

Cisco Configuration Assistant

Configuring a Small Business's Routing, Switching, Wireless, Security, and Voice Network with a Single, Easy-to-Use Tool

Cisco® Configuration Assistant simplifies the task of configuring, deploying, and administering Cisco small business network solutions. Designed specifically for small business networks serving up to 100 users, this PC-based application with a simple graphical user interface (GUI) that allows you to discover and configure Cisco Smart Business Communications System (SBCS) platforms. (For a full list of platforms supported, refer to Table 1.) After the network is deployed, Cisco Configuration Assistant can synchronize network configuration settings, provide troubleshooting tools, and present the real-time status of all of the Cisco small business devices in the network. Together, these capabilities substantially reduce the time the system administrator must devote to deploying and configuring the network.

A Comprehensive Communications Solution

Cisco Configuration Assistant provides comprehensive configuration, deployment, and ongoing network management support by the system administrator for the entire line of products in the Cisco SBCS. For a full list of supported features, refer to the SBCS 2.0 Feature Reference Guide.

- **Setup wizards:** Cisco Configuration Assistant 2.2 includes an easy-to-use telephony setup wizard that allows users to configure IP addressing functions such as the WAN IP address and the voice and data VLAN IP address. The wizard also adds configuration options for automated attendant, business schedules, localization, inbound and outbound dial plans, users and phones, and call blast and hunt groups.

The Video Monitoring wizard provides trouble-free setup for streaming Video from a Cisco Small Business Video Surveillance Camera to a Cisco SPA525G wireless IP phone.

The Phone VPN wizard configures the SSL-VPN client on the Cisco SPA525G wireless IP phone, enabling voice connectivity to and from any remote location with internet access

- **Voice configuration:** Cisco Configuration Assistant can interact with and configure key voice applications and devices. Simply access the telephony services through the phone icon on the Cisco Configuration Assistant dashboard to easily set up and configure the phone system's users and phones. Cisco Configuration Assistant supports multisite configuration, allowing a maximum of five Cisco Unified Communications 500 sites to be networked together in a full-mesh data and voice virtual private network (VPN).
- **Security configuration:** Cisco Configuration Assistant allows users to activate the most commonly used Cisco software security features, including Network Address Translation (NAT) and firewalls. The tool can also configure the Cisco Unified Communications 500 Series as a VPN server or the Cisco 500 Series Secure Router as a VPN client.

In addition, Cisco Configuration Assistant supports advanced security functions such as intrusion prevention (IPS), URL filtering, and voice over IP (VoIP) pass-through on the Cisco 500 Series Secure Routers.

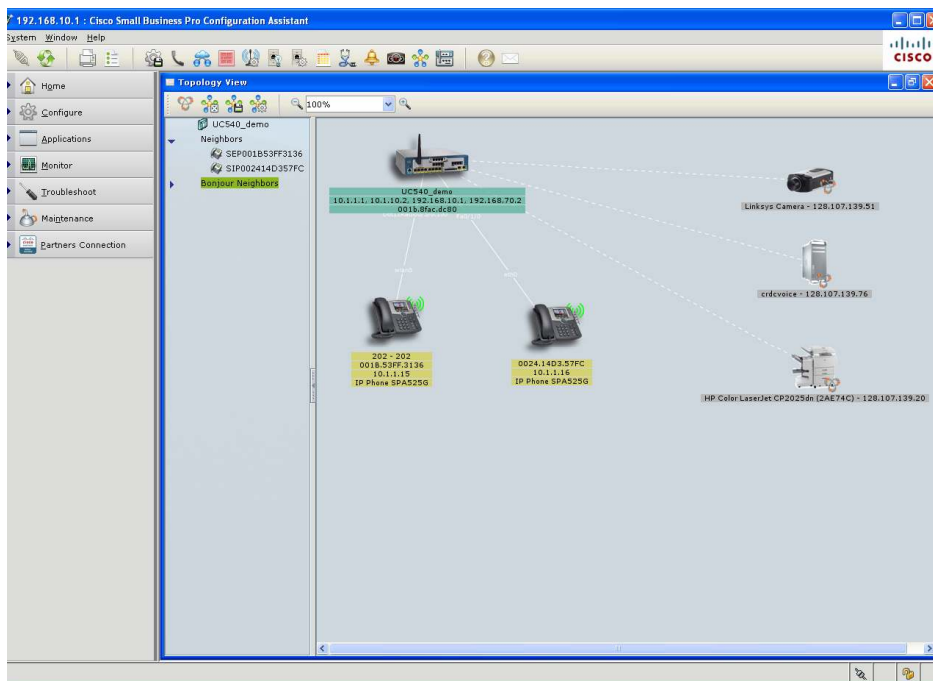
- **Switch configuration:** Cisco Configuration Assistant provides a quick and easy way to configure LAN ports on the Cisco Unified Communications 500 Series and the Cisco Catalyst® Express and ESW 500 Series Switches. The tool enables dynamic VLAN assignment of voice and data traffic and simplifies activation of QoS, security, and Power over Ethernet (PoE) features. The Smartports feature in Cisco Configuration Assistant allows each switch port to be customized to match the device that is connected, whether it is an IP phone, PC, access point, router, or LAN switch.

Features and Benefits

Cisco Configuration Assistant provides the following features and benefits:

- **Multiple network views:** Users can view the status of devices and monitor the network from three perspectives: the System Dashboard, Topology View, or Front Panel View. The Enhanced Topology View (Figure 1) is an intuitive, diagram that auto discovers connected Cisco devices and 3rd party devices using the Bonjour protocol. Cisco Configuration Assistant can launch the Web interface for 3rd party devices via the Topology view, and perform software upgrades for supported devices such as the Cisco WVC2300 Business Internet Video Camera.

Figure 1. Enhanced Topology View in Cisco Configuration Assistant



- **Network synchronization:** This feature detects inconsistent settings in the network, such as VLAN mismatches, incorrect time settings, and problems with security policies. Working with the Troubleshooting Advisor, users can easily detect and fix these inconsistencies. Error notification messages also appear on the System Dashboard.
- **Simplified troubleshooting:** Cisco Configuration Assistant can consolidate all the system logs required into a single archive with one button press. This archive can be sent to Cisco technical support for troubleshooting. For troubleshooting basic network connectivity, Cisco Configuration Assistant supports common utilities such as ping and traceroute, which can be run from a Cisco SBCS device. For the Cisco Unified Communications 500 Series, Cisco Configuration Assistant also supports voice diagnostics for testing inbound and outbound dial plans, without the need to make test calls from an IP phone.

For advanced troubleshooting, Cisco Configuration Assistant can enable commonly used Cisco IOS® Software debug commands and include the output from these commands in the troubleshooting log, which can be sent to Cisco technical support for further troubleshooting.

Supported Devices

Cisco Configuration Assistant supports the following Cisco Unified IP Phone models:

- Cisco Unified IP phones 7900 Series: 7906G, 7911G, 7931G, 7940G, 7941G, 7941G-GE, 7942G, 7945G, 7960G, 7961G, 7961G-GE, 7962G, 7965G, 7970G, 7971G-GE, 7975G, Cisco Unified IP Conference Station 7936 and 7937G; Cisco Unified IP Phone Expansion Module 7914, 7915, and 7916; Cisco Unified Wireless IP Phone 7921G and 7925G
- Cisco Small Business PRO IP Phones: SPA501G, SPA502G, SPA504G, SPA508G, SPA509G, and the SPA525G wireless IP phones. Cisco SPA 500S Expansion Module support, max 2 per phone for total of 64 buttons
- Cisco Unified IP phone 500 Series: 521G, 521SG, 524G, and 524SG
- Cisco IP Communicator; Cisco Unified Video Advantage, Cisco ATA 186 Analog Telephone Adapter

Table 1 describes the supported unified communications, wireless, LAN switching, and router platforms.

Table 1. Platforms Supported by Cisco Configuration Assistant

Cisco Unified Communications 500 Series for Small Business	
UC560-16U-4FXO-K9	UC platform with 4 public switched telephone network (PSTN) trunks (FXO), 4 analog ports (FXS), 3 Gigabitethernet expansion ports, 2 virtual interface card (VIC) slot for expansion,
UC560-16U-2BRI-K9	UC platform with 2 public switched telephone network (PSTN) trunks (BRI), 4 analog ports (FXS), 3 Gigabitethernet expansion ports, 2 virtual interface card (VIC) slot for expansion,
UC560-16U-T-E-F-K9	UC platform with T1/E1 voice interface, 4 public switched telephone network (PSTN) trunks (FXO), 4 analog ports (FXS), 3 Gigabitethernet expansion ports, 2 virtual interface card (VIC) slot for expansion,
UC560-16U-T-E-B-K9	UC platform with T1/E1 voice interface, 2 public switched telephone network (PSTN) trunks (BRI), 4 analog ports (FXS), 3 Gigabitethernet expansion ports, 2 virtual interface card (VIC) slot for expansion,
UC540W-4FXO-K9	UC platform with 4 public switched telephone network (PSTN) trunks (FXO), 4 analog ports (FXS), 8 PoE ports, 1 virtual interface card (VIC) slot for expansion, Integrated Wi-Fi Access Point
UC540W-2BRI-K9	UC platform with 2 Basic Rate Interface (BRI) trunks, 4 analog ports (FXS), 8 PoE ports, 1 virtual interface card (VIC) slot for expansion. Integrated Wi-Fi Access Point
UC520-8U-4FXO-K9	8-user configuration with 4 PSTN trunks (FXO), 4 analog ports (FXS), 8 PoE ports, 1 virtual interface card (VIC) slot for expansion
UC520-8U-4FXO-K9	8-user configuration with 4 PSTN trunks (FXO), 4 analog ports (FXS), 8 PoE ports, 1 virtual interface card (VIC) slot for expansion
UC520-8U-2BRI-K9	8-user configuration with 2 BRI trunks, 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520-16U-4FXO-K9	16-user configuration with 4 PSTN trunks (FXO), 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520-16U-2BRI-K9	16-user configuration with 2 BRI trunks, 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520W-8U-4FXO-K9	8-user configuration with 4 PSTN trunks (FXO), 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520W-8U-2BRI-K9	8-user configuration with 2 BRI trunks, 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520W-16U-4FXO-K9	16-user configuration with 4 PSTN trunks (FXO), 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520W-16U-2BRI-K9	16-user configuration with 2 BRI trunks, 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520-24U-8FXO-K9	24-user configuration with 8 PSTN trunks (FXO), 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520-24U-4BRI-K9	24-user configuration with 4 BRI trunks (BRI), 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520-32U-8FXO-K9	32-user configuration with 8 PSTN trunks (FXO), 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520-32U-4BRI-K9	32-user configuration with 4 BRI trunks, 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520-48U-12FXO-K9	48-user configuration with 12 PSTN trunks (FXO), 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520-48U-6BRI-K9	48-user configuration with 6 BRI trunks, 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion

UC520-48U-T/E/F-K9	48-user configuration with T1/E1 voice interface, 4 PSTN trunks (FXO), 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
UC520-48U-T/E/B-K9	48-user configuration with T1/E1 voice interface, 2 BRI trunks, 4 analog ports (FXS), 8 PoE ports, 1 VIC slot for expansion
Cisco 520 Series Secure Routers	
SR520-FE-K9	Secure router with Fast Ethernet
SR520-ADSL-K9	Secure router with asymmetric DSL (ADSL) over basic telephone service
SR520-ADSLI-K9	Secure router with ADSL over ISDN
SR520W-FE-K9	Secure router with Fast Ethernet and 802.11g radio
SR520W-ADSL-K9	Secure router with ADSL over basic telephone service and 802.11g radio
SR520W-ADSLI-K9	Secure router with ADSL over ISDN and 802.11g radio
SR500-T1-K9	Secure router with T1
Voice Interface Cards	
VIC3-2FXS/DID	2-port FXS voice/fax interface card
VIC-4FXS/DID	4-port FXS voice/fax interface card
VIC3-4FXS/DID	4-port FXS voice/fax interface card
VIC2-2FXO	2-port FXO voice/fax interface card
VIC2-4FXO	4-port FXO voice/fax interface card
VWIC2-1MFT-T1/E1	T1/E1 voice interface card
VIC2-2BRI-NT/TE	2-port BRI voice/fax interface card
Cisco Wireless Access Points	
AIR-AP521G-A-K9 AP521G-E-K9 AIR-AP521G-P-K9	Cisco 521 Wireless Express Access Point (Cisco IOS Software)
AIR-LAP521G-A-K9 AIR-LAP521G-E-K9 AIR-LAP521G-P-K9	Cisco 521 Wireless Express Access Point (Cisco Unified Wireless Network Software)
AIR-WLC526-K9	Cisco 526 Wireless Express Mobility Controller
WLAN-AP541N-X-K9	Cisco 541 Wireless N Access Point
Cisco Catalyst Express 520 Series Switches	
WS-CE520-8PC-K9	Eight 10/100 access ports with PoE and one 10/100/1000BASE-T or Small Form-Factor Pluggable (SFP) uplink
WS-CE520-24TT-K9	Twenty-four 10/100 access ports and two 10/100/1000BASE-T uplinks
WS-CE520-24LC-K9	Twenty 10/100 access ports, four 10/100 access ports with PoE ports, and two 10/100/1000BASE-T uplinks
WS-CE520-24PC-K9	Twenty-four 10/100 access ports with PoE and two 10/100/1000BASE-T or SFP uplinks
WS-CE520G-24TC-K9	Twenty-four 10/100/1000BASE-T ports and two 10/100/1000BASE-T or SFP uplinks
Cisco Small Business Pro ESW 500 Series Switches	
ESW-520-24-K9	24-port Fast Ethernet Switch
ESW-520-24P-K9	24-port Fast Ethernet Switch with PoE
ESW-520-48-K9	48-port Fast Ethernet Switch
ESW-520-48P-K9	48-port Fast Ethernet Switch with PoE
ESW-540-24-K9	24- port Gigabit Ethernet Switch
ESW-540-24P-K9	24- port Gigabit Ethernet Switch with PoE
ESW-540-48-K9	48- port Gigabit Ethernet Switch
ESW-520-8P-K9	8-port Fast Ethernet Switch with PoE
ESW-540-8P-K9	8-port Gigabit Ethernet Switch with PoE

Cisco Small Business Video Surveillance Cameras	
WVC-2300	Wireless-G Business Internet Video Camera with Audio
PVC-2300	Business Internet Video Camera with PoE

Maximum Supported Devices

Cisco Configuration Assistant supports up to 25 non-IP phone devices in a small office network, including:

- Combination of five Cisco Unified Communications 500 Series or Cisco 500 Series Secure Routers
- 10 autonomous wireless access points
- Two wireless controllers

System Requirements

Table 2 describes the minimum system requirements for Cisco Configuration Assistant.

Table 2. Cisco Configuration Assistant Minimum System Requirements

System Requirements	
Operating systems	Windows: Windows XP Professional (Service Pack 1 or later) or Windows Vista Ultimate (32 bit or 64 bit) Microsoft Internet Explorer 6.0 or later, with Adobe Flash Player 10 or later
Mac OS support (requires virtualization software)	<ul style="list-style-type: none"> • Mac OS: 10.4.10 and later • Virtual OS: Parallels Desktop: 3.0 / VMware Fusion: 1.0 • Guest OS: Windows XP (Service Pack 2 or later) or Windows Vista Ultimate. Cisco Configuration Assistant also supports remote control via Virtual Network Computing (VNC) clients
Disk space	200 MB minimum, 400 MB recommended
Hardware	PC with Fast Ethernet or higher LAN port
Memory	512 MB minimum, 1024 MB recommended
Processor	1-GHz Pentium IV or higher
Screen resolution	1024 x 768 minimum, 1280 x 1024 recommended

The number of Cisco Unified IP Phones supported depends on the user license capacity of the Cisco Unified Communications 500 Series and the available switch ports in the network.

For more information about Cisco Configuration Assistant, or to download the tool free of charge, visit:

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



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