



The bridge to possible



Cisco Aironet 1830 Series Access Points datasheet

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Figure 1.
Cisco Aironet 1830 Series

Product overview

Ideal for small and medium-sized networks, the Cisco® Aironet® 1830 Series delivers industry-leading wireless performance with support for the latest Wi-Fi standard, IEEE's new 802.11ac Wave 2 specification, and meets the growing requirements of wireless networks by delivering a better user experience. The 1830 Series 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.

Features and benefits

With 802.11ac Wave 2, the 1830 Series provides a data rate of up to 867 Mbps on the 5-GHz radio, exceeding the data rates offered by today's high-end 802.11n access points. It also enables a total aggregate dual-radio data rate of up to 1 Gbps, providing the necessary foundation for enterprise and service provider networks to stay ahead of the performance and bandwidth expectations and needs of their wireless users.

Due to its convenience, wireless access is increasingly the preferred form of network connectivity for corporate users. Along 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 while allowing users to move freely. The 1830 Series delivers industry-leading performance for highly secure and reliable wireless connections and provides a robust mobility experience that includes:

- 802.11ac Wave 2 with 3x3 Multiple-Input Multiple-Output (MIMO) technology with two spatial streams when operating in single-user or multiuser MIMO mode, offering 867-Mbps rates for more capacity and reliability than competing access points.
- Multiuser MIMO (MU-MIMO) allows transmission of data to multiple 802.11ac Wave 2 capable clients simultaneously to improve 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, typically referred to as single-user MIMO.
- Transmit beamforming technology improves downlink performance to mobile devices, including one- and two-spatial-stream devices on 802.11ac, while improving battery life on mobile devices such as smartphones and tablets.
- Flexible deployment mode through the [Mobility Express Solution](#) is ideal for small to medium-sized deployments that require multiple access points. Easy setup allows the 1830 Series to be deployed on networks without a physical controller.

- Security for 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 that 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, 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.

All of these features help ensure the best possible end-user experience on the wireless network.

Product specifications

Table 1. Product specifications

Feature	Specifications
Software	Cisco Unified Wireless Network Software Release with AireOS wireless controllers: <ul style="list-style-type: none"> • 8.1.121.0 or later for the Cisco Aironet 1830 Series Access Points
Deployment modes	Centralized, standalone, sniffer,** Cisco FlexConnect®, monitor,** OfficeExtend,** mesh**
Supported wireless LAN 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 Cisco 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, Cisco 5760 Wireless LAN Controller, ** Cisco Catalyst 3650 and 3850 Series Switches with integrated controller** • Cisco Mobility Express
802.11n version 2.0 (and related) capabilities	<ul style="list-style-type: none"> • 3x3 MIMO with two spatial streams • Maximal Ratio Combining (MRC) • 20- and 40-MHz channels • PHY data rates up to 300 Mbps (40 MHz with 5 GHz) • Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) • 802.11 Dynamic Frequency Selection (DFS) • Cyclic Shift Diversity (CSD) support

Feature	Specifications				
802.11ac Wave 1 and 2 capabilities	<ul style="list-style-type: none"> • 3x3 MIMO with two spatial streams, single-user or multiuser MIMO • MRC • 802.11ac beamforming (transmit beamforming) • 20-, 40-, and 80-MHz channels • PHY data rates up to 867 Mbps (80 MHz in 5 GHz) • Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) • 802.11 DFS • CSD support 				
	802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps				
	802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps				
	802.11n data rates on 2.4 GHz (only 20 MHz and MCS 0 to MCS 23) and 5 GHz:				
	MCS index ¹	GI ² = 800 ns	GI = 800 ns	GI = 400 ns	GI = 400 ns
		20-MHz rate (Mbps)	40-MHz rate (Mbps)	20-MHz rate (Mbps)	40-MHz rate (Mbps)
	0	6.5	13.5	7.2	15
	1	13	27	14.4	30
	2	19.5	40.5	21.7	45
	3	26	54	28.9	60
	4	39	81	43.3	90
	5	52	108	57.8	120
	6	58.5	121.5	65	135

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

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

Feature	Specifications						
Data rates supported	MCS index¹	GI² = 800 ns		GI = 800 ns		GI = 400 ns	
		20-MHz rate (Mbps)		40-MHz rate (Mbps)		20-MHz rate (Mbps)	
	7	65		135		72.2	
	8	13		27		14.4	
	9	26		54		28.9	
	10	39		81		43.3	
	11	52		108		57.8	
	12	78		162		86.7	
	13	104		216		115.6	
	14	117		243		130	
	15	130		270		144.4	
802.11ac data rates (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
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

Feature	Specifications							
	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)
	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 nonoverlapping channels	A (A regulatory domain):				K (K 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 				<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 			
	B (B regulatory domain):				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 • 5.500 to 5.720 GHz; 12 channels • 5.745 to 5.825 GHz; 5 channels 				<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 			
	C (C regulatory domain):				Q (Q regulatory domain):			
	<ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.825 GHz; 5 channels 				<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 			
	D (D regulatory domain):				R (R 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 				<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 5,805 GHz; 7 channels 			

Feature	Specifications	
	<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>H (H regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.150 to 5.350 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>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
<p>Maximum number of nonoverlapping channels</p>	<p>2.4 GHz</p> <ul style="list-style-type: none"> • 802.11b/g: <ul style="list-style-type: none"> ◦ 20 MHz: 3 • 802.11n: <ul style="list-style-type: none"> ◦ 20 MHz: 3 ◦ 40 MHz: 1 (hardware capable) 	<p>5 GHz</p> <ul style="list-style-type: none"> • 802.11a: <ul style="list-style-type: none"> ◦ 20 MHz: 25 • 802.11n: <ul style="list-style-type: none"> ◦ 20 MHz: 25 ◦ 40 MHz: 12 • 802.11ac: <ul style="list-style-type: none"> ◦ 20 MHz: 21 ◦ 40 MHz: 12 ◦ 80 MHz: 6
<p>Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.</p>		

Feature	Specifications				
Receive sensitivity	<ul style="list-style-type: none"> 802.11b (CCK) <ul style="list-style-type: none"> -101 dBm @ 1 Mbps -98 dBm @ 2 Mbps -92 dBm @ 5.5 Mbps -89 dBm @ 11 Mbps 	<ul style="list-style-type: none"> 802.11g (non HT20) <ul style="list-style-type: none"> -96 dBm @ 6 Mbps -95 dBm @ 9 Mbps -94 dBm @ 12 Mbps -92 dBm @ 18 Mbps -88 dBm @ 24 Mbps -85 dBm @ 36 Mbps -81 dBm @ 48 Mbps -79 dBm @ 54 Mbps 	<ul style="list-style-type: none"> 802.11a (non HT20) <ul style="list-style-type: none"> -96 dBm @ 6 Mbps -95 dBm @ 9 Mbps -94 dBm @ 12 Mbps -92 dBm @ 18 Mbps -88 dBm @ 24 Mbps -85 dBm @ 36 Mbps -80 dBm @ 48 Mbps -79 dBm @ 54 Mbps 		
	2.4 GHz <ul style="list-style-type: none"> 802.11n (HT20) <ul style="list-style-type: none"> -96 dBm @ MCS0 -93 dBm @ MCS1 -90 dBm @ MCS2 -87 dBm @ MCS3 -84 dBm @ MCS4 -79 dBm @ MCS5 -78 dBm @ MCS6 -76 dBm @ MCS7 -93 dBm @ MCS8 -90 dBm @ MCS9 -87 dBm @ MCS10 -84 dBm @ MCS11 -81 dBm @ MCS12 -76 dBm @ MCS13 -75 dBm @ MCS14 -73 dBm @ MCS15 		5 GHz <ul style="list-style-type: none"> 802.11n (HT20) <ul style="list-style-type: none"> -96 dBm @ MCS0 -92 dBm @ MCS1 -90 dBm @ MCS2 -86 dBm @ MCS3 -83 dBm @ MCS4 -79 dBm @ MCS5 -77 dBm @ MCS6 -76 dBm @ MCS7 -93 dBm @ MCS8 -89 dBm @ MCS9 -87 dBm @ MCS10 -83 dBm @ MCS11 -80 dBm @ MCS12 -76 dBm @ MCS13 -74 dBm @ MCS14 -73 dBm @ MCS15 	5 GHz <ul style="list-style-type: none"> 802.11n (HT40) <ul style="list-style-type: none"> -93 dBm @ MCS0 -90 dBm @ MCS1 -87 dBm @ MCS2 -84 dBm @ MCS3 -80 dBm @ MCS4 -76 dBm @ MCS5 -75 dBm @ MCS6 -73 dBm @ MCS7 -90 dBm @ MCS8 -87 dBm @ MCS9 -84 dBm @ MCS10 -81 dBm @ MCS11 -77 dBm @ MCS12 -73 dBm @ MCS13 -72 dBm @ MCS14 -70 dBm @ MCS15 	
	802.11ac receive sensitivity				
	802.11ac (non HT80)				
	<ul style="list-style-type: none"> -89 dBm @ 6 Mbps -73 dBm @ 54 Mbps 				
	MCS index	Spatial streams			
			VHT20	VHT40	VHT80
	0	1	-96 dBm	-93 dBm	-89 dBm
	7	1	-76 dBm	-73 dBm	-70 dBm
	8	1	-71 dBm	-69 dBm	-66 dBm
9	1	NA	-67 dBm	-64 dBm	
0	2	-93 dBm	-90 dBm	-86 dBm	
7	2	-73 dBm	-70 dBm	-67 dBm	
8	2	-68 dBm	-66 dBm	-63 dBm	

Feature	Specifications				
	9	2	NA	-64 dBm	-61 dBm
Maximum transmit power	2.4 GHz <ul style="list-style-type: none"> • 802.11b <ul style="list-style-type: none"> ◦ 22 dBm, 3 antennas • 802.11g <ul style="list-style-type: none"> ◦ 22 dBm, 3 antennas • 802.11n (HT20) <ul style="list-style-type: none"> ◦ 22 dBm, 3 antennas 			5 GHz <ul style="list-style-type: none"> • 802.11a <ul style="list-style-type: none"> ◦ 23 dBm, 3 antennas • 802.11n (HT20) <ul style="list-style-type: none"> ◦ 23 dBm, 3 antennas • 802.11n (HT40) <ul style="list-style-type: none"> ◦ 23 dBm, 3 antennas • 802.11ac <ul style="list-style-type: none"> ◦ non-HT80: 23 dBm, 3 antennas ◦ VHT20 23 dBm, 3 antennas ◦ VHT40: 23 dBm, 3 antennas ◦ VHT80: 23 dBm, 3 antennas 	
<p>Note: The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.</p>					
Available transmit power settings	2.4 GHz <ul style="list-style-type: none"> • 22 dBm • 19 dBm • 16 dBm • 13 dBm • 10 dBm • 7 dBm • 4 dBm • 1 dBm 			5 GHz <ul style="list-style-type: none"> • 23 dBm • 20 dBm • 17 dBm • 14 dBm • 11 dBm • 8 dBm • 5 dBm • 2 dBm 	
<p>Note: The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.</p>					
Integrated antenna	<ul style="list-style-type: none"> • 2.4 GHz, gain 3 dBi, internal omni, horizontal beamwidth 360° • 5 GHz, gain 5 dBi, internal omni, horizontal beamwidth 360° 				
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) • USB 2.0 (enabled via future software) 				

Feature	Specifications
Indicators	<ul style="list-style-type: none"> Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors
Dimensions (W x L x H)	<ul style="list-style-type: none"> Access point (without mounting bracket): 8.3 x 8.3 x 2 in. (210.8 x 210.8 x 50.8 mm)
Weight	<ul style="list-style-type: none"> 2.05 lb (930 grams)
Environmental	<p>Cisco Aironet 1830i</p> <ul style="list-style-type: none"> Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: 32° to 104°F (0° to 40°C) Operating humidity: 10% to 90% (noncondensing) Operating altitude test: 40°C, 9843 ft.
System memory	<ul style="list-style-type: none"> 1 GB DRAM 256 MB flash
Input power requirements	<ul style="list-style-type: none"> AP1830: 44 to 57 VDC Power supply and power injector: 100 to 240 VAC; 50 to 60 Hz
Power draw	<ul style="list-style-type: none"> 15.4W <p>Note: When deployed using a PoE specification, the power drawn from the power sourcing equipment will be higher by some amount, depending on the length of the interconnecting cable.</p>
Powering options	<ul style="list-style-type: none"> 802.3af/802.3at Enhanced PoE Cisco local power supply, AIR-PWR-C= Cisco power injector, AIR-PWRINJ5= (Note: This injector supports 802.3af only), AIR-PWRINJ6= <p>Note: If 802.3af PoE is the source of power, the USB port is disabled.</p>
Warranty	<p>Limited lifetime hardware warranty</p>
Compliance standards	<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-210 (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) IEEE standards: <ul style="list-style-type: none"> IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d IEEE 802.11ac Draft 5

Feature	Specifications
	<ul style="list-style-type: none">• Security:<ul style="list-style-type: none">◦ 802.11i, Wi-Fi Protected Access 3 (WPA3), WPA2, WPA◦ 802.1X◦ Advanced Encryption Standard (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 (GTC)◦ EAP-Subscriber Identity Module (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

* Supported via Cisco Mobility Express with controller function running on the access point - not Cisco IOS® Software Autonomous based.

** Future.

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.

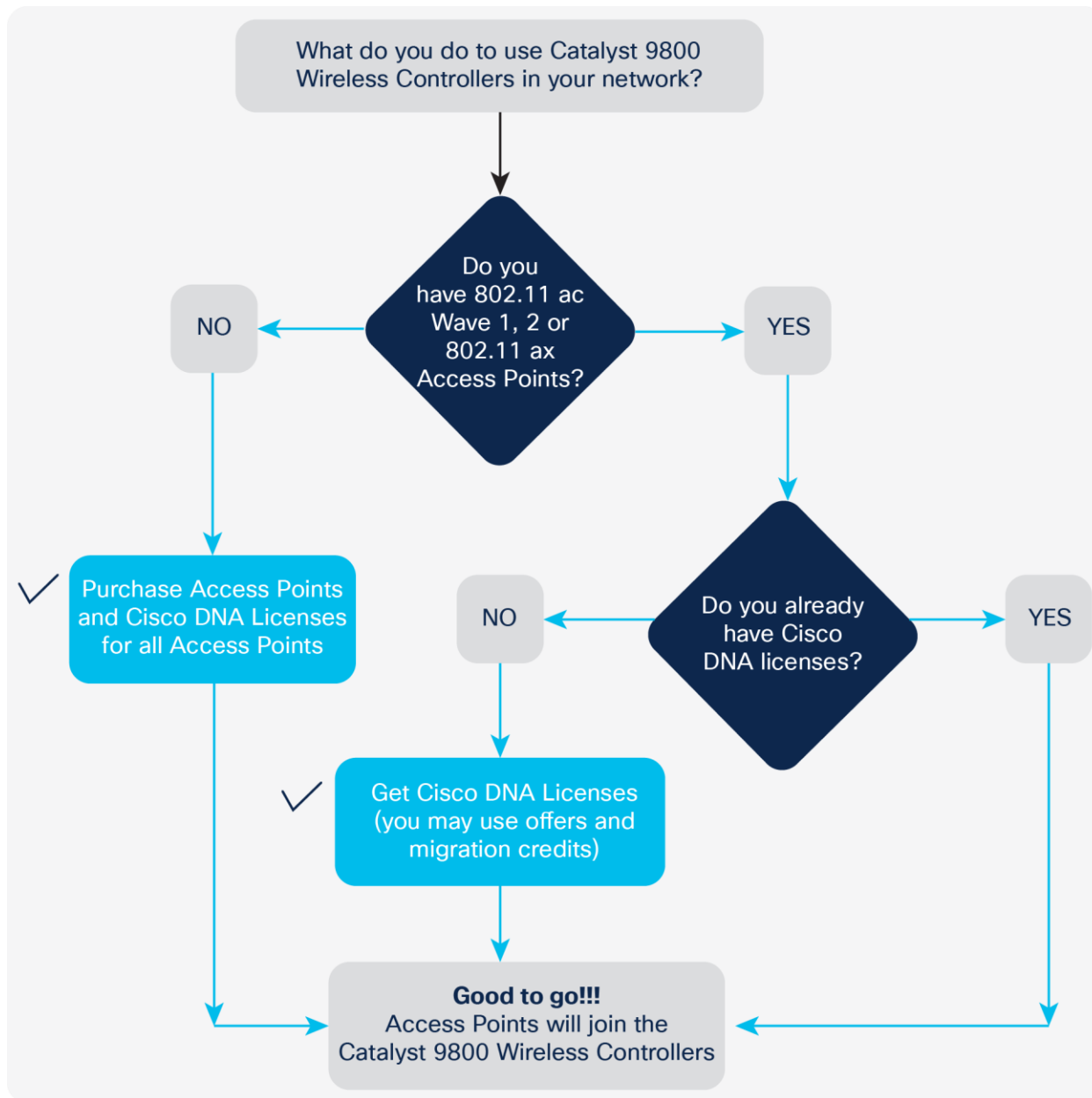


Figure 2. Determining license requirements for access points connecting to Cisco Catalyst 9800 Series Wireless Controllers

Access points connecting to a Cisco Catalyst 9800 Series controller have new and simplified software subscription packages. They can support both tiers of Cisco DNA software: Cisco DNA Essentials and Cisco DNA Advantage.

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.

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.

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, 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 1830 Series Access Points come 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 are defect-free for 90 days.

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 2.

Table 2. 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 inquiri	

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.

Ordering information

To place an order, visit the [Cisco How to Buy page](#). To download software, visit the [Cisco Software Center](#).

Table 3. Ordering information

Product name	Part number
Cisco Aironet 1830 Series	<p>Cisco Aironet 1832i Access Point: Indoor environments, with internal antennas</p> <ul style="list-style-type: none"> • AIR-AP1832I-x-K9: Dual-band, controller-based 802.11a/g/n/ac, Wave 2 • AIR-AP1832I-x-K9C: Dual-band, controller-based 802.11a/g/n/ac, Wave 2, configurable, with default software Mobility Express <ul style="list-style-type: none"> ◦ Regulatory domains: (x = regulatory domain) ◦ For Mobility Express, part number AIR-AP1832I-x-K9C offers default software option Mobility Express <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 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 help you 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.

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](#)

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.