



## How to Use Auto Provison

### 1.save the config.txt

Login webpage , Config Manage->Save Config->backup config

The screenshot shows the 'IP Phone' configuration interface. At the top, there is a navigation bar with tabs: Status, Network, VOIP, Advanced, Dial-peer, Config Manage, Update, and System Manage. The 'Config Manage' tab is selected. Below the navigation bar, there are three main sections:

- Save Configuration:** A box containing the text 'Press the "Save" button to save the configuration files !' and a 'Save' button.
- Backup Config:** A box containing the text 'Save all Network and VoIP settings.' and a link: 'Right Click here to Save as Config File (.txt)'. A red box highlights this link in the original image.
- Clear Configuration:** A box containing the text 'Press the "Clear" button to Clear the configuration files !' and a 'Clear' button.

Right click to save the config file(.txt)

### 2.change config file version

open the config.txt ,change the version bigger than current version(for example change 2.0001 to 2.0002) the number should between 2.0001 to 2.9999

The screenshot shows a Notepad window titled 'config - 记事本'. The text in the window is as follows:

```
<<VOIP CONFIG FILE>>Version:2.0001 change this number to bigger  
one(2.0002-2.9999)  
if not,the ATA will never apply  
the changes.  
<GLOBAL CONFIG MODULE>  
Static IP :192.168.1.179  
Static NetMask :255.255.255.0  
Static GateWay :192.168.1.1  
Default Protocol :2  
Primary DNS :202.96.134.133  
Alter DNS :202.96.128.68  
DHCP Mode :1  
DHCP Dns :1  
Domain Name :  
Host Name :VOIP  
Pppoe Mode :0  
HTL Start Port :10000  
HTL Port Number :200  
SNTP Server :209.81.9.7
```

A red box highlights the '2.0001' version number in the first line of the configuration file.

ATA :ipphone or gateway

### 3.name file and put it in the server directory

If you want it download according to file name,you need to fill the config.txt in the blank of Config File Name in GUI

If you want your ATA download config file according to Mac address,please save the config.txt as xxxxxxxxxxxx(for example my AT530's mac address is 00:09:45:57:e6:c2,the file should be named as 00094557e6c2) and keep the Config File Name as blank in GUI.



Please remember to put the config file in the directory which was set in the server

### 4.set in webpage :

Update->Auto Provisioning

please fill the ip ,username and password of your FTP server in the blank(if use tftp, just fill the config file name(config.txt ) choose FTP or tftp, update interval time and update mode. apply it. Please see below for details.

### 5.establish your FTP or tftp server

For FTP,[click here](#)

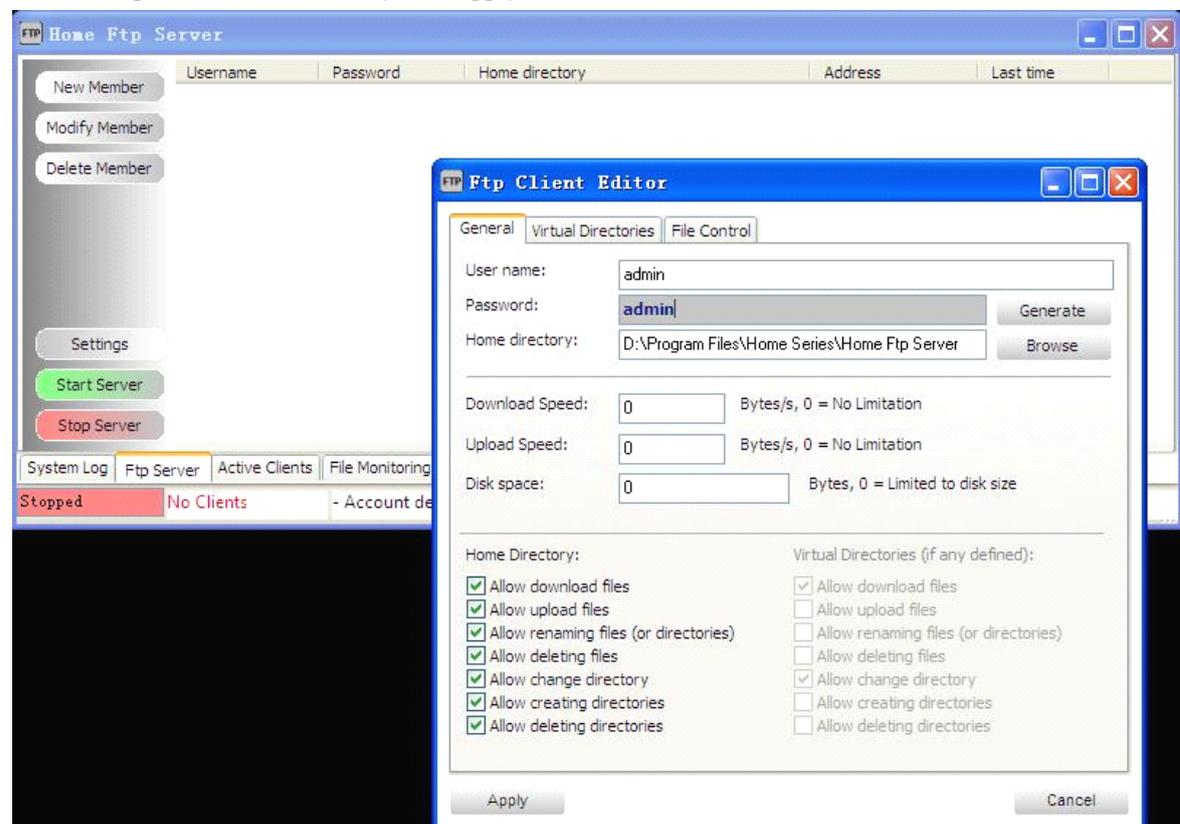
For tftp,[click here](#)

## For FTP:

<http://esin.onlinedown.net/download/HomeFtpServerInstall.zip> for HomeFtp download

Open the Home Ftp Server, and click Ftp Server ->New Member

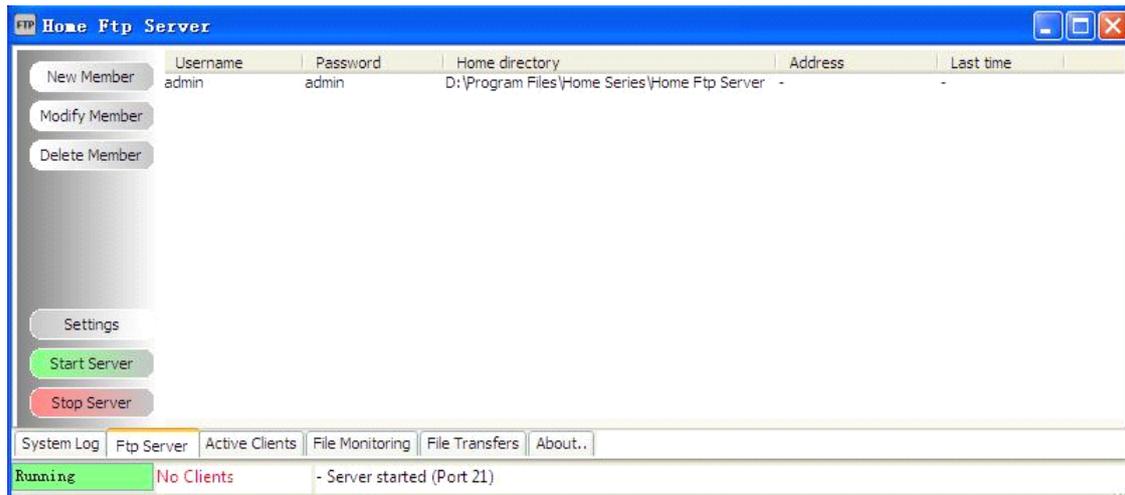
Create user password and directory then apply



### start server

Press the green button, the state will turn from stopped to running

That means your FTP server can be used now



Put your config file into that directory (in this example is D:\Program Files\Home series\Home FTP Server).

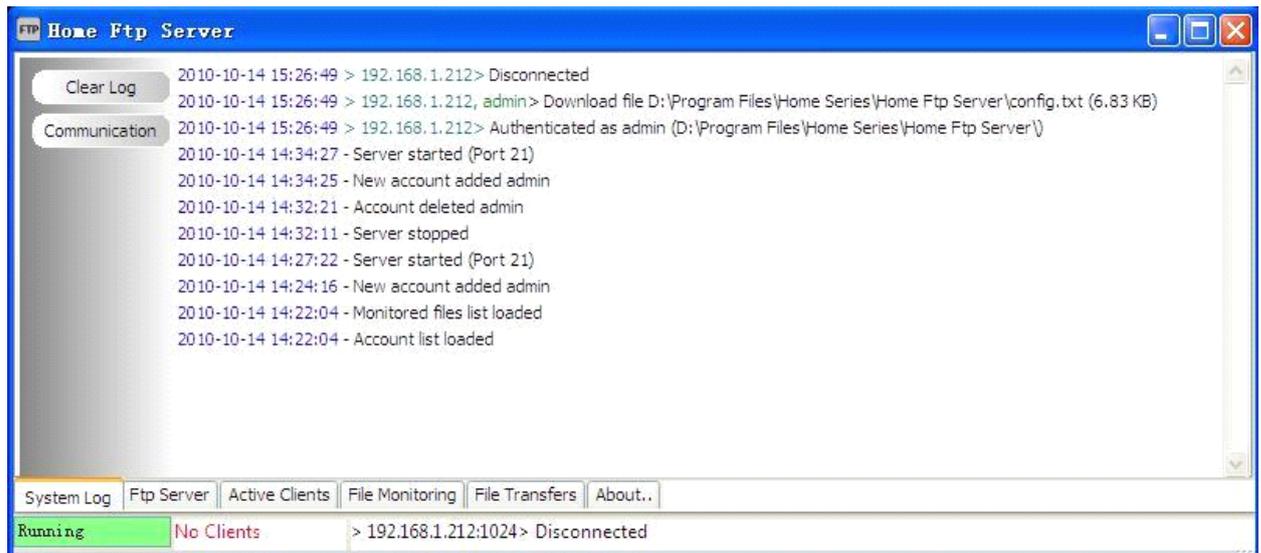
### Set in GUI



For update with MAC address, do not fill the blank of Config File Name.

Save config, and put config.txt file in download directory.

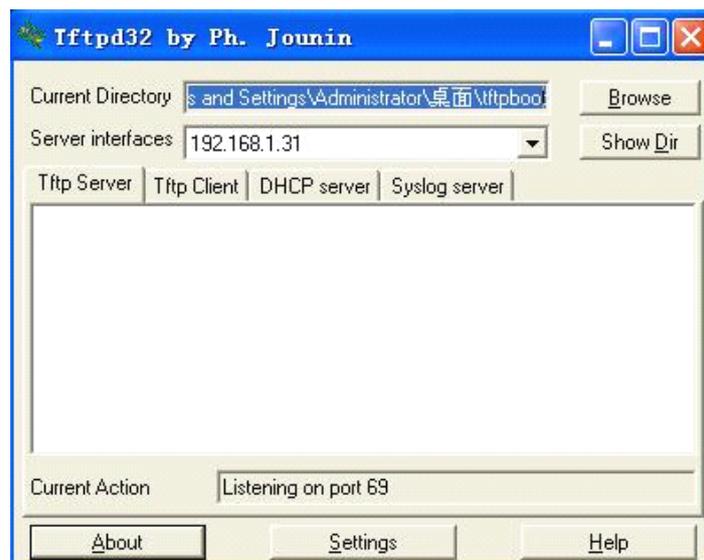
After the time interval, the ATA will download file from your FTP server automatically.



you can see from system log,the ATA has already download the file from FTP server.

## For TFTP:

1.start the TFTP server, in this example I use tftpd32 , and I set the directory as C:\Documents and Settings\Administrator\桌面\tftpboot



## config the information of phone or gateway

1. login the page of auto update config file from phone or gateway,fill the blank as following:

## IP Phone

[Status](#) | [Network](#) | [VOIP](#) | [Advanced](#) | [Dial-peer](#) | [Config Manage](#) | [Update](#) | [System Manage](#)

Auto Update Setting	
Current Version	2.0003
Server Address	192.168.1.31 <small>ip address of your TFTP server</small>
Username	user <small>There is no username and password for TFTP, please leave it as it is</small>
Password	.....
Config File Name	config.txt <small>the name of config file</small>
Config Encrypt Key	
Protocol Type	TFTP
Update Interval Time	1 Hour <small>set integer time interval</small>
Update Mode	Update at time interval <small>choose the way you want</small>

For update with MAC address, do not fill the blank of Config File Name.

2. Apply and save the config in config Manage → save config, and save config.txt file in download directory.

3. If you choose Update after reboot, just reboot the phone or gateway.

After that, when the ATA start to auto provision, the tftp server will show the message



That means the ATA has already download the config file.

## OPTION 66

- ◆ If you need to use option 66 in auto provision ,you should enable option 66 in your DHCP server first.We make DHCP server in Windows Server 2003 for example.

1.manage server to creat a DHCP server



2.Add DHCP server



### 3. choose DHCP server

**Server Role**

You can set up this server to perform one or more specific roles. If you want to add more than one role to this server, you can run this wizard again.

Select a role. If the role has not been added, you can add it. If it has already been added, you can remove it. If the role you want to add or remove is not listed, open [Add or Remove Programs](#).

Server Role	Configured
File Server	No
SharePoint Services	No
Print Server	No
Application server (IIS, ASP.NET)	No
Mail server (POP3, SMTP)	No
Terminal server	No
Remote access / VPN server	No
Domain Controller (Active Directory)	Yes
DNS server	Yes
<b>DHCP server</b>	<b>No</b>
Streaming media server	No
WINS server	No

**DHCP server**

DHCP (Dynamic Host Configuration Protocol) servers assign IP addresses to network clients.

[Read about DHCP servers](#)

View the [Configure Your Server log](#).

< Back   **Next >**   Cancel   Help

### 4. After you have installed DHCP server, you can configure it now.

**New Scope Wizard**



## Welcome to the New Scope Wizard

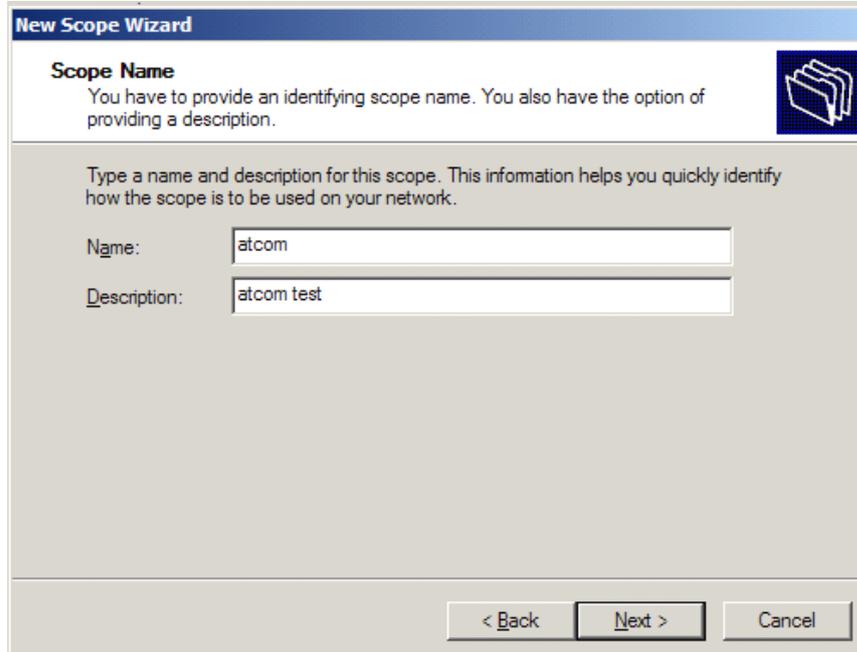
This wizard helps you set up a scope for distributing IP addresses to computers on your network.

To continue, click Next.

< Back   **Next >**   Cancel

◆ Configure DHCP server

Set the name of your scope.



**New Scope Wizard**

**Scope Name**  
You have to provide an identifying scope name. You also have the option of providing a description.

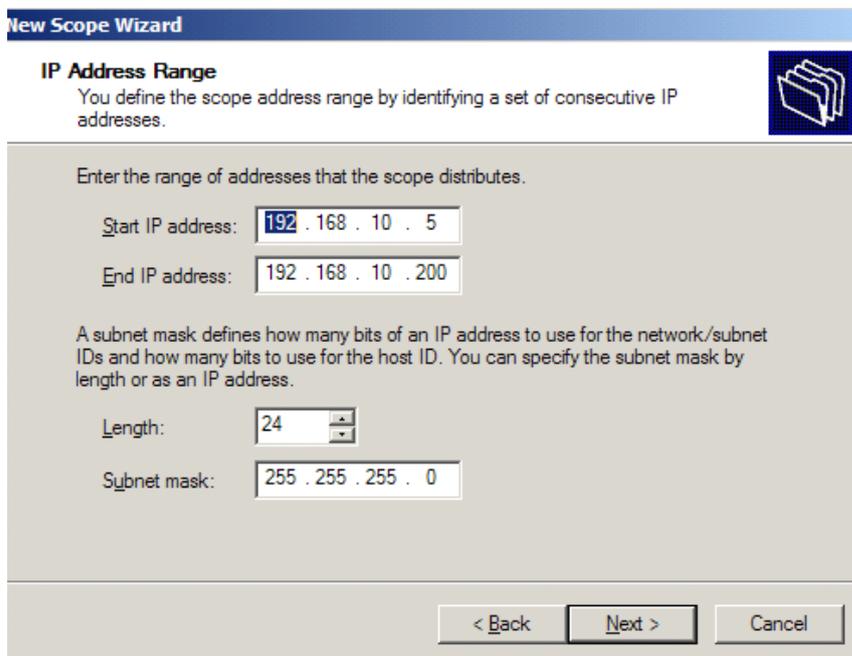
Type a name and description for this scope. This information helps you quickly identify how the scope is to be used on your network.

Name:

Description:

< Back   Next >   Cancel

Set the start ip and end ip provide by your dhcp server



**New Scope Wizard**

**IP Address Range**  
You define the scope address range by identifying a set of consecutive IP addresses.

Enter the range of addresses that the scope distributes.

Start IP address:

End IP address:

A subnet mask defines how many bits of an IP address to use for the network/subnet IDs and how many bits to use for the host ID. You can specify the subnet mask by length or as an IP address.

Length:

Subnet mask:

< Back   Next >   Cancel

Set the ip you want to exclude, or skip this step.

**New Scope Wizard**

**Add Exclusions**

Exclusions are addresses or a range of addresses that are not distributed by the server.

Type the IP address range that you want to exclude. If you want to exclude a single address, type an address in Start IP address only.

Start IP address:  End IP address:

Excluded address range:

< Back   Next >   Cancel

set lease duration or keep it as default

**New Scope Wizard**

**Lease Duration**

The lease duration specifies how long a client can use an IP address from this scope.

Lease durations should typically be equal to the average time the computer is connected to the same physical network. For mobile networks that consist mainly of portable computers or dial-up clients, shorter lease durations can be useful. Likewise, for a stable network that consists mainly of desktop computers at fixed locations, longer lease durations are more appropriate.

Set the duration for scope leases when distributed by this server.

Limited to:

Days:  Hours:  Minutes:

< Back   Next >   Cancel

## Configure DHCP options

**New Scope Wizard**

**Configure DHCP Options**  
You have to configure the most common DHCP options before clients can use the scope.

When clients obtain an address, they are given DHCP options such as the IP addresses of routers (default gateways), DNS servers, and WINS settings for that scope.

The settings you select here are for this scope and override settings configured in the Server Options folder for this server.

Do you want to configure the DHCP options for this scope now?

Yes, I want to configure these options now

No, I will configure these options later

< Back   Next >   Cancel

Set default gateway you want to use (for example 192.168.10.1)

**New Scope Wizard**

**Router (Default Gateway)**  
You can specify the routers, or default gateways, to be distributed by this scope.

To add an IP address for a router used by clients, enter the address below.

IP address:

Add

Remove

Up

Down

< Back   Next >   Cancel

## Set DNS

**New Scope Wizard**

**Domain Name and DNS Servers** 

The Domain Name System (DNS) maps and translates domain names used by clients on your network.

You can specify the parent domain you want the client computers on your network to use for DNS name resolution.

Parent domain:

To configure scope clients to use DNS servers on your network, enter the IP addresses for those servers.

Server name:	IP address:	
<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>
<input type="button" value="Resolve"/>	192.168.10.1	<input type="button" value="Remove"/>
		<input type="button" value="Up"/>
		<input type="button" value="Down"/>

## Set WINS or just keep it as blank

**New Scope Wizard**

**WINS Servers** 

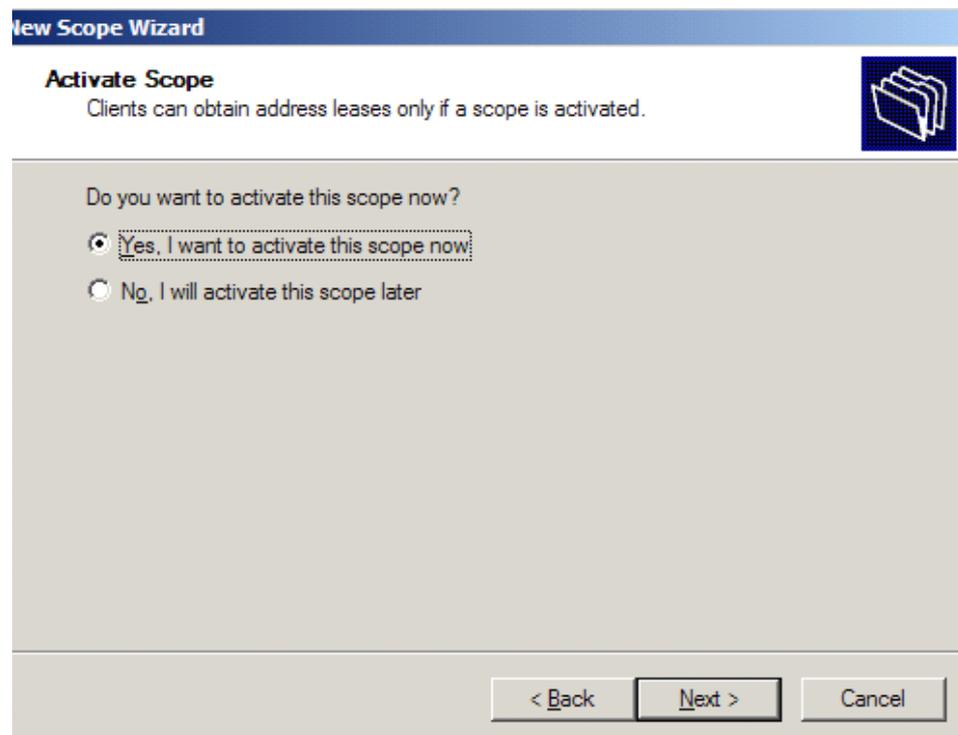
Computers running Windows can use WINS servers to convert NetBIOS computer names to IP addresses.

Entering server IP addresses here enables Windows clients to query WINS before they use broadcasts to register and resolve NetBIOS names.

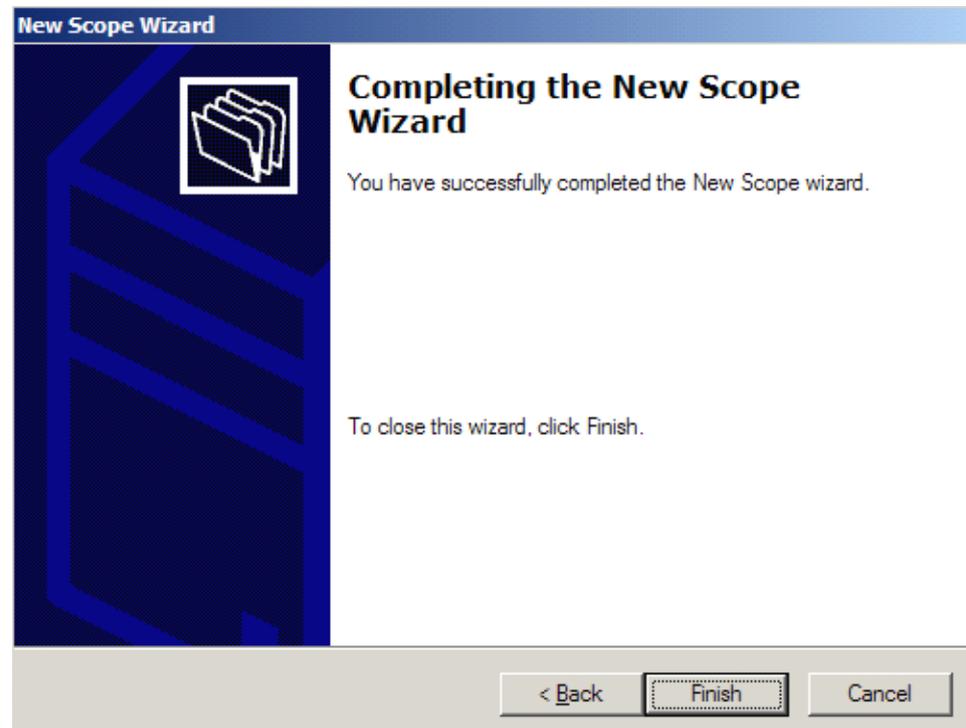
Server name:	IP address:	
<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>
<input type="button" value="Resolve"/>		<input type="button" value="Remove"/>
		<input type="button" value="Up"/>
		<input type="button" value="Down"/>

To change this behavior for Windows DHCP clients modify option 046, WINS/NBT Node Type, in Scope Options.

## Active scope

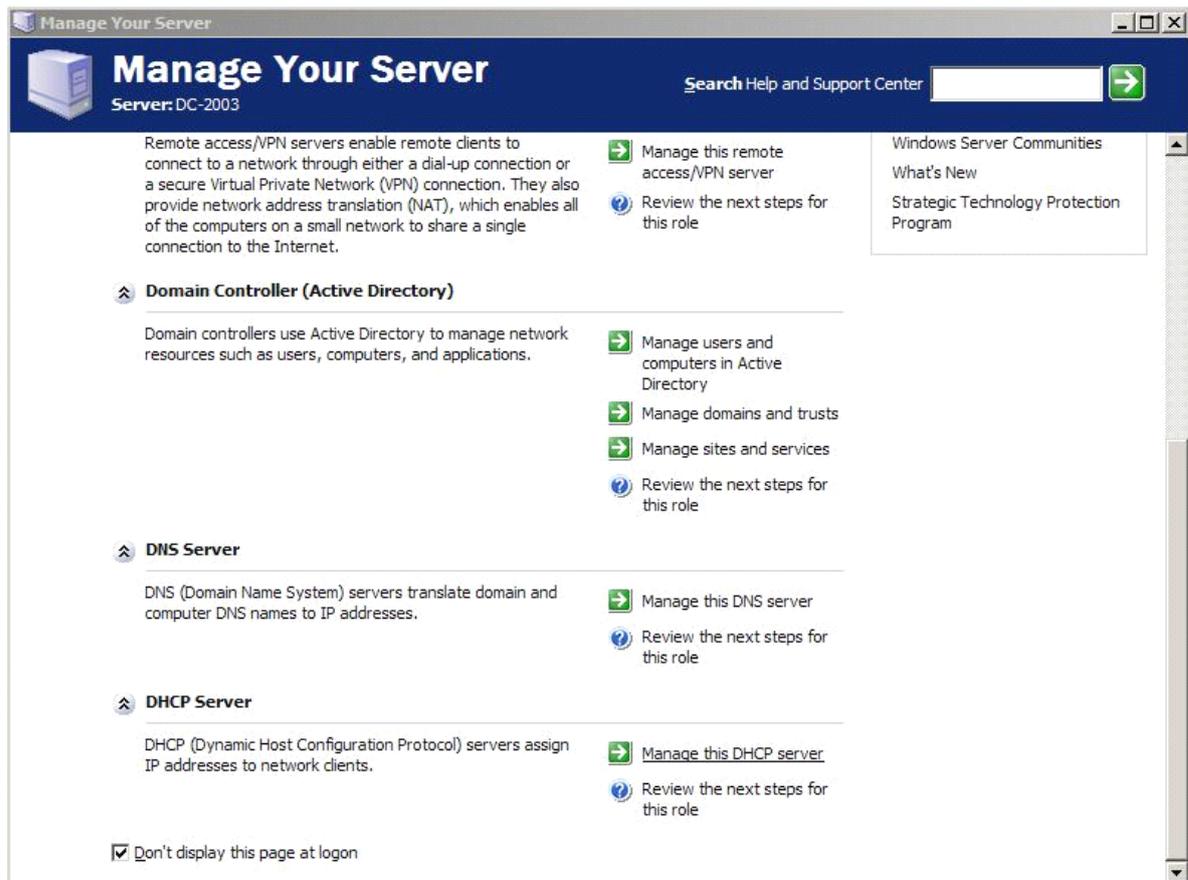


## Complete



◆ After finish setting scope, you can go to DHCP server for details.

1. Manage the DHCP server-> Manage this DHCP server



Manage Your Server  
Server: DC-2003

Search Help and Support Center

Remote access/VPN servers enable remote clients to connect to a network through either a dial-up connection or a secure Virtual Private Network (VPN) connection. They also provide network address translation (NAT), which enables all of the computers on a small network to share a single connection to the Internet.

- Manage this remote access/VPN server
- Review the next steps for this role

**Domain Controller (Active Directory)**

Domain controllers use Active Directory to manage network resources such as users, computers, and applications.

- Manage users and computers in Active Directory
- Manage domains and trusts
- Manage sites and services
- Review the next steps for this role

**DNS Server**

DNS (Domain Name System) servers translate domain and computer DNS names to IP addresses.

- Manage this DNS server
- Review the next steps for this role

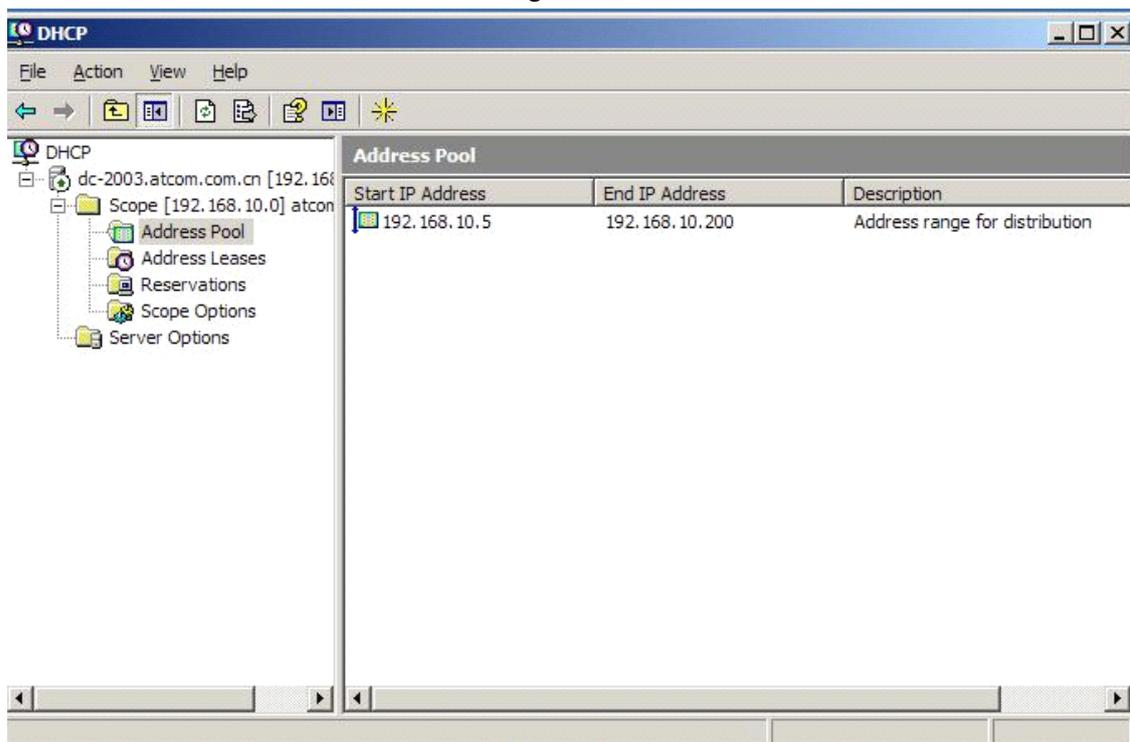
**DHCP Server**

DHCP (Dynamic Host Configuration Protocol) servers assign IP addresses to network clients.

- Manage this DHCP server
- Review the next steps for this role

Don't display this page at logon

- Right click on the Scope and click authorize, to run the scope, after authorize, you can see the arrow before the DHCP server will turn green.



DHCP

File Action View Help

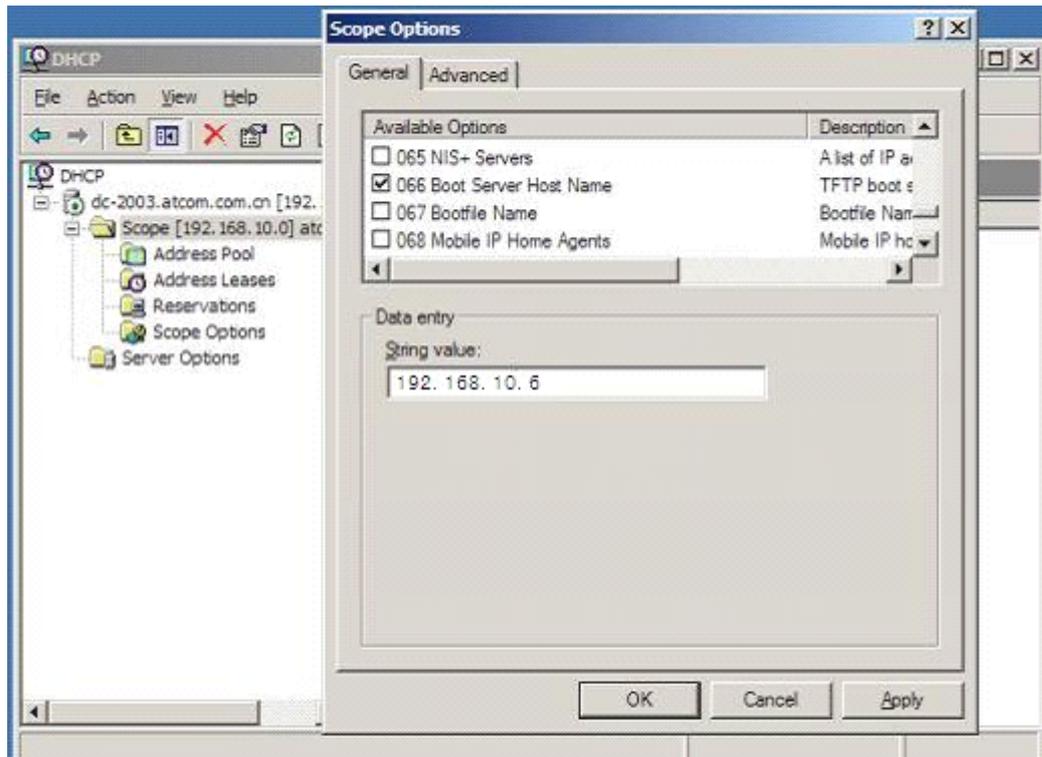
dc-2003.atcom.com.cn [192.168.10.0] atcom

- Scope [192.168.10.0] atcom
  - Address Pool
  - Address Leases
  - Reservations
  - Scope Options
  - Server Options

Start IP Address	End IP Address	Description
192.168.10.5	192.168.10.200	Address range for distribution

- ◆ Now you can connect LAN of DHCP server, IPPHONE and tftp server to the switch. The ipphone and computer with tftp server should set to DHCP, they will obtain an ip. For example ipphone get 192.168.10.5, computer with tftp server get 192.168.10.6.

Choose option 66 in Scope options and Server options ,and set the string value as the ip of your tftp server.



Apply to enable the option 66.

Please configure your Remote Access/VPN Server

**Manage Your Server**  
Server: DC-2003

Search Help and Support Center

## Managing Your Server Roles

Use the tools and information found here to add or remove roles and perform your daily administrative tasks.

- Add or remove a role
- Read about server roles
- Read about remote administration

Your server has been configured with the following roles:

### File Server

File servers provide and manage access to files.

- Manage this file server
- Add shared folders
- Review the next steps for this role

### Remote Access/VPN Server

Remote access/VPN servers enable remote clients to connect to a network through either a dial-up connection or a secure Virtual Private Network (VPN) connection. They also provide network address translation (NAT), which enables all of the computers on a small network to share a single connection to the Internet.

- Manage this remote access/VPN server
- Review the this role

### Domain Controller (Active Directory)

Domain controllers use Active Directory to manage network resources such as users, computers, and applications.

- Manage users and computers in Active Directory

#### Tools and Updates

- Administrative Tools
- More Tools
- Windows Update
- Computer and Domain Name Information
- Internet Explorer Enhanced Security Configuration

#### See Also

- Help and Support
- Microsoft TechNet
- Deployment and Resource Kits
- List of Common Administrative Tasks
- Windows Server Communities
- What's New

Opens the console for configuring and managing the Routing and Remote Access service.

Routing and Remote Access

DC-2003 (local)

### Configure the Routing and Remote Access Server

To set up Routing and Remote Access, on the Action menu, click Configure and Enable Routing and Remote Access. For more information about setting up a Routing and Remote Access deployment scenario, and troubleshooting, see [Help](#).

#### Routing and Remote Access Server Setup Wizard

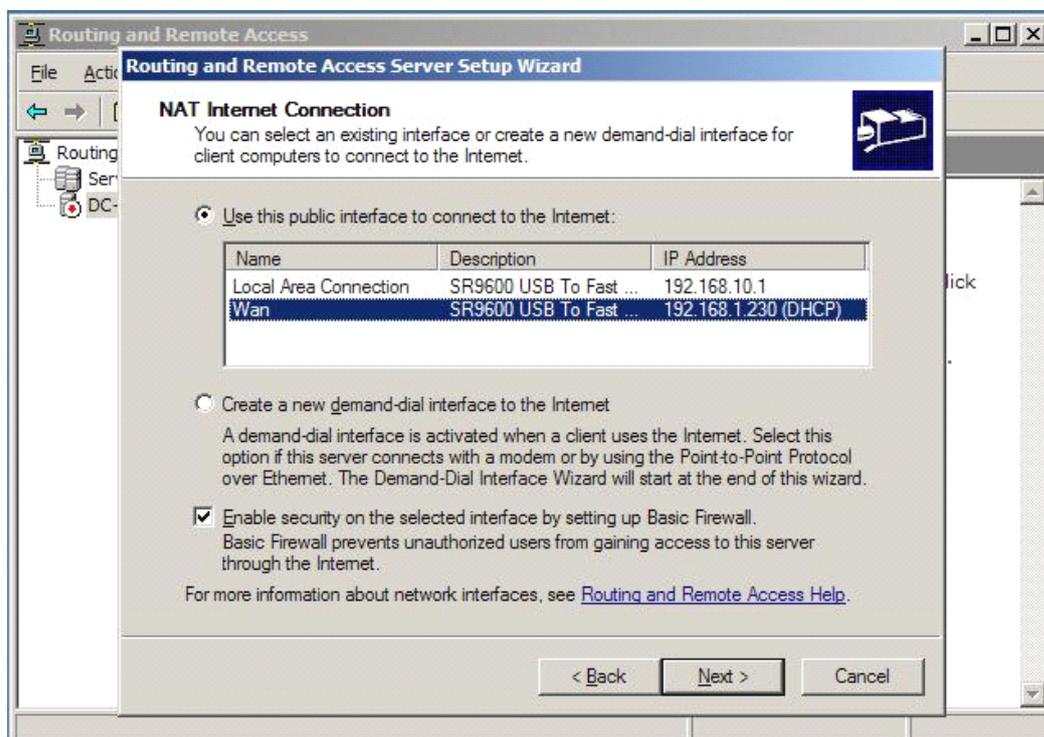
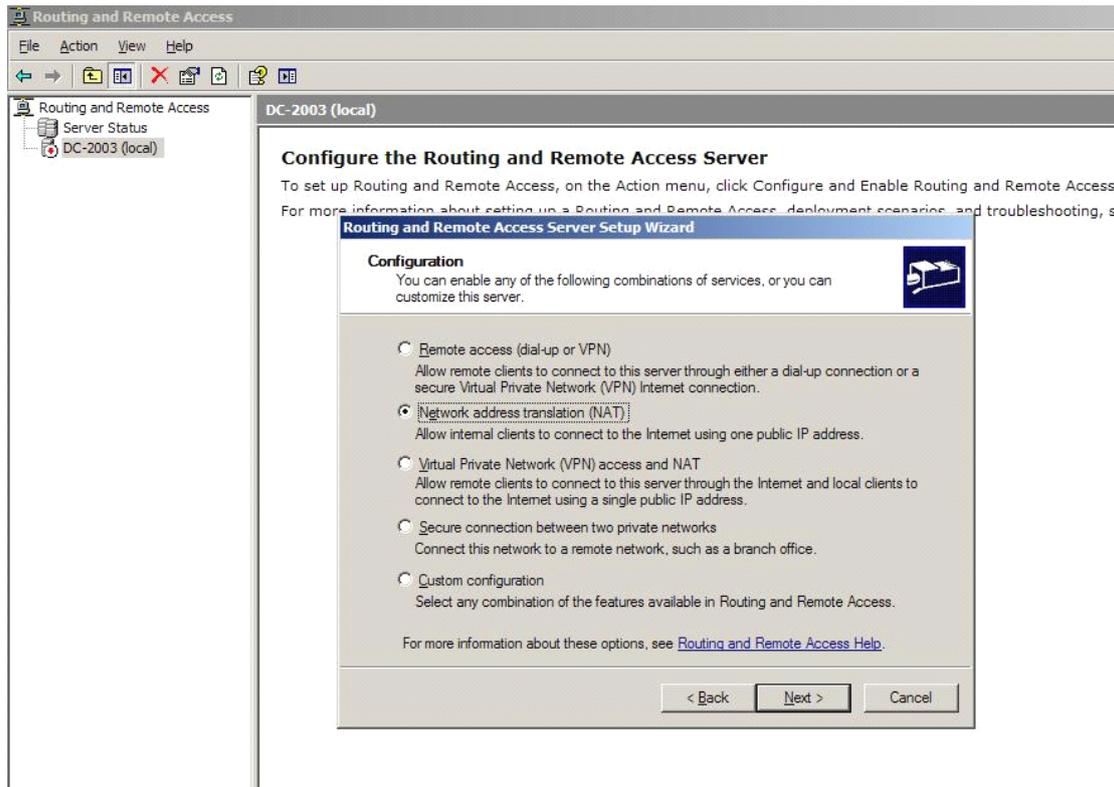
**Welcome to the Routing and Remote Access Server Setup Wizard**

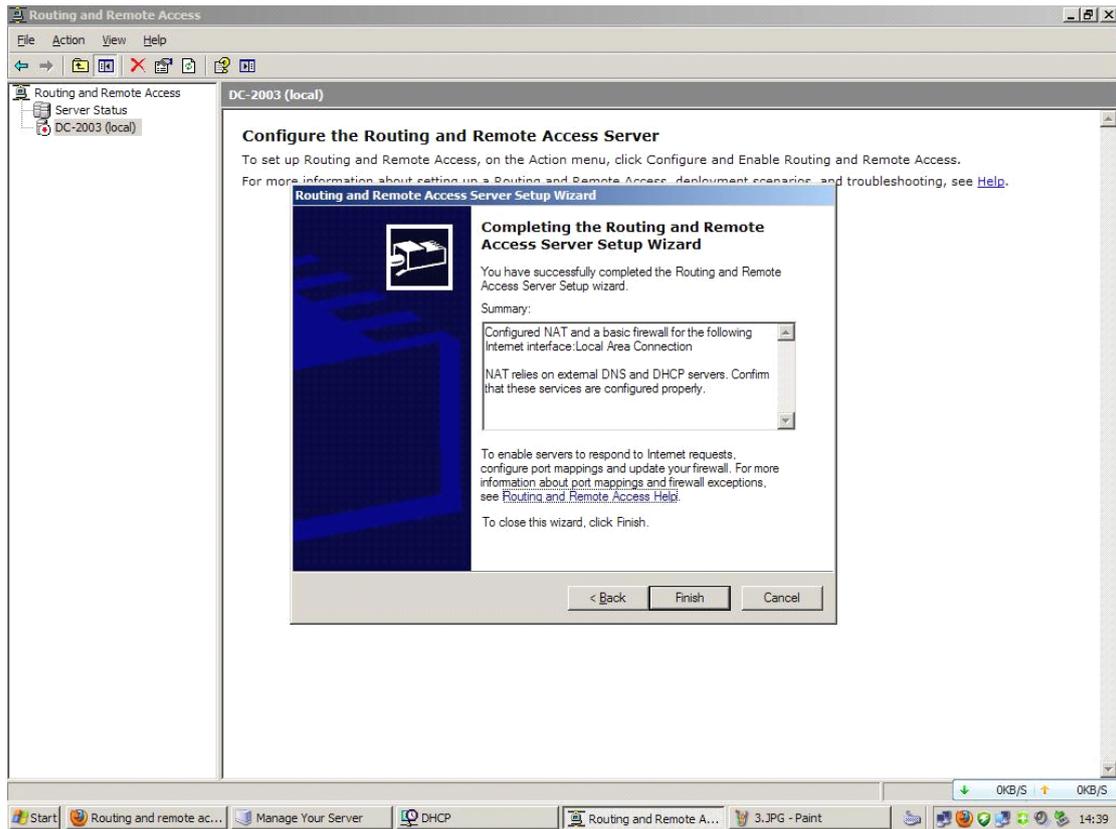
This wizard helps you set up your server so that you can connect to other networks and allow connections from remote clients.

To continue, click Next.

< Back   Next >   Cancel

Start   Routing and remote acce...   Manage Your Server   DHCP   Routing and Remote Acc...   80.7KB/S   0.5KB/S   14:37





**Configure the Routing and Remote Access Server**

To set up Routing and Remote Access, on the Action menu, click Configure and Enable Routing and Remote Access. For more information about setting up a Routing and Remote Access deployment scenario, and troubleshooting, see [Help](#).

**Routing and Remote Access Server Setup Wizard**

**Completing the Routing and Remote Access Server Setup Wizard**

You have successfully completed the Routing and Remote Access Server Setup wizard.

Summary:

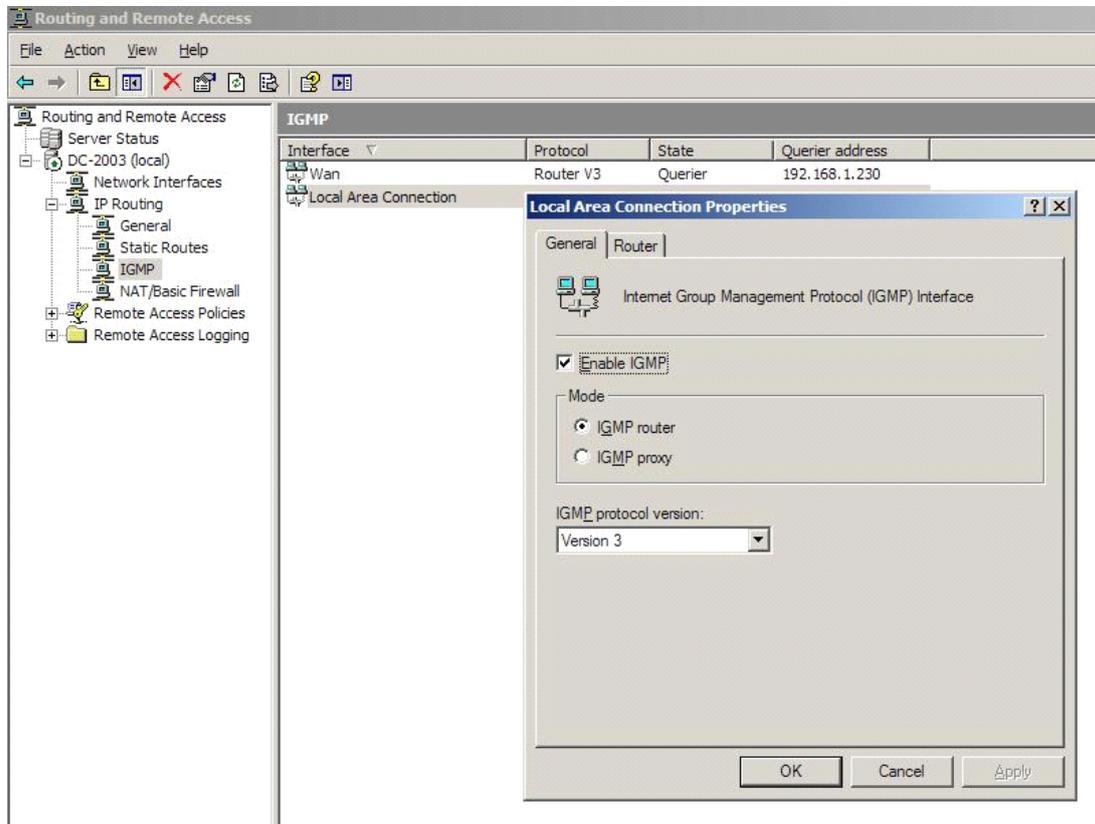
Configured NAT and a basic firewall for the following Internet interface: Local Area Connection

NAT relies on external DNS and DHCP servers. Confirm that these services are configured properly.

To enable servers to respond to Internet requests, configure port mappings and update your firewall. For more information about port mappings and firewall exceptions, see [Routing and Remote Access Help](#).

To close this wizard, click Finish.

< Back Finish Cancel



**Routing and Remote Access**

File Action View Help

Routing and Remote Access  
Server Status  
DC-2003 (local)  
Network Interfaces  
IP Routing  
General  
Static Routes  
IGMP  
NAT/Basic Firewall  
Remote Access Policies  
Remote Access Logging

Interface	Protocol	State	Querier address
Wan	Router V3	Querier	192.168.1.230
Local Area Connection			

**Local Area Connection Properties**

General Router

Internet Group Management Protocol (IGMP) Interface

Enable IGMP

Mode

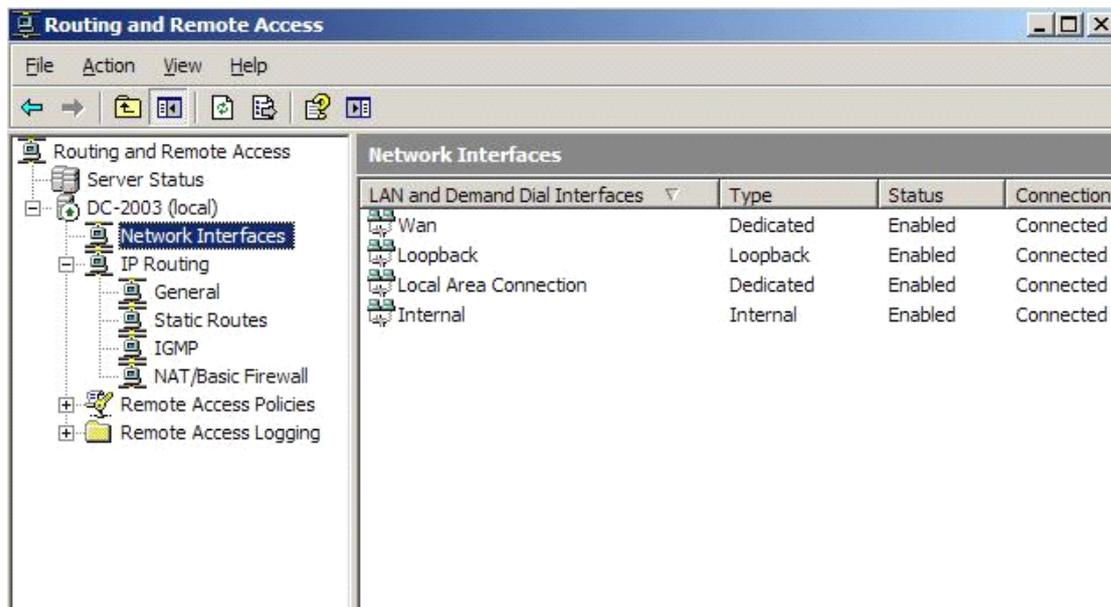
IGMP router

IGMP proxy

IGMP protocol version:

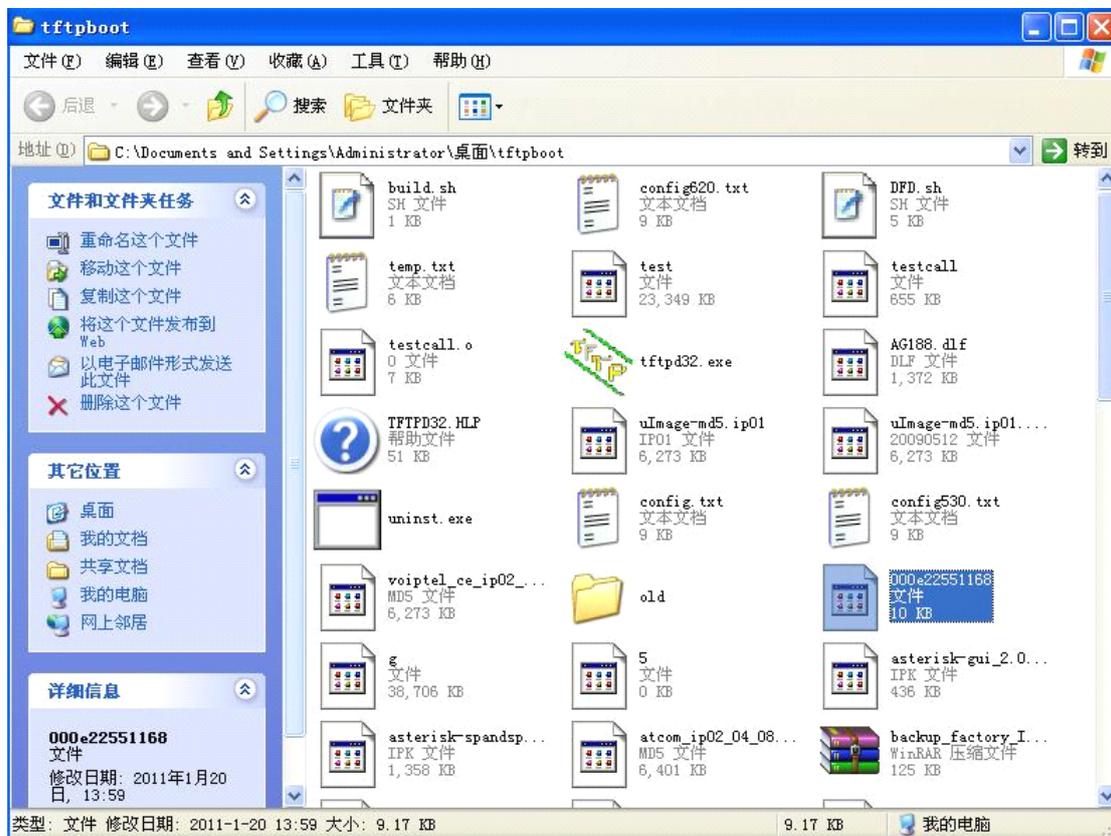
Version 3

OK Cancel Apply



Then use tftp to download according to mac address( my AT620's mac address is 00:0e:22:55:11:68)

1. save the config file as 000e22551168 in download directory of tftp , and edit anything you need and remember to change the version to bigger one.





2. then go to webpage to set auto provision

**IP Phone**

ATCOM [Current Status](#) [Network](#) [VOIP](#) [Advanced](#) [Dial-peer](#) [Config Manage](#) [Update](#) [System Manage](#)

[Web Update](#)  
[FTP/TFTP Update](#)  
[Auto Provisioning](#)

**Auto Provisioning**

Auto Update Setting	
Current Version	2.0002
Server Address	<input type="text" value="0.0.0.0"/>
Username	<input type="text" value="user"/>
Password	<input type="password" value="****"/>
Config File Name	<input type="text"/>
Config Encrypt Key	<input type="text"/>
Protocol Type	TFTP <input type="button" value="v"/>
Update Interval Time	<input type="text" value="1"/> Hour
Update Mode	Update at time interval <input type="button" value="v"/>
Enable DHCP Option 66	<input checked="" type="checkbox"/>

Just choose TFTP as protocol type and set update interval time if you want to update at time interval or just choose update after reboot and enable DHCP Option 66. APPLY it.

3. you can follow the [tftp](#) instruction to finish auto provision.