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Cisco Aironet 1815m Access Point

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Ideal for networks in dense buildings, the Cisco Aironet® 1815m Access Point brings a higher power option and full slate of Cisco® high-performance functions to the enterprise environment.

Product overview

With more transmit power than the other access points in its family, the Cisco Aironet 1815m supports a larger coverage area with fewer access points. In addition, the 1815m delivers industry-leading wireless performance with support for the latest Wi-Fi standard, the IEEE's new 802.11ac Wave 2 standard. The 1815m extends support to a new generation of Wi-Fi clients, such as smartphones, tablets, and high-performance laptops that have integrated 802.11ac Wave 1 or Wave 2 support.

With the increased coverage area, 802.11ac Wave 2 support, and the functions and features of an enterprise-level access point, the 1815m fully meets the growing requirements of wireless networks by delivering a better user experience (Figure 1).



Figure 1.
Cisco Aironet 1815m

Features and benefits

By adhering to the 802.11ac Wave 2 standard, the 1815m provides a data rate of up to 867 Mbps on the 5-GHz radio. This rate exceeds the data rates offered by access points that support the 802.11n standard. It also enables a total aggregate dual-radio data rate of up to 1 Gbps, allowing for the necessary foundation for enterprise and service provider networks to stay ahead of the performance expectations and needs of their wireless users.

In recent years, corporate users have increasingly preferred wireless access as the form of network connectivity because of its convenience. With this shift, there is an expectation that wireless should not slow down users' day-to-day work, but should enable a high-performance experience. The 1815m delivers industry-leading performance with highly secure and reliable wireless connections, providing a robust mobility end-user experience.

With the 1815m, you can secure remote workers or the micro-office. Any Cisco Aironet or Catalyst access point can function as an Office Extend Access Point (OEAP). With an OEAP, an employee at home or in a temporary micro-office will have access to the corporate SSID and the corporate network without the need to set up a VPN or have any advanced technical know-how.

Cisco User Defined Network, a feature available in Cisco DNA Center, allows IT to give end users control of their very own wireless network partition on a shared network. End users can then remotely and securely deploy their devices on this network. Perfect for university dormitories or extended hospital stays, Cisco User Defined Network grants both device security and control, allowing each user to choose who can connect to their network. (Available second half of calendar year 2020.)

The Wi-Fi 6 readiness dashboard is a new dashboard in the Assurance menu of Cisco DNA Center. It will look through the inventory of all devices on the network and verify device, software, and client compatibility with the new Wi-Fi 6 standard. After upgrading, advanced wireless analytics will indicate performance and capacity gains as a result of the Wi-Fi 6 deployment. This is an incredible tool that will help your team define where and how the wireless network should be upgraded. It will also give you insights into the access point distribution by protocol (802.11 ac/n/abg), wireless airtime efficiency by protocol, and granular performance metrics.

Table 1 lists the features and benefits of the Cisco Aironet 1815m.

Table 1. Cisco Aironet 1815m

Feature	Benefit
Higher Tx power	With more than 3 dB (twice the transmit power) than the 1815i, the 1815m can penetrate walls and doors, making it ideal for deployment in hotels, dorm rooms, or other dense building locations.
MU-MIMO	Multiuser (MU) Multiple-Input, Multiple-Output (MU-MIMO) allows simultaneous data transmission of data to multiple 802.11ac Wave 2-capable clients to improve the client experience. Prior to MU-MIMO, 802.11n and 802.11ac Wave 1 access points could transmit data to only one client at a time. This transmission was typically referred to as Single-User MIMO (SU-MIMO).
Cisco Mobility Express Solution	Flexible deployment mode through the Mobility Express Solution is ideal for small to medium-sized deployments that require 50 or fewer access points. Easy setup allows deployment of the 1815m on networks without a physical controller.
Integrated Bluetooth 4.1	Integrated Bluetooth Low-Energy (BLE) 4.1 radio will be used for location and asset tracking (future availability).

Prominent feature, differentiator, and capability

- **Increased wireless performance:** The Aironet® 1815m Access Point supports the latest 802.11ac Wave 2 standard for higher performance, greater access, and higher-density networks. With simultaneous dual radios and dual band with 802.11ac Wave 2 MU-MIMO functions, this access point can handle the increasing number of high-bandwidth devices that will soon become a common part of the network.
- **Wired access:** The 1815m allows wired access through a single RJ-45 10/100/1000 autodetection port. It supports full operation modes using Power over Ethernet (PoE) 802.3af power.
- **Mounting:** These sleek access points with a small form factor are designed with flexible mounting options in mind, with support for placement on either ceilings or walls.

Product specifications

Table 2 lists the general specifications for the Cisco Aironet 1815m Access Point, and Table 3 lists the RF specifications.

Table 2. Specifications

Item	Specification
Authentication and security	<ul style="list-style-type: none"> • Advanced Encryption Standard (AES) for Wi-Fi Protected Access 3 (WPA3), WPA2, WPA • 802.1X, RADIUS Authentication, Authorization, and Accounting (AAA) • 802.11r • 802.11i
Software	<ul style="list-style-type: none"> • Cisco Unified Wireless Network Software with AireOS Wireless Controllers Release 8.5.103/85CCO or later • Cisco Mobility Express
Supported WLAN controllers	<ul style="list-style-type: none"> • Cisco 2500 Series Wireless Controllers, Cisco 3500 Series Wireless Controllers, Cisco Wireless Controller Module for ISR G2, Cisco Wireless Services Module 2 (WiSM2) for Catalyst® 6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco Flex® 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco 9800 series Wireless Controllers • Cisco Mobility Express
Maximum clients	<ul style="list-style-type: none"> • Maximum number of associated wireless clients: 200 per Wi-Fi radio, in total 400 clients per access point
802.11ac	<ul style="list-style-type: none"> • 2 x 2 single-user/multiuser MIMO with two spatial streams • Maximal Ratio Combining (MRC) • 20-, 40-, and 80-MHz channels • PHY data rates up to 866.7 Mbps (80 MHz on 5 GHz) • Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Rx) • 802.11 Dynamic Frequency Selection (DFS) • Cyclic Shift Diversity (CSD) support
Ethernet ports	<ul style="list-style-type: none"> • Authentication with 802.1X or MAC filtered • Dynamic VLAN or per port • Traffic locally switched or tunneled back to wireless LAN controller
Bluetooth (future availability)	<ul style="list-style-type: none"> • Integrated Bluetooth 4.1 (including BLE) radio • Maximum transmit power: 4 dBm • Antenna gain: 2 dBi

Item	Specification							
Data rates supported	802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps							
	802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps							
	802.11n data rates on 2.4 GHz							
	MCS Index ¹	GI ² = 800 ns				GI = 400 ns		
		20-MHz Rate (Mbps)				20-MHz Rate (Mbps)		
	0	6.5				7.2		
	1	13				14.4		
	2	19.5				21.7		
	3	26				28.9		
	4	39				43.3		
	5	52				57.8		
	6	58.5				65		
	7	65				72.2		
	8	13				14.4		
	9	26				28.9		
	10	39				43.3		
	11	52				57.8		
	12	78				86.7		
	13	104				115.6		
	14	117				130		
	15	130				144.4		
	802.11ac data rates on 5 GHz							
	MCS Index	Spatial Streams	GI = 800 ns			GI = 400 ns		
20-MHz Rate (Mbps)			40-MHz Rate (Mbps)	80-MHz Rate (Mbps)	20-MHz Rate (Mbps)	40-MHz Rate (Mbps)	80-MHz Rate (Mbps)	
0	1	6.5	13.5	29.3	7.2	15	32.5	
1	1	13	27	58.5	14.4	30	65	

Item	Specification							
	2	1	19.5	40.5	87.8	21.7	45	97.5
	3	1	26	54	117	28.9	60	130
	4	1	39	81	175.5	43.3	90	195
	5	1	52	108	234	57.8	120	260
	6	1	58.5	121.5	263.3	65	135	292.5
	7	1	65	135	292.5	72.2	150	325
	8	1	78	162	351	86.7	180	390
	9	1	-	180	390	-	200	433.3
	0	2	13	27	58.5	14.4	30	65
	1	2	26	54	117	28.9	60	130
	2	2	39	81	175.5	43.3	90	195
	3	2	52	108	234	57.8	120	260
	4	2	78	162	351	86.7	180	390
	5	2	104	216	468	115.6	240	520
	6	2	117	243	526.5	130	270	585
	7	2	130	270	585	144.4	300	650
	8	2	156	324	702	173.3	360	780
	9	2	-	360	780	-	400	866.7
Maximum number of non-overlapping channels	A (A regulatory domain): <ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) • 5.745 to 5.825 GHz; 5 channels B (B regulatory domain): <ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.720 GHz; 12 channels • 5.745 to 5.825 GHz; 5 channels C (C regulatory domain): <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.825 GHz; 5 channels 				K (K regulatory domain): <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.620 GHz; 7 channels • 5.745 to 5.805 GHz; 4 channels N (N regulatory domain): <ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels Q (Q regulatory domain): <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 11 channels 			

Item	Specification	
	<p>D (D regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels <p>E (E regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) <p>F (F regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.250 to 5.350 GHz; 4 channels • 5.725 to 5.825 GHz; 4 channels <p>G (G regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.865 GHz; 7 channels <p>H (H regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels <p>I (I regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels 	<p>R (R regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.660 to 5.700 GHz; 3 channels • 5.745 to 5.805 GHz; 4 channels <p>S (S regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 11 channels • 5.745 to 5.825 GHz; 5 channels <p>T (T regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels • 5.280 to 5.320 GHz; 3 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) • 5.745 to 5.825 GHz; 5 channels <p>Z (Z regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) • 5.745 to 5.825 GHz; 5 channels
Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.		
Available transmit power settings	<p>2.4 GHz</p> <ul style="list-style-type: none"> 27 dBm (500 mW) 24 dBm (250 mW) 21 dBm (125 mW) 18 dBm (63 mW) 15 dBm (32 mW) 12 dBm (16 mW) 9 dBm (8 mW) 6 dBm (4 mW) 	<p>5 GHz</p> <ul style="list-style-type: none"> 24 dBm (250 mW) 21 dBm (125 mW) 18 dBm (63 mW) 15 dBm (32 mW) 12 dBm (16 mW) 9 dBm (8 mW) 6 dBm (4 mW) 3 dBm (2 mW)
Note: The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.		
Integrated antennas	<ul style="list-style-type: none"> • 2.4 GHz, gain 2 dBi • 5 GHz, gain 4 dBi 	
Interfaces	<ul style="list-style-type: none"> • 1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE) • Management console port (RJ-45) 	

Item	Specification
Indicators	<ul style="list-style-type: none"> • Status LED indicates boot loader status, association status, operating status, boot loader warnings, and boot loader errors
Dimensions (W x L x H)	<ul style="list-style-type: none"> • Access point (without mounting bracket): 6 x 6 x 1.3 in. (150.8 x 150.8 x 33mm)
Weight	<ul style="list-style-type: none"> • Access point without mounting bracket or any other accessories: 1.01 lb (460 grams)
Environmental	<ul style="list-style-type: none"> • Operating <ul style="list-style-type: none"> ◦ Temperature: 32° to 104°F (0° to 40° C) ◦ Humidity: 10% to 90% (noncondensing) ◦ Max. altitude: 9,843 ft (3,000m) @ 40°C • Nonoperating (storage and transportation) <ul style="list-style-type: none"> ◦ Temperature: -22° to 158°F (-30° to 70° C) ◦ Humidity: 10% to 90% (noncondensing) ◦ Max. altitude: 15,000 ft (4,500m) @ 25°C
System	<ul style="list-style-type: none"> • 1-GB DRAM • 256-MB flash memory • 710-MHz quad-core
Input power requirements	<ul style="list-style-type: none"> • 802.3af or 802.3at power
Powering options	<ul style="list-style-type: none"> • 802.3af/at Ethernet switch • Optional Cisco power injectors (AIR-PWRINJ5=, AIR-PWRINJ6=)
Power draw	<ul style="list-style-type: none"> • Max power draw is 13.9W with 100 meters Category 5 cable
Physical security	<ul style="list-style-type: none"> • Torx security screw, included with the access point
Mounting	<ul style="list-style-type: none"> • Included with the access point: mounting bracket AIR-AP-BRACKET-8
Accessories	<ul style="list-style-type: none"> • Mounting bracket: AIR-AP-BRACKET-8= (available as spare) • Physical security kit: AIR-SEC-50= (sold separately), with 50 pcs. security screws used to secure the access point onto wall-mounting bracket, 50 pcs. RJ-45 caps and 2 pcs. unlock keys used to block physical access to Ethernet ports
Warranty	<p>Limited Lifetime Hardware Warranty</p>
Compliance	<ul style="list-style-type: none"> • Safety: <ul style="list-style-type: none"> ◦ UL 60950-1 ◦ CAN/CSA-C22.2 No. 60950-1 ◦ UL 2043 ◦ IEC 60950-1 ◦ EN 60950-1 • Radio approvals: <ul style="list-style-type: none"> ◦ FCC Part 15.247, 15.407 ◦ RSS-247 (Canada) ◦ EN 300.328, EN 301.893 (Europe) ◦ ARIB-STD 66 (Japan) ◦ ARIB-STD T71 (Japan) ◦ EMI and susceptibility (Class B) ◦ FCC Part 15.107 and 15.109 ◦ ICES-003 (Canada) ◦ VCCI (Japan) ◦ EN 301.489-1 and -17 (Europe) ◦ EN 50385

Item	Specification
	<ul style="list-style-type: none"> • IEEE standards: <ul style="list-style-type: none"> ◦ IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d ◦ IEEE 802.11ac • Security: <ul style="list-style-type: none"> ◦ 802.11i, WPA3, WPA2, WPA ◦ 802.1X ◦ AES • Extensible Authentication Protocol (EAP) types: <ul style="list-style-type: none"> ◦ EAP-Transport Layer Security (TLS) ◦ EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2) ◦ Protected EAP (PEAP) v0 or EAP-MSCHAPv2 ◦ EAP-Flexible Authentication via Secure Tunneling (FAST) ◦ PEAP v1 or EAP-Generic Token Card (EAP-GTC) ◦ EAP-Subscriber Identity Module (EAP-SIM) • Multimedia: <ul style="list-style-type: none"> ◦ Wi-Fi Multimedia (WMM) • Other: <ul style="list-style-type: none"> ◦ FCC Bulletin OET-65C ◦ RSS-102

¹ MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, modulation, coding rate, and data rate values.

² A Guard Interval (GI) between symbols helps receivers overcome the effects of multipath delay spreads.

Table 3. RF specifications

Transmit power and receive sensitivity (1815 m)					
	Spatial Streams	2.4-GHz Radio		5-GHz Radio	
		Total TX Power (dBm)	RX Sensitivity (dBm)	Total TX Power (dBm)	RX Sensitivity (dBm)
802.11/11b					
1 Mbps	1	27	-100	-	-
11 Mbps	1	27	-91	-	-
802.11a/g					
6 Mbps	1	27	-95	24	-93
24 Mbps	1	27	-89	24	-86
54 Mbps	1	25	-79	24	-77
802.11n HT20					
MSC0	1	27	-94	24	-92
MSC4	1	27	-84	24	-81

Transmit power and receive sensitivity (1815 m)

	Spatial Streams	2.4-GHz Radio		5-GHz Radio	
		Total TX Power (dBm)	RX Sensitivity (dBm)	Total TX Power (dBm)	RX Sensitivity (dBm)
MSC7	1	25	-76	23	-74
MSC8	2	27	-93	24	-91
MSC12	2	27	-82	24	-79
MSC15	2	25	-74	23	-72
802.11n HT40					
MCS0	1			24	-89
MCS4	1			24	-78
MCS7	1			23	-71
MCS8	2			24	-88
MCS12	2			24	-76
MCS15	2			23	-69
802.11ac VHT20					
MCS0	1			24	-92
MCS4	1			24	-81
MCS7	1			21	-74
MCS8	1			20	-70
MCS0	2			24	-91
MCS4	2			24	-79
MCS7	2			21	-72
MCS8	2			20	-68
802.11ac VHT40					
MCS0	1			24	-89
MCS4	1			24	-78
MCS7	1			21	-71
MCS8	1			20	-67

Transmit power and receive sensitivity (1815 m)

	Spatial Streams	2.4-GHz Radio		5-GHz Radio	
		Total TX Power (dBm)	RX Sensitivity (dBm)	Total TX Power (dBm)	RX Sensitivity (dBm)
MCS9	1			20	-65
MCS0	2			24	-88
MCS4	2			24	-76
MCS7	2			21	-69
MCS8	2			20	-65
MCS9	2			20	-63
802.11ac VHT80					
MCS0	1			24	-86
MCS4	1			23	-75
MCS7	1			21	-68
MCS8	1			20	-64
MCS9	1			20	-61
MCS0	2			24	-85
MCS4	2			23	-73
MCS7	2			21	-66
MCS8	2			20	-62
MCS9	2			20	-59

Note: The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.

Ordering information

Table 4 provides ordering information for the Cisco Aironet 1815m Access Point. To place an order, visit the [Cisco Ordering Home Page](#). To download software, visit the [Cisco Software Center](#).

Table 4. Ordering Information

Product Name	Part Number
Cisco Aironet 1815m	<ul style="list-style-type: none">• AIR-AP1815m-x-K9: Cisco Aironet 1815m, Reg Domain x• AIR-AP1815m-x-K9C: Cisco Aironet 1815m with Mobility Express, Reg Dom. x<ul style="list-style-type: none">◦ Regulatory domains: (x = regulatory domain)◦ For Mobility Express, part number AIR-AP1815m-x-K9C offers default software option Mobility Express <p>Customers are responsible for verifying approval for use in their individual countries. To verify approval that corresponds to a particular country or the regulatory domain used in a specific country, visit https://www.cisco.com/go/aironet/compliance.</p> <p>Not all regulatory domains have been approved. As they are approved, the part numbers will be available on the Global Price List.</p>

Cisco Wireless LAN Services

Realize the full business value of your technology investments faster with intelligent, customized services from Cisco. Backed by deep networking expertise, Cisco Wireless LAN Services enable you to deploy a sound, scalable mobility network that enables rich media collaboration while improving the operational efficiency gained from a converged wired and wireless network infrastructure based on the Cisco Unified Wireless Network. We offer expert advisory, implementation and optimization services to accelerate your transition to advanced mobility services while continuously optimizing the performance, reliability, and security of that architecture after it is deployed. In addition, Smart Net Total Care service helps you protect your investment and derive maximum value from your Cisco products.

Delivered by Cisco and backed by your trusted partner, this comprehensive service includes access to the Cisco Technical Assistance Center 24 hours a day, 365 days a year, IOS software updates, online resources, and expedited hardware replacement when needed. The Smart Net Total Care service helps you solve problems faster, improve operational efficiency, and reduce the risk of downtime. For more details, visit: <https://www.cisco.com/c/en/us/products/wireless/service-listing.html>.

Cisco Wireless LAN Services

- AS-WLAN-CNSLT: [Cisco Wireless LAN Network Planning and Design Service](#)
- AS-WLAN-CNSLT: [Cisco Wireless LAN 802.11n Migration Service](#)
- AS-WLAN-CNSLT: [Cisco Wireless LAN Performance and Security Assessment Service](#)

Licensing

In order to connect any access points to the **controller**, Cisco DNA software subscriptions are required. To be entitled to connect to a Cisco Catalyst 9800 Series Wireless Controller, the access point requires a Cisco DNA subscription license.

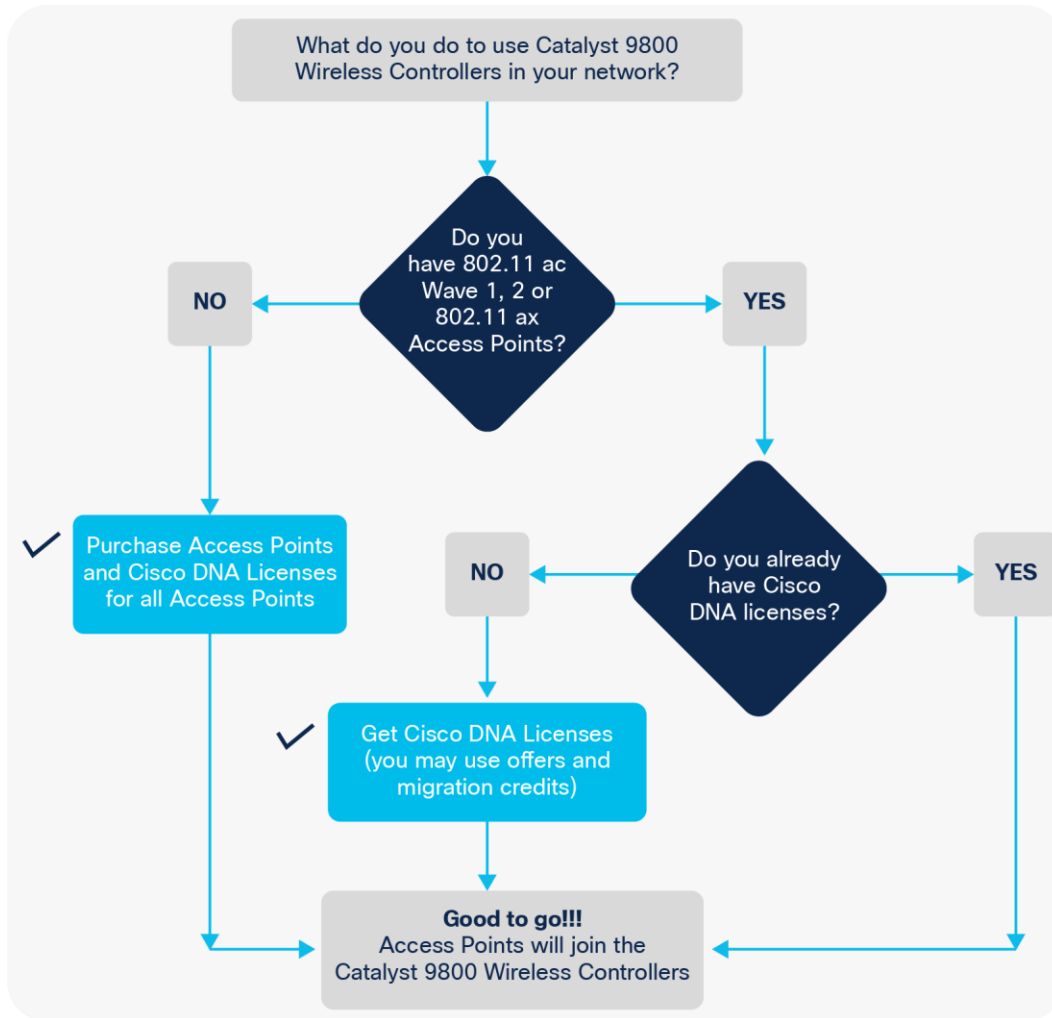


Figure 2.

Determining license requirements for access points connecting to Cisco Catalyst 9800 Series Wireless Controllers

Access points connecting to a Cisco Catalyst 9800 Series controller have new and simplified software subscription packages.

They can support three tiers of Cisco DNA software: Cisco DNA Essentials, Cisco DNA Advantage or Cisco DNA Premier.

Cisco DNA software subscriptions provide Cisco innovations on the access point. They also include perpetual Network Essentials and Network Advantage licensing options, which cover wireless fundamentals such as 802.1X authentication, Quality of Service (QoS), and Plug and Play (PnP); telemetry and visibility; and Single Sign-On (SSO), as well as security controls.

Cisco DNA subscription software has to be purchased for a 3-, 5-, or 7-year subscription term. If not renewed by the end of the term, Cisco DNA features will expire, whereas Network Essentials and Network Advantage features will remain.

For the full feature list of Cisco DNA Software, including the perpetual Network Essentials and Network Advantage, please see the feature matrix:

https://www.cisco.com/c/m/en_us/products/software/dna-subscription-wireless/en-sw-sub-matrix-wireless.html?oid=porew018984

Two modes of licensing are available:

- Smart Licensing (SL) simplifies and adds flexibility to licensing. It is:
 - Simple: Procure, deploy, and manage licenses easily. Devices self-register, removing the need for Product Activation Keys (PAKs).
 - Flexible: Pool license entitlements in a single account. Move licenses freely through the network, wherever you need them.
 - Smart: Manage your license deployments with real-time visibility into ownership and consumption.
- Specific License Reservation (SLR) is a feature used in highly secure networks. It provides a method for customers to deploy a software license on a device (product instance) without communicating usage information to Cisco. There is no communication with Cisco or a satellite. The licenses are reserved for every controller. It is node-based licensing.

Four levels of license are supported on the **Cisco Catalyst 9800 Series Wireless Controllers**. The controllers can be configured to function at any one of the four levels:

- Cisco DNA Essentials: At this level the Cisco DNA Essentials feature set will be supported.
- Cisco DNA Advantage: At this level the Cisco DNA Advantage feature set will be supported.
- NE: At this level the Network Essentials feature set will be supported.
- NA: At this level the Network Advantage feature set will be supported.

Cisco DNA Premier is a bundle with ISE licenses and Cisco DNA Spaces Extend. It is inclusive of Cisco DNA Advantage, so at this level the Cisco DNA Advantage feature set will be supported. For customers who purchase Cisco DNA Essentials, Network Essentials will be supported and will continue to function even after term expiration. And for customers who purchase Cisco DNA Advantage or Cisco DNA Premier, Network Advantage will be supported and will continue to function even after term expiration.

Initial bootup of the controller will be at the Cisco DNA Advantage level.

For questions, contact the Cisco Catalyst 9800 Series Wireless Controllers Licensing mailer group at ask-catalyst9800licensing.

Warranty information

The Cisco Aironet 1815m Access Point comes with a Limited Lifetime Warranty that provides full warranty coverage of the hardware for as long as the original end user continues to own or use the product. The warranty includes 10-day advance hardware replacement and helps ensure that software media is defect-free for 90 days. For more details, visit: <https://www.cisco.com/go/warranty>.

Find warranty information on Cisco.com at the [Product Warranties](#) page.

Cisco environmental sustainability

Information about Cisco’s environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the “Environment Sustainability” section of Cisco’s [Corporate Social Responsibility](#) (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the “Environment Sustainability” section of the CSR Report) are provided in Table 5.

Table 5. Links to sustainability information

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance
Sustainability inquiries	Contact: csr_inquiries@cisco.com

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

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For more information

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