

Benefits of Migrating to Cisco 4000 Series Integrated Services Routers



Branch Network Needs	Features	Previous Cisco Integrated Services Routers		Cisco 4000 Series Integrated Services Routers	Benefits
		First-Generation (Cisco 1800, 2800, and 3800 Series (EOL))	Generation 2 (ISR G2) (Cisco 1900, 2900, and 3900 Series)		
 Scale with high performance	Maximum throughput	Up to 50 Mbps	Up to 350 Mbps	Up to 2 Gbps	4 to 10 times performance increase for the same price as the ISR G2
	Separate data, control, and services planes	✗	✗	✓	Minimal performance impact as network services are added and throughput increases
	Integrated service container	✗	✗	✓	No need for additional branch appliances; add network services using pluggable virtual machines
	Integrated compute with Cisco UCS ^{®1} E-Series servers	✗	✓	✓	Local compute resources for applications, data backup, and analytics
	Cisco IOS [®] XE Operating System	✗	✗	✓	Higher availability for network services with multicore processing
 Uncompromised user experience	Cisco [®] Application Visibility and Control (AVC)	✗	✓	✓	Visibility into 1000+ applications for capacity planning and prioritization
	Intelligent path selection (PfR ² v3)	✗	✓	✓	Improve application experience and lower costs with path selection using real-time analytics
	WAN optimization (WAAS ³ and Akamai)	✗	✓	✓	Improve application performance and offload WAN with Layer 4-7 optimization and intelligent caching
 Security	Sourcefire [®] Intrusion Detection System (IDS)	✗	✓	✓	Industry-leading advanced threat defense
	Cloud Web Security with Advanced Malware Protection (AMP)	✗	✓	✓ ⁴	Scale secure direct Internet access with consistent policy enforcement
	Multicore hardware VPN acceleration	✗	✗	✓	High-performance encryption for secure WAN
 Reduced costs and business agility	Pay-as-you-grow performance and services	✗	✗	✓	Ability to buy what you need today and upgrade anytime without complete equipment upgrades
	Cisco ONE Software Suites	✗	✓	✓	Predictable OpEx spend, license portability, and investment protection
	Intelligent WAN app with Cisco APIC Enterprise Module	✗	✓	✓	Automated provisioning for faster deployment

¹ Cisco UCS – Cisco Unified Computing System™ ² PfR – Performance Routing ³ WAAS – Wide Area Application Services ⁴ Available 1H 2015

Learn more at www.cisco.com/go/isr4000