



# Feature Matrix for Cisco Wave 2 and 802.11ax (Wi-Fi 6) Access Points

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## Support in Cisco IOS XE Releases

This section lists support information for various features in Cisco Wave 2 and 802.11ax (Wi-Fi 6) Access Points in Cisco IOS XE releases.

**Note:** For a better reading experience, we recommend that you view this document with your browser window in full-screen mode.

**Note:** The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

Table 1 Access Points and First Supported Cisco IOS XE Release

Access Points	First Supported Cisco IOS XE Release
802.11ax (Wi-Fi 6) APs: 9124I and 9124D	Cisco IOS XE Amsterdam 17.5
802.11ax (Wi-Fi 6) APs: 9105I and 9105W	Cisco IOS XE Amsterdam 17.3
802.11ax (Wi-Fi 6) APs: 9130E	Cisco IOS XE Amsterdam 17.1
802.11ax (Wi-Fi 6) APs: 9120E, 9120P, 9130I	Cisco IOS XE Gibraltar 16.12
802.11ax (Wi-Fi 6) APs: 9115, 9117, and 9120I	Cisco IOS XE Gibraltar 16.11
Wave 2 APs—18xx, 1540, 1560, 2800, 3800, and 4800	Cisco IOS XE Gibraltar 16.10

**Note:** This document is updated for Cisco IOS XE Amsterdam 17.6.1.

## Radio Frequency Feature Matrix (IOS XE)

Table 2 Radio Frequency Feature Matrix for Cisco Catalyst Controllers and Embedded Wireless Controllers

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
RRM-DCA, TPC, CHDM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
FRA	No	No	Yes	Yes	No	No	Yes	Yes	No	No
Band Select	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Load Balancing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RF Profiles	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HDX Turbo Performance	No	No	Yes	Yes	No	No	Yes	Yes	Yes for 1560	Yes for 1560
Optimized Roaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RX-SOP	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes for 1560	Yes for 1560
DBS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Off-channel Scanning	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Off-channel Scan Defer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flex DFS	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes for 1560	Yes for 1560
ClientLink	TxBF	TxBF	TxBF	TxBF	TxBF	TxBF	Yes	Yes	TxBF on 1540; Yes for 1560	TxBF on 1540; Yes for 1560
A-MSDU/A-MPDU aggregation config per priority	No for 9115	No for 9115	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EDRRM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes for 1560	Yes for 1560

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
CleanAir/Spectrum Intelligence	SI for 9115; No for 9105 and 9117	SI for 9115; No for 9105 and 9117	CleanAir	CleanAir	SI	SI	CleanAir	Clean Air	SI/CleanAir	SI/Clean Air
Spectrum Expert	No	No	Yes	Yes	No	No	Yes	Yes	Yes for 1560	Yes for 1560
Cisco DNA Center Spectrum Analyzer	NA	NA	Yes	Yes	NA	NA	Yes	Yes	No for 1540; Yes for 1560	No for 1540; Yes for 1560
ATF	No	No	No	No	No	No	Yes	Yes	Yes	Yes
UL OFDMA	No for 9117	No for 9117	Yes	Yes	No	No	No	No	No	No
DL OFDMA	Yes	Yes	Yes	Yes	No	No	No	No	No	No
UL MU MIMO	No	No	Yes, for C9124/C9130	Yes, for C9124/C9130	No	No	No	No	No	No
DL MU MIMO	Yes	Yes	Yes	Yes	No	No	Yes (VHT)	No	No	No
TWT	No for C9105/C9117	No for C9105/C9117	Yes	Yes	No	No	No	No	No	No
BSS Coloring	No for C9117	No for C9117	Yes	Yes	No	No	No	No	No	No
Wi-Fi 6 Analytics	No for C9117	No for C9117	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
iCap - Anomaly/Schedule	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
Full PCAP Capture										
iCap - Full Packet Capture	NA	NA	Yes for C9124/C9130	Yes for C9124/C9130	NA	NA	Yes for 4800	Yes for 4800	NA	NA
iCap - Specturm Analysis	NA	NA	Yes	Yes	NA	NA	Yes	Yes	Yes for 1560	Yes for 1560
Apple iOS Analytics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Samsung Analytics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intel Analytics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Security Feature Matrix (IOS XE)

Table 3 Security Feature Matrix for Cisco Catalyst Controllers and Embedded Wireless Controllers

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
WPA2/AES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WPA3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WPA3 - Enterprise-192	No	No	No for C9120; Yes, for C9124/C9130	No for C9120; Yes, for C9124/C9130	No	No	No	No	No	No
TKIP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Peer-to-Peer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
Blocking										
Adaptive wIPS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Client Exclusion	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rogue Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11r	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11k	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11v BSS Transition Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
802.11v DMS	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No for 1540	No for 1540
PMF (802.11w)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Local Policy with QoS and AVC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TrustSec SXP, SGT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WEP	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated
LSC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
TCP MSS Adjust	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAC Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OKC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CCKM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NDP Encryption	Yes	Yes	No	No	No	No	No	No	No	No
HW DTLS Encryption	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
802.1x on AP (EAP-FAST)	Yes TLS 1.2	Yes TLS 1.2	Yes TLS 1.2	Yes TLS 1.2	Yes TLS 1.2	Yes TLS 1.2	Yes TLS 1.2	Yes TLS 1.2	Yes TLS 1.2	Yes TLS 1.2
802.1x on AP (EAP-PEAP, EAP-TLS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Services Feature Matrix (IOS XE)

Table 4 Services Feature Matrix for Cisco Catalyst Controllers and Embedded Wireless Controllers

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
AVC-Mark, Drop, RL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override -VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override -ACL, QoS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override -Session Timeout	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override of AVC profile	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override BW contract	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Local Profiling	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RADIUS Profiling	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Per-User Bandwidth Contract	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Per-SSID Bandwidth contract	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VideoStream	Yes	Yes	Yes	Yes	No	No	No	No	No	No



Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
CAC, WMM Policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
QoS Profiles	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bonjour GW, mDNS AP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LSS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adaptive 11r	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fastlane	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fastlane +	No	No	Yes for C9130 and C9124	Yes for C9130 and C9124	No	No	No	No	No	No
MAC Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
802.11u	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BYoD, NAC RADIUS, CWA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Infrastructure Feature Matrix (IOS XE)

Table 5 Infrastructure Feature Matrix for Cisco Catalyst Controllers and Embedded Wireless Controllers

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
CDP, LLDP	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Pre-image Download	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fast SSID Change	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BLE	Yes	No	Yes	No	Yes, for 1830 and 1850 (1830 and 1850 require additional USB dongle.)	No	Yes. (2800 and 3800 require additional USB dongle.)	No	No	No
Hyperlocation (AoA)	No	No	No	No	No	No	Yes for 4800	No	No	No
User idle timeout per WLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Option 60	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Passpoint	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fast Locate	No	No	Yes	No	No	No	Yes	No	No	No
AP Multicast Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multicast VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMPv3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
Client IPv6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AP PnP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FlexConnect	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Local, Sniffer and Monitor Mode	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
RFID Tagging	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FIPS Certification	No for 9105	No for 9105	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Native IPv6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Allow WGB Connection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Allow uWGB Connection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAPWAP VLAN Tagging	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Option 82	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WebAuth - Internal/External	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
Mesh Mode	No	No	Yes for C9124(17.6.1)	Yes for C9124(17.6.1)	1800i, 1810, 1815w, 1815t, 1840: No 1815i, 1815m, 1830, 1850: Yes	1800i, 1810, 1815w, 1815t, 1840: No 1815i, 1815m, 1830, 1850: Yes	Yes	Yes	Yes	Yes

## FlexConnect Feature Matrix (IOS XE)

Table 6 FlexConnect Feature Matrix for Cisco Catalyst Controllers and Embedded Wireless Controllers

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
Local Switching	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Central Switching	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
WLAN-VLAN Mapping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Local Auth w/External	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
RADIUS Server										
Local Auth internal Server	No	No	No	No	No	No	No	No	No	No
TKIP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WPA2/AES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OEAP	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Webauth - Internal/ External	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
EoGREv4 /v6 on FlexConnect AP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN-based Central Switching	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
WIPS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
aWIPS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rogue detection and Mitigation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
CCKM Fast Roaming	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
802.11r	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
Adaptive 11r	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OKC	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
AAA Override -VLAN ID, ACL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override -VLAN Name	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
AAA Override -QoS	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
AAA Override -Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
Timeout										
AAA Override of AVC Profile	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
AAA Override Bandwidth contract	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
VLAN ACL	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
DNS ACL	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
Limit Clients per WLAN/Radio	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NetFlow Export	No	No	No	No	No	No	No	No	No	No
WGB	No	No	No	No	No	No	Yes	Yes	Yes for 1560	Yes for 1560
Split Tunneling	Yes	No	Yes	No	1800i, 1810, 1815w, 1840,	No	Yes	No	Yes	No

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540		
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	
					1815i, 1815m, 1830, 1850: Yes  1815T: No						
Passive Clients	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Client exclusion	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TrustSec SXP/SGT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
QoS Markings DSCP/dot1p Markings	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Native VLAN and VLAN Support on FlexConnect Group	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AVC Policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Proxy ARP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Syslog (no support for facility)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
setting)										
ClientLink	TxBF	TxBF	TxBF	TxBF	TxBF	TxBF	Yes	Yes	TxBF on 1540; Yes for 1560	TxBF on 1540; Yes for 1560
Load Balancing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Band Select	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Smart AP Image Upgrade	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Default Flex Group	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NAT/PAT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ethernet fallback	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bidirectional rate limiting (Per Client, Per BSSID)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bidirectional rate limiting Per WLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
Peer to Peer Blocking	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PMF (802.11w)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BYOD, NAC, RADIUS, CWA Flex Central Auth.	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
BYOD, NAC, RADIUS, CWA Local Auth	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)	Yes(Central Auth) No(local Auth)
MAC Authentication Flex Central Auth	No for 9115	No for 9115	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GTK Randomization	No	No	No	No	No	No	No	No	No	No
VideoStream	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multicast Direct	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAC	No	No	No	No	No	No	No	No	No	No
Umbrella	No	No	No	No	No	No	No	No	No	No

Features	CAT9105/9115/9117		CAT9120/9124/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC	Catalyst	EWC
WSA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mDNS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Support in Cisco AireOS Releases

This section lists the support information for various features in Cisco Wave 2 and 802.11ax (Wi-Fi 6) Access Points in Cisco AireOS releases.

For information about the Cisco AireOS releases in which the APs were first supported, see the Software Release Support for Specific Access Point Modules section of the Cisco Wireless Solutions Software Compatibility Matrix document at:

<https://www.cisco.com/c/en/us/td/docs/wireless/compatibility/matrix/compatibility-matrix.html>

Note:

- The Cisco Catalyst 9105 APs were first supported in Cisco AireOS Release 8.10.130.0
- The Cisco Catalyst 9130 APs were first supported in Cisco AireOS Release 8.10.105.0.
- The Cisco Catalyst 9120 APs were first supported in Cisco AireOS Release 8.9.111.0.
- The Cisco Catalyst 9115 and 9117 APs were first supported in Cisco AireOS Release 8.9.100.0.

Note: This document is updated for Cisco AireOS Release 8.10.x.

## Radio Frequency Feature Matrix (AireOS)

Table 7 Radio Frequency Feature Matrix for Cisco AireOS Controllers and Cisco Mobility Express

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
RRM-DCA, TPC, CHDM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
FRA	No	No	Yes	Yes	No	No	Yes	Yes	No	No
Band Select	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Load Balancing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RF Profiles	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HDX Turbo Performance	No	No	Yes	Yes	No	No	Yes	Yes	Yes for 1560	Yes for 1560
Optimized Roaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RX-SOP	Yes	Yes	Yes	Yes	Yes for 1852 only	Yes for 1852 only	Yes	Yes	Yes for 1560; No for 1540	Yes for 1560; No for 1540
DBS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Off-channel Scanning	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Off-channel Scan Defer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flex DFS	No	No	Yes	Yes	No	No	Yes	Yes	Yes for 1560	Yes for 1560
ClientLink	TxBF	TxBF	TxBF	TxBF	TxBF	TxBF	Yes	Yes	TxBF on 1540;	TxBF on 1540;

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
									Yes for 1560	Yes for 1560
A-MSDU/A-MPDU aggregation config per priority	No for 9115	No for 9115	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EDRRM - Wi-Fi	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EDRRM - Non-Wi-Fi	No	No	Yes	Yes	No	No	Yes	Yes	No for 1540; Yes for 1560	No for 1540; Yes for 1560
Configurable EDCA	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated
CleanAir /Spectrum Intelligence	No	No	CleanAir	CleanAir	Deprecated	Deprecated	CleanAir	CleanAir	SI for 1540; Clean Air for 1560	SI for 1540; Clean Air for 1560
SE Connect	No	No	Yes	Yes	No	No	Yes	Yes	No for 1540; Yes for 1560	No for 1540; Yes for 1560
Cisco DNA Center Spectrum Analyzer	NA	NA	Yes	Yes	NA	NA	Yes	Yes	No for 1540; Yes for 1560	No for 1540; Yes for 1560

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
ATF	No	No	No	No	No	No	Yes	Yes		
UL OFDMA	No for 9117	No for 9117	Yes	Yes	No	No	No	No	No	No
DL OFDMA	Yes	Yes	Yes	Yes	No	No	No	No	No	No
UL MU MIMO	No	No	Yes, for C9124/C9130	Yes, for C9124/C9130	No	No	No	No	No	No
DL MU MIMO	Yes	Yes	Yes	Yes	No	No	No	No	No	No
TWT	No for C9105/C9117	No for C9105/C9117	Yes	Yes	NA	NA	NA	NA	NA	NA
BSS Coloring	No for C9117	No for C9117	Yes	Yes	NA	NA	NA	NA	NA	NA
Wi-Fi 6 Analytics	No for C9117	No for C9117	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
iCap - Anomaly /Scheduled PCAP Capture	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
iCap - Full Packet Capture	NA	NA	Yes for C9130	Yes for C9130	NA	NA	Yes	Yes	NA	NA
iCap - Spectrum Analysis	NA	NA	Yes for 9130	Yes for 9130	NA	NA	Yes for 4800	Yes for 4800	Yes for 1560	Yes for 1560
Apple iOS Analytic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Feature S	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Control ler	ME	Contro ller	ME	Controll er	ME	Control ler	ME	Contr oller	ME
S										
Samsung Analytics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

## Security Feature Matrix (AireOS)

Table 8 Security Feature Matrix for Cisco AireOS Controllers and Cisco Mobility Express

Feature S	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Control ler	ME	Contro ller	ME	Controll er	ME	Control ler	ME	Contr oller	ME
WPA2/AES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WPA3 -	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WPA3 - Enterprise-192	No	No	No for C9120; Yes for C9130	No for C9120; Yes for C9130	No	No	No	No	No	No
TKIP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Peer-to-Peer Blocking	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wireless IDS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adaptive wIPS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ELM	No for 9115; limited support in 9117	No for 9115; limited support in 9117	Yes, but limited	Yes, but limited	Yes, but limited	Yes, but limited	Yes, but limited	Yes, but limited	Yes, but limited	Yes, but limited

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
Client Exclusion	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rogue Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11r	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11k	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11v BSS Transition Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
802.11v DMS	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No for 1540	No for 1540
PMF (802.11w)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Local Policy with QoS and AVC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TrustSec SXP, SGT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WEP	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated
Wi-Fi Direct blocking	No	No	No	No	No	No	No	No	No	No



Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
LSC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TCP MSS Adjust	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAC Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Facebook Express Wi-Fi - Web Authentication	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Facebook Express Wi-Fi - MAC Authentication	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
OKC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SKC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CCKM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NDP Encryption	Yes	Yes	No	No	Yes	Yes	No	No	No	No
Software Data DTLS Encryption	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
802.1x on AP (EAP-FAST)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
802.1x on AP (EAP-PEAP, EAP-TLS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Services Feature Matrix (AireOS)

Table 9 Services Feature Matrix for Cisco AireOS Controllers and Cisco Mobility Express

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
AVC-Mark, Drop, RL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override-VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override-ACL, QoS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override-Session Timeout	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override of AVC profile	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
AAA Override BW contract	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Local Profiling	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RADIUS Profiling	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Per-User Bandwidth Contract	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Per-SSID Bandwidth contract	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VideoStream	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAC, WMM Policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
QoS Profiles	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bonjour GW, mDNS AP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LSS	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Priority MAC	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Adaptive 11r	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fastlane	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
802.11u	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Full CCX Support	No	No	No	No	No	No	No	No	No	No
BYoD, NAC RADIUS, CWA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Infrastructure Feature Matrix (AireOS)

Table 10 Infrastructure Feature Matrix for Cisco AireOS Controllers and Cisco Mobility Express

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
CDP, LLDP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pre-image Download	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fast SSID Change	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hyperlocation	No	No	No	No	No	No	Yes for 4800	No	No	No
Fast CAPWAP Heartbeat	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
Client Packet Capture	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated	Deprecated
User idle timeout per WLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Option 60	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Passpoint	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fast Locate	No	No	Yes	No	No	No	Yes	No	Yes for 1560	No
Multicast buffer configuration per WLAN	No	No	No	No	No	No	No	No	No	No
AP Multicast	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AP Multicast Mode	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Multicast VLAN	No	No	No	No	No	No	No	No	No	No
IGMPv3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Client IPv6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AP PnP	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
FlexConnect	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
Local, Sniffer and Monitor Mode	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
RFID Tagging	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No
FIPS Certification	No for 9105	No for 9105	Yes	Yes	Yes	Yes	Yes for 2800 and 3800 (Release 8.5); No for 4800	Yes for 2800 and 3800 (Release 8.5); No for 4800	No for 1540; Yes for 1560 (Release 8.5)	No for 1540; Yes for 1560 (Release 8.5)
Native IPv6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Allow WGB Connection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Allow uWGB Connection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAPWAP VLAN Tagging	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
DHCP Option 82	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WebAuth - Internal/External	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mesh Mode	No	No	No	No	1800i, 1810, 1815w,	1800i, 1810, 1815w,	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
					1815t, 1840: No 1815i, 1815m, 1830, 1850: Yes ME (1815m): No	1815t, 1840: No 1815i, 1815m, 1830, 1850: Yes ME (1815m): No				

Note: Even though some of the AP radios do support BLE, the BLE feature itself is not supported in AireOS deployments.

## FlexConnect Feature Matrix (AireOS)

Table 11 FlexConnect Feature Matrix for Cisco AireOS Controllers and Cisco Mobility Express

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
Local Switching	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Central Switching	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
WLAN-VLAN Mapping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Local Auth w/External RADIUS Server	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Local Auth	No	No	No	No	No	No	No	No	No	No

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
internal Server										
TKIP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WPA2/AES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OEAP	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Webauth - Internal/External	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)
EoGREv4 /v6 on FlexConnect AP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN-based Central Switching	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
WIPS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
aWIPS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rogue detection and Mitigation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
n										
RLDP	No	No	No	No	No	No	No	No	No	No
CCKM Fast Roaming	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)
802.11r	Yes - ME, Flex (Central Auth) & Local Mode	Yes - ME, Flex (Central Auth) & Local Mode	Yes - ME, Flex (Central Auth) & Local Mode	Yes - ME, Flex (Central Auth) & Local Mode	Yes - ME, Flex (Central Auth) & Local Mode	Yes - ME, Flex (Central Auth) & Local Mode	Yes - ME, Flex (Central Auth) & Local Mode	Yes - ME, Flex (Central Auth) & Local Mode	Yes - ME, Flex (Central Auth) & Local Mode	Yes - ME, Flex (Central Auth) & Local Mode
Adaptive 11r	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OKC	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
AAA Override -VLAN ID	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override -VLAN Name	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)
AAA Override -ACL, QoS	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)
AAA Override -Session Timeout	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Override of AVC Profile	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
	Flex (Central Auth)	Flex (Central Auth)	Flex (Central Auth)	Flex (Central Auth)	(Central Auth)	Flex (Central Auth)	Flex (Central Auth)	Flex (Central Auth)	, Flex (Central Auth)	, Flex (Central Auth)
AAA Override Bandwidth contract	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)
VLAN ACL	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)
DNS ACL	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
L2 ACL	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)
Limit Clients per WLAN/Radio	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NetFlow Export	Yes-Flex-Central Auth, Flex-Local Auth; No-ME, Local Mode	Yes-Flex-Central Auth, Flex-Local Auth; No-ME, Local Mode	Yes-Flex-Central Auth, Flex-Local Auth; No-ME, Local Mode	Yes-Flex-Central Auth, Flex-Local Auth; No-ME, Local Mode	Yes-Flex-Central Auth, Flex-Local Auth; No-ME, Local Mode	Yes-Flex-Central Auth, Flex-Local Auth; No-ME, Local Mode	Yes-Flex-Central Auth, Flex-Local Auth; No-ME, Local Mode	Yes-Flex-Central Auth, Flex-Local Auth; No-ME, Local Mode	Yes-Flex-Central Auth, Flex-Local Auth; No-ME, Local Mode	Yes-Flex-Central Auth, Flex-Local Auth; No-ME, Local Mode
WGB	No	No	No	No	No	No	Yes	Yes	Yes for 1560	Yes for 1560
Split Tunneling	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Passive Clients	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Client exclusion	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
n										
TrustSec SXP/SGT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
QoS Markings DSCP/dot1p Markings	Yes	Yes, but no CAPW AP support on ME	Yes	Yes, but no CAPW AP support on ME	Yes	Yes, but no CAPW AP support on ME	Yes	Yes, but no CAPW AP support on ME	Yes	Yes, but no CAPW AP support on ME
CleanAir	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Native VLAN and VLAN Support on FlexConnect Group	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AVC Policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Proxy ARP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Syslog (no support for facility setting)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ClientLink	TxBF	TxBF	TxBF	TxBF	TxBF	TxBF	Yes	Yes	TxBF for 1540; Yes for	TxBF for 1540; Yes for

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
									1560	1560
Load Balancing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Band Select	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Smart AP Image Upgrade	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Default Flex Group	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NAT/PAT	Yes	No	Yes	No	Yes	Centralized NAT	Yes	Centralized NAT	Yes	Centralized NAT
Ethernet fallback	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME
PPPoE client	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME	Yes - Flex (Central Auth), Flex (Local Auth), No - Local Mode,ME

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
	E	ME	ME	ME		ME	E	E	,ME	,ME
Bidirectional rate limiting (Per Client, Per BSSID)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bidirectional rate limiting Per WLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Peer to Peer Blocking	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PMF (802.11w)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BYOD, NAC, RADIUS, CWA Flex Central Auth.	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex (Central Auth)
BYOD, NAC, RADIUS, CWA Local Auth	No - Flex (Local Auth), Yes - Local mode, ME Mode,	No - Flex (Local Auth), Yes - Local mode, ME Mode,	No - Flex (Local Auth), Yes - Local mode, ME Mode,	No - Flex (Local Auth), Yes - Local mode, ME Mode,	No - Flex (Local Auth), Yes - Local mode, ME Mode, Flex	No - Flex (Local Auth), Yes - Local mode, ME Mode,	No - Flex (Local Auth), Yes - Local mode, ME Mode,	No - Flex (Local Auth), Yes - Local mode, ME Mode,	No - Flex (Local Auth), Yes - Local mode, ME Mode,	No - Flex (Local Auth), Yes - Local mode, ME Mode,

Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
	Flex (Central Auth)	Flex (Central Auth)	Flex (Central Auth)	Flex (Central Auth)	(Central Auth)	Flex (Central Auth)	Flex (Central Auth)	Flex (Central Auth)	Flex (Central Auth)	Flex (Central Auth)
MAC Authentication Flex Central Auth	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)
MAC Authentication Flex Local Auth	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)	No - Flex (Local Auth) Yes - Local Mode, ME, Flex (Central Auth)
GTK Randomization	No	No	No	No	No	No	No	No	No	No
VideoStream	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multicast Direct	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Data DTLS Encrypti	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



Features	CAT9105/9115/9117		CAT9120/9130		AP18xx		AP4800/3800/2800		AP1560/1540	
	Controller	ME	Controller	ME	Controller	ME	Controller	ME	Controller	ME
on										
Umbrella	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WSA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TLS Tunnel	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
mDNS	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No

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