



Digital RoamAbout Access Point Release Notes






Version V2.2

May 1996

These release notes contain features, known conditions and restrictions, and other related information of the Digital RoamAbout Access Point (also referred to as the Access Point).

Summary of Features

The following summarizes the features of Version V2.2 of the Access Point:

- Wireless connectivity to your LAN using a Digital RoamAbout PC Card Network Adapter
- Allows mobile end stations to roam from one wireless LAN into another wireless LAN without losing connectivity
-  • Direct Sequence (DS) and Frequency Hopping (FH) technology support
-  • 915 MHz DS-type and 2.4 GHz support for both DS-type and FH-type PC Cards
- Standalone or mountable in a DEChub 900, DEChub 90 or the Digital MultiStack System stackable hub
- ThinWire (10base2) and 10BaseT support
- SNMP manageability
- Local setup port manageability
-  • Auto-configuration of channels within a domain (FH-type PC Card)
-  • Auto-configuration of Network ID (DS-type PC Card)
-  • BOOTP support for auto-learning the IP address from the BOOTP server
- Protocol independent bridging
- Redundancy through 802.1D Spanning Tree
- Source and destination address filtering
- Protocol filtering

- Configurable rate limiting for protocols and multicast addresses
- Default multicast rate limiting implemented from wire-to-wireless at 100 kbps (approximately 100 packets per second) for DS-type PC Cards
- Default multicast rate limiting implemented from wire-to-wireless at 27 packets per second for FH-type PC Cards
- User-selectable enabling and disabling of default rate limiting
- 8000 node forwarding address database
- Software selectable full- or workgroup bridge modes of operation
- Downline-load capability (for software upgrades) using BOOTP and TFTP
- Power-up diagnostics

Known Conditions and Restrictions

The following is a list of Access Point Version V2.2 conditions and restrictions.

- The following error message in the module-specific error log is misleading:

```
Flash address outside range of Flash
```

This error message means that the crash-dump file does not exist on the load host or is not write-enabled on the load host. (This error message has nothing to do with Flash.)

- Do not delete the broadcast address FF-FF-FF-FF-FF-FF. If you attempt to delete the broadcast address from the address filter database, the AP gives an error response to the delete request. However, this error response is misleading because the address *can be deleted* by accident.

If the broadcast address is deleted, the next time the system resets, it will not be able to respond to ARP and SNMP requests. In order to restore the broadcast address, the system must be initialized to factory defaults.

Other Information

new

- Access Point software upgrades and current release note information are now distributed on the World Wide Web (WWW) and the Bulletin Board Service (BBS). To locate product-specific information listed below, refer to the following online services:

World Wide Web

<http://www.networks.digital.com/npb/html/wireless.html>

Bulletin Board Service

Set your modem to 8 bits, no parity, 1 stop bit. Dial:

508-486-5777 (within the U.S.), or

(access code)-1-508-486-5777 (from outside the U.S.).

Vxx.bin	TFTP load image where xx is the version number
relnotes.ps	Release Notes (in PostScript output)
relnotes.txt	Release Notes (in ASCII text output)
*.mib	SNMP management MIBS

- The supported FH-type PC Card ROM version must be Version V1.47 or higher. To determine the ROM version, select the `Module-Specific Options` from the Access Point Installation Menu, and then select the `Show Wireless` option.
- When using frequency hopping PC Card network adapters, the Security ID must be changed from the default setting of 0 for security purposes.
Note: The *Digital RoamAbout Access Point Quick Start* card incorrectly states this as Domain ID.
- The Digital RoamAbout Access Point can be configured to full bridge mode for wireless connection between 2 wired LANS. The maximum performance for wireless LAN to LAN configurations is obtained by using a 915/2400 DS/PC Card in the Digital RoamAbout Access Point.
- Wireless LAN to LAN connections must be configured as specified in Table 1:

Table 1 Wireless LAN to LAN Configuration Settings

DS-type Network Adapter	FH-type Network Adapter
Full bridge mode for both APs	Full bridge mode for both APs
Domain ID = 0 (roaming disabled)	One AP set to MASTER, one AP set to STATION
NWID must be the same on both LAN-LAN APs, but different than all other NWIDs.	Domain – both APs must have the same value, and must be different than other adjacent APs
Beacon key – not required when roaming is disabled (Domain ID = 0)	Channel – both APs must have the same value, and must be different than other adjacent APs Subchannel – must be the same value for both APs Security ID – must be the same value for both APs

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