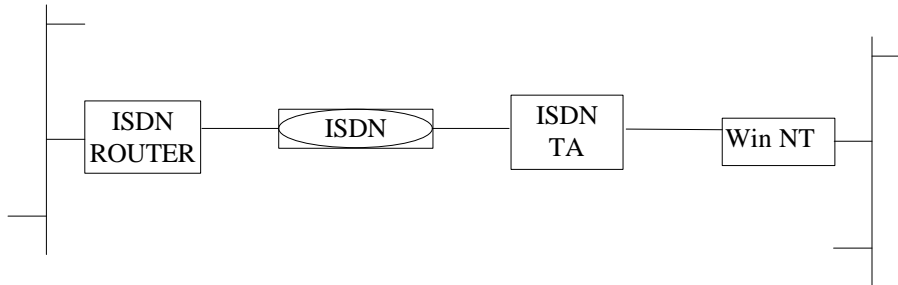


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ISDN ROUTER dialing to Windows NT using Remote Access Administrator w/ ISDN Terminal Adapter

This document describes how to setup the ISDN ROUTER and the Windows NT workstation for the following application:



Setting up a workstation on your network to use the ISDN ROUTER to connect to a workstation (e.g., Windows NT 4.0 client using Remote Access Administrator) with an ISDN Terminal Adapter to route IP and/or IPX.

I. Setup Windows NT (Must have administrator level access)

- A. Enable TCP/IP and/or IPX on the WAN sideSelect Network Control Panel
 1. Add the Remote Access Service to the Network:Service menu
 2. Configure Remote Access. Configure the TCP/IP and IPX protocols as desired. Make sure to select the option 'Allow any authentication including clear text'
 3. Save your changes and reboot computer when prompted
- B. Go to Startup:Remote Access:Remote Access Admin
 1. Select Servers: Start Remote Access Server and configure
 2. Select Users:Privileges
 3. Give needed users dial in access
 4. If callback wanted, select your callback option* (If using "Preset To" being sure to include any prefixes needed (eg. by a PBX))

*Because the ISDN ROUTER usually will be stationary it is highly recommended to use the 'Preset To' as this increases the security of the network

II. ISDN ROUTER Setup

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

Note: 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). The 1st Phone # field will be the first number for NT to call back. The 2nd Phone # field will be the second number for NT to callback. The second number will be used to send to NT if you specify the Callback option 'Set by Caller'. Be sure to include any prefixes and area codes that it may need to callback.

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= 204.247.203.175
  IP Subnet Mask= 255.255.255.192
  RIP Direction= In Only
  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.

Menu 11:

```
Menu 11.1 - Remote Node Profile

Rem Node Name= To_NT
Active= Yes
Call Direction= Both

Incoming:
  Rem Login= NT
  Rem Password= *****
  Rem CLID=
  Call Back= No
Outgoing:
  My Login= username
  My Password= *****
  Authen= CHAP/PAP
  Pri Phone #= 5551214
  Sec Phone #=

Route= IP
Bridge= No

Edit PPP Options= No
Rem IP Addr= 204.5.1.1
Edit IP/IPX/Bridge= No
Telco Option:
  Transfer Type= 64K
  Allocated Budget(min)= 0
  Period(hr)= 0
Session Options:
  Input Filter Sets=
  Output Filter Sets=
  Call Filter Sets=
  Idle Timeout(sec)= 300

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

For the remote node name and set the **Active** field to 'Yes'.

The **Call Direction** field should be set to 'Both'.

My Login and **My Password** is the NT account name and password to login to NT.

Pri & Sec Phone # is the phone number of the ISDN TA you are dialing to.

The **Route** field should be set to the protocols you want to route.

The **Rem IP Address** is the workstations IP address. *NT 4.0 beta 1 claimed the first address in it's ip pool, set under Network: Services: Remote Access as it's own address (this is an NT bug).

Menu 13:

| | |
|--|--------------------------|
| Menu 13 - Default Dial-in Setup | |
| Telco Options: | IP Address Supplied By: |
| CLID Authen= None | Dial-in User= Yes |
| | IP Pool= No |
| PPP Options: | IP Start Addr= N/A |
| Recv Authen= None | IP Count(1,2)= N/A |
| Compression= Yes | |
| Mutual Authen= No | IPX Net Num Supplied By: |
| PAP Login= N/A | IPX Pool= No |
| PAP Password= N/A | IPX Start Net Num= N/A |
| Multiple Link Options: | IPX Count(2,16)= N/A |
| Max Trans Rate(Kbps)= 128 | |
| Callback Budget Management: | Session Options: |
| Allocated Budget(min)= 0 | Input Filter Sets= |
| Period(hr)= 0 | Output Filter Sets= |
| | Idle Timeout= 300 |
| Press ENTER to Confirm or ESC to Cancel: | |

The **Recv Authen** field must be set to 'None' if you configure NT to call back to ISDN ROUTER.