

## Cisco Small and Medium Business Product Guide



## **Purpose Built SMB Solutions**

Cisco offers routers, switches, security devices, VPNs, wireless LANs (WLANs), IPC solutions, and the software necessary to integrate each element into a secure, productive, reliable, and easy-to-manage network.

Cisco's unique end-to-end networking solutions allow organizations to communicate, collaborate and compete more effectively by providing real time access to information, enhanced communication and improved business processes for today while helping companies evolve to meet constantly changing business requirements.

Cisco's purpose built commercial networking solutions provide customers a roadmap for implementing technology to meet their current and future business needs.

• Integrated, End-to-End Security—To safeguard confidential business data, a Cisco<sup>®</sup> network provides enhanced security that protects the network from internal and external threats. An integrated security solution also simplifies security management and greatly reduces the total cost of ownership of the network.

- High Network Availability—A Cisco network helps ensure the reliable network access and maximum uptime that companies depend on to support new users, open new offices, deploy new services, extend their networks to customers and partners, support a more mobile workforce, and more. Cisco switches and routers include support for network and link redundancy, dynamic routing, automatic failover, and redundant power for improved fault tolerance and network availability.
- Predictable Performance—Intelligent end-to-end management maximizes the availability and performance of critical applications. Cost-conscious small and mediumsized businesses (SMBs) can maximize WAN bandwidth to serve more users and conduct more business over the Internet without upgrading to more expensive WAN facilities.
- Ease of Use—Intuitive end-to-end Web-based management helps keep administrative expenses down—even as the network expands.

- Cost-Effectiveness—An end-to-end solution approach reduces complexity and network management costs. Modular and scalable products help reduce costs of future expansion.
- Investment Protection—Customers can receive trade-in value for existing Cisco products against the purchase of new Cisco products.

### Wireless Solutions Enable People to Work Productively, Onsite, While Away from their Desks.

Cisco Aironet® wireless solutions:

- Provide secure, affordable, upgradable, and easy-to-use WLAN solutions.
- Deliver industry-leading security with the IEEE 802.1Xbased Cisco Wireless Security Suite.
- Support data rates of up to 54 Mbps (IEEE 802.11g) with backward compatibility to 802.11b equipment.
- Make management easy and straightforward.
- Support local power and inline Power over Ethernet (PoE).
- Provide dual-mode support for 801.11a and 802.11g (Cisco Aironet 1200 Series and Cisco ISR 3800, 2800, 1800 only).

### Cisco Catalyst<sup>®</sup> Switches Provide High Performance, Increased Network Intelligence, Better Control, and Enhanced Security.

Robust and reliable, Cisco Catalyst switches:

- Provide superior control of traffic to maximize network availability for every user.
- Intelligently allocate priority to critical business applications.
- Provide advanced security to protect vital business data and confidential information.
- Are easy to install and to configure using Cisco Network Assistant.
- Are available in standalone, stackable, or modular configurations.

### Security is an Issue for Every Company.

Cisco security solutions help protect your network from inside and out, encompassing:

- VPNs, firewalls, access control lists (ACLs), and intrusion detection systems (IDSs) that can be deployed on Cisco routers, switches, and specialized Cisco PIX<sup>®</sup> and ASA<sup>®</sup> security appliances.
- Tools such as Cisco Easy VPN, Auto Update, and comprehensive configuration and monitoring solutions for easy deployment and management.

### Integrated Services Routers Provide Highly Secure, Intelligent and Flexible WAN and Internet Access Solutions.

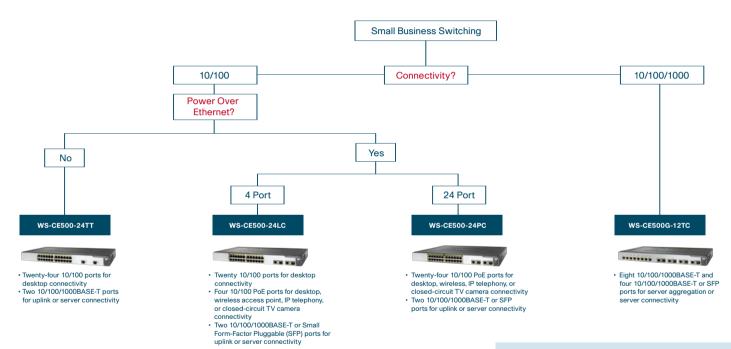
Cisco Integrated Services Routers:

- Provide secure firewall and VPN capabilities.
- Span solutions from the service provider and enterprise edge to branch, teleworker, and small offices.
- Offer enhanced performance, support for voice, and additional security features.

# IP Communications is the Convergence of Data, Voice, and Video Solutions onto a Single (IP-Based) Network.

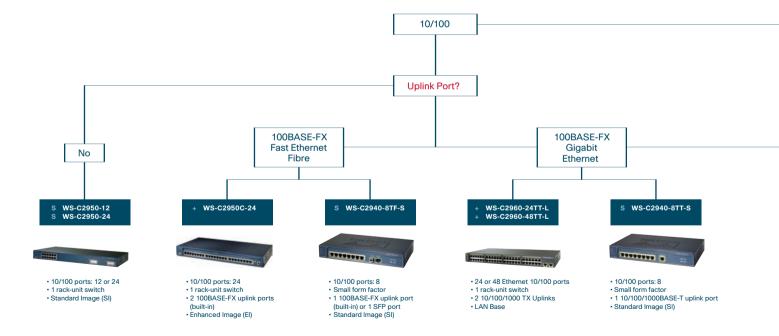
IP communications can play a critical part in helping a company to identify new ways to generate revenue, reduce operational costs, increase organizational flexibility, and generate a sustainable competitive advantage.

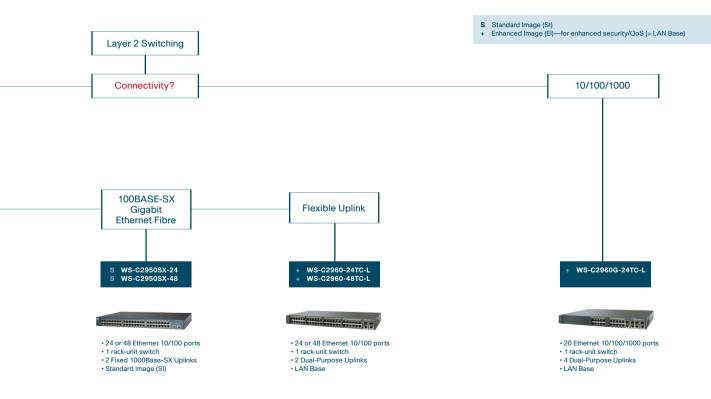
### **Cisco Catalyst Express Series Small Business Switches**



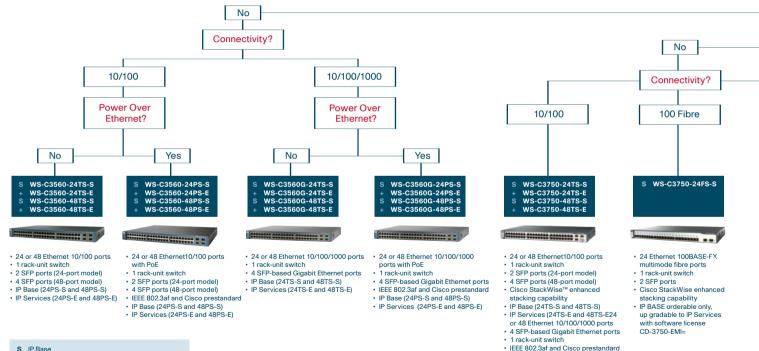
NOTE: Cisco Catalyst Express switches are Web/GUI managed only with preset configuration options.

## **Cisco Catalyst Series Layer 2 Access Switches**





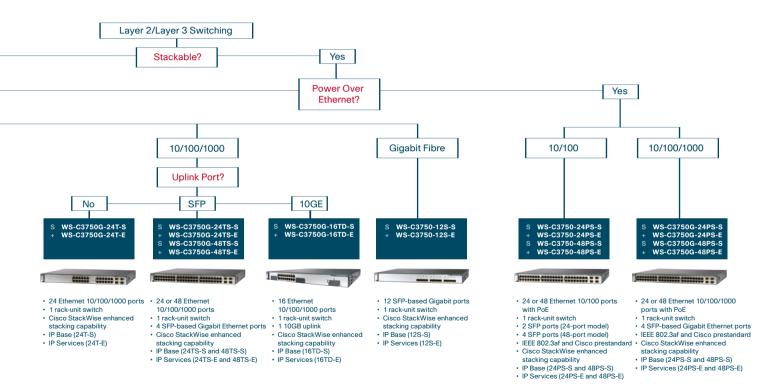
### **Cisco Catalyst Series Switches** Layer 2 and 3 Core Switches



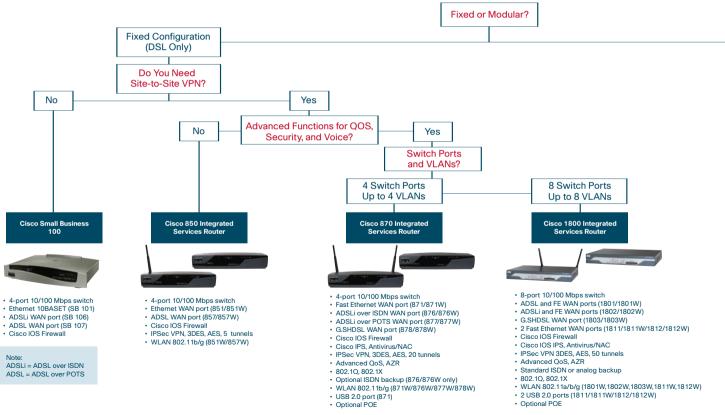
LAN Base (24PS-S and 48PS-S)

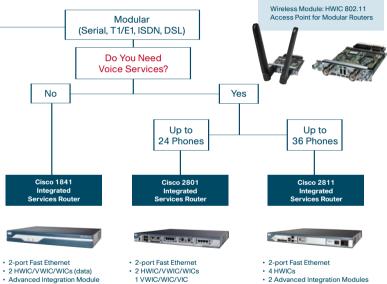
IP Services (24PS-E and 48PS-E)

- S IP Base
- + IP Services for enhanced security/QoS/routing



## **Cisco Routers Broadband Routing**





- Cisco IOS Firewall
- · Cisco IOS IPS, Antivirus/NAC
- · IPSec VPN, up to 800 tunnels
- Advanced QoS
- 802.1Q, 802.1X

- 1 VWIC/VIC (voice only)
- 2 Advanced Integration Modules
  - Cisco IOS Firewall
  - Cisco IOS Prewaii
    Cisco IOS IPS, Antivirus, NAC
  - IPSec VPN, up to 1,500 tunnels
  - Advanced OoS
- Advanced QoS
  802.10.802.1X
- 2 onboard PVDM Slots
- 2 Oliboard P VDIVI Sibis
- Optional CME, SRST, Voice Mail, PoE

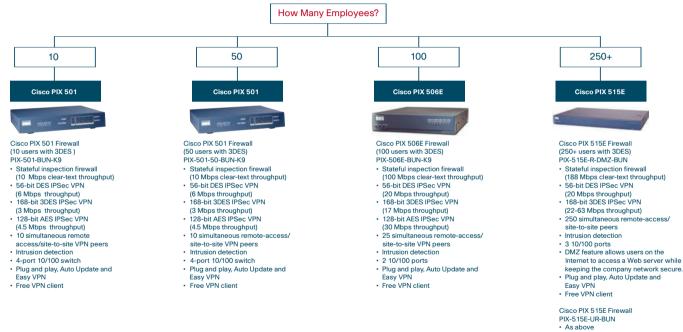
- Cisco IOS Firewall
- Cisco IOS IPS, Antivirus/NAC
- · IPSec VPN, up to 1,500 tunnels
- Advanced QoS
- 802.1Q, 802.1X
- 2 onboard PVDM Slots
- 1-port Network Module Extended (NME)
- Optional CME, SRST, Voice Mail, PoE

# Cisco Router and Security Device Manager

- Intuitive, Web-based interface for securely managing a single remote Cisco router
- Intelligent Wizards enable quick deployment of network environment, security services, wireless access, and QoS policy features
- Innovative security auditing capability to check and recommend changes to router configuration
- Simple monitoring and troubleshooting tools for day-to-day operations



## **Cisco PIX Security Appliances**



- VPN accelerator card provides:
- 168-bit 3DES IPSec VPN (140 Mbps throughput)
- 128-bit AES IPSec VPN (135 Mbps throughput)
- 2000 simultaneous remote-access/ site-to-site peers

### **Cisco Adaptive Security Device Manager**

- Intuitive, Web-based interface for securely managing a single remote Cisco PIX or ASA Security Appliance
- Web-based real-time monitoring of CPU/memory utilization, interface throughput, connections, and VPN tunnels.
- Full-featured wizards for initial firewall and VPN configuration
- More than 100 predefined services for simplified security policy creation



## **Cisco ASA Security Appliances**

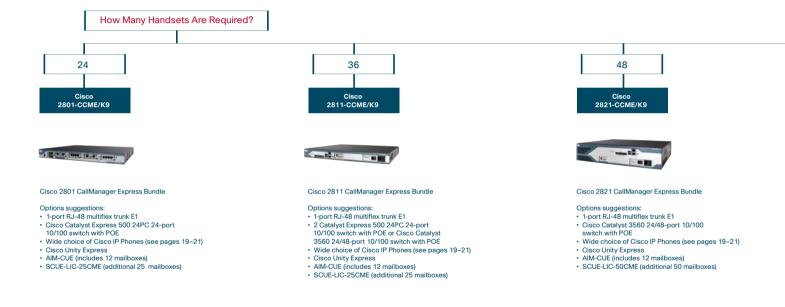


### **Cisco Adaptive Security Device Manager**

- Intuitive, Web-based interface for securely managing a single remote Cisco PIX or ASA Security Appliance
- Web-based real-time monitoring of CPU/memory utilization, interface throughput, connections, and VPN tunnels.
- Full-featured wizards for initial firewall and VPN configuration
- More than 100 predefined services for simplified security policy creation



## **Cisco IP Communications Solutions**







#### Cisco 2851 CallManager Express Bundle

#### Options suggestions:

- 1-port RJ-48 multiflex trunk E1
- Cisco Catalyst Switch 3560 24/48-port 10/100 switch with POE or Catalyst 3750
- Choice of Cisco IP Phones (see pages 19-21)
- Cisco Unity Express
- NM-CUE (includes 12 mailboxes)
- SCUE-LIC-100CME (additional 100 mailboxes)





#### Cisco 3825 CallManager Express Bundle

#### Options suggestions:

- · 2-port RJ-48 multiflex trunk E1
- Cisco Catalyst Switch 3560 24/48-port 10/100 switch with POE or Catalyst 3750
- Choice of Cisco IP Phones (see pages 19-21)
- Voicemail option: Cisco Unity Express or Unity (depending on the number of mailboxes required)





#### Cisco 3845 CallManager Express Bundle

#### Options suggestions:

- · 2-port RJ-48 multiflex trunk E1
- 1-port RJ-48 multiflex trunk E1
- Cisco Catalyst Switch 3560 24/48-port 10/100 switch with POE or Catalyst 3750
- Choice of Cisco IP Phones (see pages 19-21)
- Voicemail option: Cisco Unity Express or Unity (depending on the number of mailboxes required)

## **Cisco IP Communications Solutions**

### **Selecting WAN and Voice Modules**

- VIC-2E/M—2-port E&M VIC
- VIC-2FXS—2-port analog FXS VIC
- VIC-2FXO—2-port analog FXO VIC
- VIC-2FXO-EU—2-port analog FXO VIC (for Europe)
- VIC-2BRI-NT/TE—2-port BRI VIC (NT and TE)
- VIC-2BRI-S/T-TE—2-port BRI VIC (terminal)
- VWIC2-1MFT-E1—1-port E1/PRI VWIC
- VWIC2-2MFT-E1—2-port E1/PRI VWIC
- VIC2-2FXS—2-port VIC (FXS)
- VIC2-2FXO—2-port VIC (FXO: universal)
- VIC2-4FXO—4-port VIC (FXO: universal)
- VIC2-2E/M—2-port E&M VIC
- VIC2-2BRI-NT/TE—2-port BRI VIC (NT and TE)
- 1-slot IP Communications voice/fax network module (up to 4 channels of analog/BRI voice)
- 2-slot IP Communications voice/fax network module (up to 8 channels of analog/BRI voice)
- 2-slot IP Communications enhanced voice/fax network module (up to 24 channels of analog/BRI voice)

### New Cisco CallManager Express 3.3 Features Available with Cisco IOS Release 12.4

- Support for 240 IP phones
- Transcoding
- Soft-key customization
- Loopback DN Free
- CUE H.323 to SIP hairpin

- SCCP to RCFC 2833 DTMF support
- Direct FXO line select
- DND divert call to voicemail
- Call waiting beep suppression
- Overlay DN called name display
- · Longest idle hunt group with call statistics
- Conference initiator drop-off

### Features from Cisco CallManager Express 3.1.1 Maintenance Release

- Japanese Katakana (1-byte) localization
- Cisco IP Conference Station 7936 support
- H.323 integration with Cisco CallManager 4.0

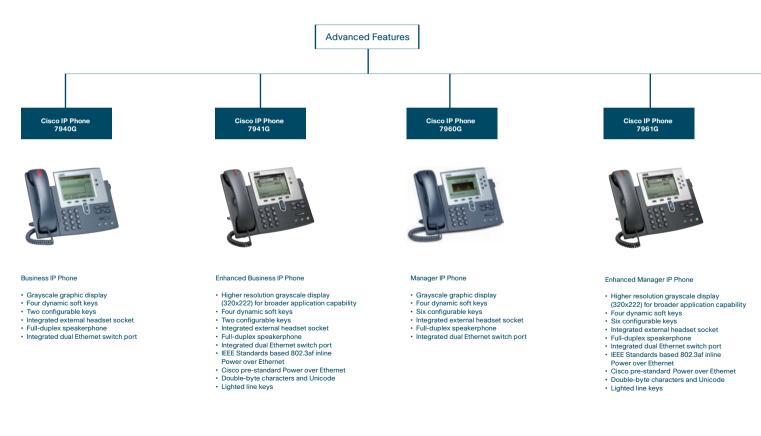
### Features from Cisco CallManager Express 3.2.1 with Cisco IOS Software Release 12.3(11)XL (Released November 14)

- Basic ACD (3 queues) with call statistics
- Cisco IP Phone 7970G (Cisco CallManager Express and SRST)
- Cisco IP Phone 7971G-GE (CME and SRST)
- Call waiting with overlay DN
- Call waiting ring
- Feature ring with DND set
- VIC2-4FXO/DID now supports DID mode in addition to FXO
- Cisco IOS Firewall now supports inspection of locally generated H.323 packets

## **Cisco IP Phones**



## **Cisco IP Phones**





## **Cisco Aironet Family**



## Links

### **Product Links**

Cisco Catalyst Series Switches www.cisco.com/go/switching

**Cisco Routers** www.cisco.com/go/routers

**Cisco Security Solutions** www.cisco.com/go/security

Cisco Wireless Networking Products www.cisco.com/go/wireless

### **Cisco IP Communications**

www.cisco.com/go/ipc



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