



UC 500 and SR500 Secure Router Setup

The Cisco SR500 provide asymmetric digital subscriber line (ADSL) or FastEthernet WAN termination and advanced security features for a Cisco Smart Business Communications System (SBCS) network. This document describes how to connect a Cisco UC 500 behind a Cisco SR500 in secure router mode. It includes the following sections:

- Configuring the Cisco UC 500
- Configuring the Cisco SR500
- Creating a Customer Site for the Cisco UC 500 and SR500

Prerequisites:

- UC 500 Series Router
- SR500 Series Router
- A PC with an operating system that supports Cisco Configuration Assistant: Windows Vista Ultimate or Windows XP, Service Pack 1 or later
- Cisco Configuration Assistant with version 1.8 or higher installed

Connect your Cisco UC 500 to a Windows PC, as shown in Figure 5-1.

Figure 5-1 Cisco UC 500 Connection



Configuring the Cisco UC 500

Network address translation (NAT) is not required on the UC 500 in this configuration, because the SR500 manages NAT for the network. To configure the Cisco UC 500 using CCA, do the following:

Step 1 In the Connect window, click the Hostname/IP Address tab and enter the Cisco UC 500 LAN IP address.

Connect	
Customer Sites Host Name / IP Address Advanced Options	
SBCS_LAB	
	Add a New Site
	Modify Site
	Delete Site
Site Description	
SBCS Documentation Lab	
OK Cancel Help	

- Step 2 Enter your Cisco UC 500 administrator username and password.
- **Step 3** Go to **Configure** > **Security** > **NAT**.
- Step 4 From the Outside Interface menu on the NAT window, select Delete Interface.
- **Step 5** Click **Apply** to disable NAT on the UC 500. (The Cisco SR500 will NAT incoming and outgoing Internet traffic; the Cisco UC 500 does not require that NAT is enabled.)

NAT NAT	
Devices	
Hostname: UC520 🖌	
Outside interface: Delete Interface 🗸 Details	
🥖 Type of Service 🖉 Private IP Address 🥖 Original Port 🖉 Translated Port	
Fire	Add Delete wall Service
OK Apply Refresh Cancel Help	
Original value: FastEthernet0/0	

Step 6 Go to **Configure > Security > Firewall and DMZ**.

irewall and DMZ		
evices		
Hostna	ame: UC520 😽	
DMZ		
	Inside(trusted)	Interfaces
Outside(untrusted) Interface	/	Interface Name
EactEthernet0/0		FastEthernet0/0
		Integrated-Service 🗸
	Total Rows: 5	
Low Medium Description -Do not identify application specific traffic -Return TCP and UDP traffic on sessions initiated inside the firewall	High	DNS Primary: Secondary (optional):

- Step 7 Click Delete Firewall Settings.
- **Step 8** Click **Yes** to clear the warning message. This deletes the firewall settings from Cisco UC 500. A firewall is not required on Cisco UC 500, because the Cisco SR500 provides a firewall for the network.
- **Step 9** Go to **Setup > Device Setup Wizard**.
- Step 10 Select UC500 from the menu and click Next.

Step 11 Click **Next** until device connectivity is verified. It might take 2-3 minutes to verify the device connectivity.

	- [-] 🔼
Step 5: Please wait while we verify connection with device	
The wizard checks whether the device is connected to the PC properly and is ready to receive commands.	
informs you of the results.	
Device connectivity status	
Success: Connected.	
< Previous Next > Finish	Cancel g

Step 12 Click Next.

Step 13 Enter your UC 500 administrator username and password. The default username is **cisco**. The default password is **cisco**.

Hostname and Cr	edentials
Hostname:	UC520
Username:	cisco
Password:	****
Confirm Password:	****

Step 14 Click Next.

Synchro	up param	eters		
Month:	August	🗸 Day:	24 💙 Year: 2008 🗸	
Hour:	21 🗸	Minute:	19 🗸	
Time Zone:	(GMT - 08):00) Pacific T	Fime (US, Canada); Tijuana	~
🔽 Daylight	Saving Tir	ne		

Step 15 Verify that the **Synchronize with PC** checkbox is checked. This synchronizes the time and date settings on the UC 500 with your PC and click **Next**.

Internet Connection		
Devices	Hostname: UC520 💌	
WAN Interfaces	Type	Information
FastEthernet0/0	Static IP	FastEthernet
	Modify	
ок	Apply Refresh Cancel	Help

Step 16 Select Fastethernet0/0 and click Modify.

Modify Internet Conne	ction 🚺 🖸 🔀
🗹 Enable WAN Interface	
	PPPoE
Username: Password: Re-enter Pass	word:
⊙ Static IP ○ DHCP ○ I	P Negotiated
Internet IP Address:	192.168.75.2
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.75.1
Primary DNS:	208.67.222.222
Secondary DNS(optional):	208.67.220.220
ОК	Cancel Help g
Original value:	1 68

Step 17 In the Internet IP Address field, enter 192.168.75.2.

Step 18 Choose Static IP.

Step 19 Enter the **Primary DNS** IP address and the **Secondary DNS** IP address that match the DNS server IP addresses used in your network and click **OK**.

IP Address:	192.1	.68.10.1	
Subnet Mask:	255.2	55.255.0	
DHCP Pool			
Network:		192.168.10.1	
Subnet Mask:		255.255.255.0	
Primary DNS:		208.67.222.222	
Secondary DNS(optic	nal):	208.67.220.220	
Default Gateway:		192.168.10.1	
DHCP Exclusions			
Start IP Address	: 192	.168.10.1	
- 1 I I	192	168 10 10	

Step 20 Click Next.

Local Settings		
Region:	United States	
Phone Language:	US English	
Voicemail Language:	US English	
Location of Language Files:	isco Configuration Assistant\appdata\phoneloads\	197
		189

- Step 21 Select your language from the Phone Language menu, and voicemail language.
- Step 22 Select your language Voicemail Language menu.

See the "Changing the System Locale on the UC 500" section on page 3-3 for instructions on how to localize the Cisco UC 500 for non-US/English locales.

Step 23 Click Next.

Hostname: U Username: c Region: U Phone Language: U Voicemail Language: U AN1 Summary IP Address: 192.1 Subnet Mask: 255.2 DHCP Server Vetwork: Subnet Mask: 2rimary DNS:	C520 isco Inited States IS English S English 68.10.1 55.255.0 192.168.10.1		
Username: c Region: U Phone Language: U Voicemail Language: U AN1 Summary IP Address IP Address: 192.1 Subnet Mask: 255.2 DHCP Server Vetwork: Subnet Mask: Primary DNS:	isco Inited States IS English IS English 68.10.1 55.255.0 192.168.10.1		
Region: U Phone Language: U Voicemail Language: U AN1 Summary IP Address IP Address: 192.1 Subnet Mask: 255.2 DHCP Server Vetwork: Subnet Mask: Primary DNS:	nited States IS English IS English 68.10.1 55.255.0 192.168.10.1		
Phone Language: U Voicemail Language: U AN1 Summary IP Address IP Address: 192.1 Subnet Mask: 255.2 DHCP Server Vetwork: Subnet Mask: Primary DNS:	S English S English 68.10.1 55.255.0 192.168.10.1		
Voicemail Language: U AN1 Summary IP Address IP Address: 192.1 Subnet Mask: 255.2 DHCP Server Vetwork: Subnet Mask: Primary DNS:	S English 68.10.1 55.255.0 192.168.10.1		
AN1 Summary IP Address 192.1 Subnet Mask: 255.2 DHCP Server Vetwork: Subnet Mask: Primary DNS:	68.10.1 55.255.0 192.168.10.1		
IP Address IP Address: 192.1 Subnet Mask: 255.2 DHCP Server Vetwork: Subnet Mask: Primary DNS:	68.10.1 55.255.0 192.168.10.1		
IP Address: 192:1 Subnet Mask: 255.2 DHCP Server Vetwork: Subnet Mask: Primary DNS:	68.10.1 55.255.0 192.168.10.1		
Subnet Mask: 255.2 DHCP Server Vetwork: Subnet Mask: Primary DNS:	55.255.0		
DHCP Server Network: Subnet Mask: Primary DNS:	192.168.10.1		
Network: Subnet Mask: Primary DNS:	192.168.10.1		
Subnet Mask: Primary DNS:			
Primary DNS:	255.255.255.0		
	208.67.222.222		
Secondary DNS(optional):	208.67.220.220		
Default Gateway:	192.168.10.1		
DHCP Exclusions			
Start IP Address: 192	.168.10.1		
End IP Address: 192	.168.10.10		
arning			
ne setup process may take	up to 10 minute:	;	
< Previous	Next >	Finish	Cance

- Step 24 Verify your settings. To make any changes, click **Previous**; otherwise, click **Finish**.
- **Step 25** Click **Yes** when the warning displays.

Note

e If you retained the VLAN 1 IP address of 192.168.10.1, Cisco Configuration Assistant does not lose connectivity to the Cisco UC 500 and applies the configuration settings to the Cisco UC 500. This process can take 8-10 minutes

Once the process is complete, you should see the following message.

Finish status	
Success: The settings have been applied to the device.	
Press Close to exit.	189191

- Step 26 Click Close to exit the setup wizard.
- **Step 27** Go to **Configure > Save Configuration** and click **Save**.

Configuring the Cisco SR500

Connect your Cisco UC 500, Cisco SR500, and Windows PC as shown in Figure 5-2.



Your Internet/WAN connection might be an ADSL or an Ethernet connection, depending on the Cisco SR500 chassis type.

Step 1 Enter the SR500 LAN IP address in the Connect to field in Cisco Configuration Assistant.

Connect			
O Create community			
 Connect to: 	192.168.75.1 💌		
Options >>			
ОКС	Cancel Help	189186	

If your connection is rejected, it might be necessary to manually release and renew your DHCP lease to obtain an IP address from the Cisco SR500, by doing the following:

- 1. From the Windows start menu, select Start > Run.
- 2. Enter CMD in the Open field to launch a Windows Command window.
- 3. Enter ipconfig /release at the Windows command prompt.

4. Enter **ipconfig /renew** at the Windows command prompt. You should get an IP address that is in the 192.168.75.xxx network. For example:

C:\temp>ipconfig /renew

Windows IP Configuration

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix.: cisco.com			
IP Address	: 192.168.75.11		
Subnet Mask	: 255.255.255.0		
Default Gateway	: 192.168.75.1		

Step 2 Go to **Setup > Device Setup Wizard**.

Device Setup Wizard	
Step 1: Select a device	
Use this wizard to make a device ready to use if it is new or it has been reset to its factory defaults. Begin by selecting the model of the device that you want to set up.	Select a device: SR520 💌
	B.B.
	TALE OF THE PARTY
	< Previous Next > Finish Cancel 50

- Step 3 From the Select a device menu, select SR500 and click Next.
- **Step 4** Click **Next** until device connectivity is verified. It might take 2-3 minutes to verify the device connectivity.
- **Step 5** Enter your Cisco SR500 administrator username and password. The default username is **admin**. The default password is **admin**.
- **Step 6** Verify that the **Synchronize with PC** checkbox is checked. This synchronizes the time and date settings on the UC 500 with your PC and click **Next**.

Step 7 If you are using WAN FastEthernet, the following window displays:

Device Setup Wizard			
Step 8 of 9: Enter IP Address and other device setup parameters			
To enable an Internet connection, follow these 1. Choose an interface from the WAN in 2. Click Modify , and use the Modify Inter 3. To save your changes and to close th	steps: terfaces list. ret Connection window. re window, click OK .		
WAN Interfaces			
Interface	Туре	Information	
FastEthernet4	DHCP	FastEthernet	
	(Faite)		
	Edit		
	< Pre	vious Next > Finish Cancel	
	< Pre	vious Next > Finish Cancel	

Select Fastethernet4 and click Edit.

If you are using ADSL, the following window displays:

Device Setup Wizard			
Step 8 of 9: Enter IP Address and other device setup parameters			
To enable an Internet connection, follow thes 1. Choose an interface from the WAN 2. Click Modify , and use the Modify Ini 3. To save your changes and to close	se steps: I nterfaces list. ernet Connection window. the window, click OK .		
WAN Interfaces			
Interface	Туре	Information	
АТМО	Not configured yet	ADSL	
ATM0.1	PPPoE - IP Negotiated	ADSL	
	Edit		
		< Previous Next > Finish Cancel	
		< Previous Next > Finish Cancel	

Select ATM0.1 and click Edit.

Step 8 Specify your Cisco SR500 Internet connection settings and click **OK**. These settings vary depending on which provider and what WAN type you are using to connect to the Internet. For example:

DHCP with FastEthernet

🔲 Mo	dify Internet Connection			
Plea	Please delete NAT/VPN/Firewal to enable this button			
	🖌 Enable WAN Interface			
	РРРо В			
	Username: Password: Re-enter Password:			
O st	O Static IP O DHCP IP Negotiated			
Inte	rnet IP Address:			
Sub	Subnet Mask:			
Defa	ault Gateway:			
OK Cancel Help				
		180		

PPPoE with FastEthernet.

The username and password should match the account information provided by your Internet service provider.

Modify Internet Connection			
Please delete NAT/VPN/Firewal to enable this button			
✓ Enable WAN Interface			
PPPoE			
Username: adsImodemuser			
Password: ****			
Re-enter Password: *****			
Static IP ODHCP IP Negotiated			
Internet IP Address:			
Subnet Mask:			
Default Gateway:			
OK Cancel Help			
Original value:			

PPPoE with ADSL.

The username and password should match the account information provided by your Internet service provider.

Modify Internet Connection			
Please delete NAT/VPN/Firewal to enable this button			
Enable WAN Interface			
PPPoE ORFC 1483 Routing			
Virtual Path Identifier (VPI): 0			
Virtual Circuit Identifier (VCI): 35			
Username: dsluser			
Password: ****			
Re-enter Password: *****			
◯ Static IP ◯ DHCP ⊙ IP Negotiated			
Internet IP Address:			
Subnet Mask:			
Default Gateway:			
OK Cancel Help			
000 C			

Step 9 Click Next. Verify your settings. To make any changes, click Previous; otherwise click Finish. After 1-2 minutes, the Summary message displays.



Step 10 Click Close.

The configuration of the Cisco SR500 is complete.

Creating a Customer Site for the Cisco UC 500 and SR500

To create a customer site that includes both the Cisco UC 500 and the Cisco SR500, do the following:

- Step 1 Start Configuration Assistant. In the Connect window, select the Customer Sites tab and click Add a New Site.
- **Step 2** In the **Create a New Customer Site** window, enter a name and description for the customer site.

Name: moo_BETA Advanced Company Name: CiscoSystems					
Discover devices					
Discover: devices using a seed IP address 🛩					
Seed IP Address: 192.168.75.1					
Start					
Devices					
🥖 Member	IP Address	Hostname	Device Type	C	Status
	192.168.75.1	SR520	SR520W-FE	https	🕜 Disco
	192.168.75.2	UC520	UC520W-8U-2BRI	https	🕜 Disco

- Step 3 Enter the Cisco SR500 IP address in the Seed IP Address field. Click Start.
- **Step 4** When prompted, enter the Cisco UC 500 and the Cisco SR500 administrator usernames and passwords. Click **OK**.

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Step 5 In Topology view, verify that the Cisco UC 500 is connected behind the Cisco SR500.



Step 6 Go to **Configure > Save Configuration**.

Step 7 Select All Devices in the Hostname menu. Click Save.



The configuration is complete.

You can now connect your Cisco Configuration Assistant PC to any LAN port on the Cisco UC 500 or Cisco SR500 to access the customer site you created, allowing you to monitor the network and modify the device configurations.

You should connect all LAN devices, such as PCs, IP phones, printers, switches, and access points, to the Cisco UC 500 LAN ports to access the WAN or the Internet from the LAN devices. LAN devices connected to the UC 500 have secure access to the WAN and the Internet, because they are protected by the security features you enabled on the Cisco SR500.

You might choose to connect DMZ devices, such as Web servers or email servers, to the Cisco SR500.