

Benefits of Upgrading to Cisco 4000 Series Integrated Services Routers



Learn more at <https://www.cisco.com/go/isr4000>

Network Requirements for the Digital Organization	Features	First-Generation (Cisco 1800, 2800, and 3800 Series [EOL Oct 2016])	Generation 2 (ISR G2) (Cisco 1900, 2900, and 3900 Series [EOS Dec 2017])	Cisco 4000 Series Integrated Services Routers	Benefits
 Insights and Experiences	Maximum throughput	Up to 50 Mbps	Up to 350 Mbps	Up to 2 Gbps	4 to 10 times greater performance than ISR G2 at lower price
	Cisco® Application Visibility and Control (AVC)	×	✓	✓	Visibility into 1000+ applications for capacity planning and prioritization
	Intelligent path selection (Cisco Performance Routing [PfR] v3)	×	✓	✓	Real-time analytics to help ensure application experience and lower costs with path selection
	WAN optimization (Cisco Wide Area Application Services [WAAS] and Akamai)	×	✓	✓	Improved application performance and WAN offload with Layer 4 through 7 optimization and intelligent caching
 Automation and Assurance	Pay-as-you-grow performance and services	×	×	✓	Ability to buy what you need today and upgrade anytime without a complete equipment upgrade
	Cisco ONE™ Software Suites	×	✓	✓	Predictable OpEx, license portability, and investment protection
	Cisco Intelligent WAN app with Application Policy Infrastructure Controller Enterprise Module (APIC-EM)	×	✓	✓	Automated provisioning for faster SD-WAN deployments

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<p>Security and Compliance</p>	Cisco Firepower® Threat Defense for ISR	×	✓	✓	Industry-leading advanced threat defense
	Cisco Umbrella Branch (OpenDNS)	×	×	✓	Protection from malware, botnets, phishing, and targeted online attacks using real-time threat intelligence
	Cisco Stealthwatch Learning Network License	×	✓	✓	Branch network visibility and device-level incident response with packet capture and machine learning (2900 and 3900 Series ISR requires UCS E-Series blade)
	Multicore hardware VPN acceleration	×	×	✓	High-performance encryption for secure WAN
<p>Virtualization</p>	Enterprise Network Functions Virtualization	×	×	✓	Simplified operations and deployment of virtual network services on any platform
	Native Application Hosting	×	×	✓	No need for additional network devices in the branch
	Integrated compute with Cisco UCS E-Series servers	×	✓	✓	Local compute resources for applications, data backup, and analytics
	Cisco IOS® XE operating system	×	×	✓	Multi-core processing increases network services performance and availability