

# Migrating to AP 822

Meru's new 802.11ac AP822 access point delivers gigabit Wi-Fi speeds and support for higher device densities.

## ABOUT THE MIGRATION PROCEDURE

The migration procedure involves the following steps:

Before migrating to the new AP 822, upgrade your controllers to System Director SD 6.1-0-3 or higher. Controllers that do not support System Director 6.1-0-3 (example, MC1000) must be replaced prior to installing the new AP822.

1. Keep the MAC addresses of your new and old APs handy.
2. Swap the MAC address entries of the old APs with new MAC address of AP 822.
3. Disconnect (physically remove) the old AP from the network and replace them with AP 822

<p><b>IMPORTANT</b></p>	<ul style="list-style-type: none"> <li>• If you are replacing old AP 320 and AP 433, all Vport configurations will be lost after migration. AP 822 supports only Native Cell and Virtual Cell.</li> <li>• AP832 and AP822 can coexist in the same virtual cell environment. However, ensure that both AP types are operating the same in the same band (2.4G and 5G) and have the same configuration for the following parameters:             <ul style="list-style-type: none"> <li>- Same Channel</li> <li>- Same Channel Width</li> <li>- Same RF Band Selection</li> <li>- Same MIMO mode (AP822 supports only 2x2)</li> <li>- Same ESS profile</li> </ul> </li> </ul>
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## ELIGIBLE MERU ACCESS POINTS

AP 150, AP 201, AP 208, AP 301, AP 302, AP 310, AP 311, AP 320, AP 320i, AP 332i, AP 332e, AP 433i, AP 433e, AP 433is, AP 1010i, AP 1010e, AP 1014i, AP 1020i, AP 1020e.

## CONTROLLER SUPPORT

MC1500, MC1550, MC3200, MC4200, MC5000, and MC6000

## MIGRATION PROCEDURE

The following AP 822 migration procedure uses the System Director CLI (command line interface).

1. For your old APs, use the `show ap` command to get the MAC address. The serial number in the command output represents the MAC address.

```
(controller)# show ap 1
AP Table AP
ID : 1
AP Name : AP-1
Serial Number : 00:0c:e6:0a:4e:14
```

2. In the config mode of the CLI, run the `swap ap <old-ap-mac-addr> <new-ap-mac-addr>` command to replace old MAC address with MAC address of the new AP 822.

```
controller (config)# ap swap 00:0c:e6:0a:4e:14 00:0c:e6:11:26:6f
```

3. Run the `show ap-swap` command to verify if the old MAC entries are replaced with the new MAC entries.

```
(controller)# show ap-swap
AP MAC Address      New AP MAC Address
00:0c:e6:0a:4e:14  00:0c:e6:11:bb:6f

AP Replacement Table(1 entry)
```

- You can now physically disconnect the APs (from network) whose MAC address has been swapped. Ensure that they appear Disconnect or offline when running the show ap command.
- Connect the new AP 822 (using appropriate replacing brackets) to your network. The new AP 822 will come online with the same AP ID as the old AP. Ensure that the new AP 822 appears enabled or online using the **show ap** command.

Before AP Swap	53 Desk 00:0c:e6:0d:f3:1b 00d:00h:01m:29s Enabled Online 6.1-1-1 L3 172.18.12.12 AP332i
After AP Swap	53 Desk 00:0c:e6:11:bb:6f 00d:00h:00m:58s Enabled Online 6.1-0-3 L3 172.18.12.13 AP822e

- Verify ESS-AP entries are in place using the **show ess-ap** command.
- The default channels 6 for Radio1 and 36 Radio2 will be selected after the swap. This is an expected behavior because of the radio differences with the 802.11ac support in AP822. Table 1 lists the noticeable changes.

show ess-ap output field	Before	After	Changes
AP ID	53	53	None
AP Name	Library-AP-1	Library-AP-1	None
AP Model	AP332i	AP822e	Reflects new AP model
Primary Channel	149	36	Manually change to 36, as shown in Figure 1.
Operating Channel	149	36	
Channel Width	40-Mhz-extension-channel-above	80-Mhz	Reflects the new channel width.

Table 1: Changes in Interface Level Settings

- Change the AP radio channels from the controller Web UI to match the previous deployment. Navigate to **Configuration > Radio** (under Wireless) and select an AP from the list. In the **Wireless Interface Configuration – Update** page, navigate to the **Wireless Interface** tab and select 36 in the Primary Channel drop down list. See Figure 1.

The screenshot shows the configuration page for AP ID 53. The Primary Channel dropdown menu is set to 36, indicated by a red arrow. Other fields include Interface Description (ieee80211-5-2), Administrative Status (Up), and lflIndex (2).

Figure 1: Change Primary Channel in WebUI

## BEST PRACTICE RECOMMENDATION

To ensure that you have minimal impact to the clients in your network, we recommend that you replace your APs in batches. For example, replace APs in one floor before moving to another, or replace APs in a particular section before moving to another.

## ANTENNAS

It is recommended that you use the paddle antennas with right orientation for maximum performance. You can re-purpose antennas from your old APs, but antennas of old APs can cause performance (throughput, interference, gain) issues when used with AP822. See the *Meru Networks AP822 Installation Guide* at Meru Support Portal for more information.

## SUPPORT

For detailed information on setting up the AP or configuring System Director, visit the Meru Support portal (<http://support.merunetworks.com>) and download any of the following guides.

- Meru Networks System Director Configuration Guide
- Meru Networks System Director Installation and Upgrade Guide
- Meru Networks System Director Command Reference Guide
- Meru Networks AP822 Installation Guide



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