



INTEGRATED SERVICES ROUTER QUICKLOOK MIGRATION GUIDE



This new family of Integrated Services Routers supports the wire-speed delivery of secure, concurrent data, voice and video services over a wide variety of WAN access technologies, offering the highest levels of performance, security, scalability, and availability for today's medium-sized to large branch offices and businesses.

TOP TEN REASONS TO MIGRATE TO CISCO 1800 SERIES

1. Ability to run concurrent services at wire speed up to one T1/E1/xDSL
2. Five-fold increase in routing performance over the Cisco 1700 series
3. Enhanced security with onboard hardware encryption, Network Admission Control (NAC), and up to ten-fold security performance improvement over the 1721
4. Support for next generation of High-speed WAN Interface Cards (HWICs)
5. Optional integrated 10/100 switching and two onboard 10/100 LAN ports
6. Additional flexibility with internal AIM slot designated for higher speed VPN and future applications
7. Support for the latest Cisco IOS® Software-based QoS bandwidth management features
8. Greater slot density and performance for interface cards
9. Advanced device management provided by Cisco Router and Security Device Manager
10. USB Port for future applications, including off-platform storage of VPN credentials

TOP TEN REASONS TO MIGRATE TO CISCO 2800 SERIES

1. Ability to run multiple concurrent integrated services at wire speed, up to multiple T1/E1/xDSL links
2. Up to a five-fold improvement in the routing performance versus the Cisco 1700 and 2600 series
3. Up to a ten-fold security and voice performance improvement versus the Cisco 1700 and 2600 series
4. Enhanced security with onboard encryption hardware and support for Cisco Self-Defending Network services, including network device protection, threat defence, secure connectivity, and endpoint protection and control
5. Optimised for voice, with integrated slots for DSPs on the motherboard (PVDMs) on all models and a new Extension Voice Module (EVM) slot on the Cisco 2821 and Cisco 2851
6. Support for optional integrated inline power supply for use with managed 10/100 Switch Modules with Power over Ethernet (PoE)
7. Support for new High-speed WAN Interface Cards (HWICs) and enhanced Network Modules (NMEs) enables more advanced services and provides new connectivity options
8. More LAN connections and higher LAN speed connectivity with two 10/100 (Cisco 2801 and Cisco 2811) or two 10/100/1000 (Cisco 2821 and Cisco 2851) ports on the motherboard
9. Greater slot density and performance for interface cards for future applications, up to four HWIC slots per router, two USB ports, one NME, one EMV slot, three PVDM slots, and two AIM slots in a single router
10. Provides maximum investment protection by coming with higher default and maximum Flash and DRAM memory and supporting up to 90 existing interface cards and modules

TOP TEN REASONS TO MIGRATE TO CISCO 3800 SERIES

1. Ability to run concurrent data, security, voice, and advanced services at wire speed up to T3/E3
2. Two to three times the routing performance and throughput of the Cisco 3700 Series family
3. Higher availability and resiliency with Online Insertion and Removal (OIR) and redundant system and inline power options
4. Enhanced security with onboard encryption hardware and Cisco Self-Defending Network Services, including network device protection, threat defence, secure connectivity, and endpoint protection and control
5. Optimised for voice with integrated slots for DSPs on the motherboard (PVDMs), call processing and auto-attendant solution, and high-density interfaces for IP Communications
6. Support for up to four High-speed WAN interface Cards (HWICs), four Enhanced Network Modules (NMEs), and four DSPs enables more integrated advanced services and offers the highest density platform configuration options
7. Two onboard 10/100/1000 LAN ports, optional SFP port, and optional integrated inline power supplies for 802.3af-compliant (Power over Ethernet (PoE)) devices
8. Expanded default and maximum memory capacity with ECC (Error Correction Code) DDR SDRAM memory to detect and correct SDRAM errors without user intervention
9. Maximum investment protection: IOS features parity with Cisco 3700 and support for existing portfolio of NM, WIC/VIC/VWIC, and AIM modules, as well as roadmap of enhanced HWIC, NME, and USB interfaces
10. Advanced management for routing, security, QoS and switching services with Cisco Router and Security Device Manager (SDM) 2.1

TOP FIVE REASONS TO MIGRATE TO CISCO 850 SERIES ROUTER

1. Increased Performance for Secure Connectivity with Stateful Firewall and 3DES and AES IPSec encryption
2. Increased Default and Max Memory Architecture
3. 802.11 b/g WLAN Option with single Fixed Antenna
4. Four-Port 10/100 MB LAN Switch
5. 10/100 Ethernet WAN Port on Cisco 851

TOP TEN REASONS TO MIGRATE TO CISCO 870 SERIES ROUTER

1. Increased Performance for Running Concurrent Services with Broadband Connections
2. Advanced Security Features Including Stateful Firewall, 3DES and AES IPSec Encryption, Antivirus Through NAC, IPS
3. Four-Port 10/100 MB Managed LAN Switch with DMZ Ports
4. 802.11b/g WLAN Option with External, Replaceable Antennas

5. External PoE Adapter Option for Connecting IP Phones or Access Points
6. Increased Default and Max Memory Architecture
7. 10/100 Ethernet WAN Port on Cisco 871
8. Dual USB 2.0 Ports (Cisco 871) for Security Tokens
9. ADSL 2+ and G.SHDSL 4-Wire Support (on ADSL and G.SHDSL models)
10. Integrated ISDN BRI for Dial Back up on Cisco 876 and for Out of Band Management on Cisco 878

EXPANDED FEATURES AND INCREASED SCALABILITY

Feature	851	857	871	876	877	878	1801	1802	1803	1811	1812	1841	2801	2811	2821	2851	3825	3845
Form Factor	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	1 RU	1 RU	1 RU	1 RU	19" and NEBS/ ETSI rack mount	19" and NEBS/ ETSI rack mount
Integrated LAN ports	4 10/100	4 10/100	4 10/100	4 10/100	4 10/100	4 10/100	8 10/100	8 10/100	8 10/100	8 10/100	8 10/100	2	2 - 10/100	2 - 10/100	2 - 10/100/1000	2 - 10/100/1000	2 - 10/100/1000	2 - 10/100/1000
Interface Slots							1WIC	2WIC VVIC	2WIC VVIC	2WIC VVIC	2WIC VVIC		2HWIC/WIC/VIC/ VVIC,1WIC/VIC	2HWIC/WIC/VIC/ VVIC	2HWIC/WIC/VIC/ VVIC	1, NM, NMD, NME, NME-X, NMEX	4HWIC/WIC/VIC/ VVIC	4HWIC/WIC/VIC/ VVIC
Network Module Slots													No	1, NM, NME	1, NM, NME NME-X	1	2	4
Extension Voice Slots													No	No	1	1		
AIM Slots							No	No	No	No	No	Yes	2	2	2	2	2	
USB Port			Yes 2(v2.0)				No	No	No	2(v2.0)	2(v2.0)	1(v1.1)	1(v1.1) AC, AC-IP	2(v1.1) AC, AC-IP, DC External RPS	2(v1.1) AC, AC-IP, DC External RPS	2(v1.1) AC, AC-IP, DC External RPS	2(v1.1)	2(v1.1)
Power Supply Options (AC-IP Maximum Inline Power Distribution)													120W	160W	240W	360W		
Compact Flash													Default: 64MB Maximum: 384MB	Default: 64MB Maximum: 384MB	Default: 64MB Maximum: 384MB	Default: 64MB Maximum: 384MB		
Embedded Crypto Processor							Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Default/Max Flash	20MB/32MB	20MB/32MB	24MB/52MB	24MB/52MB	24MB/52MB	24MB/52MB	32MB/ 128MB	32MB/ 128MB	32MB/ 128MB	32MB/ 128MB	32MB/ 128MB	32MB/ 128MB	64MB/256MB	64MB/256MB	64MB/256MB	64MB/256MB	64MB/256MB	64MB/256MB
Default/Max DRAM	128MB/ 128MB	128MB/ 128MB	128MB/ 256MB	128MB/ 256MB	128MB/ 256MB	128MB/ 256MB	128MB/ 384MB	128MB/ 384MB	128MB/ 384MB	128MB/ 384MB	128MB/ 384MB	128MB/ 384MB	Default:128MB Maximum:384MB	Default:256MB Maximum:760MB	Default:256MB Maximum:1GB	Default:256MB Maximum:1GB	256MB/1024MB	256MB/1024MB
Default/Max SDRAM																	1	1
Switch Ports with Optional Inline Power			Yes with external adapter	Yes with external adapter	Yes with external adapter	Yes with external adapter	8 No PoE	8 No PoE	8 No PoE	8 PoE with external adapter	8 PoE with external adapter	No	Yes up to 16	Yes up to 24	Yes up to 24	Yes up to 44	Yes up to 52	Yes up to 72
Wireless Option	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WAN Technology	100MB Ethernet	ADSL over POTS	10/100MB Ethernet	ADSL over ISDN	ADSL over POTS	G.SHDSL (4-wire)	ADSL over POTS	ADSL over ISDN	G.SHDSL									

ADVANCED SECURITY

[illegible]