AppleTalk Phase 1 Initial Configuration





Part Number: AV–QL22C–TE AppleTalk Phase 1 Quick Reference Card Version 1.1 January 1996

AppleTalk Phase 1 Configuration Commands

This quick reference card summarizes the AppleTalk Phase 1 configuration and console commands. The front panel of this card provides the initial configuration steps for this protocol. The back panel tells you how to access the CONFIG process.

Enter the following configuration commands at the APL config> prompt. To list the configuration commands and their options, enter a **?**.

After you have configured all of the protocols, enter **restart** at the OPCON prompt (*), and respond **yes** after the following prompt:

Are you sure you want to restart the router? (Yes or No): yes

disable

<u>a</u>pl

list

Displays the current AppleTalk Phase 1 configuration.

Disables the AppleTalk Phase 1 protocol as a whole.

<u>c</u>hecksum

Disables checksumming on packets that the specified interface generates.

interface interface#

Disables AppleTalk Phase 1 on the specified interface.

takedown

Prevents ZIP takedown and bringup packets from affecting the routers network numbers and zone names. This is the default for security reasons.

enable

<u>a</u>pl

Enables the AppleTalk Phase 1 packet forwarder.

<u>c</u>hecksum

Enables checksumming on packets that the specified interface generates.

interface interface#

Enables AppleTalk Phase 1 on the specified interface.

takedown

Prevents ZIP takedown and bringup packets from affecting the routers network numbers and zone names. This is the default for security reasons.

<u>s</u>et

ddp-header long interface#

Specifies long DDP headers for packets sent on that interface number. This is the default, and is recommended by Apple.

ddp-header short interface#

Specifies short DDP headers for packets sent on that interface number. Use this only for compatibility with software that does not support long DDP headers.

net-number interface# AppleTalk Phase I-net#

Assigns an AppleTalk Phase 1 network number to the associated directly-connected network.

node-number interface# node#

Specifies the number of the interface. This is optional. The default is auto-configure.

nnets#

Specifies the size of the AppleTalk Phase 1 routing table.

zone interface# name

Specifies the zone name to be seeded on this network.

<u>e</u>xit

Returns to the previous prompt level.

AppleTalk Phase 1 Console Commands

Enter these commands after the APL> prompt. The back panel of this card tells you how to access the CGWCON process.

To list the AppleTalk Phase 1 console commands and their options, enter a ? after the APL> prompt.

| <u>c</u> ounters Displays the number of packet overflows on each network that sends and receives AppleTalk Phase 1 packets. <u>d</u> ump Displays the routing table information | | | | Source | The originating network type for that routing table entry. <i>APL</i> indicates an AppleTalk Phase 1 network. <i>AP2</i> indicates an AppleTalk Phase II. |
|--|--|--|-------------------------------|------------------|--|
| | about the interfaces on the router that forwards AppleTalk Phase 1 packets. | | | Zone | Specifies the human- understandable name for that network. The zone name is enclosed in double quotes in case there are embedded spaces or non-printing characters. |
| | Dest net | The destination network number in decimal. | | | |
| | Cost | The number of route hops to this destination network. | | | |
| | State | The state of the entry in the routing table. | interfaces in AppleTalk Ph | | |
| | Next hop | The next hop for packets going to networks that are not directly connected. For directly connected networks, this is node number 0. | | | addresses of all the the router on which hase 1 is enabled. |
| | | | <u>e</u> xit Re | turns to the pre | vious prompt level. |

Further Configuration Considerations

To allow Phase1 hosts to transparently communicate with Phase 2 hosts, you must enter the AppleTalk Phase 2 configuration process on the router running AP2 and enable the AppleTalk Phase 1/2 translation function via that router's AP2 **enable translation** configuration command.

In addition to providing the gateway translation function, this router now acts as both a Phase1

and Phase 2 router on whatever interfaces these protocols are configured. Routing information is passed between Phase 1 and Phase 2 networks by the gateway resulting in a (logically) single internet.

For more information on the **enable translation** command and AppleTalk Phase 2, refer to the chapter "Configuring AppleTalk Phase 1" in the *Protocol Configuration Guide*, Volume 2.

Accessing the CONFIG Process

Use the CONFIG process to display and change the current configuration in static RAM (SRAM). To display the CONFIG prompt (Config>):

- 1. After the router boots, the console displays the * prompt. Enter **status** to display the pid (process ID) of CONFIG.
- 2. Enter **talk** and the pid for CONFIG. This displays the following information:

```
Gateway user configuration Config>
```

If the Config> prompt does not appear, press **RETURN** again. You can now enter the configuration commands.

- 3. When you are done entering the configuration commands, do the following to load the new configuration:
 - a. Press CTRL-P after the Config> prompt.

Config> **^p** *

- b. Enter restart after the * prompt.
- c. Respond **yes** to the following prompt:

```
Are you sure you want to restart the gateway? (Yes or No): yes
```

The new configuration is loaded when the console displays the following information:

```
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Copyright 1996 Digital Equipment Corp.
Copyright 1985-1994 Proteon, Inc.
Copyright 1984-1987, 1989 by J. Noel Chiappa
MOS Operator Control
```

Accessing the CGWCON Process

Use the CGWCON process to monitor protocols, network interfaces, and system messages. You cannot access the CGWCON process if the router is in configuration-only mode (the prompt is Config> only). To display the GWCON prompt (+):

- 1. After the router boots, the console displays the * prompt. Enter **status** to display the pid (process ID) of CGWCON.
- 2. Enter **talk** and the pid for CGWCON. This displays the CGWCON prompt (+). You can now enter the monitoring commands.

To return to the * prompt, press CTRL-P.

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