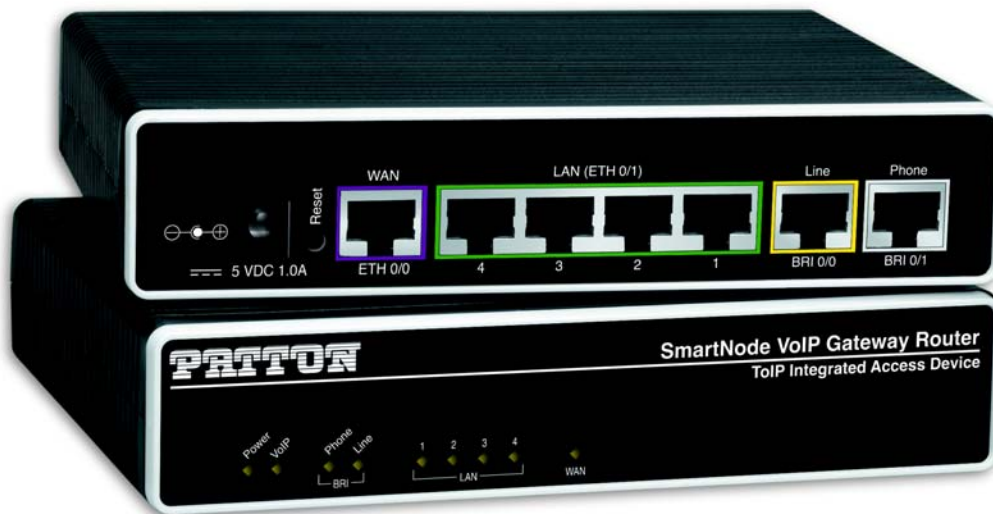


# SmartNode 4552

## ISDN SoHo VoIP Gateway Router

### *Quick Start Guide*



#### Approval

This device is approved for connection to the public ISDN telecommunication network, over a BRI/So-ISDN interfaces.

#### Zulassung

Zugelassen für die Anstaltung an da öffentliche ISDN Telekommunikatinosnetz an BRI/So- ISDN Schnittstellen.

#### Approbation

Cet appareil est approuvé pour la connexion au reseau ISDN public avec les interfaces BRI/So.

#### Approbacion

Este aparato esta aprobado para conexion a red publica ISDN sobre interfaz BRI/So.

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**Important Information**

To use virtual private network (VPN) and/or AES/DES/3DES encryption capabilities with the SmartNode 4552, you may need to purchase additional licenses, hardware, software, network connection, and/or service. Contact [sales@patton.com](mailto:sales@patton.com) or +1 (301) 975-1000 for assistance.

## SN4552 QUICK START GUIDE

This Quick Start Guide leads you through the basic steps to set up a new SmartNode and to download a configuration. Please note that this guide does not replace the detailed Software Configuration Guide and the Getting Started Guide available on the CD-ROM and online at [www.patton.com/voip](http://www.patton.com/voip).



Your SmartNodes can be used for a wide variety of IP and voice over IP applications. To support and ease the configuration of the SmartNodes configuration templates for the most important applications are available online at <http://www.patton.com/voip/appnotes.shtml>.

The main steps to set up a new SmartNode are shown below.

- 1** Connect a PC, login and configure the IP address
- 2** Connect the SmartNode to the Network
- 3** Download a configuration example, adapt to your network and load onto the SmartNode

## 1 Connect a PC, login and configure the IP address

### Power Connection and Default IP Configuration

First the SmartNode must be connected to the mains power supply using the included power supply. Wait until the 'PWR' LED stops blinking and lights constantly. Now the SmartNode is ready.

The factory default IP settings are as follows:

LAN ports (green, ETH 0/1): IP Address: 192.168.1.1 Network Mask: 255.255.255.0

WAN port (red, ETH 0/0): IP Address: 172.16.40.1 Network Mask: 255.255.0.0

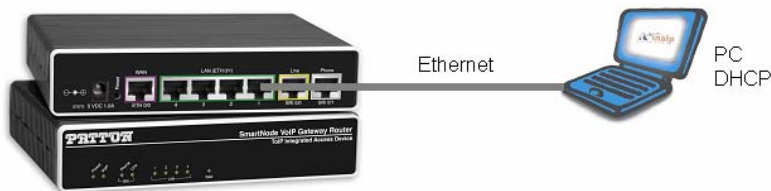
A DHCP Server with address space 192.168.1.10 – 192.168.1.19 is running on the LAN ports

Both Ethernet ports are pre-configured and active.

If these addresses conflict or do not match with your network they must be changed. Contact your network administrator if you are not sure what IP address to use in your installation.

### PC connection and Login

To access the SmartNode configuration connect a PC with Ethernet port to one of the LAN ports (green) of the SN4552. Use the included black Ethernet cable for this purpose. Set your PC's TCP/IP configuration to DHCP to automatically receive an IP address from the SmartNode.



Open a Telnet connection to the default LAN IP address of the SmartNode (192.168.1.1). Use the Terminal program included with most PC operating systems (e.g. Hyper Terminal on Windows). The CD-ROM also includes some recommended terminal programs.

The factory default login is

Login name: *administrator*

Password: <empty>

So use the name *administrator* after the login prompt and simply press the Enter key after the password prompt.

```
login: administrator
password:
172.16.40.1>
```

After you have successfully logged in you are in the operator execution mode, indicated by '>' as command line prompt. With the commands *enable* and *configure* you enter the configuration mode.

```
172.16.40.1>enable
172.16.40.1#configure
172.16.40.1(cfg)#
```

## Changing the IP Address

Select the context IP mode to configure an IP interface.

```
172.16.40.1(cfg)#context ip router
172.16.40.1(ctx-ip)[router]#
```

Now you can set your IP address and network mask for the WAN IP interface *eth0*. Contact your network administrator if you are not sure what IP address to set. Within this example a private network (172.16.1.0) is assumed. The IP address is set to 172.16.1.100.

```
172.16.40.1(ctx-ip)[router]#interface eth0
172.16.40.1(if-ip)[eth0]#ipaddress 172.16.1.100 255.255.255.0
2002-10-29T00:09:40 : LOGININFO      : Link down on interface eth0.
2002-10-29T00:09:40 : LOGININFO      : Link up on interface eth0.
172.16.1.100(if-ip)[eth0]#
```

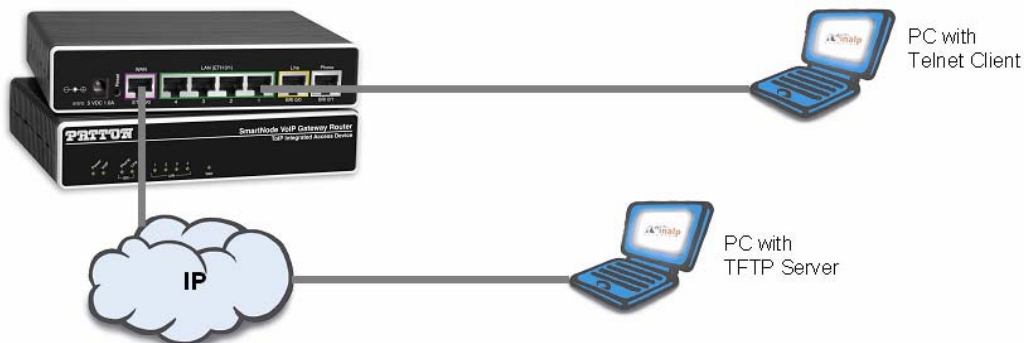
Store this modified configuration and make it your new start-up configuration. On the next start-up the system will come up using the modified configuration.

```
172.16.1.100(if-ip)[eth0]#copy running-config startup-config
172.16.1.100(if-ip)[eth0]#
```

Now the SmartNode can be connected to your IP network.

## 2 Connect the SmartNode to the Network

You now can connect the SmartNode to the IP Network and do any remaining configuration from any PC connected to the same Ethernet segment.



You can check the connection with the ping command. For the example above ping 172.16.1.100 from a PC on the IP network.

You may now start to configure the SmartNode from scratch using the CLI commands. For a detailed description of the CLI refer to the SmartWare software configuration guide (SCG) available on the CD-ROM and online at: [www.patton.com/voip](http://www.patton.com/voip).

We recommend however that you start your configuration from a template. See step three for further details.

### **3** Download a configuration example, adapt to your network and load onto the SmartNode

We recommend that you use an application specific configuration template called “Application Note” to start your SmartNode configuration. A selection of Application Notes is available on the CD-ROM and online from <http://www.patton.com/voip/appnotes.shtml>. Select an Application Note which matches your requirements. Adapt the configuration as described in the Application Note to your network (do not forget to modify the IP address) and copy the modified configuration to a TFTP server. The SmartNode can now load its configuration from this server.

In this example we assume the TFTP server is running on the PC with the IP address 172.16.1.10 and the configuration named SN.cfg in the root directory of the TFTP server.

```
172.16.1.100 (cfg) #copy tftp://172.16.1.10/SN.cfg startup-config
Download...100%
172.16.1.100 (cfg) #
```

You now need to reload the SmartNode to activate the downloaded startup configuration. Type in the following commands.

**Note** that you MUST answer NO when asked to overwrite the startup configuration.

```
172.16.1.100 (cfg) #reload
Running configuration has been changed.
Do you want to copy the 'running-config' to the 'startup-config'?
Press 'yes' to store, 'no' to drop changes : no
Press 'yes' to restart, 'no' to cancel : yes
The system is going down
```

### **Additional Information**

For detailed information about configuring and operating guidance, set up procedures and trouble shooting, refer to the *SmartNode Series SmartWare Software Configuration Guide* and the *SmartNode Hardware Installation Guide* on the enclosed Patton VoIP CD-ROM or at <http://www.patton.com/voip/>. On the CD-ROM you will also find numerous freeware and shareware tools, including TFTP servers, Telnet clients, etc.

## **EC Declaration of Conformity**

(German version see below)

Product Description: SmartNode 1200 \*)  
SmartNode 1400 \*)  
SmartNode 2300 incl. Interface Cards IC-4BRV and IC-E1V  
SmartNode 2400 incl. Interface Cards IC-4BRV and IC-E1V

The products described above in the form as delivered are in conformity with the provisions of the following European Directive:

R&TTE 1999/5/EC

Guideline of the European Parliament and the Committee for the Harmonisation of the Legal Regulations of the Member States concerning radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.



The safety advices in the documentation accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device.

\*) SmartNodes 1200 Version 5 and SmartNodes 1400 Version 1 (Model No. SN1200 0005-0001 resp. SN1400 0001-0001) must use at least the following Builds of SmartWare: Build 21211 for Release 2.01, Build 21209 for Release 2.02, Build 21182 for Release, or any Build for all subsequent Releases.

The signed Declaration of Conformity can be downloaded from

<http://www.patton.com/certifications/>

## **Approval**

The SmartNode is approved for connection to the public ISDN telecommunication network. Anybody may connect the SmartNode to a BRI/S0- ISDN interface and put it into operation.

## **EG-Konformitätserklärung**

(English version see above)

Produktbezeichnung: SmartNode 1200 \*)  
SmartNode 1400 \*)  
SmartNode 2300 inkl. Interface Cards IC-4BRV und IC-E1V  
SmartNode 2400 inkl. Interface Cards IC-4BRV und IC-E1V

Die bezeichneten Produkte stimmen in der von uns in Verkehr gebrachten Ausführung mit den Vorschriften folgender Richtlinie überein:

R&TTE 1999/5/EG

Richtlinie des europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Funkanlagen und Telekommunikations-Endeinrichtungen und die gegenseitige Anerkennung ihrer Konformität.



Die Sicherheitshinweise in der mitgelieferten Produktdokumentation sind zu beachten. Die Konformität mit der oben erwähnten Richtlinie wird durch das CE-Zeichen auf dem Gerät bestätigt.

\*) SmartNodes 1200 Version 5 und SmartNodes 1400 Version 1 (Model No. SN1200 0005-0001 bzw. SN1400 0001-0001) müssen mindestens folgende SmartWare-Builds verwenden: Build 21211 für Release 2.01, Build 21209 für Release 2.02, Build 21182 für Release, oder irgendeinen Build für alle nachfolgenden Releases.

Die unterzeichnete Konformitätserklärung kann heruntergeladen werden von:

<http://www.patton.com/certifications/>

## Zulassung

Der SmartNode ist für die Anschaltung an das öffentliche ISDN Telekommunikationsnetz zugelassen. Er darf durch jedermann an eine BRI/S0- Schnittstelle angeschlossen und in Betrieb genommen werden.

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