

CISCO INTEGRATED SERVICES ROUTERS

SUPPORT THE CISCO SELF-DEFENDING NETWORK

WHAT IS A CISCO INTEGRATED SERVICES ROUTER?

Cisco Systems® is redefining best-in-class enterprise routing with a new series of routers optimized for secure, wire-speed delivery of concurrent data, voice, and video services.

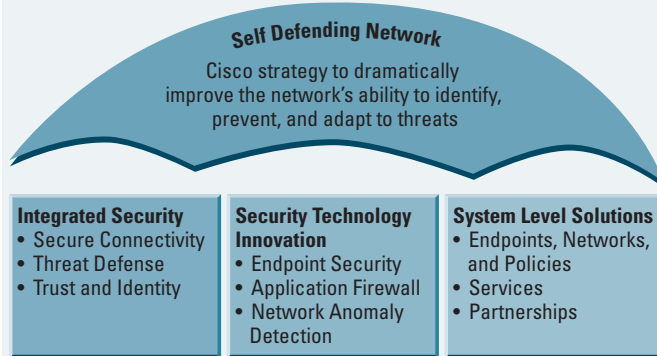
Founded on 20 years of leadership and innovation, Cisco® 800, 1800, 2800, and 3800 series integrated services routers intelligently embed data, security, and voice services into a single, resilient system for fast, scalable delivery of mission-critical business applications.

With up to five times the service densities, up to nine times the performance, and up to four times the memory of previous routers, Cisco integrated services routers are the first to provide both the performance and reliable packet delivery necessary to scale real-time applications for all customers, from small businesses to large enterprises, and managed service providers.

HOW CAN THESE NEW ROUTERS HELP SECURE MY NETWORK?

A primary component of the Cisco Self-Defending Network (SDN), Cisco integrated services routers include the industry's most comprehensive set of security services embedded within the router.

Cisco integrated services routers support advanced security services and management capabilities such as hardware encryption acceleration, IPsec VPN (AES, 3DES, DES), firewall protection, inline intrusion prevention (IPS), Network Admission Control (NAC), and URL filtering support. For ease of management and configuration, all integrated services routers ship with the intuitive, Web-based Cisco Router and Security Device Manager (SDM).



NEW INTEGRATED SYSTEMS ARCHITECTURE

Cisco integrated services routers use a high-performance, integrated systems architecture that maximizes flexibility, helping customers tailor network services to specific, evolving needs.

Embedded Functions

- High-performance centralized processor
- Voice* and security capabilities woven into motherboard fabric
- Flexible connectivity (Fast Ethernet, Gigabit Ethernet, USB, console, and auxiliary ports)

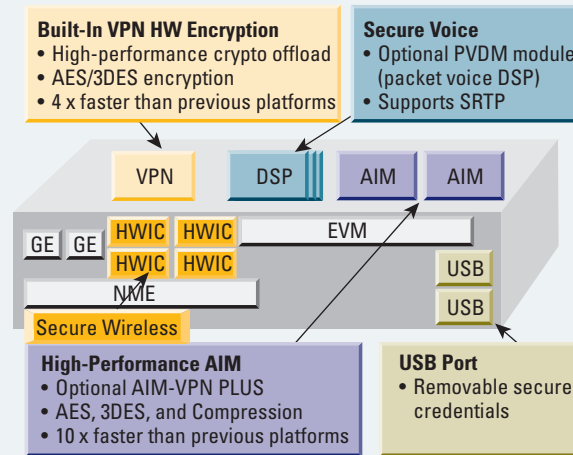
Modular Motherboard Functions

- Voice DSPs, Power over Ethernet, and multifunction AIMs*

High-Performance Intelligent Interfaces

- Mission-specific service modules and WAN interfaces

* 2800 and 3800 series routers



MORE CONCURRENT SECURITY SERVICES

This new architecture allows more security services to run concurrently at wire speed with data, voice, and video routing. With wire-speed performance, there is no compromise when security and additional services are “turned on.” This capability helps organizations apply comprehensive security services throughout their networks and build self-defending networks.

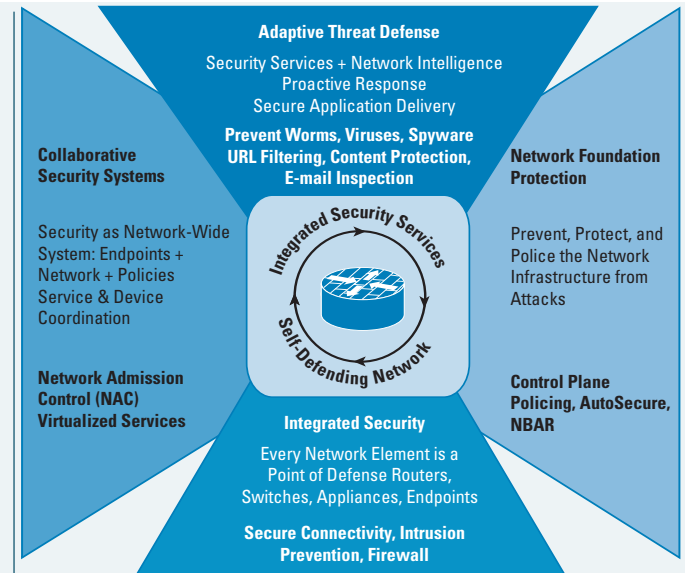
SECURE WIRELESS LAN SERVICES

The modular Cisco 1800, 2800, and 3800 series, and the fixed-configuration Cisco 850, 870, and 1800 Series integrated services routers offer a comprehensive suite of secure, enterprise-class wireless services to enable productivity enhancements. An integrated wireless LAN access point option (802.11b/g or 802.11a/b/g) is available with all integrated services routers including extensive wireless security such as WiFi Protected Access (WPA), a variety of authentication types, and survivable local authentication for wireless clients at remote sites.

INTEGRATED CISCO IOS SECURITY SERVICES

Cisco integrated services routers deliver collaborative network security services by combining Cisco IOS® Software features with modular hardware-based services. Examples of security solutions enabled by Cisco integrated services routers to support the Cisco Self-Defending Network are described below.

The Cisco IOS Software stateful Firewall is supported on all integrated services routers with the Cisco IOS Software Advanced Security Image and delivers per-application and denial-of-service security services, as well as application firewall services for Port 80 traffic.



Intrusion prevention and network-based application recognition (NBAR) are powerful technologies to mitigate worm and virus attacks. Customizable IPS signatures can be dynamically loaded and enabled in the router in real time, and with inline IOS IPS, the router can drop traffic, send an alarm, or reset the connection. NBAR can recognize and classify traffic, and can be configured to recognize worms such as MSBlaster and MyDoom.

Integrated services routers are an important element of NAC, helping networks to enforce network security policy and allowing only compliant endpoint devices access to the network.

Dynamic Multipoint VPN support lets the router establish on-demand, spoke-to-spoke links, eliminating the need to define static VPN maps. This saves administration time and helps optimize latency-sensitive applications like voice and video. MPLS-VPN support includes a mechanism to extend MPLS-VPN networks out to the customer edge with VRF firewall, and VRF IPsec.

To manage these services, every Cisco Integrated Services Router ships with the intuitive, Web-based Router and Security Device Manager.

WHY CISCO?

Cisco integrated services routers extend integrated services to businesses of all sizes and redefine best-in-class enterprise routing with new products engineered for secure, wire-speed delivery of concurrent data, voice, and video services.

FOR MORE INFORMATION

<http://www.cisco.com/go/isr>
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