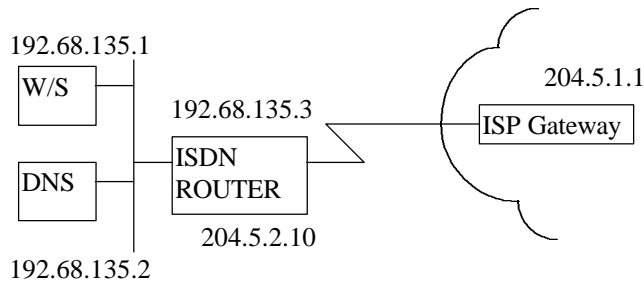


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Internet Access for Workstation/PC where ISP assigns a static single IP address



Note: The IP address shown above are examples only!

This configuration note explains how to set up a workstation on your network to use the ISDN ROUTER to connect to the Internet via an ISP. In this configuration, the user has a single user Internet account which will assign one static IP address. Notice that with this configuration, all stations on the network will be able to access the Internet, but they will be 'hidden' from the outside. That is, from the ISP's point of view, they will only be able to 'see' the single IP address (in this case, '204.5.2.10'). There will be two items that you need to set up.

I. Workstation Setup

To set up the workstation (W/S), you will need to set the following parameters:

IP Address - the IP address assigned to the workstation itself, in the above example, '192.68.135.1'

Subnet Mask - the subnet mask used for your network. Class C networks generally use a 24-bit netmask, '255.255.255.0'.

DNS (Domain Name Server) Address - the IP address of the server station on your network that acts as the DNS. In the above example, '192.68.135.2'. Please note that some networks will not have a DNS. In this situation, you will need to obtain the IP address of a remote DNS from the ISP.

Default Gateway - the IP address of the station or device on your network that acts as a default gateway. That is, any packets without an implicit route to their destination IP address will be routed to the default gateway. Since the ISDN ROUTER is connecting to the Internet, the default gateway in this case would be the IP address of the ISDN ROUTER, '192.68.135.3'.

The procedure for configuring these parameters for your workstation may differ depending on the type of TCP/IP networking software you are using on your workstation. If you are unfamiliar with how to set these parameters, you can refer to the technical notes corresponding to your software.

Trumpet Winsock Windows 3.1 Workstation Setup - see section 'Internet Access'

Chameleon LAN Setup - see section 'Internet Access'

Windows 95/NT - see section 'Internet Access'

MacTCP Setup

II. ISDN ROUTER Setup

In order to configure your ISDN ROUTER for this application, make sure you have the following menus configured correctly.

Note that the fields are indicated in **bold** type.

Menu 1:

```
Menu 1 - General Setup

System Name= IRT1000ST
Location= Taipei
Contact Person's Name= CC

Route IP= Yes
Route IPX= No
Bridge= No

Press ENTER to Confirm or ESC to Cancel:
```

In menu 1, make sure the **Route IP** field is set to 'Yes'.

Menu 2:

```
Menu 2 - ISDN Setup

Switch Type= Northern Telecom Custom

B Channel Usage= Switch/Switch
1st Phone #= 5551212
SPID #= 408555121200

2nd Phone #= 5551213
SPID #= 408555121300

Press ENTER to Confirm or ESC to Cancel:
```

In menu 2, set your switch type, phone numbers, and SPIDs (if necessary).

After saving this menu, you will be asked if you want to perform an ISDN connection test. Select 'Yes' to perform the test. If the test fails, refer to the User's Manual Troubleshooting section for corrective action.

Menu 3.2:

```
Menu 3.2 - TCP/IP and DHCP Ethernet Setup

DHCP Setup:
  DHCP= None
  Client IP Pool Starting Address= N/A
  Size of Client IP Pool= N/A
  Primary DNS Server= N/A
  Secondary DNS Server= N/A

TCP/IP Setup:
  IP Address= 192.68.135.3
  IP Subnet Mask= 255.255.255.0
  RIP Direction= Both
  Version= RIP-v1

Press ENTER to Confirm or ESC to Cancel:
```

In menu 3.2, the **IP Address** and **IP Subnet Mask** field must be set correctly in order for your workstation to communicate with your ISDN ROUTER.

DHCP is set to “None” in this example. If you need to use ISDN ROUTER to assign IP addresses to all Win95/NT on your network, then set DHCP to “Server.” (For detail information please refer to Application notes inet0004.pdf - “Internet Access for Win95/NT with DHCP and SUA (NAT).”

Menu 4:

```
Menu 4 - Internet Access Setup

ISP's Name= My_ISP
ISP IP Addr= 204.5.1.1
Pri Phone #= 5551214
Sec Phone #=
My Login= username
My Password= *****
Single User Account= Yes
  IP Addr= 204.5.2.10
  Server IP Addr= 192.68.135.2
Telco Option:
  Transfer Type= 64K

Press ENTER to Confirm or ESC to Cancel:
```

The **ISP IP Addr** field should be set to the ISP Gateway address. This address is supplied by your ISP.

Pri Phone # is the number your ISDN ROUTER has to dial in order to access your ISP. This number is supplied by your ISP.

My Login and **My Password** is the login information provided by your ISP.

- Since you have a single user Internet account, **Single User Account** should be set to ‘Yes’. For the **IP Addr** field, enter the IP address that is statically assigned by your ISP. In our example, this address is ‘204.5.2.10’.

Server IP Addr should have the IP address of the server station on your network. Please note that this configuration will only work if you have one server on the network. In our example, the

DNS is our server, so we would enter '192.68.135.2'. If you do not have a server station on your network, just leave this field blank.

After saving this menu, you will be asked if you want to perform an Internet connection test. Select 'Yes' to perform the test. If the test fails, refer to the User's Manual Troubleshooting section for corrective action.

Menu 11:

Menu 11 - Remote Node Setup

1. My_ISP (ISP)

2. _____

3. _____

4. _____

Enter Node # to Edit:

After you have configured and saved menu 4, you should see that you have created a remote node in menu 11. You can perform more advanced configuration options to this remote node in this menu. In addition, you can make manual calls to the Internet by using the **Manual Call** option in menu 24.4 and selecting the corresponding '(ISP)' remote node.