


# Benefits of Upgrading to Cisco 4000 Series Integrated Services Routers



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

Intent-based networking capabilities	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
 <b>Digital-ready infrastructure</b>	Enterprise Network Functions Virtualization	×	×	✓	Simplified operations and deployment of virtual network services on any platform
	Cisco IOS® XE open operating system	×	×	✓	Multi-core processing increases network services performance and availability
	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
 <b>Policy-based Automation</b>	Cisco DNA Center centralized management	×	×	✓	Simplify network management, deploy networks in minutes, and predict problems before they happen
	Cisco SD-WAN	×	×	✓	Cloud-delivered, secure, flexible and rich services architecture that delivers the best user experience over any connection
	Pay-as-you-grow performance and services	×	×	✓	Ability to buy what you need today and upgrade anytime without a complete equipment upgrade
 <b>Analytics and Assurance</b>	DNA Assurance network monitoring	×	×	✓	Continuous verification, insights and visibility, and corrective actions
	Cisco® Application Visibility and Control (AVC)	×	✓	✓	Visibility into 1000+ applications for capacity planning and prioritization

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Optimization	WAN optimization (Cisco WAAS with Akamai)	×	✓	✓	Improved application performance and WAN offload with Layer 4 through 7 optimization and intelligent caching
Security and Compliance	Trustworthy Systems	×	×	✓	Security foundation that also provides next-generation encryption and integrity verification
	Cisco Umbrella (OpenDNS)	×	×	✓	Protection from malware, botnets, phishing, and targeted online attacks using real-time threat intelligence
	Cisco Stealthwatch Enterprise	×	✓	✓	Branch network visibility and device-level incident response with packet capture and machine learning
	Encrypted Traffic Analytics	×	×	✓	Ability to find malicious activity in encrypted traffic without decryption

Cisco software subscription licenses for routing make it easy for IT to get started on their intent-based networking journey.

- Gain flexibility and investment protection
- License portability between on-prem and cloud management
- Access to ongoing routing innovations

Learn more about software subscription for routing at [cisco.com/go/dnawan](https://cisco.com/go/dnawan)