



# Wi-Fi CERTIFIED® Certificate



This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: [www.wi-fi.org](http://www.wi-fi.org)

**Certification ID: WFA130546**

## Product Info

<b>Date of Certification</b>	March 26, 2024
<b>Company</b>	Cisco Systems Inc.
<b>Product Name</b>	Cisco Catalyst 9800 Cloud Wireless Controller and Cisco IW9165 AP
<b>Product Model Variant</b>	Cisco IOS XE: 17.14
<b>Model Number</b>	C9800-CL and IW9165
<b>Category</b>	Routers
<b>Sub-category</b>	Enterprise/Service Provider Access Point, Switch/Controller or Router

## Summary of Certifications

CLASSIFICATION	CERTIFICATION
<b>Network management</b>	WMM® WMM®-Power Save Wi-Fi Agile Multiband™
<b>Security</b>	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2022-12 WPA3™-Personal 2022-06 Wi-Fi Enhanced Open™ 2021-01
<b>Wi-Fi (MAC/PHY)</b>	5 GHz Spectrum Capabilities 6 GHz Spectrum Capabilities Spectrum & Regulatory Wi-Fi CERTIFIED 6® Release 2 Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ n

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Role: Access Point

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## Wi-Fi Components

### Wi-Fi Component Operating System

Linux, Version: 17.14

### Wi-Fi Component Firmware

17.14

### RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
5 GHz	2	2
6 GHz	2	2

## Certifications

### 5 GHz Spectrum Capabilities

20 MHz Channel Width in 5 GHz  
 40 MHz Channel Width in 5 GHz  
 80 MHz Channel Width in 5 GHz

### 6 GHz Spectrum Capabilities

Standard power  
 20 MHz Channel Width in 6 GHz  
 40 MHz Channel Width in 6 GHz  
 80 MHz Channel Width in 6 GHz  
 160 MHz Channel Width in 6 GHz

### Protected Management Frames

### Spectrum & Regulatory

802.11d  
 802.11h

### WMM®

### WMM®-Power Save

### WMM®-Power Save (continued)

Legacy Power Save  
 Unschedule auto PS

### WPA2™-Enterprise 2018-04

EAP methods

### WPA2™-Personal 2021-01

### WPA3™-Enterprise 2022-12

EAP methods  
 192-bit security  
 Fast Transition OTA on WPA3-Enterprise  
 Fast Transition OTA on WPA3-Enterprise transition mode  
 Fast Transition OTDS on WPA3-Enterprise

### WPA3™-Personal 2022-06

Fast Transition OTA on WPA3-Personal  
 Fast Transition OTA on WPA3-Personal transition mode  
 Fast Transition OTDS on WPA3-Personal

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## Wi-Fi Agile Multiband™

Automatically populate BSS Transition candidate list  
Fast Transition OTA on WPA2-Enterprise  
Fast Transition OTA on WPA2-Personal

## Wi-Fi CERTIFIED 6® Release 2

A-MPDU with A-MSDU  
Beamforming sounding  
BSRP Trigger frame  
Compressed Block Ack Rx (buffer size 256)  
Compressed Block Ack Tx (buffer size 256)  
DL MU-MIMO  
DL OFDMA  
Individual Target Wake Time  
LDPC Rx  
LDPC Tx  
MCS 8-9 Rx  
MCS 8-9 Tx  
MCS 10-11 Rx  
MCS 10-11 Tx  
MU EDCA Parameter Set element  
MU-BAR Trigger frame  
MU-RTS Trigger frame  
Operating mode subfield in A-Control field  
Operating mode indication  
Operating mode UL MU Rx  
SU beamformer  
SU-MIMO  
UL OFDMA  
Wi-Fi 6E  
    Co-located BSS  
Wi-Fi 6 Release 2 features  
    UL MU-MIMO  
    UL MU Control  
    UL Extended Range

## Wi-Fi CERTIFIED 6® Release 2 (continued)

Target Wake Time information frames  
Extended sleep

## Wi-Fi CERTIFIED™ a

## Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU  
DL MU-MIMO  
Extended 5 GHz Channel Support  
LDPC Rx  
LDPC Tx  
MCS 8-9 Rx  
RTS with BW Signaling  
Short Guard Interval  
STBC  
SU beamformer

## Wi-Fi CERTIFIED™ n

A-MPDU Tx  
OBSS on Extension Channel  
Short Guard Interval  
STBC

## Wi-Fi Enhanced Open™ 2021-01

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