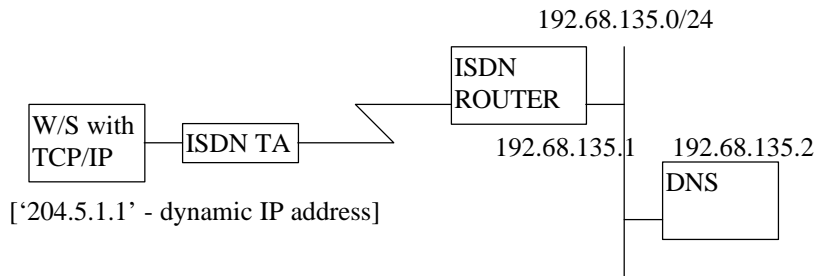


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Telecommuting/Remote Access W/S with a Dynamically Assigned IP Address to Route IP



Note: The IP addresses shown above are examples only!

This configuration note explains how to set up a workstation using an ISDN terminal adapter (TA) to connect to the ISDN ROUTER to route IP. In this configuration, the workstation has TCP/IP software installed. Once connected, the workstation will be able to perform any TCP/IP applications on the network stations (e.g., FTP, telnet, etc.). There will be two items that you need to set up. These are the workstation and the ISDN ROUTER.

I. Workstation Setup

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

IP Address - the IP address in this case will be dynamically assigned by the ISDN ROUTER. Generally, you should simply enter '0.0.0.0' into the IP address field.

DNS (Domain Name Server) Address - the IP address of the server station on the remote network that acts as the DNS. In the above example, '192.68.135.2'.

Default Gateway - the IP address of the station or device on the remote network that acts as your default gateway. That is, any packets without an implicit route to their destination IP address will be routed to the default gateway. In our example, the Default Gateway would be the router you are connected to, '192.68.135.1'.

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 WAN Setup - ISDN TA to ISDN ROUTER 2864I
 Chameleon WAN Setup - ISDN TA to ISDN ROUTER 2864I
 Windows 95/NT TCP/IP WAN
 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= IRT1000
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= 192.68.135.1
  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.

Menu 13:

```
Menu 13 - Default Dial-in Setup

Telco Options:
  CLID Authen= None

PPP Options:
  Recv Authen= CHAP/PAP
  Compression= No
  Mutual Authen= No
  PAP Login= N/A
  PAP Password= N/A
  Multiple Link Options:
    Max Trans Rate(Kbps)= 128

Callback Budget Management:
  Allocated Budget(min)= 0
  Period(hr)= 0

IP Address Supplied By:
  Dial-in User= No
  IP Pool= Yes
  IP Start Addr= 204.5.1.1
  IP Count(1,2)= 1

IPX Net Num Supplied By:
  IPX Pool= No
  IPX Start Net Num= N/A
  IPX Count(2,16)= N/A

Session Options:
  Input Filter Sets=
  Output Filter Sets=
  Idle Timeout= 300

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

The **Recv Authen** field should be set to the type of authentication protocol you want to use.

Since the workstation needs to have its IP address assigned, set the **IP Address Supplied By: Dial-in User** field to 'No'.

Make sure that **IP Pool** is set to 'Yes'.

In **IP Start Addr**, enter the IP address that you want to assign to the workstation when it dials in. In our example, this would be '204.5.1.1'.

Set **IP Count(1,2)** to '1'.

Menu 14:

```
Menu 14.1 - Edit Dial-in User

User #: 1
User Name= username
Active= Yes
Passwd= *****
Callback= No
  Phone # Supplied by Caller= N/A
  Callback Phone #= N/A
Rem CLID=
Idle Timeout= 300

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

The **User Name** and **Passwd** fields should be set to the login user name and password that the workstation will provide when dialing in to the ISDN ROUTER.
Set the **Active** field to 'Yes'.