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# Cisco Aironet 1815w Access Point

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With a sleek design and small form factor, the Cisco Aironet 1815w Access Point brings a full slate of Cisco high-performance functionality to multiple-dwelling-unit deployments.

## Product overview

The Cisco® Aironet® 1815w Access Point (Figure 1) offers a compact, wall plate-mountable access point, ideal for hospitality, cruise ships, residential halls, or other multiple-dwelling-unit deployments.

Packing 802.11ac Wave 2 wireless support and Gigabit Ethernet wired connectivity into a sleek device, the 1815w is built to take full advantage of existing cabling infrastructure while blending into the visual footprint. This combination provides best-in-class performance while reducing total cost of ownership.



**Figure 1.**  
Cisco Aironet 1815w Access Point

## Features and benefits

By adhering to the 802.11ac Wave 2 standard, the 1815w provides a data rate of up to 867 Mbps on its 5-GHz radio. This 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. This provides 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 their form of network connectivity, due to its convenience. With this shift, there is an expectation that wireless should not slow down users' day-to-day activities, but should enable a high-performance experience while allowing users to move about freely. The 1815w delivers industry-leading performance with highly secure and reliable wireless connections that provide a robust, mobile end-user experience.

With the 1815w, you can secure remote workers or the micro-office. Any Cisco Aironet or Catalyst access point can function as an OfficeExtend 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.** Features and benefits

Feature	Benefit
<b>MU-MIMO</b>	Multiuser (MU) Multiple-Input Multiple-Output (MU-MIMO) allows simultaneous data transmission 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 was typically referred to as Single-User MIMO (SU-MIMO).
<b>Gigabit Ethernet ports</b>	Three local Gigabit Ethernet ports are available to securely connect wired devices to the network. Traffic from wired devices can be tunneled back to a wireless LAN controller (for compatible controllers) or be locally switched by the access point. One of these Ethernet ports can also provide Power over Ethernet (PoE) out to power a device such as an IP phone or a security camera.
<b>Cisco Mobility Express solution</b>	Flexible deployment through the <a href="#">Cisco Mobility Express solution</a> is ideal for small to medium-sized deployments that require 50 or fewer access points. Easy setup allows the 1815w to be deployed on networks without a physical controller.
<b>Integrated Bluetooth 4.1</b>	Integrated Bluetooth Low-Energy (BLE) 4.1 radio for location and asset tracking (future availability).

### Increased wireless performance

The Aironet 1815w 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 functionality, 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 1815w allows wired access via a single RJ-45 10/100/1000 auto detection port. It supports full operation modes using PoE 802.3af power. The 1815w comes with three local Gigabit Ethernet ports, one uplink Gigabit Ethernet port, and one passive pass-through RJ-45 port, allowing for a variety of connections.

### Mounting

This sleek access point with a small form factor is designed with flexible mounting options in mind. You can mount it directly on the wall or to numerous global wall junction standards. The access point is also easy to install.

## Product specifications

Table 2 lists the specifications for the Cisco Aironet 1815w Access Point. Table 3 lists the RF specifications.

**Table 2.** Specifications

Item	Specification		
<b>Authentication and security</b>	<ul style="list-style-type: none"> <li>Advanced Encryption Standard (AES) for Wi-Fi Protected Access 3 (WPA3), WPA2, WPA</li> <li>802.1X, RADIUS Authentication, Authorization and Accounting (AAA)</li> <li>802.11r</li> <li>802.11i</li> </ul>		
<b>Software</b>	<ul style="list-style-type: none"> <li>Cisco Unified Wireless Network Software with AireOS Wireless Controllers Release 8.4.100.0/84 CCO or later</li> <li>Cisco Mobility Express</li> </ul>		
<b>Supported WLAN controllers</b>	<ul style="list-style-type: none"> <li>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 Catalyst® 9800 Series Wireless Controllers</li> <li>Cisco Mobility Express</li> </ul>		
<b>Maximum clients</b>	<ul style="list-style-type: none"> <li>Maximum number of associated wireless clients: 200 per Wi-Fi radio, in total 400 clients per access point</li> </ul>		
<b>802.11ac</b>	<ul style="list-style-type: none"> <li>2x2 single-user/multiuser MIMO with two spatial streams</li> <li>Maximal Ratio Combining (MRC)</li> <li>20-, 40-, and 80-MHz channels</li> <li>PHY data rates up to 866.7 Mbps (80 MHz on 5 GHz)</li> <li>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Rx)</li> <li>802.11 Dynamic Frequency Selection (DFS)</li> <li>Cyclic Shift Diversity (CSD) support</li> </ul>		
<b>Ethernet ports</b>	<ul style="list-style-type: none"> <li>Authentication with 802.1X or MAC filtered</li> <li>Dynamic VLAN or per port</li> <li>Traffic locally switched or tunneled back to wireless LAN controller</li> </ul>		
<b>Bluetooth (future availability)</b>	<ul style="list-style-type: none"> <li>Integrated Bluetooth 4.1 (including BLE) radio</li> <li>Maximum transmit power: 4 dBm</li> <li>Antenna gain: 2 dBi</li> </ul>		
<b>Data rates supported</b>	<b>802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</b>		
	<b>802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps</b>		
	<b>802.11n data rates on 2.4 GHz:</b>		
	<b>MCS Index<sup>1</sup></b>	<b>GI<sup>2</sup> = 800 ns</b>	<b>GI = 400 ns</b>
		<b>20-MHz Rate (Mbps)</b>	<b>20-MHz Rate (Mbps)</b>
	0	6.5	7.2

Item	Specification							
	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	
<b>802.11ac data rates on 5 GHz:</b>								
	<b>MCS Index</b>	<b>Spatial Streams</b>	<b>GI = 800 ns</b>			<b>GI = 400 ns</b>		
			<b>20-MHz Rate (Mbps)</b>	<b>40-MHz Rate (Mbps)</b>	<b>80-MHz Rate (Mbps)</b>	<b>20-MHz Rate (Mbps)</b>	<b>40-MHz Rate (Mbps)</b>	<b>80-MHz Rate (Mbps)</b>
	0	1	6.5	13.5	29.3	7.2	15	32.5
	1	1	13	27	58.5	14.4	30	65
	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

Item	Specification							
	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
<b>Maximum number of non-overlapping channels</b>	<b>A (A regulatory domain):</b> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <b>B (B regulatory domain):</b> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.720 GHz; 12 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <b>C (C regulatory domain):</b> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <b>D (D regulatory domain):</b> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul>				<b>K (K regulatory domain):</b> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.620 GHz; 7 channels</li> <li>• 5.745 to 5.805 GHz; 4 channels</li> </ul> <b>N (N regulatory domain):</b> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <b>Q (Q regulatory domain):</b> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.700 GHz; 11 channels</li> </ul> <b>R (R regulatory domain):</b> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.660 to 5.700 GHz; 3 channels</li> <li>• 5.745 to 5.805 GHz; 4 channels</li> </ul>			

Item	Specification	
	<p><b>E (E regulatory domain):</b></p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> </ul> <p><b>F (F regulatory domain):</b></p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.250 to 5.350 GHz; 4 channels</li> <li>• 5.725 to 5.825 GHz; 4 channels</li> </ul> <p><b>G (G regulatory domain):</b></p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.745 to 5.865 GHz; 7 channels</li> </ul> <p><b>H (H regulatory domain):</b></p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>I (I regulatory domain):</b></p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> </ul>	<p><b>S (S regulatory domain):</b></p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.700 GHz; 11 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>T (T regulatory domain):</b></p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.280 to 5.320 GHz; 3 channels</li> <li>• 5.500 to 5.700 GHz; 11 channels (excludes 5.600 to 5.640 GHz)</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>Z (Z regulatory domain):</b></p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul>

**Note:** This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.

Available transmit power settings	2.4 GHz	5 GHz
	20 dBm (100 mW)	20 dBm (100 mW)
	17 dBm (50 mW)	17 dBm (50 mW)
	14 dBm (25 mW)	14 dBm (25 mW)
	11 dBm (12.5 mW)	11 dBm (12.5 mW)
	8 dBm (6.25 mW)	8 dBm (6.25 mW)
	5 dBm (3.13 mW)	5 dBm (3.13 mW)
	2 dBm (1.56 mW)	2 dBm (1.56 mW)
	-1 dBm (0.78 mW)	-1 dBm (0.78 mW)

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

<b>Integrated antennas</b>	<ul style="list-style-type: none"> <li>• 2.4 GHz, gain 2 dBi</li> <li>• 5 GHz, gain 3 dBi</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• 1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE)</li> <li>• Management console port (4-pin connector)</li> <li>• Three 10/100/1000BASE-T ports (local Ethernet ports), including one PoE out port: <ul style="list-style-type: none"> <li>◦ PoE out provides 802.3af (class 0) when access point is powered by 802.3at, or no output when powered by 802.3af</li> </ul> </li> <li>• One passive pass-through port RJ-45 (back to bottom)</li> </ul>



Item	Specification
<b>Indicators</b>	<ul style="list-style-type: none"> <li>Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors</li> </ul>
<b>Dimensions (W x L x H)</b>	<ul style="list-style-type: none"> <li>Access point (without mounting bracket): 3.5 x 5.5 x 1.25 in (89 x 140 x 31.5 mm)</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>Access point without mounting bracket or any other accessories: 10 oz (280 g)</li> </ul>
<b>Environmental</b>	<ul style="list-style-type: none"> <li>Operating <ul style="list-style-type: none"> <li>Temperature: 32° to 104° F (0° to 40° C)</li> <li>Humidity: 10% to 90% (non-condensing)</li> <li>Max. altitude: 9843 ft (3,000 m) @ 40° C</li> </ul> </li> <li>Non-operating (storage and transportation) <ul style="list-style-type: none"> <li>Temperature: -22° to 158° F (-30° to 70° C)</li> <li>Humidity: 10% to 90% (non-condensing)</li> <li>Max. altitude: 15,000 ft (4,500 m) @ 25° C</li> </ul> </li> </ul>
<b>System</b>	<ul style="list-style-type: none"> <li>1 GB DRAM</li> <li>256 MB flash</li> <li>710 MHz quad-core</li> </ul>
<b>Powering options</b>	<ul style="list-style-type: none"> <li>802.3af/at Ethernet switch</li> <li>Optional Cisco power injectors (AIR-PWRINJ5=, AIR-PWRINJ6=)</li> </ul>
<b>Power draw</b>	<ul style="list-style-type: none"> <li>8.5W (maximum, without PoE out)</li> </ul>
<b>Physical security</b>	<ul style="list-style-type: none"> <li>Torx security screw, included with the access point</li> <li>Kensington lock slot to lock device to mounting bracket.</li> </ul>
<b>Mounting</b>	<ul style="list-style-type: none"> <li>Included with the access point: mounting bracket AIR-AP-BRACKET-W3</li> </ul>
<b>Accessories</b>	<ul style="list-style-type: none"> <li>Mounting bracket: AIR-AP-BRACKET-W3= (available as spare)</li> <li>Spacer kit: AIR-AP1815W-KIT= (sold separately), includes spacer and RJ-45 jumper cable</li> <li>Physical security kit: AIR-SEC-50= (sold separately), with 50 pcs. security screws used to secure the access point onto wall-mounting bracket, 20 pcs. RJ-45 caps and 2 pcs. unlock keys used to block physical access to Ethernet ports</li> </ul>
<b>Warranty</b>	<p>Limited Lifetime Hardware Warranty</p>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>Safety: <ul style="list-style-type: none"> <li>UL 60950-1</li> <li>CAN/CSA-C22.2 No. 60950-1</li> <li>UL 2043</li> <li>IEC 60950-1</li> <li>EN 60950-1</li> </ul> </li> <li>Radio approvals: <ul style="list-style-type: none"> <li>FCC Part 15.247, 15.407</li> <li>RSS-247 (Canada)</li> <li>EN 300.328, EN 301.893 (Europe)</li> <li>ARIB-STD 66 (Japan)</li> <li>ARIB-STD T71 (Japan)</li> <li>EMI and susceptibility (Class B)</li> <li>FCC Part 15.107 and 15.109</li> <li>ICES-003 (Canada)</li> <li>VCCI (Japan)</li> </ul> </li> </ul>

Item	Specification
	<ul style="list-style-type: none"> <li>◦ EN 301.489-1 and -17 (Europe)</li> <li>◦ EN 50385</li> <li>• IEEE standards: <ul style="list-style-type: none"> <li>◦ IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d</li> <li>◦ IEEE 802.11ac</li> </ul> </li> <li>• Security: <ul style="list-style-type: none"> <li>◦ 802.11i, WPA3, WPA2, WPA</li> <li>◦ 802.1X</li> <li>◦ AES</li> </ul> </li> <li>• Extensible Authentication Protocol (EAP) types: <ul style="list-style-type: none"> <li>◦ EAP-Transport Layer Security (TLS)</li> <li>◦ EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2)</li> <li>◦ Protected EAP (PEAP) v0 or EAP-MSCHAPv2</li> <li>◦ EAP-Flexible Authentication via Secure Tunneling (FAST)</li> <li>◦ PEAP v1 or EAP-Generic Token Card (GTC)</li> <li>◦ EAP-Subscriber Identity Module (SIM)</li> </ul> </li> <li>• Multimedia: <ul style="list-style-type: none"> <li>◦ Wi-Fi Multimedia (WMM)</li> </ul> </li> <li>• Other: <ul style="list-style-type: none"> <li>◦ FCC Bulletin OET-65C</li> <li>◦ RSS-102</li> </ul> </li> </ul>

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

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

**Table 3.** RF specifications

Transmit power and receive sensitivity (1815w)					
	2.4-GHz Radio			5-GHz Radio	
	Spatial Streams	Total TX Power (dBm)	RX Sensitivity (dBm)	Total TX Power (dBm)	RX Sensitivity (dBm)
<b>802.11/11b</b>					
<b>1 Mbps</b>	1	17	-98	NA	NA
<b>11 Mbps</b>	1	17	-89	NA	NA

## Transmit power and receive sensitivity (1815w)

	2.4-GHz Radio			5-GHz Radio	
	Spatial Streams	Total TX Power (dBm)	RX Sensitivity (dBm)	Total TX Power (dBm)	RX Sensitivity (dBm)
<b>802.11a/g</b>					
6 Mbps	1	20	-94	17	-94
24 Mbps	1	20	-87	20	-87
54 Mbps	1	20	-78	18	-78
<b>802.11n HT20</b>					
MSC0	1	20	-93	20	-93
MSC4	1	20	-83	18	-82
MSC7	1	20	-75	16	-75
MSC8	2	20	-90	20	-90
MSC12	2	20	-80	18	-79
MSC15	2	20	-72	16	-72
<b>802.11n HT40</b>					
MSC0	1			20	-90
MSC4	1			18	-79
MSC7	1			16	-72
MSC8	2			20	-87
MSC12	2			18	-76
MSC15	2			16	-69
<b>802.11ac VHT20</b>					
MSC0	1			20	-93
MSC4	1			18	-82
MSC7	1			16	-75
MSC8	1			15	-71

## Transmit power and receive sensitivity (1815w)

	2.4-GHz Radio			5-GHz Radio	
	Spatial Streams	Total TX Power (dBm)	RX Sensitivity (dBm)	Total TX Power (dBm)	RX Sensitivity (dBm)
MSC0	2			20	-90
MSC4	2			18	-79
MSC7	2			16	-72
MSC8	2			15	-68
<b>802.11ac VHT40</b>					
MSC0	1			20	-90
MSC4	1			18	-79
MSC7	1			16	-72
MSC8	1			15	-68
MSC9	1			15	-66
MSC0	2			20	-87
MSC4	2			18	-76
MSC7	2			16	-69
MSC8	2			15	-65
MSC9	2			15	-63
<b>802.11ac VHT80</b>					
MSC0	1			20	-87
MSC4	1			18	-77
MSC7	1			16	-69
MSC8	1			15	-65
MSC9	1			15	-63
MSC0	2			20	-84
MSC4	2			18	-74

## Transmit power and receive sensitivity (1815w)

	Spatial Streams	2.4-GHz Radio		5-GHz Radio	
		Total TX Power (dBm)	RX Sensitivity (dBm)	Total TX Power (dBm)	RX Sensitivity (dBm)
MSC7	2			16	-66
MSC8	2			15	-62
MSC9	2			15	-60

**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 1815w Access Point. To place an order, visit the [Cisco Ordering homepage](#). To download software, visit the [Cisco Software Center](#).

**Table 4.** Ordering information

Product name	Part number
<b>Cisco Aironet 1815w</b>	<ul style="list-style-type: none"> <li>AIR-AP1815w-x-K9: Dual-band, controller-based 802.11a/g/n/ac, Wave 2</li> <li>AIR-AP1815w-x-K9C: Dual-band 802.11a/g/n/ac Wave 2 with default software Mobility Express               <ul style="list-style-type: none"> <li>Regulatory domains: (x = regulatory domain)</li> <li>For Mobility Express, part number AIR-AP1815w-x-K9C offers default software option Mobility Express</li> </ul> </li> </ul> <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 <a href="https://www.cisco.com/go/aironet/compliance">https://www.cisco.com/go/aironet/compliance</a>.</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>

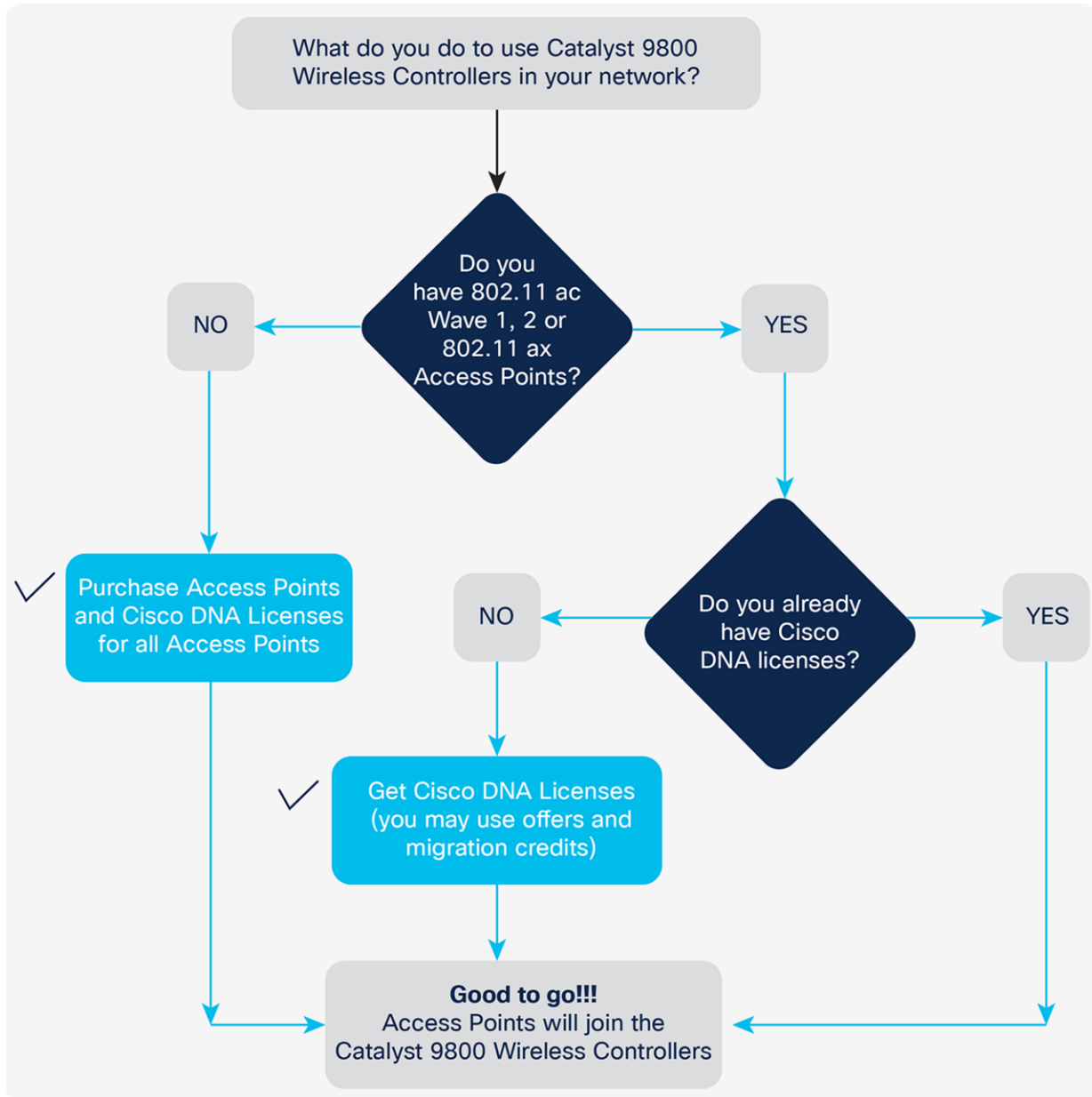
## Cisco Wireless LAN Services

Realize the full business value of your technology investments faster with intelligent, customized services from Cisco and our partners. Backed by deep networking expertise and a broad ecosystem of partners, 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. Together with partners, we offer expert plan, build, and run services to accelerate your transition to advanced mobility services while continuously optimizing the performance, reliability, and security of that architecture after it is deployed.

For more details, visit: <https://www.cisco.com/c/en/us/products/wireless/service-listing.html>.

## 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

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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](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 of 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](mailto:ask-catalyst9800licensing).

## Warranty information

The Cisco Aironet 1815w 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 ensures 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.

Sustainability topic	Reference
Information on product material content laws and regulations	<a href="#">Materials</a>
Information on electronic waste laws and regulations, including products, batteries, and packaging	<a href="#">WEEE compliance</a>
Sustainability inquiries	Contact: <a href="mailto:csr_inquiries@cisco.com">csr_inquiries@cisco.com</a>

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

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more.](#)



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## For more information

For more information about the Cisco Aironet 1815w Access Point, visit

<https://www.cisco.com/c/en/us/products/wireless/aironet-1815-series-access-points/index.html>.

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