Embedded Wireless Controller (EWC) on Catalyst APs Feature List per Release

Contents

Introduction

This document describes the features supported on Embedded Wireless Controllers on Catalyst 9100 Series APs

Features in each Cisco IOS XE release

Each feature is only mentioned in the release it was first introduced with subsequent releases only listing changes to the given feature.

There are no further releases for EWC after the 17.15 branch. Later branches are not available anymore for EWC. See the end of life notice : EOS/EOL

IOS-XE 17.15.2

- Support for Cisco Catalyst 9124AX Series Outdoor Access Point in Morocco

IOS-XE 17.15.1

- SuiteB-1X and SuiteB-192-1X Support in FlexConnect Mode for WPA2 and WPA3
- Wi-Fi Protected Access (WPA3) Security Enhancements for Access Points
- Tier B/C/D Country Support for Cisco Catalyst 9124 Outdoor Access Points

IOS-XE 17.14.1

- CAPWAP messages aggregation. This feature aggregates the CAPWAP control messages of the same type waiting in the queue to be transmitted to the AP.
- the Kernel Minidump and Trustzone Upgrade feature offers a more effective method for diagnosing kernel issues.
- Radio Resource Management (RRM) Dynamic Channel Assignment (DCA) Support on Mesh Backhaul
- YANG RPC Support for clear aaa counters and clear radius statistics Commands.

IOS-XE 17.13.1

- Cisco Aironet Wave 2 and Catalyst Access Point Image Management

Dublin 17.12.1

- Archive logs less than 1 day
- Reduction of the scale on all models to 50 APs and 1000 clients
- FIPS 140-3 Compliance

- Improve Crash Data Collection, Kernel Panics, Out of Memory
- Intelligent Capture (iCAP) Hardening
- MacBook Analytics
- Mesh Support in Cisco Catalyst 9130AX Series Access Points
- Rogue Channel Width
- Rogue PMF
- Software Entropy Enhancement for FIPS 140-3

Dublin 17.11.1

- Wireless Client Latency Statistics
- RAP Ethernet Daisy Chain with WSTP
- User-Configurable Ethernet Port LEDs
- Secure Data Wipe
- RFID Hardening
- Reload Reason History
- New AAA Command
- Multiauthentication Combination of 802.1X and Local Web Authentication
- Jumbo Frame Support for RADIUS Packets
- Convert Redundant 2.4-GHz Radios to Monitor Mode
- Built-in Captive Portal Improvements
- Background Scanning and MAP Fast Ancestor Find Mode

Dublin 17.10.1

- Cisco DNA Center Client Event and SSID Telemetry Filter
- Device Classifier Dynamic XML Support
- Device Telemetry
- DNS or DHCP or AAA Server Reachability Through IPSLA and Failure Reasons for DHCP
- Downloadable ACL (Central Switching Only)
- Site Load Balancing
- Support for 4 FNF Monitors
- Upgrade YANG Models to YANG 1.1
- Device Ecosystem Data
- Workgroup Bridge Mode on Cisco Catalyst 9124 and 9130 Series Access Points

Cupertino 17.9.1

- RUM Report Throttling
- Mesh Backhaul RRM Support
- Zero Wait Dynamic Frequency Selection

Cupertino 17.8.1

- Simplifying WGB Configuration
- Base WGB on Indoor 11ax APs
- Automated Software Download Version 4 (ASDv4) Migration

Cupertino 17.7.1

- Guest Anchor with Centralized EoGRE
- Fast Teardown for a Mesh Access Point
- Smart Licensing Using Policy: Factory-installed Trust Code

- Smart Licensing Using Policy: Support for Trust Code in Additional Topologies
- Smart Licensing Using Policy: RUM Report Optimization and Availability of Statistics
- Smart Licensing Using Policy: Support to Collect Software Version Through Smart License Agent
- Smart Licensing Using Policy: Account Information Included in the ACK and show command outputs
- Smart Licensing Using Policy: CSLU Support for Linux
- Support for Federal Information Processing Standard (FIPS) Mode in Mesh Access Points
- Wi-Fi Protected Access 3 Hash-to-Element (H2E) Support for SAE Authentication

Bengaluru - 17.6.3

- Automated Software Download Version 4 (ASDv4) Migration

Bengaluru - 17.6.2

- Embedded Wireless Controller (EWC) support for Cisco Catalyst 9124AXI/D/E Outdoor Access Points (incl. mesh)

Bengaluru - 17.6.1

- Access Point Tag Persistency
- AP Group NTP Server
- IPv6 Ready Certification
- MAC Address Consistency (The format of the MAC addresses of some of the fields in these CLIs are updated from *xx:xx:xx:xx:xx* to *xxxx.xxxx.xxxx*.)
- Regulatory Compliance (Rest of World) for Domain Reduction
- Mesh Support for Cisco Catalyst 9124AXI/D Outdoor Access Points
- Mesh support on Cisco Catalyst Wireless Mobile Application
- Support for WiFi6 Pluggable Module in EWC
- Embedded Wireless Controller (EWC) support for Cisco Catalyst 9124AXI/D Outdoor Access Points

Bengaluru - 17.5.1

- Support for Self-Identifable Antennas
- Enable or Disable 11ax Features per SSID
- Track AP CPU Usage for AP Health
- Support for both MIC and LSC APs to Join the Same Controller
- Intermediate CA Support for AP Authentication

Bengaluru - 17.4.1

- Custom webauth bundle is now copied to the standby EWC as well
- Enabling USB Port on Access Points
- User and Entity Behavior Analysis
- Support of Embedded Wireless Controller to run on 9105 APs
- end of support of 11ac wave 1 access points

Amsterdam - 17.3.2

- Smart Licensing using Policy

Amsterdam - 17.3.1

- Both Uplink and Downlink Orthogonal frequency-division multiple access (UL OFDMA and DL OFDMA) features are supported in Cisco Catalyst 9130 APs in this release. Currently limited to support eight users in a DL OFDMA or UL OFDMA transmission. In this release, 37 users are supported in the 80-MHz and 160-MHz bandwidths.
- Uplink Multi-user multiple-input and multiple-output (UL MU MIMO) feature is supported in Cisco Catalyst 9130 APs in this release.
- mDNS gateway support
- AP image predownload status enhancement
- Certificate management enhanced page
- Web UI Dark mode
- 9105 AP support

Amsterdam - 17.2.1

- Workgroup bridge Client support on EWC-AP
- Flexible Netflow Exporter
- WLAN webUI Simplification - only mandatory settings under Basic Setup
- Aironet IE support
- SMU: APSP pack is not supported

Amsterdam - 17.1.1s

- Software upgrade from cisco.com repository
- Support for SCP and SFTP as methods to upload core files
- Periodic scheduled download of controller configuration
- AP device pack support
- Ipv6 support
- HTTPS, DNS and URL filtering support for ACLs
- Day0 PnP configuration download support
- Controller Software Maintenance Package support for the Controller
- Support for Natting wireless clients through a Primary AP
- TLS 1.2 support for local EAP authentication
- Support for Umbrella integration

Gilbraltar - 16.12.4a

- There are no new features in this release

Gilbraltar - 16.12.3

- There are no new features in this release

Gilbraltar - 16.12.2s

First release to support Embedded Wireless Controller on Catalyst APs