



# 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  |
|--|--|---|--|---|---|
| <br><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  |
| <br><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                                 |
| <br><b>Analytics and Assurance</b>    | Cisco 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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|--------------------------------------|---|---|--|---|--|
| <b>Optimization</b>                  | WAN optimization (Cisco WAAS with Akamai) | ×   | ✓  | ✓   | Improved application performance and WAN offload with Layer 4 through 7 optimization and intelligent caching |
| <b>Security and Compliance</b>       | 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

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## How to buy

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