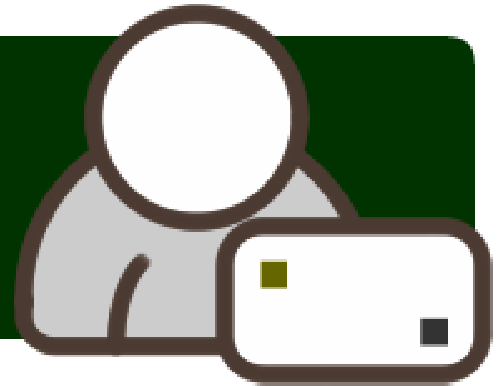


Phoneserve OMNI Device Quickstart Guide



Cisco 827-4V LAN Configuration

Device Details

Device Type:	4-Port VoIP Router
Manufacturer:	Cisco
Model:	4V

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Before you begin

Verify that you have the following:

- Cisco 827-4V Router and Power Supply
- Cisco 827 Router Cabling and Set-up Quick Start Guide
- An Ethernet cable (See figure below). The cable is usually provided as part of the Cisco 827 package
- IP Network details (IP address, Subnet Mask)
- PC and Ethernet cable initially for configuration of the Cisco 827. A PC is used for monitoring and reporting of the Gateway status, but this does not have to be local to the Cisco 827.
- At least one analogue phone with an RJ11 connector.
- Phoneserve literature including:

Phoneserve *Omni Quick Install Guide* (this document)

Phoneserve *Omni Account Details* (available from your account manager)

Phoneserve *Omni user instructions* (available from your account manager)

Cabling the Cisco 827 to your existing LAN

Figure 2. The back of the Cisco 827-4V



- Connect the ETHERNET port from the Cisco 827 to a spare port on your exiting LAN using the yellow Ethernet cable provided by Cisco.
- Ensure the 'TO HUB/TO PC' switch on the Cisco 827 is set to the 'TO HUB' position (in).
- Connect up to 4 analogue phones to the PHONES ports starting with port 1.
- Connect the power supply to the Cisco 827 and turn on the power switch on the back of the 827.

Configuring the Cisco 827

By default, a brand new Cisco 827 is configured with IP Address 10.10.10.1, which in most instances will need to be changed to either a different static address (a dedicated IP address that will not change) or configured for DHCP (IP address allocated by DHCP server, every time you log on).

IMPORTANT :

We recommend configuring the Cisco 827 using the sample configuration procedure below using the IOS (Internal Operating System) command line interface. Do not configure the router using CRWS (Cisco Router Web Start), as this will overwrite critical sections of the SIP configuration and prevent the router from passing SIP messages to Phoneserve.

Log in to the Cisco 827:

Your 827 will have been switched on for a few minutes now, and should have finished its power-up tests and basic configurations.

Using the supplied console cable, connect the to the 'console' port on the 827. Connect the other end to the serial port of a PC.

Go to your pc and launch HyperTerminal® (by going to Start\Programs\Accessories\Communications\Hyper Terminal) or similar software.

When you use this software for the first time you will be asked to enter a Name and select an icon. This option allows you to save your settings for the device you are configuring.

(For example: Enter Cisco 827 in the name field and select your preferred icon. Next time you log-on to your Cisco 827 you can click directly on that saved icon to get to the console, without having to enter your telephone details and COM port details.)

You will be asked to enter your country of residence, local area telephone code and Which COM port to use. You need to select a COM Port and click ok.

```
Connect using: COM1 (select correct serial port)
Bits per second: 9600
Data bits: 8
Parity: none
Stop bits: 1
Flow Control: none
```

Hit return and you should see the ROUTER> prompt.

Software Versions

To be able to use our service with the Cisco 827 gateway one of the following software (IOS) versions need to be running:

IP/VOICE 12.2(8)YN -or- IP/VOICE PLUS 12.2(8)YN

Both of these images require 32Mb main memory (DRAM) and 8Mb of flash memory. Details of the supplied memory and flash will be detailed on the documentation supplied with the Cisco 827.

For details on how to obtain these versions and upgrade the Cisco 827, please refer to the Cisco website or Cisco instruction manuals.

To determine the software version running on the 827, enter the “**show version**” command from the command line, once you are logged in (see below).

Configuration of the Cisco 827 for Phoneserve

Enter the information written in **bold** according to the following instructions and replace any details written in *italics* with the relevant information (Enter the configuration commands carefully, one per line):

```
ROUTER>enable
ROUTER#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
ROUTER(config)#
```

ENABLE VOIP PARAMETERS:

```
ROUTER(config)#ip tcp path-mtu-discovery
ROUTER(config)#voice call send-alert
ROUTER(config)#voice rtp send-recv
ROUTER(config)#voice service voip
ROUTER(conf-voi-serv)#sip
ROUTER(conf-serv-sip)#session transport tcp
ROUTER(conf-serv-sip)#rel1xx disable
ROUTER(conf-serv-sip)#voice class codec 1
ROUTER(config-class)#codec preference 1 g729br8
ROUTER(config-class)#codec preference 2 g723r63
ROUTER(config-class)#codec preference 3 g729r8
```

CONNECTING USING ETHERNET PORT

a. Using DHCP

```
ROUTER(config)#interface Ethernet0
ROUTER(config-if)#ip address dhcp (there may be a short delay after this command is entered)
ROUTER(config-if)#no shut
```

b. Entering your IP address manually

```
ROUTER(config)#interface Ethernet0
ROUTER(config-if)#ip address IP address subnet mask
ROUTER(config-if)#no shut
```

If you are configuring the Cisco 827 manually you also need to enter your default gateway and DNS server details. (This step is not required if using DHCP.)

```
ROUTER(config)#ip route 0.0.0.0 0.0.0.0 IP address of gateway
ROUTER(config)#ip name-server IP address of DNS server
```

HTTP Management Tool

If you enable the management tool you can manage the gateway with HTTP (through your browser). Please note, that this is a security risk, as this makes the gateway accessible with http from the Internet.

Option 1: DISABLE HTTP MANAGEMENT

```
ROUTER(config)#no ip http server
```

Option 2: ENABLE MANAGEMENT TOOL

```
ROUTER(config)#ip http server
ROUTER(config)#ip http authentication local
ROUTER(config)#username Username privilege 15 password 0 Password
```

CONFIGURE VOICE PORTS

```
ROUTER(config)#voice-port 1
ROUTER(config-voiceport)#timeouts interdigit 5
ROUTER(config-voiceport)#voice-port 2
ROUTER(config-voiceport)#timeouts interdigit 5
ROUTER(config-voiceport)#voice-port 3
ROUTER(config-voiceport)#timeouts interdigit 5
ROUTER(config-voiceport)#voice-port 4
ROUTER(config-voiceport)#timeouts interdigit 5
```

ENTER PHONESERVE ACCOUNT NUMBERS

```
ROUTER(config-voiceport)#dial-peer voice 1 pots
ROUTER(config-dial-peer)#destination-pattern Enter the first Omni
Child account and PIN here
ROUTER(config-dial-peer)#port 1
ROUTER(config-dial-peer)#dial-peer voice 2 pots
ROUTER(config-dial-peer)#destination-pattern Enter the second Omni
Child account and PIN here
ROUTER(config-dial-peer)#port 2
ROUTER(config-dial-peer)#dial-peer voice 3 pots
ROUTER(config-dial-peer)#destination-pattern Enter the third Omni
Child account and PIN here
ROUTER(config-dial-peer)#port 3
```

```
ROUTER(config-dial-peer)#dial-peer voice 4 pots
ROUTER(config-dial-peer)#destination-pattern Enter the fourth Omni
Child account and PIN here
ROUTER(config-dial-peer)#port 4
```

CONFIGURE VOIP DIAL PEER

```
ROUTER(config-dial-peer)#dial-peer voice 201 voip
ROUTER(config-dial-peer)#destination-pattern .T
ROUTER(config-dial-peer)#session protocol sipv2
ROUTER(config-dial-peer)#session target dns:adpl.winnerip.com
ROUTER(config-dial-peer)#voice-class codec 1
ROUTER(config-dial-peer)#dtmf-relay rtp-nte
ROUTER(config-dial-peer)#no vad
ROUTER(config-dial-peer)#exit
ROUTER(config)#exit
```

SAVE THE CONFIGURATION

```
ROUTER# write mem
Building configuration...
[OK]
ROUTER#
```

The configuration is now complete!

Contacto & Comentarios

Esperamos que haya encontrado útiles los contenidos de esta guía. Sin embargo, si desea enviarnos sus sugerencias para incluir información adicional en la guía o mejorarla de alguna manera, simplemente escríbanos a este correo: info@phoneserve.com

Todas los requerimientos de información relativos a esta guía deben dirigirse a:

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