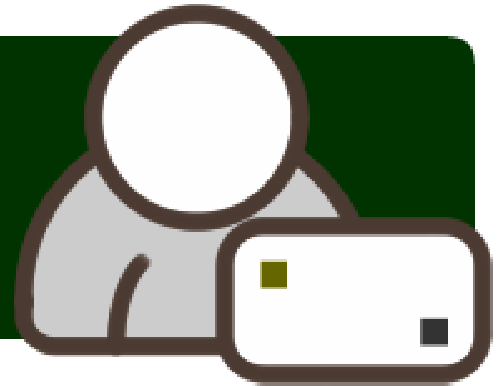


# Phoneserve OMNI

## Device Quickstart Guide



## Addpac 1000

### Device Details

<b>Device Type:</b>	FXS 4-Port Telephone Adapter
<b>Manufacturer:</b>	Addpac
<b>Model:</b>	1000

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## 1. Before you begin

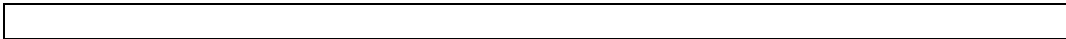
Verify that you have the following...

- Addpac AP1000 and Power Supply.
- A network (LAN/Ethernet) cable to connect the AP1000 to the Internet. (This cable is usually provided as part of the AP1000 package.)
- IP Network details (if you are not using DHCP - IP address, subnet mask, IP gateway address, DNS server details)
- PC and a serial port and the supplied console cable.
- 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 your Account Manager)



## 2. Cabling the AP1000

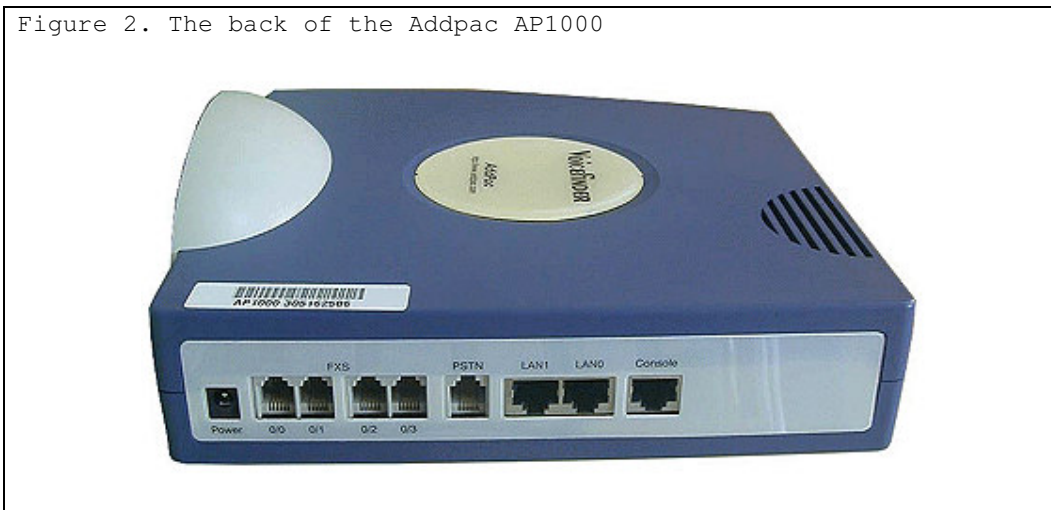
Connect the ETHERNET cable to LAN0 port on the gateway.

Connect up to 2 analogue phones to the PHONES ports starting with FXS port 0.

Connect the power supply to the AP1000.

Using the supplied console cable, connect the to the 'console' port on the AP1000.  
Connect the other end to the serial port of a PC.

Figure 2. The back of the Addpac AP1000



## 3. Configuring the AP1000 software

### a. How to start

The easiest and most reliable way to configure the AP1000 is through the console interface. Please follow the configuration instructions below:

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

When you use the HyperTerminal® 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 AP1000 in the name field and select your preferred icon. Next time you logon to your AP1000 you can click directly on that saved icon to get to the AP1000 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 COM Port to which the console cable is connected and click ok.

Now connect using the following parameters:

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

Click on **OK** to open the console screen and press enter to bring up the "login>" prompt.

The default login details are:

Username **root**

Password **router** (you will not see this entry!)

You should end up at the 'AP1000#' prompt.

### b. Software version:

The AP1000 should be running software revision 6.120 or 8.10 (see example below).

To determine the software version running on the AP1000, enter the command:

**show version** from the command line, once you are logged in. (Example:

AP1000#**show version** and press enter)

The following information will be displayed (software version is highlighted):

```
VoiceFinder Gateway Series (AP1000B)
Serial Number: AP1000B-0052b2
32BIT RISC Processor With 16777216 Bytes System Memory
524288 Bytes System Flash Memory
```

2097152 Bytes 2nd System Flash Memory

1 RS232 Serial Console Interface  
2 Ethernet/IEEE 802.3 Interface

**AP1000B System software Revision 6.120**

Released at Mon Jun 16 10:45:00 2003  
Program is 1521620 bytes, checksum is 0xc294a38

or

VoiceFinder Gateway Series (AP1000B)  
Serial Number: AP1000B-0052b2  
32BIT RISC Processor With 16777216 Bytes System Memory  
524288 Bytes System Flash Memory  
2097152 Bytes 2nd System Flash Memory

1 RS232 Serial Console Interface  
2 Ethernet/IEEE 802.3 Interface

**AP1000B System software Revision 8.10**

Released at Mon Jun 16 10:45:00 2003  
Program is 1521620 bytes, checksum is 0xc294a38

For details on how to obtain these versions and upgrade the AP1000, please refer to the Addpac website or contact your Account Manager.

### Configuring the AP1000 to use Phonseserve OMNI

There are two ways to configure the AP1000, either using **DHCP** (allocates IP address, NetMask and IP gateway addresses automatically) **or by entering all the details manually.**

By default, a brand new AP1000B is configured to use DHCP on a network. If your LAN has a DHCP device the AP1000 should be allocated an IP address and gateway address for your network automatically.

If not you will have to configure the IP address and default gateway manually.

**IMPORTANT :**

We recommend configuring the AP1000 using the sample configuration procedure below. Do not configure the AP1000 using web interface as it does not support all the SIP commands.

You can check if an IP address, subnet mask and IP gateway address have been allocated to the AP1000 by typing in the following commands:

**show interface ether0.0 (will display your IP address & subnet mask)**

**show route (will display the default gateway address)**

**Example:** (please note that the IP details will be different on your network from the example below):

```
AP1000# show interface ether0.0
Interface : ether0.0
          IP Address : 10.10.160.76      Physical Interface :
Ethernet0
Network   : 10.10.160.0                  Subnet Mask : 255.255.255.0
Admin Status : UP                       Operation Status : UP
Network Type : Ethernet                 MTU : 1500
Hardware Address : 00 02 a4 00 52 b2

Ethernet0 is UP, Line protocol is UP
QoS control is disabled
interface type is 10Base-T
link status is 10 Mbps (HALF-DUPLEX)
last 1 minute data rate : tx 0 bps, rx 624 bps
3878 packets input, 512042 bytes, 0 no buffers
Received 0 runts, 0 giants
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 input packets with dribble condition detected
8 packets output, 2380 bytes, 0 drops
0 output errors, 0 collision, 0 interface resets
0 underruns, 0 late collisions, 0 deferred
0 lost carrier, 0 no carrier
```

```
AP1000# show route
Codes: C - connected, S - static, R - RIP, O - OSPF

S    0.0.0.0/0 [5/0] via 10.10.60.254, ether0.0
     10.0.0.0/8 is subnetted
C     10.10.60.0 is directly connected, 10.10.60.76 ether0.0
C     127.0.0.0 is directly connected, 127.0.0.1 loopback0
```

(If not, you will need to configure the gateway manually)

## 4.Configuration USING DHCP

The AP1000 is configured as a DHCP client on Ethernet port 0 by default so if the DHCP server is active then an IP address, subnet mask and IP gateway address should have been allocated.

There are four steps to configure the AP1000 using DHCP:

1. **Enter account numbers:** These are the account numbers you received from your Account Manager. Every port needs to be allocated an account number. To do this enter the commands displayed in **bold (please note that the account numbers and PIN need to be entered as one long number)**
2. **Configure VoIP Dial Peer:** These details are required to establish the connection between your gateway and our infrastructure
3. **Disable HTTP, TELNET and FTP P Management:** By default the AP1000 has a number of services enabled that allow remote access to the AP1000 via Telnet, HTTP and FTP. This could mean that your AP1000 is accessible from the Internet and is therefore a security risk. We recommend to disable these services for your security.

#### 4. **Save the configuration:** The final step is to save the information.

To start the configuration, go to the console login screen prompt (AP1000#) and type in the information listed in **bold** below:

```

AP1000# configure
AP1000(config)# no service telnet
AP1000(config)# no service httpd
AP1000(config)# no service ftpd
AP1000(config)# dial-peer voice 0 pots
AP1000(config-dialpeer-pots-1)# destination-pattern Enter your first
child account number here
AP1000(config-dialpeer-pots-1)# port 0/0
AP1000(config-dialpeer-pots-1)# exit
AP1000(config)# dial-peer voice 1 pots
AP1000(config-dialpeer-pots-1)# destination-pattern Enter your second
child account number here
AP1000(config-dialpeer-pots-1)# port 0/1
AP1000(config-dialpeer-pots-1)# exit
AP1000(config)# dial-peer voice 2 pots
AP1000(config-dialpeer-pots-1)# destination-pattern Enter your third
child account number here
AP1000(config-dialpeer-pots-1)# port 0/2
AP1000(config-dialpeer-pots-1)# exit
AP1000(config)# dial-peer voice 3 pots
AP1000(config-dialpeer-pots-1)# destination-pattern Enter your fourth
child account number here
AP1000(config-dialpeer-pots-1)# port 0/3
AP1000(config-dialpeer-pots-1)# exit
AP1000(config)# dial-peer voice 201 voip
AP1000(config-dialpeer-voip-201)# destination-pattern .T
AP1000(config-dialpeer-voip-201)# session target adp1.winnerip.com
AP1000(config-dialpeer-voip-201)# session protocol sip
AP1000(config-dialpeer-voip-201)# codec g729
AP1000(config-dialpeer-voip-201)# dtmf-relay h245-alphanumeric
AP1000(config-dialpeer-voip-201)# no vad
AP1000(config-dialpeer-voip-201)# exit
AP1000(config)# exit
AP1000# write
Do you want to WRITE configuration ? [y/n] y
Writing configuration....done
AP1000#

```

**The configuration is now complete and you can make calls!**



To start the configuration, go to the console login screen and type in the information listed in **bold** below:

```

AP1000# configure
AP1000(config)# interface ether0.0
AP1000(config-ether0.0)# ip address X.X.X.X Y.Y.Y.Y
AP1000(config-ether0.0)# exit
AP1000(config)# route 0.0.0.0 0.0.0.0 A.A.A.A
AP1000(config)# no service telnet
AP1000(config)# no service httpd
AP1000(config)# no service ftpd
AP1000(config)# dial-peer voice 0 pots
AP1000(config-dialpeer-pots-1)# destination-pattern Replace with your
first child account number
AP1000(config-dialpeer-pots-1)# port 0/0
AP1000(config-dialpeer-pots-1)# exit
AP1000(config)# dial-peer voice 1 pots
AP1000(config-dialpeer-pots-1)# destination-pattern Replace with your
second child account number
AP1000(config-dialpeer-pots-1)# port 0/1
AP1000(config-dialpeer-pots-1)# exit
AP1000(config)# dial-peer voice 2 pots
AP1000(config-dialpeer-pots-1)# destination-pattern Replace with your
third child account number
AP1000(config-dialpeer-pots-1)# port 0/2
AP1000(config-dialpeer-pots-1)# exit
AP1000(config)# dial-peer voice 3 pots
AP1000(config-dialpeer-pots-1)# destination-pattern Replace with your
fourth child account number
AP1000(config-dialpeer-pots-1)# port 0/3
AP1000(config-dialpeer-pots-1)# exit
AP1000(config)# dnshost nameserver B.B.B.B
AP1000(config)# dial-peer voice 201 voip
AP1000(config-dialpeer-voip-201)# destination-pattern .T
AP1000(config-dialpeer-voip-201)# session target adp1.winnerip.com
AP1000(config-dialpeer-voip-201)# session protocol sip
AP1000(config-dialpeer-voip-201)# codec g729
AP1000(config-dialpeer-voip-201)# dtmf-relay h245-alphanumeric
AP1000(config-dialpeer-voip-201)# no vad
AP1000(config-dialpeer-voip-201)# exit
AP1000(config)# exit
AP1000#
AP1000# write
Do you want to WRITE configuration ? [y/n] y
Writing configuration....done
AP1000#

```

**The configuration is now complete and you can make calls!**

