



Cisco Mobility Express

October 2015

Introducing Cisco Mobility Express

- Embeds a virtual WLAN controller function into your access point
- Uses 802.11ac Wave 2 technology: Fastest Wi-Fi available
- Manages multiple Aironet Access Point models
- Enables simple and fast IT: You're up and running in ten minutes
- Supports Cisco's industry-leading WLAN features with no price premium

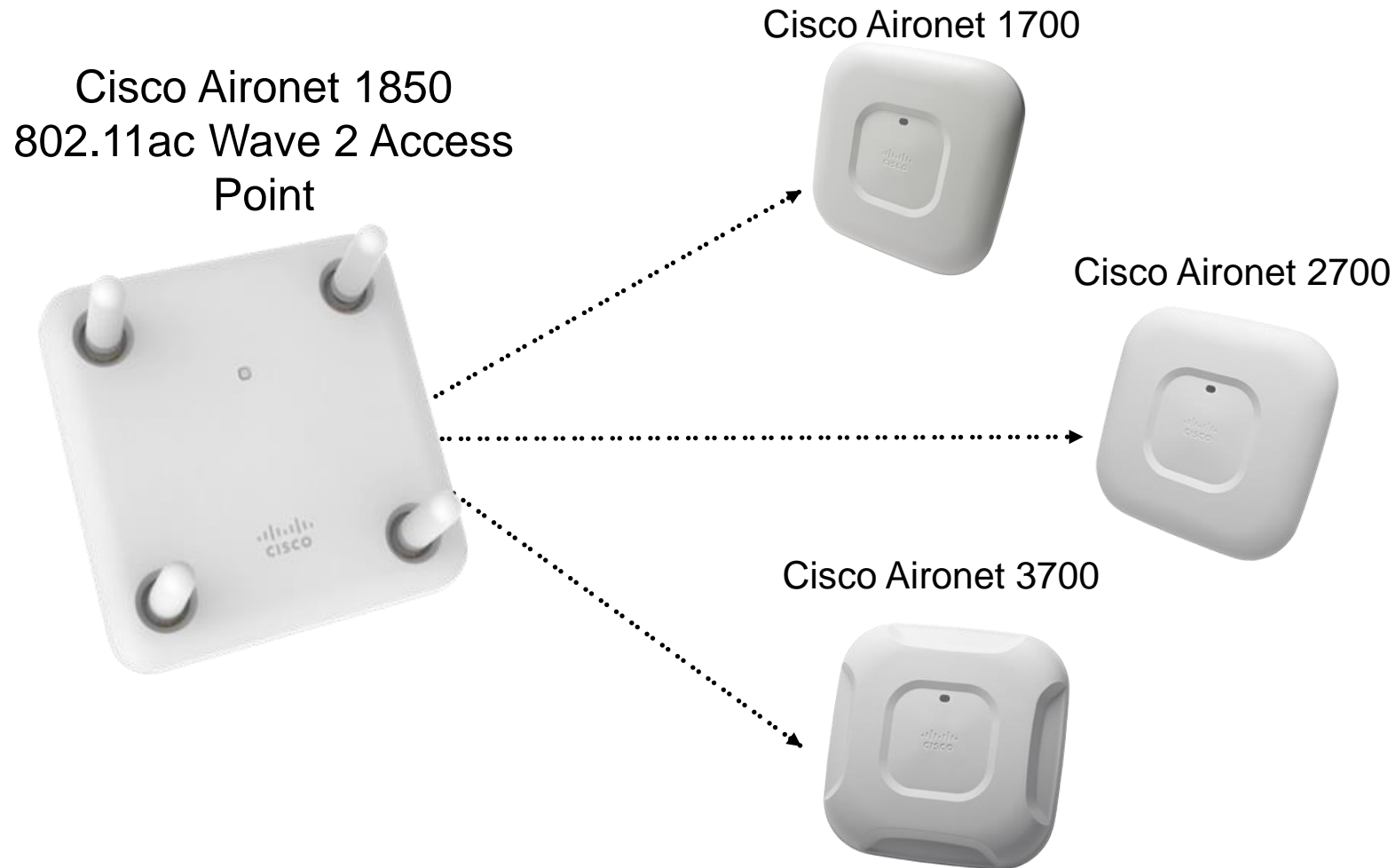
On-Premises

NEW: Mobility Express



Simple deployment

Cisco Mobility Express Solution



The Cisco 1850 Access Point provides virtual controller function that serves the other Access Points

Mobility Express: Use Cases and Details

➤ Sites with 500 clients or less where IT has limited span of control or reach

➤ Autonomous Mode implementations looking to refresh 802.11abgn to 802.11ac wave 2

➤ Companies or Sites looking to implement overlay / segmented Guest Access

➤ Companies or organization that need to quickly setup temporary Wi-Fi for events

Key Features	Details
Clients	500
Access Points	25
RF Management	Yes
Advanced Security	Yes
<u>Cisco Best Practices</u>	Yes
Fast Secure Roaming	Yes
Rogue AP Detection	Yes
<u>Application Visibility</u>	Yes
Guest Network / Firewall	Yes
<u>Device profiling</u>	Yes
<u>Mobile app</u>	Yes
High Availability	Yes
Local Radius Server	Yes
Interoperability	PI 3.0.1 CMX 10.2 (CMX Presence) ISE 1.4 (802.1x authentication)

Connecting 1800 AP for Mobility Express

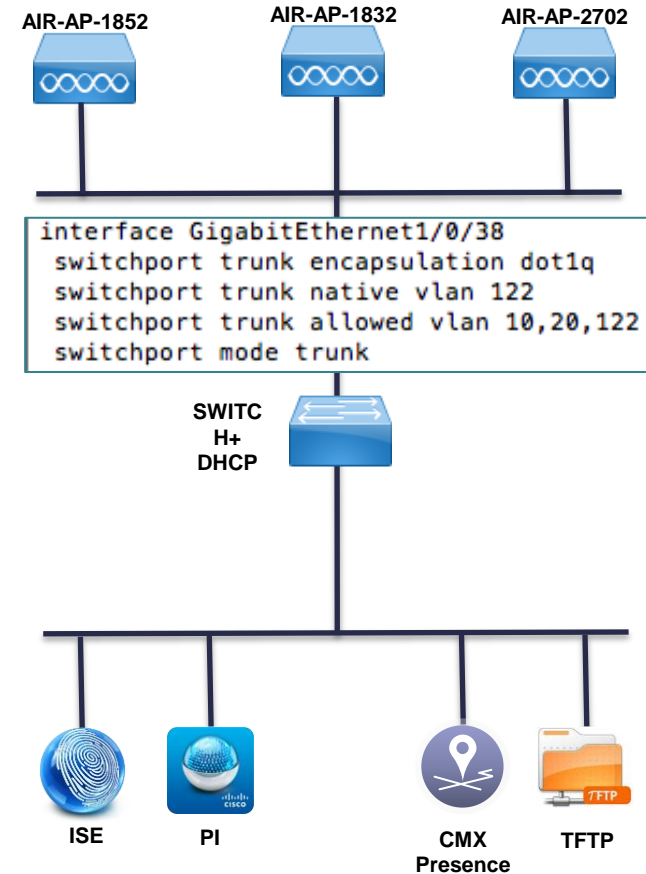
- Switch port is configured as trunk
- Management traffic is untagged and is on native VLAN. Client Traffic is on trunked VLAN
- Management interface on controller is UNTAGGED

(Cisco Controller) >show interface summary

Number of Interfaces..... 2

Interface Name	Port	Vlan Id	IP Address	Type
management	1	untagged	172.20.229.45	Static
virtual	N/A	N/A	192.0.2.1	Static

Typical Mobility Express Deployment



AIR-AP18XX – Is it CAPWAP or Mobility Express?

➤ AIR-AP-1852I-B-K9 – Ships with CAPWAP image

➤ AIR-AP1852I-B-K9C – Ships with Mobility Express image which is built on top of CAPWAP

➤ For Mobility Express, <sh version> on AP should display-

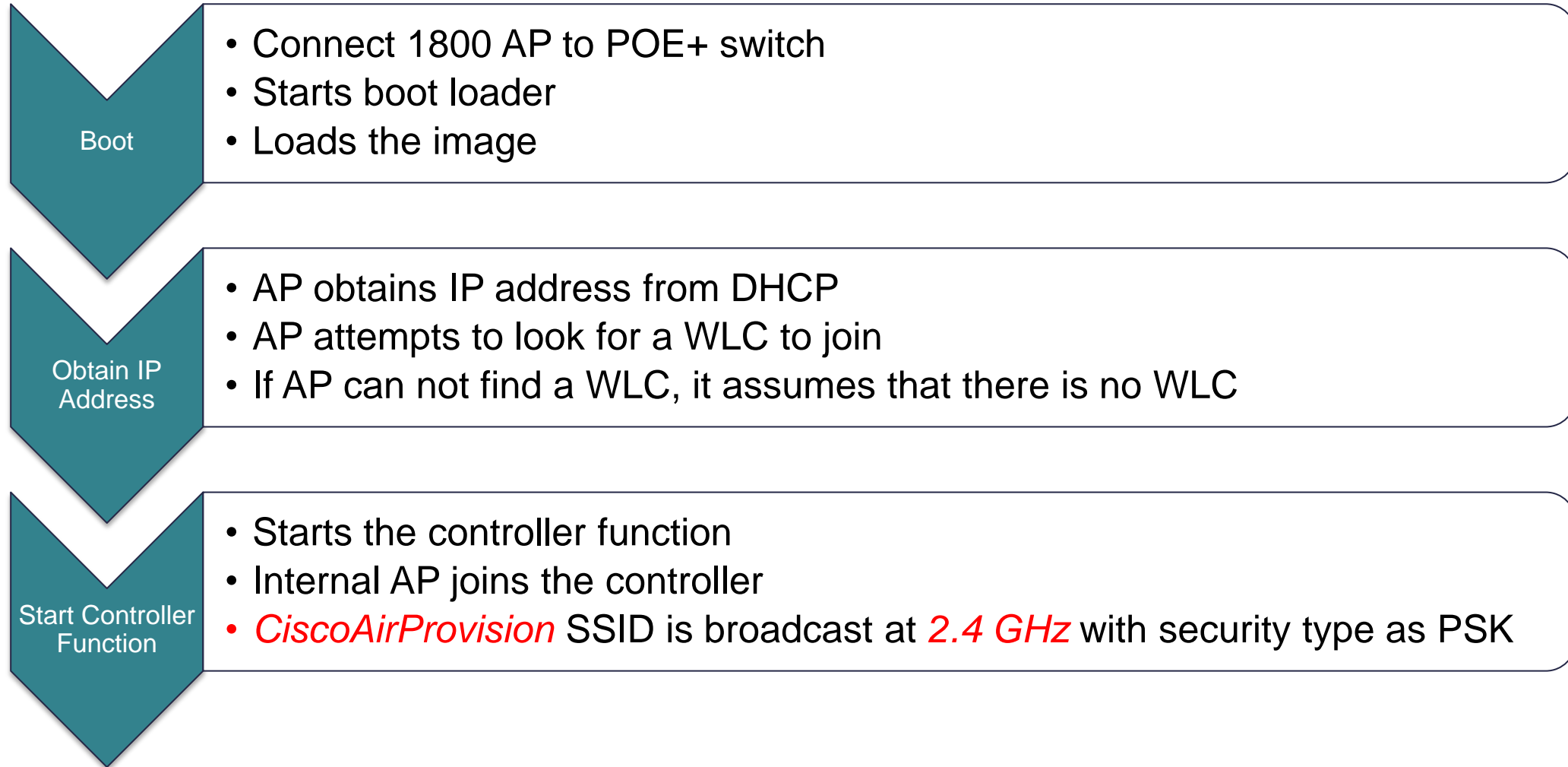
- ❑ AP Image Type - **MOBILITY EXPRESS IMAGE**
- ❑ AP Configuration - **MOBILITY EXPRESS CAPABLE**

Output of <sh version> on AP

```
AP Image version (active) : 8.1.10.159
AP Image version (backup) : 0.0.0.0
```

```
-----
AP Running Image       : 8.1.123.15
Primary Boot Image    : 8.1.123.15
Backup Boot Image     : 8.1.122.0
AP Image type         : MOBILITY EXPRESS IMAGE
AP Configuration      : MOBILITY EXPRESS CAPABLE
```

Mobility Express (Day0) – Boot Up process

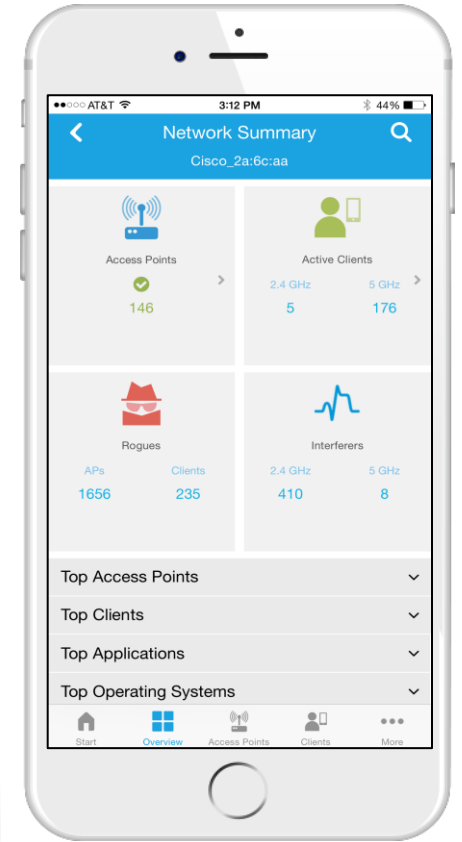
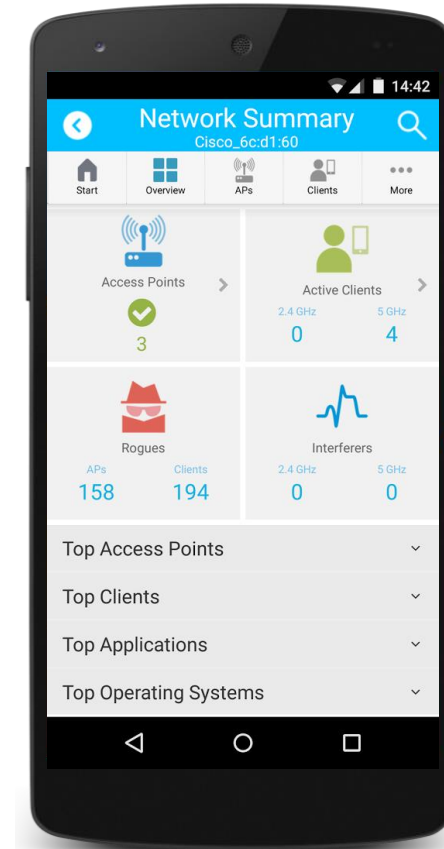


'Cisco Wireless' App



➤ Provisioning & Monitoring supported on software release 8.1 MR3

➤ Monitoring supported on software release 8.1MR2



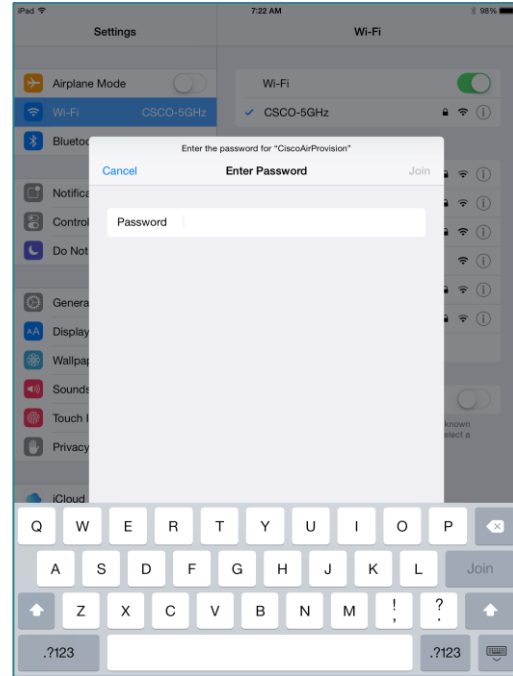
Over-the-Air WLAN Express Setup

Connecting to *CiscoAirProvision* and starting setup wizard

➤ Connect to *CiscoAirProvision* SSID



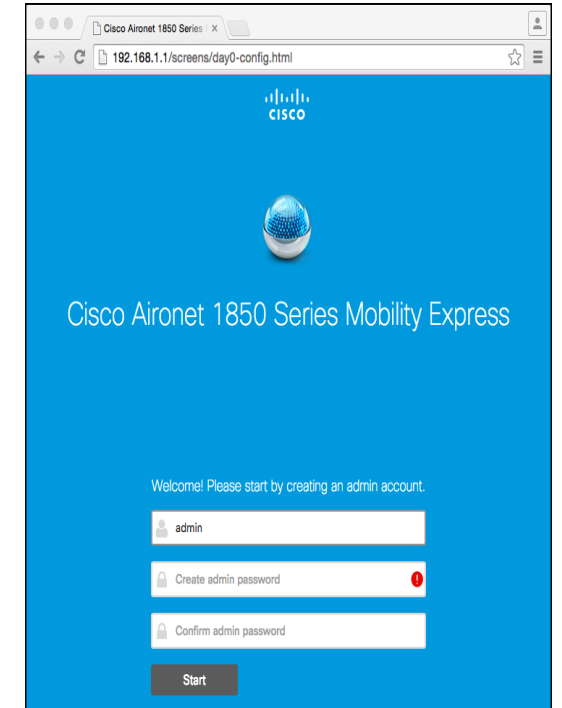
➤ Enter Password as *password*



➤ Connected to *CiscoAirProvision*; IP Address assigned



➤ Launch setup wizard at <http://192.168.1.1> & create admin account



Over-the-Air WLAN Express Setup

3 Steps < 10 Minutes

1. Setup Your Controller

Cisco Aironet 1850 Series Mobility Express

1 Set Up Your Controller

System Name:

Country:

Date & Time:

Timezone:

NTP Server:

Management IP Address:

Subnet Mask:

Default Gateway:

2 Create Your Wireless Networks

3 Advanced Setting

2. Setup Wireless Networks

Cisco Aironet 1850 Series Mobility Express

1 Set Up Your Controller

2 Create Your Wireless Networks

Employee Network

Network Name:

Security:

Pass Phrase:

Confirm Pass Phrase:

VLAN:

DHCP Server Address:

Guest Network

3. Enable RF Parameter Optimization

Cisco Aironet 1850 Series Mobility Express

1 Set Up Your Controller

2 Create Your Wireless Networks

3 Advanced Setting

RF Parameter Optimization

Client Density:

Traffic Type:

Confirm Settings and reboot the controller

iPad 7:32 AM 192.168.1.1 97%

Cisco 1850 Series Wireless LAN Controller

Please confirm settings and apply

1 Controller Settings

Username: admin
System Name: WLC-MobExp
Country: United States (US)
Date & Time: 06/08/2015 7:32:31
Timezone: Pacific Time (US and Canada)
NTP Server: 217.162.232.173
VRRP Group ID: 1

Management/VRRP IP Address: 192.168.1.12
Management IP Subnet: 255.255.255.0
Management IP Gateway: 192.168.1.2
Management VLAN ID: 0

2 Wireless Network Settings

Employee Network

Network Name: WLAN-Employee
Security: WPA2 Enterprise
Authentication Server IP Address: 192.168.1.7
Authentication Server Shared Secret: *****
Employee VLAN: Management VLAN
DHCP Server Address: 192.168.1.2

Guest Network

3 Advanced Settings

RF Parameter Optimization

Client Density: Typical
Traffic Type: Data
Virtual IP Address: 192.0.2.1
Local Mobility Group: Default

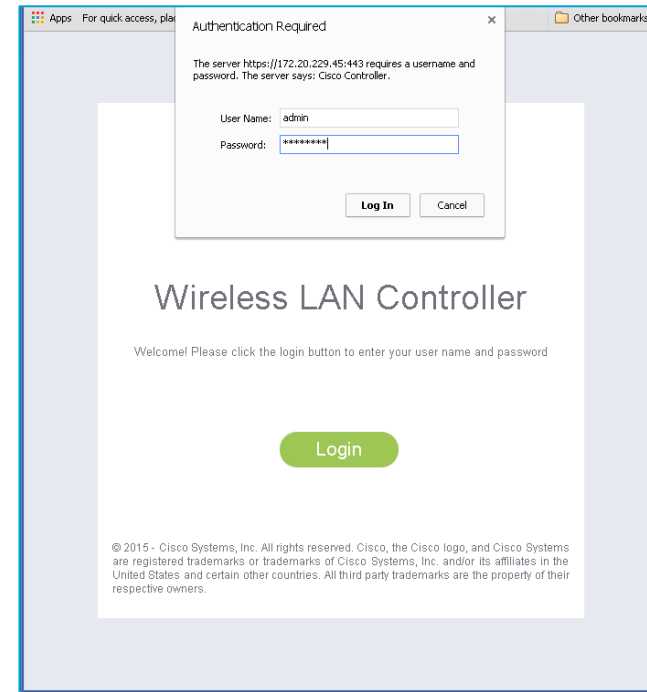
Logging into Mobility Express



Access Mobility Express using the controller's management IP address-
Example: `https://<controller_mgmt_ip_addr>`



Enter admin account username and password configured during the WLAN Express setup>



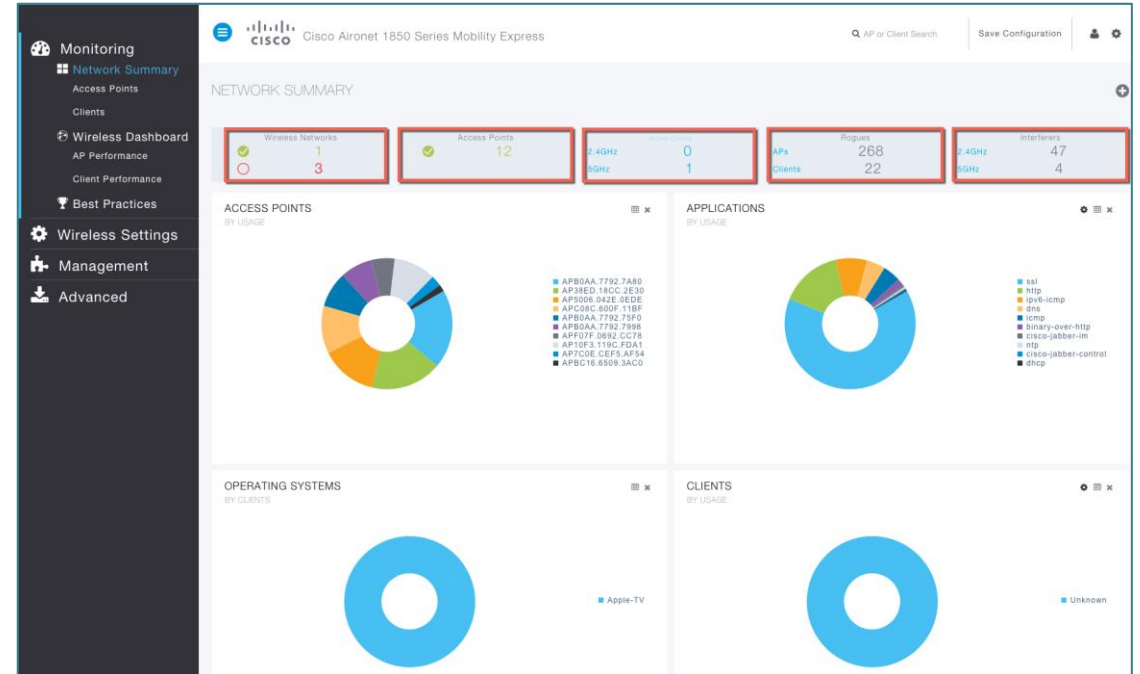
Network Summary

Displays high level view of Wireless Network

Network Summary shows count of Wireless Networks, Access Points, Clients, Rogues and Interferers in 2.4 and 5.0 GHz band

Graphical and Tabular representation of APs, OS, Clients, Application Visibility and Top WLANs

Add/Delete Widgets



Monitoring – Access Points



Displays list of Access Points in the network; Inventory, Uptime, Usage etc.



Detailed Access Point view displays details AP information, Radio Performance summary, list of connected clients, etc.

The screenshot displays the Cisco Aironet 1850 Series Mobility Express monitoring interface. It features a sidebar menu with options like Monitoring, Network Summary, Clients, Wireless Dashboard, AP Performance, Client Performance, and Best Practices. The main content area is divided into several sections:

- ACCESS POINTS:** A table listing APs with columns for AP Name, IP Address, Model, Clients, Usage, Channel, Channels, Power (dBm), Interference, Noise (dBm), and Request. The table shows four APs, with the last one (APC08C.600F.11BF) highlighted.
- ACCESS POINT VIEW:** A detailed view for the selected AP (APC08C.600F.11BF) located in 'CONF ROOM SATURN'. It includes a 'GENERAL' section with fields for MAC Address, IP Address, CDP / LLDP, Model / Domain, Serial Number, and Max Capabilities. A 'PERFORMANCE SUMMARY' section compares 2.4GHz and 5GHz performance metrics such as Number of clients, Configured Rate, Usage, Throughput, Transmit Power, Noise, Channel Utilization, Interference, Traffic, Air Quality, and Admin Status.
- APC08C.600F.11BF DETAILS:** A section for 'CLIENTS', 'RF TROUBLESHOOT', and 'TOOLS'.
- NEIGHBOR AND ROGUE APS:** A scatter plot showing RSSI (dBm) vs Channel for AP Channels, neighbors, and rogues.
- CLEAN AIR INTERFERERS:** A bar chart showing Severity vs Channel for AP Channels and interferers.

Monitoring – Clients



Displays list of Clients in the network; client type, client connection speed, Uptime etc.



Detail Client view displays Signal Quality, Device Type, Application Visibility, QoS, Security, Policy assignment etc.

The screenshot shows the Cisco Aironet 1850 Series Mobility Express monitoring interface. The top navigation bar includes 'Monitoring', 'Network Summary', 'Access Points', 'Clients', 'Wireless Dashboard', 'AP Performance', 'Client Performance', and 'Best Practices'. The main content area is divided into two sections: a 'CLIENTS' list and a 'CLIENT VIEW' for a selected client.

CLIENTS List:

Name	IPv4 Address	AP Name	Protocol	Client Type	Connection	Status	Uptime
unknown	172.20.229.31	AP10F3.119C.FDA1	802.11n	Apple-TV	0 Mbps	Online	8 Hours 40 Minutes
unknown	172.20.229.33	APC08C.600F.11BF	802.11n	Windows7-Works...	0 Mbps	Online	10 Minutes 14 Se...

CLIENT VIEW (Selected Client: admin-PC):

GENERAL

- User Name: **Unknown**
- Host Name: **admin-PC**
- MAC Address: 24:77:03:92:5e:58
- Uptime: Associated since 11 Minutes 47 Seconds
- SSID: ME-EMPLOYEE-PSK
- AP Name: APC08C.600F.11BF (64)
- Nearest APs: AP38ED.18CC.2E30, AP38ED.18CC.2E40, AP38ED.18CC.2EE0
- Device Type: Windows7-Workstation
- Performance: Signal Strength: -42 dBm Signal Quality: 51 dB Connection Speed: 300 Mbps
- Capabilities: 802.11n (5GHz) (CCXv4) Spatial Stream: 2

TOP APPLICATIONS

Name	Usage	% Usage
1 sip-tls	11.7 KB	43.7%
2 http	7.9 KB	29.53%
3 unknown	5.8 KB	21.57%
4 dns	1.4 KB	5.2%

NETWORK

Description	Status
IP Address	172.20.229.33
IPv6 Address	Unknown
VLAN	1
Mobility Role	Local

SECURITY & POLICY

Description	Status
Policy	RSN (WPA2)
Cipher	CCMP (AES)
Key Management	PSK
EAP Type	N/A
ACL (IP/IPv6)	None/None
mDNS Profile	None
AAA Role	None

QOS

Description	Status
WMM	Supported
U-APSD	Disabled
QoS Level	Gold

CLIENT TEST

CONNECTIVITY PING TEST

Start Association Authentication DHCP Online

Best Practices

Best Practices are enabled by default at Day 0

Best Practices relevant to Mobility Express deployments are displayed

For few Best Practices (Ex. NTP), Manual Configuration will link to relevant page

Monitoring
Network Summary
Access Points
Clients
Wireless Dashboard
AP Performance
Client Performance
Best Practices
Wireless Settings
Management
Advanced

Cisco Aironet 1850 Series Mobility Express

AP or Client Search Save Configuration

BEST PRACTICES Best Practice Score 19/21

INFRASTRUCTURE

- + AVC Visibility ✓
- + Local Profiling ✓
- + NTP ○
- + Fast SSID ✓
- + HTTPs for Management ✓
- + Aironet IE ✓

Less Optimizations...

SECURITY

- + WLAN with 802.1X/WPA2 ✓
- + Rogue Policies ✓
- + Min Rogue RSSI Threshold ✓
- + SSH/Telnet Access ✓
- + Client Exclusion ✓
- + Legacy IDS ✓
- + Local Management Password Policies ✓
- + User login policies ✓

Less Optimizations...

RF MANAGEMENT

- + High SSID Counts ✓
- + Client Bandselect ✓
- + Auto Dynamic Channel Assignment ✓
- + Auto Transmit Power Control ✓
- + Auto Coverage Hole Detection ✓
- + CleanAir Detection ✓
- + Event Driven RRM ○

Less Optimizations...

Wireless Setting - WLAN

➤ Max WLAN count supported is 16

➤ Security Type – Open, WPA2 - PSK, WPA2 Enterprise, Guest

➤ WLAN to VLAN Mapping, ACL Rules

➤ Application Visibility is enabled for each WLAN

Monitoring
Wireless Settings
WLANs
Access Points
WLAN Users
Guest WLANs
Management
Advanced

Cisco Aironet 1850 Series Mobility Express

AP or Client Search Save Configuration

WLAN CONFIGURATION

Active WLANs 3

Active	Name	Security Policy	Radio Policy
Enabled	ME-EMPLOYEE-PSK	WPA2Personal	ALL
Disabled	Open	Open	ALL
Enabled	ME-WPA2-ACS	WPA2Enterprise	ALL
Enabled	WLAN-POD5-ME-GUEST	Guest	ALL

Add New WLAN

General WLAN Security VLAN & Firewall QoS

WLAN Id 4

Profile Name *

SSID *

Admin State Enabled

Radio Policy ALL

Security WPA2 Personal

Shared Key * Open

WPA2 Personal

WPA2 Enterprise

Guest

Cancel

Wireless Setting – WLAN Users



Add, Modify, Delete WLAN users for 802.1x local authentication



Add, Modify, Delete Guest Users

Monitoring
Wireless Settings
WLANs
Access Points
WLAN Users
Guest WLANs
Management
Advanced

WLAN USERS

Users 2

	User Name	Guest User	Lifetime (Seconds)	WLAN Profile	Password	Description
<input checked="" type="checkbox"/>	john	No	N/A	ME-EMPLOYEE-PSK	*****	Employee
<input checked="" type="checkbox"/>	tim	Yes	864000	WLAN-POD5-ME-GUEST	*****	Guest

Add WLAN User

	User Name	Guest User	Lifetime (Seconds)	WLAN Profile	Password	Description
<input checked="" type="checkbox"/>	john	<input type="checkbox"/>	0	ME-EMPLOYEE-...	*****	Employee
<input checked="" type="checkbox"/>	tim	Yes	864000	WLAN-POD5-	*****	Guest

New Password *****
Confirm Password *****

Wireless Setting – Guest WLAN

Local Web Auth. with local guest users
Guest Access is for 24 Hours, not configurable

No LWA with ISE

No Lobby Ambassador
No customized Web Auth. page

The screenshot shows the configuration page for a Guest WLAN on a Cisco Aironet 1850 Series Mobility Express device. The interface includes a left-hand navigation menu with options: Monitoring, Wireless Settings (selected), WLANs, Access Points, WLAN Users, Guest WLANs, Management, and Advanced. The main content area is titled 'GUEST WLAN' and features a status indicator 'Enabled' with a count of '1'. Below this, a configuration table is highlighted with a red border:

Display Cisco Logo	Yes (Default)
Redirect URL After Login	http://www.cisco.com
Page Headline	Welcome to Guest Portal
Page Message	Powered by Cisco Mobility Express

An 'Apply' button is located at the bottom of the configuration table.

Management – Access

Supported via HTTP, HTTPS, Telnet, SSHv2

HTTPS, SSHv2 enabled by default

The screenshot shows the Cisco Aironet 1850 Series Mobility Express web interface. The left sidebar contains a navigation menu with the following items: Monitoring, Wireless Settings, Management (selected), Access (sub-selected), Admin Accounts, Time, Software Update, and Advanced. The main content area is titled 'MANAGEMENT ACCESS' and features a large blue 'Enabled' button with a '1' and a white '2' button. Below this, a red-bordered box highlights a configuration table with the following settings:

HTTP Access	Disabled (Default)
HTTPS Access	Enabled (Default)
Telnet Access	Disabled (Default)
SSHv2 Access	Enabled (Default)

An 'Apply' button is located at the bottom of the configuration table.



Software Update

Management – Software Update

- Software Update supported via TFTP. TFTP parameters must be configured on Web UI.
- Mobility Express controller does not store AP images. AP images are stored on TFTP server.
- Controller maintains mapping of APs to AP images. Maximum of five concurrent software downloads on Access Points
- ‘Update Now’ initiates pre-download image on all APs from TFTP server. Manual Reboot is required.
- ‘Schedule Later’ initiates pre-download image on all APs from TFTP server. Reboot happens as per ‘Set Reboot Time’
- Software download is non service impacting

The screenshot shows the Cisco Aironet 1850 Series Mobility Express Web UI. The left sidebar contains navigation options: Monitoring, Wireless Settings, Management (selected), Access, Admin Accounts, Time, Software Update, and Advanced. The main content area is titled 'SOFTWARE UPDATE' and features a large blue 'Version' button with a downward arrow and the text '8.1.123.15'. Below this, the 'Current Version' is listed as '8.1.123.15'. The 'Transfer Mode' is set to 'TFTP'. The 'IP Address(Pv4)' is '172.20.229.10' and the 'File Path' is 'ap_bundle_8.1.123.15/'. There is a 'Set Reboot Time' field with a calendar icon. At the bottom, there are four buttons: 'Update Now', 'Schedule Later', 'Save Tftp Parameters', and 'Restart'. Below the Web UI, a Windows File Explorer window is open to the path 'C:\tftp\37'. The 'Folders' pane shows a tree view with folders like 'admin', 'Administrator', 'Desktop', 'Favorites', 'My Documents', 'NetApp', 'Start Menu', 'Programs', 'WINDOWS', 'Workspaces', and 'All Users'. The 'Files' pane shows a list of files including 'ap1g1', 'ap1g2', 'ap1g3', 'ap1g4', 'ap3g1', 'ap3g2', 'ap801', 'ap802', 'ap_bundle_8.1.105.37', 'c602i', 'c1140', 'c1520', 'c1550', and 'c1570'.



Conversion

1. CAPWAP to Mobility Express
2. Mobility Express to CAPWAP

Conversion

Supported on 1800 series access points from 8.1.122.0 version

Download Mobility Express capable *AIR-AP1850-K9-<version>.tar* file from CCO on TFTP server

CAPWAP to Mobility Express CLI
AP#ap-type mobility-express tftp://<TFTP server IP address>/<mobility express capable AP tar image>

Mobility Express to CAPWAP
AP#ap-type capwap

Download Software

Download Cart (1 items) [Feedback](#) [Help](#)

[Downloads Home](#) > [Products](#) > [Wireless](#) > [Access Points](#) > [Aironet 1850 Series Access Points](#) > [Aironet 1850i Access Points](#) > [Cisco Mobility Express-8.1.122.0](#)

Aironet 1850i Access Points

Search... [Expand All](#) | [Collapse All](#) [Release Notes for 8.1.122.0](#) [Add Device](#) [Add Notification](#)

File Information	Release Date	Size	
Cisco 1850 Series Mobility Express Release 8.1 Software, to be used for conversion from Lightweight Access Points only. AIR-AP1850-K9-8.1.122.0.tar	26-SEP-2015	30.05 MB	Download Add to cart Publish
Cisco 1850 Series Mobility Express Release 8.1 Software, Access Point image bundle, to be used for software update and/or supported access points images. AIR-AP1850-K9-ME-8-1-122-0.zip	26-SEP-2015	141.22 MB	Download Add to cart Publish

Conversion – CAPWAP to Mobility Express

Output of <sh version> on AP

CASE 1 : CAPWAP image

```
AP Image version (active) : 8.1.10.159
AP Image version (backup) : 0.0.0.0
```

CASE 2 : ME image = YES, ME Capable = NO

```
AP Running Image      : 8.1.123.15
Primary Boot Image    : 8.1.123.15
Backup Boot Image     : 8.1.10.159
AP Image type         : MOBILITY EXPRESS IMAGE
AP Configuration      : NOT MOBILITY EXPRESS CAPABLE
```

CASE 3 : ME image = YES, ME Capable = YES

```
AP Running Image      : 8.1.123.15
Primary Boot Image    : 8.1.123.15
Backup Boot Image     : 8.1.122.0
AP Image type         : MOBILITY EXPRESS IMAGE
AP Configuration      : MOBILITY EXPRESS CAPABLE
```

➤ Conversion is needed
#ap-type mobility-express tftp://<TFTP IP Address/<image>

➤ Conversion is needed
#ap-type mobility-express tftp://<TFTP IP Address/<image>
#ap-type mobility-express tftp [same image version]

➤ Conversion is **NOT** needed

Conversion – Mobility Express to CAPWAP

Output of <sh version> on AP

CASE 1 : ME image = YES, ME Capable = YES

```
AP Running Image      : 8.1.123.15
Primary Boot Image    : 8.1.123.15
Backup Boot Image     : 8.1.122.0
AP Image type         : MOBILITY EXPRESS IMAGE
AP Configuration     : MOBILITY EXPRESS CAPABLE
```

➤ Conversion is needed
#ap-type capwap

CASE 2 : ME image = YES, ME Capable = NO

```
AP Running Image      : 8.1.123.15
Primary Boot Image    : 8.1.123.15
Backup Boot Image     : 8.1.10.159
AP Image type         : MOBILITY EXPRESS IMAGE
AP Configuration     : NOT MOBILITY EXPRESS CAPABLE
```

➤ Conversion is **NOT** needed

CASE 3 : CAPWAP image

```
AP Image version (active) : 8.1.10.159
AP Image version (backup) : 0.0.0.0
```

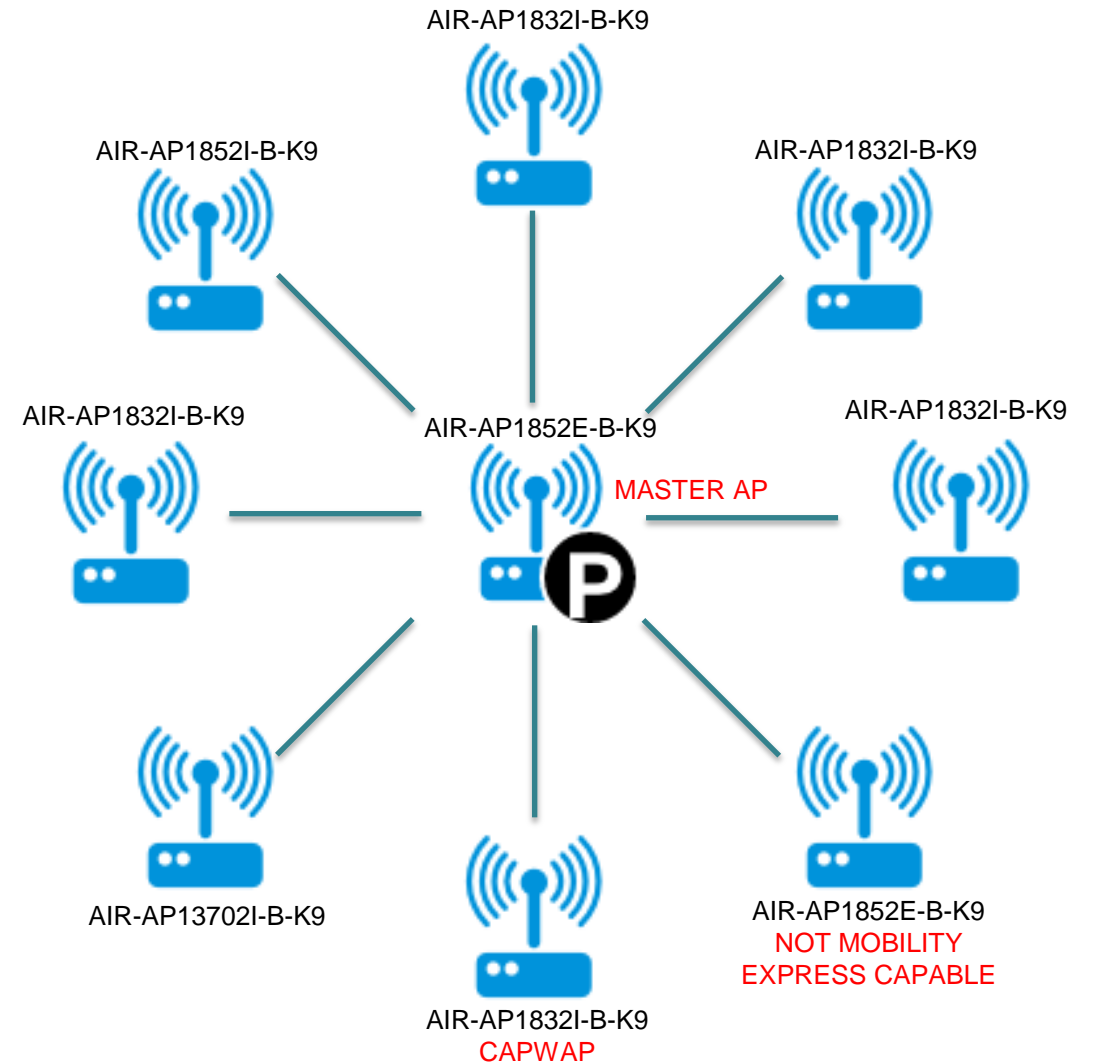
➤ Conversion is **NOT** needed



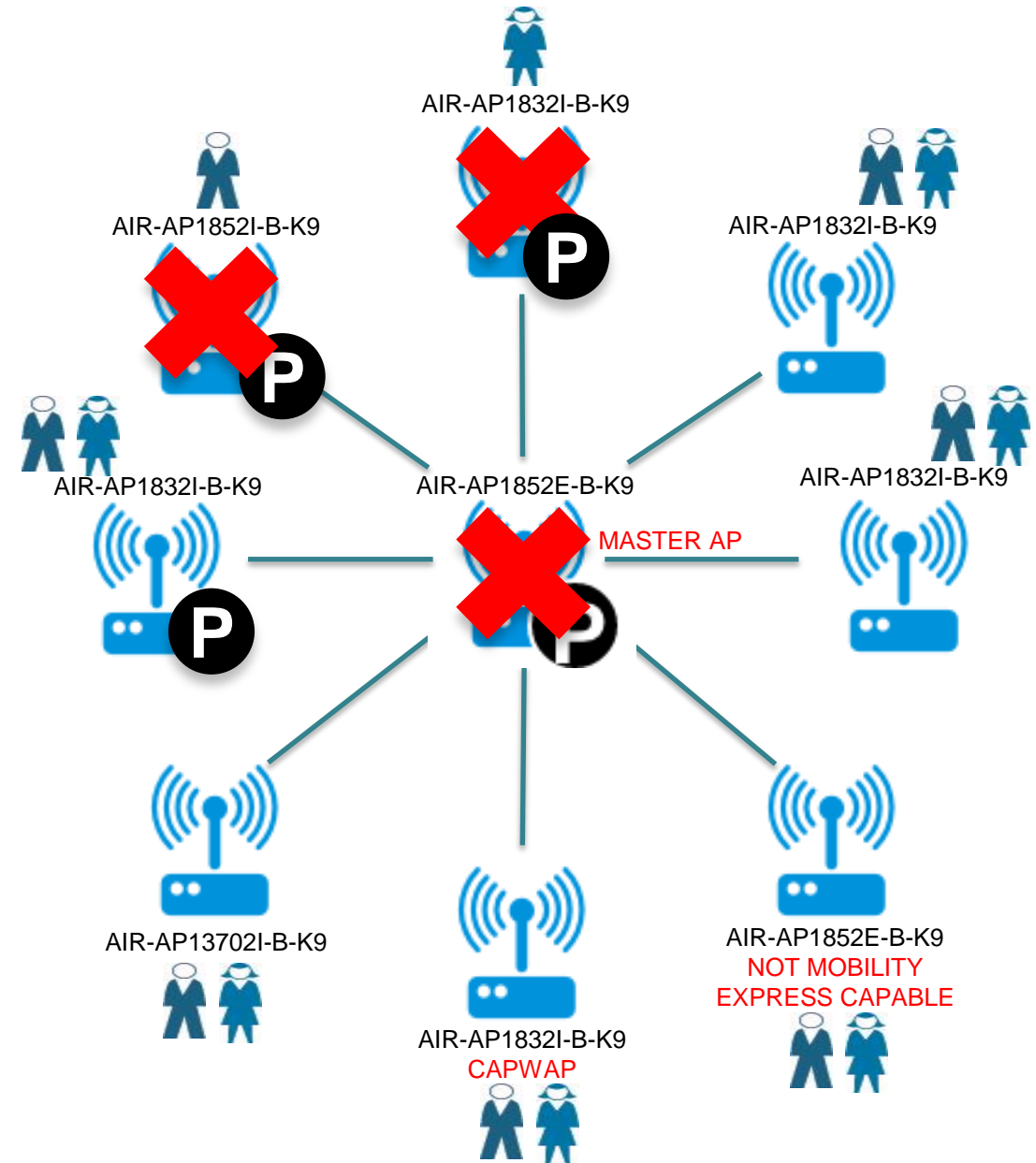
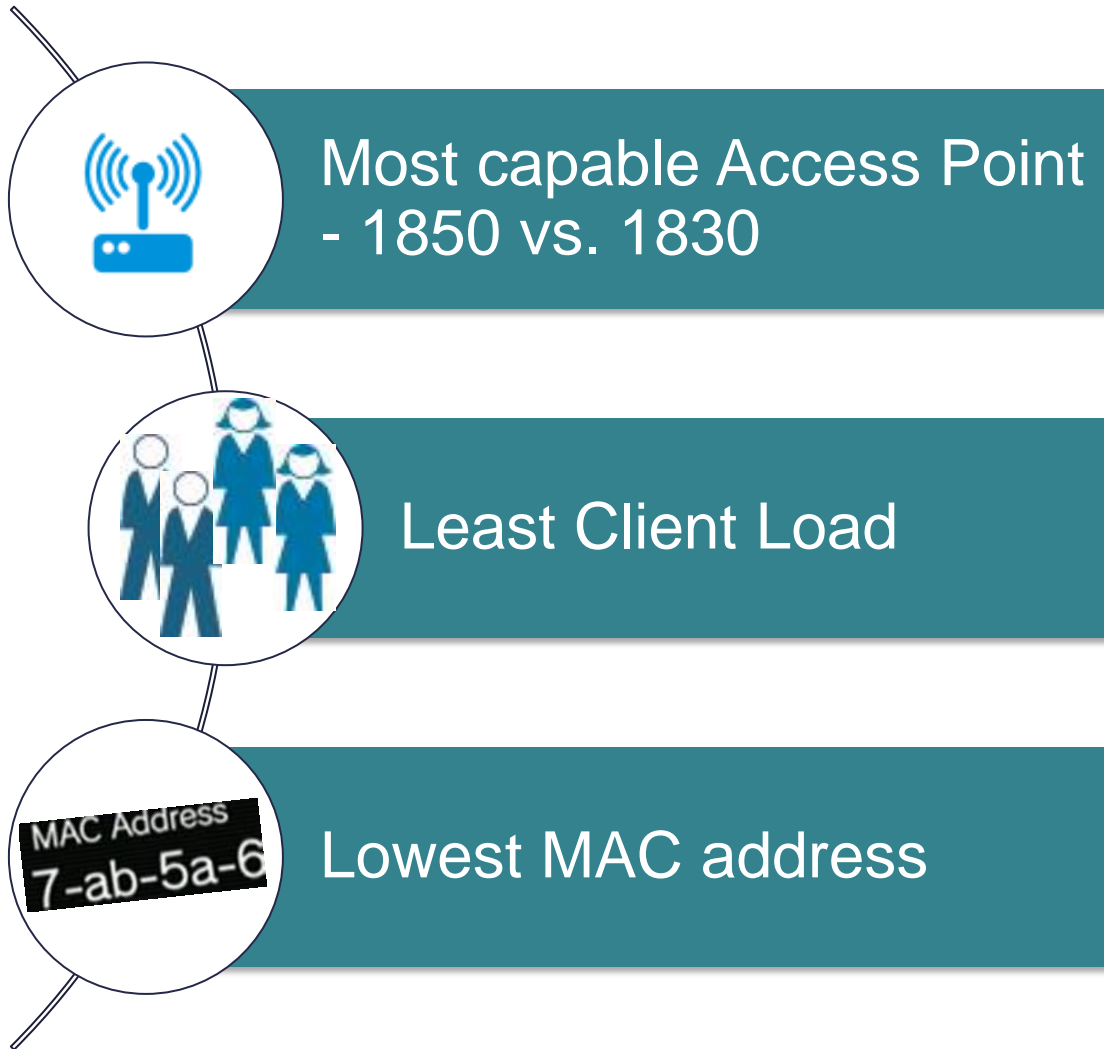
Mobility Express Failover and Master Election

Master Election

- Only 1800 series access points with AP Type as MOBILITY EXPRESSSS CAPABLE will participate in Master Election
- Master Election and client connectivity is restored in a less than 2 minutes
- SSO is not supported
- Standalone mode is currently not supported on 1800 APs
- Standalone mode on 1700, 2700, 3700 etc. Access Points will continue to service existing clients



Master Election Process



Interoperability



AireOS 8.1.122.0



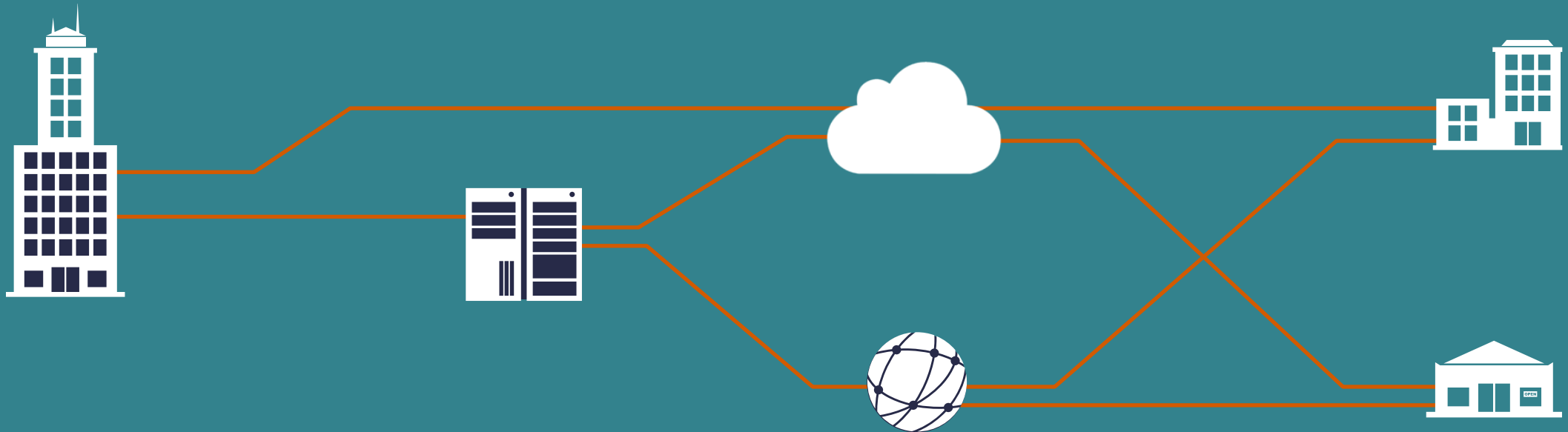
ISE Express 1.4
802.1x Authentication



CMX 10.2
Presence



PI 3.0 Patch 1.0



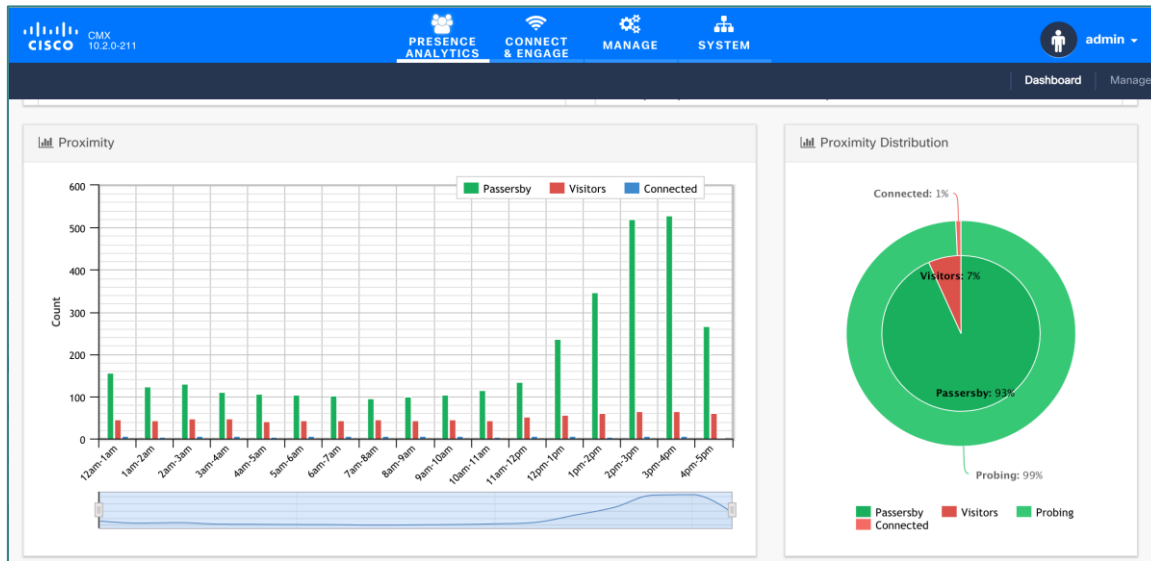
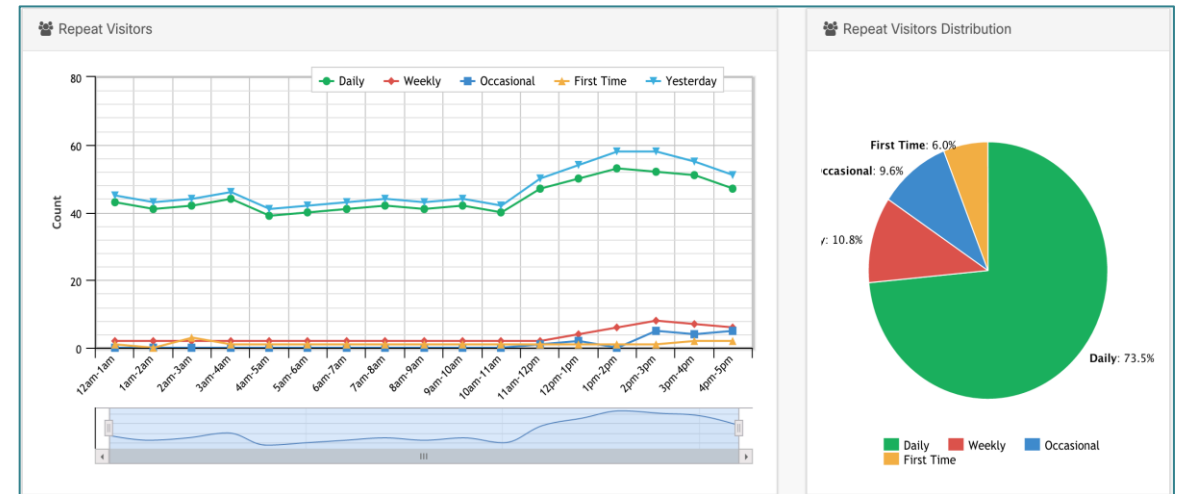
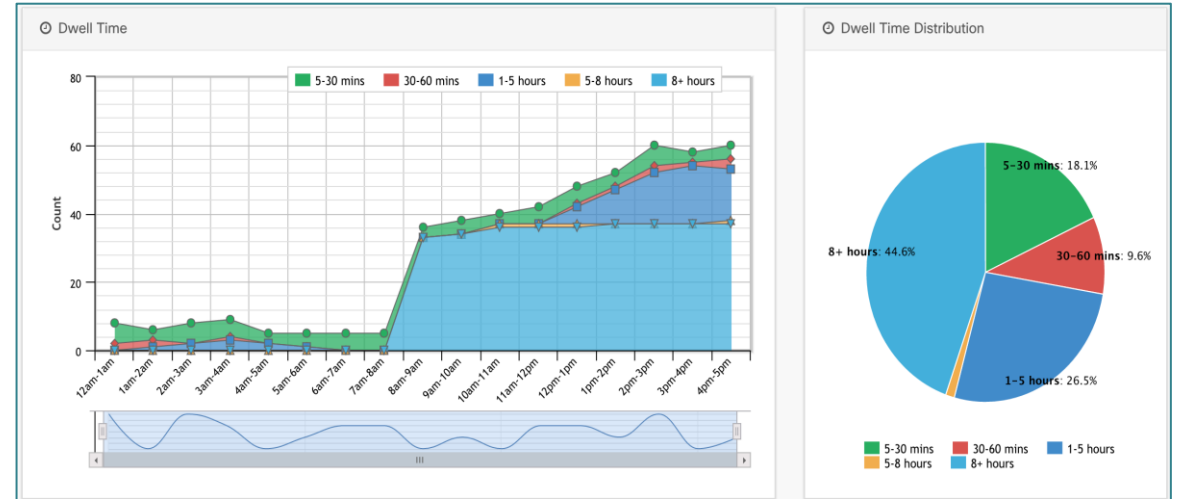
CMX 10.2 (Presence) support for Mobility Express




Add Mobility Express Controller IP in CMX




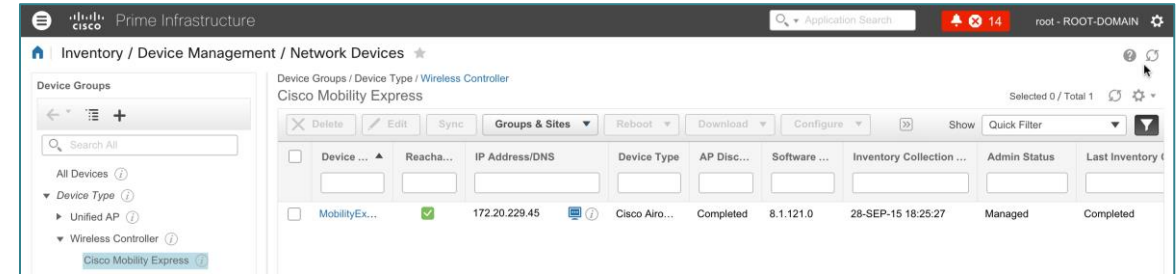
Create sites with one or more APs for Presence Analytics



Prime Infrastructure (3.0.1) support for Mobility Express

 Add Mobility Express Controller IP in PI

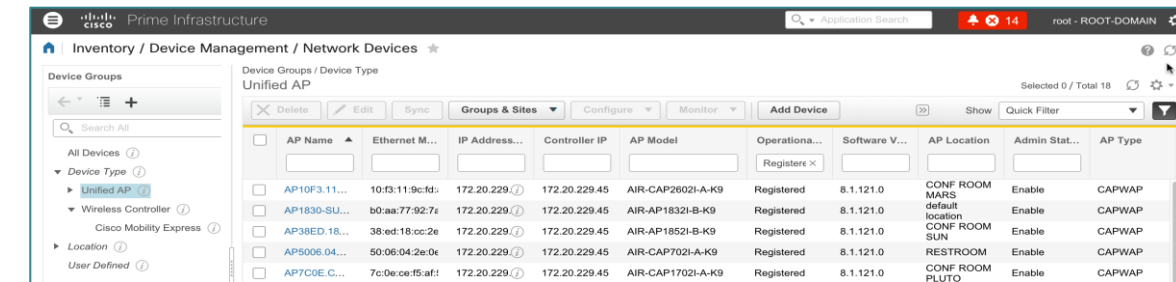
 View AP details, WLANs etc.



Prime Infrastructure / Inventory / Device Management / Network Devices

Device Groups / Device Type / Wireless Controller

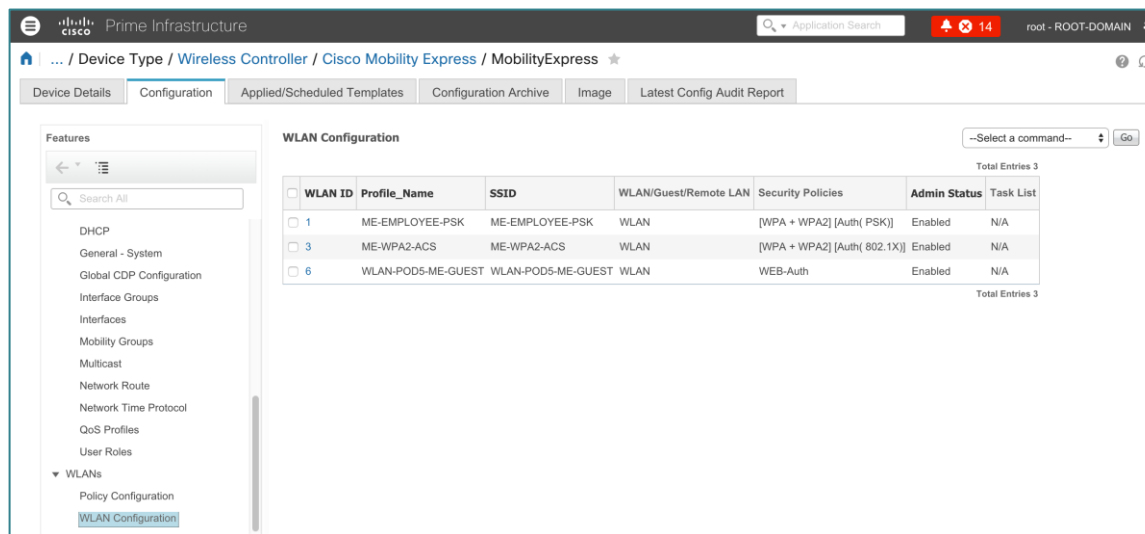
Device	Reachability	IP Address/DNS	Device Type	AP Disc...	Software	Inventory Collection	Admin Status	Last Inventory
MobilityEx...	<input checked="" type="checkbox"/>	172.20.229.45	Cisco Airo...	Completed	8.1.121.0	28-SEP-15 18:25:27	Managed	Completed



Prime Infrastructure / Inventory / Device Management / Network Devices

Device Groups / Device Type / Unified AP

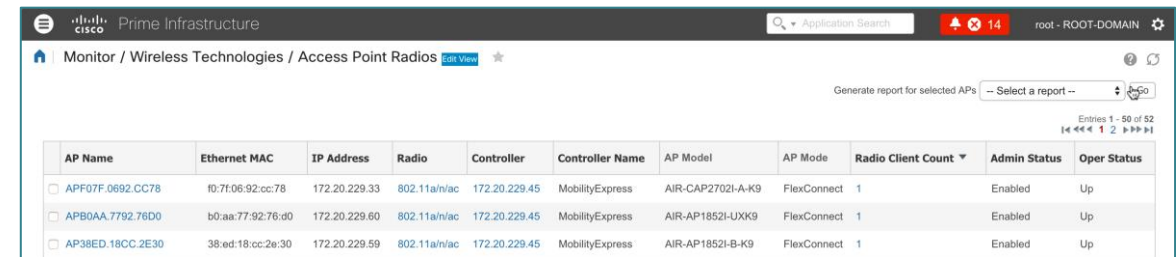
AP Name	Ethernet M...	IP Address...	Controller IP	AP Model	Operation...	Software V...	AP Location	Admin Stat...	AP Type
AP10F3.11...	10:f3:11:9c:fd:	172.20.229.7	172.20.229.45	AIR-CAP2602I-A-K9	Registered	8.1.121.0	CONF ROOM MARS	Enable	CAPWAP
AP1830-SU...	b0:aa:77:92:7e:	172.20.229.7	172.20.229.45	AIR-AP1832I-B-K9	Registered	8.1.121.0	default location	Enable	CAPWAP
AP38ED.18...	38:ed:18:cc:2e:	172.20.229.7	172.20.229.45	AIR-AP1852I-B-K9	Registered	8.1.121.0	CONF ROOM SUN	Enable	CAPWAP
AP5006.04...	50:06:04:2e:0e:	172.20.229.7	172.20.229.45	AIR-CAP702I-A-K9	Registered	8.1.121.0	RESTROOM	Enable	CAPWAP
AP7C0E.C...	7c:0e:ce:f5:af:	172.20.229.7	172.20.229.45	AIR-CAP1702I-A-K9	Registered	8.1.121.0	CONF ROOM PLUTO	Enable	CAPWAP



Prime Infrastructure / ... / Device Type / Wireless Controller / Cisco Mobility Express / MobilityExpress

WLAN Configuration

WLAN ID	Profile Name	SSID	WLAN/Guest/Remote LAN	Security Policies	Admin Status	Task List
1	ME-EMPLOYEE-PSK	ME-EMPLOYEE-PSK	WLAN	[WPA + WPA2] [Auth(PSK)]	Enabled	N/A
3	ME-WPA2-ACS	ME-WPA2-ACS	WLAN	[WPA + WPA2] [Auth(802.1X)]	Enabled	N/A
6	WLAN-POD5-ME-GUEST	WLAN-POD5-ME-GUEST	WLAN	WEB-Auth	Enabled	N/A



Prime Infrastructure / Monitor / Wireless Technologies / Access Point Radios

AP Name	Ethernet MAC	IP Address	Radio	Controller	Controller Name	AP Model	AP Mode	Radio Client Count	Admin Status	Oper Status
APF07F.0692.CC78	10:7f:06:92:cc:78	172.20.229.33	802.11a/n/ac	172.20.229.45	MobilityExpress	AIR-CAP2702I-A-K9	FlexConnect	1	Enabled	Up
APB0AA.7792.76D0	b0:aa:77:92:76:d0	172.20.229.60	802.11a/n/ac	172.20.229.45	MobilityExpress	AIR-AP1852I-LXX9	FlexConnect	1	Enabled	Up
AP38ED.18CC.2E30	38:ed:18:cc:2e:30	172.20.229.59	802.11a/n/ac	172.20.229.45	MobilityExpress	AIR-AP1852I-B-K9	FlexConnect	1	Enabled	Up

