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Benefits of Upgrading to Cisco Wireless Access Points

Network requirements for the Digital Organization	Feature	Wi-Fi 3 Cisco® Aironet® Access Points 1600/2600/3600 Series	Wi-Fi 4 Cisco Aironet Access Points 1700/2700/3700 Series	Wi-Fi 5 Cisco Aironet Access Points 1800/2800/3800/4800 Series	Wi-Fi 6 Cisco Catalyst Access Points 9100 Series	Benefits
Insights and Experiences	Maximum data rate	450 Mbps (3600 Series)	1.3 Gbps (2700 and 3700 Series)	5.2 Gbps (2800, 3800 and 4800 APs)	Up to 9.6 Gbps	Users will gain a better experience through a better- performing network
	Artificial Intelligence/ Machine Learning (AI/ML)	No	No	✓	✓	Unfolding AI/ML over your wireless deployment, Cisco DNA Center provides your next step in terms of increased performance, better efficiency and greater cost savings This allows for considerable network improvements in visibility, troubleshooting and even cybersecurity. AI/ML literally turns data into intuition, resulting in time savings and greater efficiency.
	Cisco DNA Spaces	✓	✓	✓ (Supports Cisco DNA Spaces BLE feature)	✓ (Supports Cisco DNA Spaces BLE feature)	Analyze visitor behavior, make guest Wi-Fi access easier, track assets quickly and accurately, and provide visitors with a better experience Cisco DNA Spaces expands its location cloud platform beyond Wi-Fi to BLE tags, beacons and other IoT sensors. With gateway-enabled Cisco Wi-Fi 6 access points, it can easily scale advanced use cases while lowering TCO. (Available second half of calendar year 2020.)
	Cisco Application Visibility and Control (AVC)	No	✓	✓	✓	Visibility into 1000+ applications for capacity planning and prioritization
	Future-ready modularity	3600 Series only	3700 Series only	3800 Series only	✓	Prepare for next- generation technology today

Network requirements for the Digital Organization	Feature	Wi-Fi 3 Cisco® Aironet® Access Points	Wi-Fi 4 Cisco Aironet Access Points	Wi-Fi 5 Cisco Aironet Access Points	Wi-Fi 6 Cisco Catalyst Access Points	Benefits
		1600/2600/3600 Series	1700/2700/3700 Series	1800/2800/3800/ 4800 Series	9100 Series	
Insights and Experiences	OEAP	No	No	✓	✓	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.
	OFDMA	No	No	No	✓	Allows scheduling which splits the bandwidth into smaller chunks called Resource Units (RU). These RUs can be allocated to individual clients only in the downlink direction to reduce overhead and 50% less latency resulting in faster working apps
	Target Wake Time	No	No	No	9130 (9115 and 9120 future)	A power savings mode called this lets users determine pre-scheduled times to exchange data with the AP. This allows for significant energy savings for battery-operated devices, up to 3-4x versus prior 802.11n and 802.11ax
	Multi gigabit uplink support	No	No	3800 and 4800 only	✓	Supports up to 5Gbps with NBase-T and IEEE 802.3bz Ethernet compatibility to seamlessly offload network traffic without bottlenecks. Existing Cat 5e or Cat 6 cabling to achieve speeds up to 5 Gbps which provides higher throughputs and saves money by conserving existing cabling
	Intelligent Capture	No	No	✓	✓	Probes the network and provides the Cisco DNA Center with deep data analysis

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Automation and Assurance	Cisco High Density Experience (HDX)	No	✓	✓	No	Automatically manages the airwaves and improves Wi-Fi performance
	Flexible, software-defined, dual radios, 5 GHz	No	No	2800 and 3800 Series only (4800 has four radios)	9120 and 9130 Series only	Automated support for client surges with dual 5-GHz radios
	Best practices	No	✓	✓	✓	Advanced features easily enabled through Mobility Express and WLAN Express Setup
	Apple FastLane	No	✓	✓	✓	Enables iOS devices to intelligently communicate and fast-track a connection to the best-suited access point, quickly and efficiently, all while saving battery power
	Cisco Jabber®/ Lync SDN API	No	✓	✓	✓	Allows employees to access instant messaging, voice, video, voice messaging, desktop sharing, and conferencing from anywhere
	Cisco DNA Center	No	✓	✓	✓	Simplifies network management by reducing risk and allowing for automating device deployment. Not only that but it lowers costs too

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		1600/2600/3600 Series	**1700/2700/3700 Series**	**1800/2800/3800/ 4800 Series**	**9100 Series**	
	Cisco Identity Services Engine (ISE)	✓	✓	✓	✓	A next-generation identity and access control policy platform that enforces compliance, enhances infrastructure security, and streamlines service operations
Security and Compliance	NetFlow	No	✓	✓	✓	Provides a key set of services for IP applications, including network traffic accounting, usage-based network billing, network planning security, denial-of-service monitoring capabilities, and network monitoring
	Cisco Stealthwatch	No	✓	✓	✓	Enables advanced network visibility, analytics, and protection by showing everything that happens across your network and data center

Learn more at https://www.cisco.com/go/wireless.

To assist in your transition to next-gen Wireless with end-end Intent-Based Networking, review this table:

Aironet 11ac Wave 2	Catalyst 9100 Wi-Fi 6 series	Applications
AIR1815	C9105	Small and Medium-size deployment
AIR1830	C9115 or C9117	
AIR1850	C9115 or C9117	Small and Medium-size deployment
AIR2800	C9120	Large-size deployment
AIR3800	C9130	Large-size deployment, mission-critical