

IBM Network Station™ Family of Thin Clients
Access for today, flexibility for tomorrow



V2R1 PTF-5 Flash Boot Support

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V2R1 Flash Boot Support for Series 1000

- **Support for the Series 1000 only (Series 300 not supported)**
 - ▶ **PCMCIA riser card required**
 - **Sold as an Option on Series 1000**
 - **Slot located in the back of the machine**
 - ▶ **PCMCIA CompactFlash Card Adapter required**
 - ▶ **Boot Monitor level of 3.1.0.2 or greater required**
 - ▶ **Supported CompactFlash cards for Series 1000**
 - **Sandisk 48MB, 64MB, 96MB, and 128MB**
 - **Hitachi 48MB, 64MB, 96MB, and 128MB**



Series 1000 Flash Boot Setup

■ Client Configuration

- ▶ DHCP setup is the same as the Series 2200 and Series 2800
- ▶ NVRAM
- ▶ Flash Card Installation
 - PCMCIA riser card must be installed on the Series 1000
 - Insert a CompactFlash Card into a CompactFlash PCMCIA Card Adapter
 - Insert the Adapter into the PCMCIA slot located in the back of a Series 1000

■ Client Flash Image Creation/Update

- ▶ To create a flash image for PPC specify "PPC" for the hardware support within NSM Flash Manager.
- ▶ Note that the size of PPC flash images are roughly 15%-20% larger than what NSM reports.
- ▶ The process for burning flash cards on Series 1000 is the same as Series 2200 and Series 2800.



NVRAM Client Configuration (PPC) (continued)

■ Network Parameters (F3)

- ▶ **Boot Host IP address:**
 - **First Host:** 0.0.0.0 (ignored because of flash boot)
 - **Second Host:** should be primary network boot server
- ▶ **Configuration Host IP Address:**
 - **Configurations loaded from a configuration server (authentication or kiosk)**
 - **First Host:** IP of primary configuration server
 - **Configurations loaded from the flash card (kiosk only)**
 - **First Host:** IP of Network Station
 - **Second Host:** IP of primary configuration server



NVRAM Client Configuration (PPC) (continued)

■ Boot Parameters (F4)

- ▶ **Boot file server directory and file name:**
 - **Boot File:** kernel.1000
 - **NFS boot Directory:**
/NetworkStationV2/prodbase/ppc/
 - **TFTP boot Directory:** ...
- ▶ **Boot file server protocol:**
 - **TFTP Order:** 2 or 3
 - **NFS Order:** 2 or 3
 - **LOCAL Order:** 1



NVRAM Client Configuration (PPC) (continued)

■ **Configuration Parameters (F5)**

▶ **Configuration Directory:**

- **Set to the profiles directory of the configuration server**
- **For kiosk files in flash: /termbase/profiles/**

▶ **Configuration Host Protocol:**

- **Configurations loaded from a configuration server (authentication or kiosk)**
 - **Set to the protocol of your configuration server (default can not be used because the default is your flash card)**
- **For kiosk files in flash:**
 - **First: Local**
 - **Second: Set to the protocol of your configuration server**



Peer Booting

- **Flash based client must have the NFS peer boot in the flash image**
 - ▶ **Set via NSM Flash Manager Utility - select 'NFS Peer Boot'**
- **Boot file server protocol for peer booting clients is NFS**
 - ▶ **Flash based clients with NFS peer boot installed automatically launch the NFS daemon when they boot**
- **Point to the flash based client's IP address for boot server**
- **File paths start at the root directory**
 - ▶ **i.e. Boot file server directory and file name is kernel.1000**



Peer Booting (continued)

■ Note:

- ▶ **Series 300 peer booting is not supported for peer booting**
- ▶ **Peer booting across platforms is not supported (example peer booting a Series 2200 (x86) to a Series 1000 (ppc))**
- ▶ **The authentication server is unknown from a peer booted Series/1000.**
 - **V2R1 defaults to the boot server for authentication. In flash boot environments this is the Flash booted Network Station.**
 - **The user is required to roam to an authentication server when a Series/1000 is peer booted.**



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