


# Benefits of Upgrading to the Latest Cisco Wireless Controllers



Network requirements for the digital organization	Features	Generation 1 Cisco® wireless LAN controllers	Latest Cisco wireless LAN controllers	Benefits
 <p><b>Insights and experiences</b></p>	<p>Multimode controller</p> <p>Greater throughput</p> <p>1G and 10G I/O support</p> <p>High availability and resiliency</p>	<p>2504, 5508, 7500, and 8510</p> <p>✓</p> <p>No</p> <p>No</p> <p>✓</p>	<p>3504, 5520, and 8540</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>Determine which mode you want to deploy your network on: Centralized mode, Cisco FlexConnect® mode, or Mesh mode.</p> <p>The latest Cisco® controllers are fast enough for 802.11ac Wave 2. This means you're ready for denser traffic and the high-bandwidth apps the devices run.</p> <p>The latest Cisco controllers are able to support either 1G or 10G I/O interfaces. This gives you more flexibility when it comes to your connections.</p> <p>No moving parts – solid state drives. Hardware redundancy for power supplies, drives, and fans. And a fast restart with enhanced uptime.</p>

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 <p><b>Automation and assurance</b></p>	Integrated services	No	✓	Cisco Application Visibility and Control is integrated, giving you more visibility into and control over your network. Cisco TrustSec® and access control lists are also integrated and provide the ability to segregate resources without physical segmentation or managing virtual LANs.
	Cisco AireOS	✓	✓	The latest Cisco controllers come preloaded with the latest AireOS operating system. All Cisco wireless controllers are able to upgrade to the latest OS.
	Cisco DNA Center	No	✓	Simplifies network management by reducing risk and allowing for automating device deployment. Not only that but it lowers costs too
 <p><b>Security and compliance</b></p>	Licensing	No	✓	No concept of license required which means a more streamlined system. Also, controllers have license portability.
	Cisco Software-Defined Access	No	✓	SD-Access allows users to optimize, personalize, and secure their wireless network and streamline service operations.
	Built-in security	No	✓	Security is built into all infrastructure hardware and software through Cisco trustworthy systems.

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