

ISDN Sample Configuration – AppleTalk

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Introduction

This document provides a sample ISDN configuration for AppleTalk.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Configuration Samples

Using Static Routing

R1
<pre>username R2 password SECRET appletalk routing isdn switch-type basic-5ess interface BRI0 encapsulation ppp appletalk cable-range 700-700 700.1 appletalk zone WAN no appletalk send-rtmps dialer wait-for-carrier-time 60</pre>

```
dialer map appletalk 700.2 name R2 speed 56 5552222
dialer-group 1
isdn spid1 5551111
ppp authentication chap

appletalk static cable-range 201-300 to 700.2 zone Branch

dialer-list 1 protocol appletalk permit
```

R2

```
username R1 password SECRET
appletalk routing
isdn switch-type basic-5ess

interface BRI0
encapsulation ppp
appletalk cable-range 700-700 700.2
appletalk zone WAN
no appletalk send-rtmps
dialer wait-for-carrier-time 60
dialer map appletalk 700.1 name R1 speed 56 5551111
dialer-group 1
isdn spid1 5552222
ppp authentication chap

appletalk static cable-range 101-200 to 700.1 zone HQ

dialer-list 1 protocol appletalk permit
```

Using Snapshot Routing

R1

```
username R2 password SECRET
appletalk routing
isdn switch-type basic-5ess

interface BRI0
encapsulation ppp
appletalk cable-range 700-700 700.1
appletalk zone WAN
dialer wait-for-carrier-time 60
dialer map appletalk 700.2 name R2 speed 56 broadcast 5552222
dialer map snapshot 2 name R2 speed 56 broadcast 5552222
dialer-group 1
snapshot client 5 60 dialer
isdn spid1 5551111
ppp authentication chap

dialer-list 1 protocol appletalk permit
```

R2

```
username R1 password SECRET
appletalk routing
isdn switch-type basic-5ess

interface BRI0
encapsulation ppp
appletalk cable-range 700-700 700.2
appletalk zone WAN
dialer wait-for-carrier-time 60
```

```
dialer map appletalk 700.1 name R1 speed 56 broadcast 5551111
dialer-group 1
snapshot server 5 dialer
isdn spid1 5552222
ppp authentication chap

dialer-list 1 protocol appletalk permit
```

IOS 11.0 Additional Notes – Limiting Interesting Packets

Some Macintosh applications periodically send out NBP Lookup to all zones for numerous reasons – checking same serial number for copy protection, automatic search of other servers, etc. As a result, the ISDN link will get brought up frequently and wasting usages. In 11.0(2.1) or higher, Cisco routers allow the user to configure NBP Filtering for dialer-list to prevent this problem. To do this, you should replace this line on both routers:

```
dialer-list 1 protocol appletalk permit
```

With these lines:

```
dialer-list 1 list 600

access-list 600 permit nbp 1 type AFPServer
access-list 600 permit nbp 2 type LaserWriter
access-list 600 deny other-nbps
access-list 600 permit other-access broadcast-deny
```

The above example indicates you want to permit only two kinds of Type of Service for NBP Lookup to bring up the ISDN line. If you want to permit additional type, add to the example before the "deny other-nbps" statement. Make sure you need to have a different sequence number or it will overwrite the previous one. For example, if you want to also permit NBP Lookup for DeskWriter to bring up the line, the list will look like this:

```
dialer-list 1 list 600
access-list 600 permit nbp 1 type AFPServer
access-list 600 permit nbp 2 type LaserWriter
access-list 600 permit nbp 3 type DeskWriter
access-list 600 deny other-nbps
access-list 600 permit other-access broadcast-deny
```

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

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Related Information

- **Technical Support & Documentation – Cisco Systems**
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