



**NB16WV VOIP Setup Guide**  
(for Pennytel)

## Configuring your NB16WV for VOIP Service

The following steps will take you through the process of setting up your VOIP connection.

### **Step 1: Checking Computer Network Settings:**

You will need to connect your computer directly to your VOIP device (modem, or ATA) and set the network connection on your computer to obtain an IP address automatically. Please follow the instructions appropriate for your operating system below:



Below are the instructions for setting Windows XP to obtain an IP address automatically for your ethernet connection:

1. Click on the **Start Menu**, and go to "**Control Panel**".
2. Click on "**Network Connections**".  
(If you only see "**Network and Internet Connections**", open that first, and then click on "**Network Connections**".)
3. Right click on "**Local Area Connection**" and select "**Properties**".
4. Double-click on "**Internet Protocol**".
5. Select "**Obtain an IP address automatically**", and "**Obtain DNS server address automatically**".
6. Click "**OK**", and then click "**OK**" (or "**Close**").



Below are the instructions for setting Windows Vista to obtain an IP address automatically for your ethernet connection:

1. Click on the **Start Menu**, and go to "**Control Panel**".
2. Click on "**Network and Sharing Centre**".  
(If you only see "**Network and Internet**", open that first, and then click on "**Network and Sharing Centre**".)
3. Click on "**Manage network connections**" (*on the lefthandside of the window*).
4. Right click on "**Local Area Connection**" and select "**Properties**".
5. Double-click on "**Internet Protocol Version 4 (TCP/IPv4)**".
6. Select "**Obtain an IP address automatically**", and "**Obtain DNS server address automatically**".
7. Click "**OK**", and then click "**OK**" again.



Below are the instructions for setting Windows 7 to obtain an IP address automatically for your ethernet connection:

1. Click on the **Start Menu**, and go to "**Control Panel**".
2. Click on "**Network and Sharing Centre**".  
(If you only see "**Network and Internet**", open that first, and then click on "**Network and Sharing Centre**".)
3. Click on "**Change adapter settings**" (*on the lefthandside of the window*).
4. Right click on "**Local Area Connection**" and select "**Properties**".
5. Double-click on "**Internet Protocol Version 4 (TCP/IPv4)**".
6. Select "**Obtain an IP address automatically**", and "**Obtain DNS server address automatically**".
7. Click "**OK**", and then click "**OK**" again.



Below are the instructions for setting Mac OS X to obtain an IP address automatically for your ethernet connection:

1. Click on the Apple Menu, and go to "**System Preferences**".
2. Click on "**Network**".
3. Click on "**Ethernet**" or "**Built-in Ethernet**".
4. Click on the "**Configure**" drop-down box, and select "**Using DHCP**" then click "**Apply**".

## Step 2: Configuring your VOIP settings:

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### *Troubleshooting Tip*

*One sided VOIP calls may be an indication of a missing or misconfigured port forwarding rule.*

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1. Navigate to <http://192.168.1.1> in a web browser, using “**admin**” as both the username and password.



2. Select the “**Switch to VoIP/NAS view**” from the bottom of the page.

3. Select the **Service Domain** option from the **SIP Setting** menu.

The screenshot shows the NetComm NB16WV - ADSL2+ Wireless N Modem Router with VoIP configuration interface. The top navigation bar includes 'Status', 'Phone Book', 'Phone Setting', 'SIP Setting', 'Other VoIP Settings', and 'NAS Settings'. The 'SIP Setting' menu is open, and the 'Service Domain' option is highlighted with a red box. Below the menu is a table with 10 rows, each representing a SIP phone. The table has columns for ID, Name, a central field, and Enable. The 'Enable' column contains checkboxes. At the bottom of the table are navigation buttons: '<< Previous', 'Next >>', 'Save', and 'Undo'.

NetComm® NB16WV - ADSL2+ Wireless N Modem Router with VoIP

Switch to basic view  
Switch to advanced view

Status ▶ Phone Book ▶ Phone Setting ▶ **SIP Setting** ▶ Other VoIP Settings ▶ NAS Settings

Service Domain  
Port Setting  
Codec Setting  
DTMF Setting  
Other Settings

ID	Name		Enable
1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
6	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
7	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
8	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
9	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
10	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

<< Previous Next >> Save Undo

http://192.168.1.1/voip20sd.htm?rc=

4. Enter the following details as given to you by Pennytel, your VoIP Service Provider.

**NetComm** NB16WV - ADSL2+ Wireless N Modem Router with VoIP

Switch to basic view  
Switch to advanced view

Status    ▶ Phone Book    ▶ Phone Setting    ▶ SIP Setting    ▶ Other VoIP Settings    ▶ NAS Settings

Item	Setting
Display Name	<input type="text"/>
User Name	<input type="text"/>
Register Name	<input type="text"/>
Register Password	<input type="text"/>
Realm	<input type="text"/>
Domain	<input type="text"/>
Proxy Server	<input type="text"/>
Registrar	<input type="text"/>
Use Outbound Server	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Outbound Proxy	<input type="text"/>
Subscribe for MWM	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Refresh time for MWM	<input type="text" value="360"/>
MWM Server URI	<input type="text" value="fxs1.mwi.com"/>
Status	Unregistered

Save    Undo

VoIP phone number provided to you by Pennytel or as otherwise directed by Pennytel

Pennytel VoIP account password.

sip.pennytel.com or as Pennytel directs

sip.pennytel.com or as Pennytel directs

sip.pennytel.com or as Pennytel directs

sip.pennytel.com or as Pennytel directs

Enable/disable as per Pennytel instructions

sip.pennytel.com or as Pennytel directs

Enable/disable as Pennytel directs

Leave as default or as per Pennytel's instructions

### SIP Setting Details

Display Name	VoIP Account Phone Number as provided by Pennytel.
User Name	VoIP Account Phone Number as provided by Pennytel.
Register Name	VoIP Account Phone Number as provided by Pennytel or as otherwise instructed by Pennytel.
Register Password	VoIP Account Password as provided by Pennytel.
Realm	sip.pennytel.com or as otherwise directed by Pennytel.
Domain	sip.pennytel.com or as otherwise directed by Pennytel.
Proxy Server	sip.pennytel.com or as otherwise directed by Pennytel.

Registrar	sip.pennytel.com or as otherwise directed by Pennytel.
Use Outbound Server	Enable or Disable according to your VoIP account type. If you are unsure consult Pennytel.
Outbound Proxy	sip.pennytel.com or as otherwise directed by Pennytel.
Subscribe for MWI (Message Waiting Indicator)	Enable or disable as per Pennytel's instructions (if the VoIP account has this feature enabled).
Refresh Time for MWI	Leave as default (360) or as per Pennytel's instructions.
MWI Server URL	Leave as default or as directed by Pennytel.

5. After entering all required fields click on the **"Save"** button and check the Status at the bottom of the page. The status should change to **"Registered"** if all the settings entered are correct and you have a current connection to the internet.
6. Check for a dial tone on your phone handset. The VoIP account should now be active and you should now be able to make and/or receive VoIP phone calls (depending on the type of VoIP account you are using).