

ME and EWC Feature Comparison Matrix

This document lists support and comparison information for various features in Mobility Express (ME) and Embedded Wireless Controller (EWC) on the Cisco Catalyst 9100 Series Access Points in Cisco IOS XE releases.

This document is updated for Cisco IOS XE Amsterdam 17.1.1

Category	Features	Platform	
		ME	EWC (on C9100)
Management	WebUI	YES	16.12.2
	Mobile App	YES (Cisco Wireless)	16.12.2 (Cisco Catalyst Wireless)
	Prime Infrastructure	YES	NO
	DNA Center (Appliance)	YES	16.12.2
	Programmability (Netconf+Yang)	NO	16.12.2
	SNMP	YES	NO
AP Modes	Local Mode	NO	NO
	Flexconnect Mode	YES	16.12.2
	Mesh Mode	YES	NO
	Sniffer Mode	NO	NO
	Monitor Mode	NO	16.12.2
Infrastructure	CDP, LLDP	YES	NO
	AP PnP	YES (not for AP1540/1560)	16.12.2
	Pre-Image Download	YES	16.12.2
	Client IPv6	YES	16.12.2
	Native IPv6	YES	16.12.2
	FIPS Certification	Yes (2800/3800/1560 - 8.5)	NO
	Internal DHCP Server (For Site Survey Usecase)	YES	16.12.2
	DHCP Option 82	YES	16.12.2
Security & Authentication	WPA-PSK	YES	16.12.2
	802.1x (WPA2 / AES)	YES	16.12.2
	802.1x (WPA2 / TKIP)	YES	16.12.2
	WPA3	YES	16.12.2
	Identity PSK	YES	16.12.2
	multiPSK (mPSK) on single SSID	NO	16.12.2
	Internal Webauth	YES	16.12.2
	External Webauth	YES	16.12.2
Central Webauth	YES	16.12.2	

	DNS Pre-Auth ACL	YES	16.12.2
	WEP	Deprecated	Deprecated
	Peer-to-Peer Blocking	YES	16.12.2
	802.11r	YES	16.12.2
	802.11k	YES	16.12.2
	802.11v BSS Transition Management	YES	16.12.2
	802.11v DMS	YES	16.12.2
	RLAN Guest	YES	16.12.2
	WLAN to VLAN mapping	YES	16.12.2
	TACACS	YES	16.12.2
	Radius Server per WLAN	YES	16.12.2
	Backup Radius Servers	YES	16.12.2
	CCKM	YES	16.12.2
	User idle timeout per WLAN	YES	16.12.2
Services	AVC–Mark, Drop, RL	YES	16.12.2
	AAA Override–VLAN	YES	16.12.2
	AAA Override– ACL, QoS	YES	16.12.2
	AAA Override– Session Timeout	YES	16.12.2
	AAA Override BW contract	YES	16.12.2
	Local Profiling	YES	16.12.2
	RADIUS Profiling	YES	16.12.2
	Per-User Bandwidth Contract	YES	16.12.2
	Per-SSID Bandwidth contract	YES	16.12.2
	VideoStream	YES	16.12.2
	CAC, WMM Policy	YES	16.12.2
	Adaptive 11r	YES	16.12.2
	Fastlane	YES	16.12.2
	MAC Authentication	YES	16.12.2
	802.11u	YES	NO
	mDNS Policy	YES	NO
	DNS ACL	YES	16.12.2
	Capwap-mode to Controller-mode Conversion	YES	16.12.2
	Efficient AP join	YES	16.12.2
	Software Update via SFTP/TFTP/HTTP/CCO	YES	16.12.2
	Rogue Detection	YES	16.12.2
	Passive Clients	YES	16.12.2
	Schedule WLAN	YES	16.12.2

	mDNS	YES	17.3.1
	Deny Wireless Client Session Establishment Using Calendar Profiles	YES	17.1.1s
	RadSec (DTLS)	YES	16.12.2
RF and Radio	RRM-DCA, TPC, CHDM	YES	16.12.2
	FRA	YES	16.12.2
	Band Select	YES	16.12.2
	Load Balancing	YES	16.12.2
	RF Profiles	YES	16.12.2
	Optimized Roaming	YES	16.12.2
	RX-SOP	YES	16.12.2
	DBS	YES	16.12.2
	Off-channel Scanning	YES	16.12.2
	Off-channel Scan Defer	YES	16.12.2
	Flex-DFS	YES	16.12.2
	ClientLink	YES	16.12.2
	A-MSDU/A-MPDU aggregation config per priority	YES	16.12.2
	UL OFDMA	NA	16.12.2
	DL OFDMA	NA	16.12.2
	TWT	NA	YES for 9130
BSS Coloring	NA	17.1.1s	
Resiliency	High Availability	YES	16.12.2 (Active/Standby pre-elected)
	Force Failover to Specific Master	YES	16.12.2
	Preferred Master	YES	16.12.2
	Hot / Cold Patching	NO	17.1.1s
	AP Service Pack (APSP)	NO	17.1.1s
	AP Device Pack (APDP)	NO	17.1.1s
Solution Integration	Cisco Umbrella	YES	17.1.1s
	aWIPS	NO	17.1.1s
	CMX/DNA Spaces - location analytics	YES	16.12.2
	CMX/DNA Spaces - Captive Portal	YES	16.12.2

