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Benefits of Upgrading to Cisco Wireless Access Points

Network requirements for the Digital Organization	Feature	Generation 1 Cisco® Aironet® Access Points	Generation 2 Cisco Aironet Access Points	Generation 3 Cisco Aironet Access Points	Latest Generation Cisco Catalyst Access Points	Benefits
		1600/2600/3600 Series	1700/2700/3700 Series	1800/2800/3800/ 4800 Series	9100 Series	
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
	Cisco DNA Spaces	✓	✓	✓	✓	Analyze visitor behavior, make guest Wi-Fi access easier, track assets quickly and accurately, and provide visitors with a better experience
	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	No	Prepare for next- generation technology today
	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

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Insights and Experiences	Target Wake Time	No	No	No	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
	BLE Radio	No	No	4800 only	✓	Proximity technology to enhance location services for mobile devices
	Intelligent Capture	No	No	2800, 3800 and 4800 APs only	Future – on select models	Probes the network and provides the Cisco DNA Center with deep data analysis
Automation and Assurance	Cisco High Density Experience (HDX)	No	✓	✓	Future – on select models	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)	Future – on select models	Automated support for client surges with dual 5-GHz radios

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Automation and Assurance	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	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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Security and Compliance	Cisco Identity Services Engine (ISE)	✓	✓	✓	✓	A next-generation identity and access control policy platform that enforces compliance, enhances infrastructure security, and streamlines service operations
	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

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