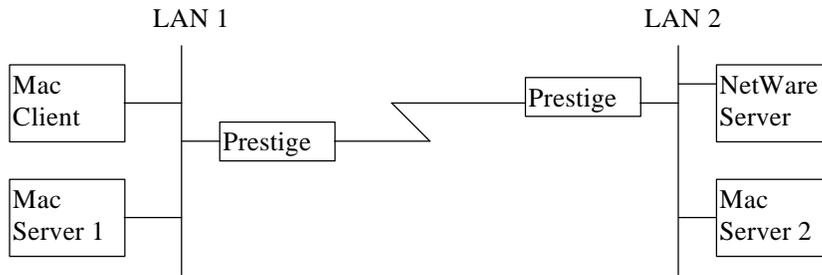


Last modified: June 25, 1996

LAN to LAN Connection Routing AppleTalk



This configuration note explains how to combine two separate AppleTalk LANs into one network via ISDN. This configuration will allow the Mac Client station (in LAN 1) to access the remote servers in LAN 2 besides the server in LAN 1. This setup will require you to set up two Prestiges.

I. Prestige 1 Setup (Client side)

In order to configure Prestige 1 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= Pres_2
Location= San Jose
Contact Person's Name= CC

Route IP= No
Route IPX= N/A
Route AppleTalk= Yes
Bridge= No

Press ENTER to Confirm or ESC to Cancel:

```

- In menu 1, make sure the **Route AppleTalk** 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
  Analog Call= Modem
2nd Phone #= 5551213
  SPID #= 408555121300
  Analog Call= Voice

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 3.4:

```
Menu 3.4 - AppleTalk Ethernet Setup

Seed Router= Yes
Network Range= 470-479
1st Zone Name= Engineering
2nd Zone Name= Testing
ZIP Timeout(min)= 1

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

- In menu 3.4, make sure that **Seed Router** is set to 'Yes' if there is no other router in this LAN providing the network ID. Otherwise, either set the **Seed Router** field to 'No' or set the **Network Range** exactly the same as the network ID configured by the other router.
- In menu 3.4, make sure that the **Network Range** field is unique in the whole network.

Menu 11:

```

Menu 11 - Remote Node Profile

Rem Node Name= APT_user           Route= AppleTalk
Active= Yes                       Bridge= No
Call Direction= Outgoing         Encaps= PPP
                                  Edit PPP Options= No
Incoming:                         Rem IP Addr= N/A
  Rem Login=                      Edit IP/IPX/AppleTalk/Bridge= Yes
  Rem Password=                   Telco Option:
  Rem CLID=                       Transfer Rate= 64K or 56K
  Call Back= N/A

Outgoing:                         Session Options:
  My Login= username              Input Filter Sets=
  My Password= *****           Output Filter Sets=
  Pri Phone #= 5551212            Call Filter Sets=
  Sec Phone #=                   Idle Timeout(sec)= 300

Press ENTER to Confirm or ESC to Cancel:

```

- The **Call Direction** should be set to 'Outgoing'.
- Make sure the remote node is enabled by setting **Active** to 'Yes'.
- **My Login** and **My Password** is the login information that this Prestige will use to connect to the remote router.
- The **Pri Phone #** field should be set to the correct phone number to dial.
- **Route** should be set to 'AppleTalk'.
- Set **Edit IP/IPX/AppleTalk/Bridge** to 'Yes' and press ENTER.

Menu 11.2:

```

Menu 11.2 - Remote Node Network Layer Options

IP Options:                       AppleTalk Options:
  Rem IP Addr:                    Dial-On-Query= Yes
  Rem Subnet Mask= N/A            Rem LAN Net Range= 101-105
  My WAN Addr= N/A                1st Zone Name= AT_Internal
  Metric= N/A                    2nd Zone Name= Manufacturing
  Private= N/A                   My WAN Net #= 0
  RIP= N/A                       My WAN Node ID= 0
IPX Options:                      Metric= 1
  Dial-On-Query= N/A             ZIP Timeout(min)= 1
  Rem LAN Net #= N/A
  My WAN Net #= N/A
  Hop Count= N/A
  Tick Count= N/A
  W/D Spoofing(min)= N/A
  SAP/RIP Timeout(min)= N/A

Bridge Options:
  Dial-On-Broadcast= N/A
  Ethernet Addr Timeout(min)= N/A

Enter here to CONFIRM or ESC to CANCEL:

```

- **Dial-On-Query** should be 'Yes'.
- Make sure to enter the correct network range in the **Rem LAN Net Range** field. AppleTalk routing is based on the information in this field.
- Make sure to enter the proper zone names to the **Zone Name** fields. The client workstation is based on the zone names provided by these fields to select the remote service. If two is not enough, you will need to configure static routes with the **Gateway Node** field set to this remote node.

Menu 12.3 (optional):

```
Menu 12.3 - Edit AppleTalk Static Route

Route #= 21
1st Zone Name= Marketing
2nd Zone Name= Sales
Network Range= 1001-1005
Active= Yes
Metric= 1
Gateway Node= 1

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

- **Gateway Node** should be set equal to the number of remote node (1-4) that has been configured for this application. If you are not sure of the remote node, check menu 11.

II. Prestige 2 Setup (Server side)

In order to configure Prestige 2, 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= Pres_1
Location= San Jose
Contact Person's Name= CC

Route IP= No
Route IPX= N/A
Route AppleTalk= Yes
Bridge= No

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

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

Menu 3.4:

```
Menu 3.4 - AppleTalk Ethernet Setup
```

```

Seed Router= No
Network Range= N/A
1st Zone Name= N/A
2nd Zone Name= N/A
ZIP Timeout(min)= 1

Press ENTER to Confirm or ESC to Cancel:

```

- In menu 3.4, make sure that **Seed Router** is set to 'Yes' if there is no other router in this LAN providing the network ID. Otherwise, either set the **Seed Router** field to 'No' or set the **Network Range** exactly the same as the network ID configured by the other router.

Menu 11:

```

Menu 11 - Remote Node Profile

Rem Node Name= APT_user           Route= AppleTalk
Active= Yes                       Bridge= No
Call Direction= Incoming         Encaps= PPP
                                  Edit PPP Options= No
Incoming:                          Rem IP Addr= N/A
  Rem Login= username            Edit IP/IPX/AppleTalk/Bridge= Yes
  Rem Password= *****
  Rem CLID=
  Call Back= N/A                Telco Option:
                                  Transfer Rate= 64K or 56K

Outgoing:                          Session Options:
  My Login=                      Input Filter Sets=
  My Password=                   Output Filter Sets=
  Pri Phone #= N/A               Call Filter Sets=
  Sec Phone #= N/A               Idle Timeout(sec)= 300

Press ENTER to Confirm or ESC to Cancel:

```

- The **Call Direction** should be set to 'Incoming'.
- Make sure the remote node is enabled by setting **Active** to 'Yes'.
- **Rem Login** and **Rem Password** is the login information that this Prestige will use to connect to the remote router.
- **Route** should be set to 'AppleTalk'.
- Set **Edit IP/IPX/AppleTalk/Bridge** to 'Yes' and press ENTER.

Menu 11.2:

```

Menu 11.2 - Remote Node Network Layer Options

IP Options:                        AppleTalk Options:
  Rem IP Addr:                    Dial-On-Query= No
  Rem Subnet Mask= N/A            Rem LAN Net Range= 470-479
  My WAN Addr= N/A                1st Zone Name= Engineering

```

```
Metric= N/A                2nd Zone Name= Testing
Private= N/A              My WAN Net #= 0
RIP= N/A                  My WAN Node ID= 0
IPX Options:              Metric= 1
  Dial-On-Query= N/A      ZIP Timeout(min)= 1
  Rem LAN Net #= N/A
  My WAN Net #= N/A
  Hop Count= N/A
  Tick Count= N/A
  W/D Spoofing(min)= N/A
  SAP/RIP Timeout(min)= N/A

Bridge Options:
  Dial-On-Broadcast= N/A
  Ethernet Addr Timeout(min)= N/A

Enter here to CONFIRM or ESC to CANCEL:
```

- **Dial-On-Query** should be 'No'.
- Make sure to enter the correct network range in the **Rem LAN Net Range** field. AppleTalk routing is based on the information in this field.
- Make sure to enter the proper zone names to the **Zone Name** fields. The client workstation is based on the zone names provided by these fields to select the remote service. If two is not enough, you will need to configure static routes with the **Gateway Node** field set to this remote node.