



# Mobility Express Controller Commands

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## Application Visibility Commands

The following commands are used to configure Application Visibility on the Cisco Mobility Express controller.

Command	Description	Added in Release
<code>config flexconnect group default-flexgroup avc 1 visibility { enable   disable }</code>	To enable or disable Application Visibility in a WLAN	8.1.122.0
<code>show flexconnect group detail default-flexgroup</code>	To display the status of Application Visibility in each WLAN	8.1.122.0

Command	Description	Added in Release
show flexconnect avc statistics group default-flexgroup	To view Application Visibility statistics based on the flex group	8.1.122.0
show flexconnect avc statistics client <i>client_MAC</i>	To view Application Visibility statistics based on each client	8.1.122.0

## CleanAir Commands

Command	Description	Added in Release
config 802.11b cleanair enable <i>ap_MAC</i>	To enable CleanAir on an associated AP. Not applicable to 1850 and 1830 series APs.	8.1.122.0
show 802.11b cleanair device ap <i>ap_MAC</i>	To list all the interference devices connected to the AP.	8.1.122.0
show 802.11b cleanair device type jammer	To jam a specific interference device.	8.1.122.0

## CMX Cloud Commands

Command	Description	Added in Release
config cloud-services server id-token <i>CMX_token</i>	To specify a valid CMX server token.	8.3.102.0
config cloud-services server url <i>url</i>	To specify a valid CMX server URL.	8.3.102.0
config cloud-services cmx enable	To enable CMX analytics.	8.3.102.0
show cloud-services cmx summary	To view details of the configured CMX cloud services.	8.3.102.0

## Commands for Collecting Log, Core, and Crash Files

Command	Description	Added in Release
<ol style="list-style-type: none"> <li>1 transfer upload datatype support-bundle</li> <li>2 transfer upload mode { tftp   ftp }</li> <li>3 transfer upload username <i>username</i> password <i>password</i> This command is only for an FTP transfer.</li> <li>4 transfer upload filename <i>filename</i></li> <li>5 transfer upload path <i>file_path</i></li> <li>6 transfer upload serverip <i>server_ip_address</i></li> <li>7 transfer upload start</li> </ol>	<p>Use these commands in sequence to collect log, core and crash files.</p> <p>The files of the following data types are collected, bundled into a .TAR file, and the uploaded to a configured TFTP or FTP server:</p> <ul style="list-style-type: none"> <li>• run-config</li> <li>• systemtrace</li> <li>• traplog</li> <li>• debug-file</li> <li>• crashfile</li> <li>• coredump</li> <li>• ap-crash-data</li> </ul>	8.3.102.0
debug transfer all enable	To debug the code-flow, use this command before the <b>transfer upload start</b> command.	8.3.102.0
debug disable-all	To disable debugging of the code-flow.	8.3.102.0

## Commands for Software Download from Cisco.com

Step	Command	Description	Added in Release
1	transfer download ap-images mode cco	To set the mode of download of software images to be from Cisco.com.	8.3.102.0
2	transfer download ap-images cco-username <i>username</i> cco-password <i>password</i>	To specify the Cisco.com credentials to be used.	8.3.102.0

Step	Command	Description	Added in Release
3	transfer download ap-images version { suggested   latest }	To specify whether the suggested or the latest software version images are to be downloaded.	8.3.102.0
4	transfer download ap-images cco-auto-check { enable   disable }	To set the controller to automatically check for software image updates from Cisco.com.	8.3.102.0
5	transfer download start	To start the download.	8.3.102.0

## Controller Image Upgrade Commands

The following commands are used when performing a Mobility Express controller software image upgrade.

Command	Description	Added in Release
transfer download ap-images imagePath <i>image_path</i>	To set the path of the software image on the TFTP server	8.1.122.0
transfer download ap-images mode tftp	To set the file transfer mode as TFTP	8.1.122.0
transfer download ap-images serverIp <i>ipv4_address</i>	To specify the IP address of the TFTP server	8.1.122.0
transfer download start	To save the configuration and start the image download	8.1.122.0
transfer download stop	To stop the ongoing image download	8.3.102.0
debug transfer all { enable   disable }	To debug the transfer and download with all sub commands enabled	8.1.122.0
debug transfer tftp { enable   disable }	To debug transfer download of TFTP	8.1.122.0
debug transfer trace { enable   disable }	To debug transfer trace	8.1.122.0

## DNS Commands

Command	Description	Added in Release
config network dns default	To configure the default DNS servers.	8.2.100.1
show network summary	To view a network summary, with the default DNS servers listed, if they are enabled.	8.2.100.1

## Migration Commands

The following commands are used for converting an AP from Mobility Express software image to Lightweight CAPWAP AP software image, and vice-versa.

Command	Description	Added in Release
ap-type capwap	To convert ap-type from Mobility Express to CAPWAP	8.1.122.0
ap-type mobilityexpress tftp://tftp_server/file_name	To convert ap-type from CAPWAP to Mobility Express, when running an Mobility Express software image	8.1.122.0
config ap unifiedmode switch_name switch_IP_address	To convert all APs to type CAPWAP simultaneously from the switch	8.1.122.0

## Next Preferred Master AP and Forced Failover

Command	Description	Added in Release
config ap next-preferred-master cisco_ap_name	To set the next preferred master AP.	8.3.102.0
config ap next-preferred-master cisco_ap_name forced-failover	To set the next preferred master AP and to manually trigger a failover to that AP.	8.3.102.0

## NTP Commands

Command	Description	Added in Release
config time ntp server 1 <i>FQDN_of_server</i>	To configure the fully qualified domain name of the NTP server having, for example here, NTP index 1.	8.2.100.1
config time ntp server 2 <i>NTP_Server_IP_address</i>	To configure the IP address of the NTP server having, for example here, NTP index 2.	8.2.100.1

## VRRP Commands

The following Virtual Router Redundancy Protocol (VRRP) commands are used during the Mobility Express controller failover and for the master AP.

Command	Description	Added in Release
config ap next-preferred-master	To configure the master AP that has been elected to take over as the new master AP	8.1.122.0
show ap next-preferred-master	To display the status of the master AP	8.1.122.0
clear ap next-preferred-master	To clear the configuration of the master AP	8.1.122.0

## WLAN Security Commands

Command	Description	Added in Release
config wlan security wpa akm cckm {enable   disable} wlan_id	To enable or disable CCKM	8.2.100.1