

# Cisco 4451-X Integrated Services Router



## ENABLING THE ULTIMATE APPLICATION EXPERIENCE

Cisco® Integrated Services Routers (ISRs) are built on 30 years of our innovation and product leadership.

The Cisco 4451-X Integrated Services Router revolutionizes the delivery of application-aware services in a branch-office environment. This platform extends the Cisco ISR Family by providing Gigabit performance with extensive Layer 7 services hosted internally to the branch office while maximizing operating expenses (OpEx) savings.

The Cisco 4451-X offers a multicore CPU architecture running modular Cisco IOS® XE Software that quickly adapts to the changing needs of your branch-office environment, and enables IT to roll out services at the speed of business. The separation of the control and data planes provides the ability to deliver application-aware network services while maintaining a stable platform and a high level of performance during periods of heavy network load. With the ability to integrate application-aware services and the ability to scale performance without a complete equipment upgrade, the Cisco 4451-X offers exceptional total cost of ownership (TCO) savings and network agility through the intelligent integration of market-leading security, unified communications, and application services.

## Product Overview

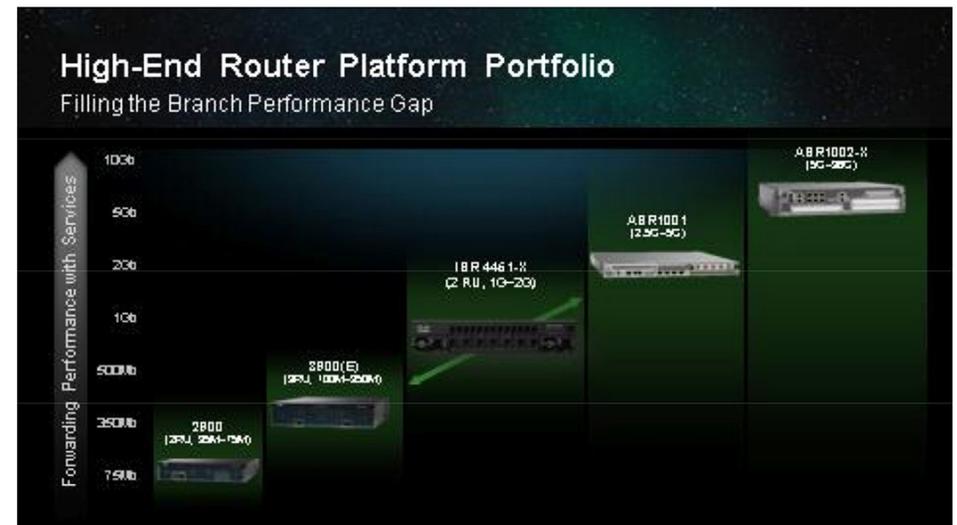
The Cisco 4451-X offers encryption acceleration, voice- and video-capable architecture, application firewall, call processing, and embedded services. In addition, the platform supports a range of wired connectivity options such as T1/E1, T3/E3, and fiber Gigabit Ethernet. This platform offers superior performance and flexibility for network deployments across large and medium-sized enterprise offices.

## Key Business Benefits

Cisco ISRs provide superior services integration and agility. Designed for scalability, the modular architecture of this platform enables you to evolve and adapt with your growing business needs. The business benefits of the Cisco 4451-X include the following:

- Rich services integration: The Cisco 4451-X Router offers services integration with voice, video, security, data, and embedded services.
- Pay-as-you-grow services: The Cisco 4451-X industry-first internal services plane allows for remote installation of application-aware services without compromise. Applications run and are managed identically to their counterparts in dedicated appliances.

- High performance with integrated services: The Cisco 4451-X enables deployment in high-speed WAN environments with concurrent services enabled up to 2 Gbps.
- Network agility: The Cisco 4451-X gives you the performance and services needed to accommodate the changes in the business environment brought about by the migration to cloud-based services.
- Application aware: The Cisco 4451-X provides comprehensive application services for visibility, control, and optimization to enable customers to successfully deploy, monitor, and troubleshoot applications from anywhere.
- Pervasive security: The Cisco 4451-X enables organizations to extend the Internet edge to the branch office with industry-leading VPN, including the FlexVPN unified configuration, robust threat defense with firewall and intrusion-prevention services, and consistent policy enforcement with Cisco TrustSec® security.
- Investment protection: The Cisco 4451-X maximizes investment protection by supporting a rich set of Cisco IOS XE Software features delivered in a single, universal image.





## Cisco ISR 4451-X Positioning

With a unique combination of services and performance flexibility, the Cisco ISR 4451-X fills a critical role in the Cisco ISR portfolio. The 4451-X brings the best of the rich services offered by the Cisco Integrated Services Routers Generation 2 (ISR G2) portfolio and the hardware-based performance of the Cisco ASR 1000 Aggregation Services Router to a platform designed for services deployment into a high-speed WAN environment.

## Cisco Services for the Branch Office

Services from Cisco and our certified partners can help you transform the branch-office experience and accelerate business innovation and growth with Borderless Networks. We have the depth and breadth of expertise to create a clear, replicable, optimized branch-office footprint across technologies that will help you:

- Increase the accuracy, speed, and efficiency of deployment
- Improve operational efficiency, save money, and mitigate risk
- Continuously improve performance

## For More Information

Please visit: [www.cisco.com/go/isr4451](http://www.cisco.com/go/isr4451).