110.0 to a later release, this command's setting is removed. You must manually reconfigure the mobility MAC address after the upgrade.

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- Configure a redundancy timer by entering this command:

```
config redundancy timer {keep-alive-timer time-in-milliseconds | peer-search-timer time-in-seconds}
```

- View the status of the redundancy by entering this command:

```
show redundancy {summary | detail}
```

- View information about the redundancy management interface by entering this command:

```
show interface detailed redundancy-management
```

- View information about the redundancy port by entering this command:

```
show interface detailed redundancy-port
```

- Reboot a peer controller by entering this command:

```
reset peer-system
```

- Start the upload of file types, such as configuration, event logs, crash files, and so on from the standby-hot controller by entering this command on the active controller:

```
transfer upload peer-start
```

# Replacing the Primary Controller in an HA Setup

In an HA setup, suppose the primary controller is not operational and you are required to replace it; the standby controller is operational with all the APs associated with it; and the new controller received return material authorization (RMA) that can be added with one of the failed controllers in the HA pair. Follow these steps to replace the primary controller in an active HA setup:

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- Step 1** Ensure that the new controller and the controller to be replaced are running the same version of the controller software.
- Step 2** Configure the new controller with the same subnet management IP addresses as the controller to be replaced.
- Step 3** Configure the new controller with HA configuration that includes redundancy management, IP address, and peer primary. Enable AP SSO.
- Step 4** When AP SSO is enabled, the controller reboots. While the controller reboots, the AP SSO discovers the currently active standby controller, synchronizes the configuration, and transitions to a standby-hot state.

**Note** You do not need to break the HA configuration on the current active controller or reboot the current active controller. The configuration will be synchronized with the current active controller.

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