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CUSTOMER RELEASE NOTES

DIGITAL GIGAswitch/Router
Boot PROM Version 1.1.0.5
March, 1999

INTRODUCTION:

This document provides specific information for Boot PROM version 1.1.0.5 for the DIGITAL GIGAswitch/Router family of products.

It is recommended that one thoroughly review this release note prior to the installation or upgrade of this product.

FIRMWARE SPECIFICATION:

Image Name	Version No.	Type	Release Date
prom-1.1.0.5	1.1.0.5	Customer	March 1999
prom-1.1.0.5-cm2	1.1.0.5	Customer	March 1999
prom-1.1.0.4	1.1.0.4	Internal	January 1999
prom-1.1.0.3	1.1.0.3	Internal	January 1999
prom-1.1.0.2	1.1.0.2	Customer	October 1998
prom-1.1.0.2-cm2	1.1.0.2	Customer	October 1998
prom-1.1.0.1	1.1.0.1	Customer	September 1998
prom-1.1.0.0	1.0.0.0	Customer	March 1998

HARDWARE COMPATIBILITY:

Part	Description	Minimum GSR Firmware Version
DGSRA-AA	8-Slot SmartSwitch Router Chassis, Backplane and Modular Fan	1.0.0.0
DGSRA-BA	16-slot SmartSwitch Router Chassis, BackPlane and Modular Fan	1.2.0.0
DGSRC-AA	Control Module with 64 MB	1.0.0.0
DGSRC-AB	Control Module with 128 MB	1.0.0.0
DGSRC-BA	Revised Control Module with 64 MB	1.1.0.0
DGSRC-BB	Revised Control Module with 128 MB	1.1.0.0

BOOT PROM COMPATIBILITY:

Boot PROM version 1.1.0.5 can be used with GSR firmware version 2.0.0.0 and greater. The Boot PROM resides in the internal flash on the Control Module. Its primary function is to load the firmware image.

For the **GSR-8**, the following table lists the Control Module, Boot PROM image, and firmware image compatibility.

Control Module	Minimum Boot PROM Image	Current Boot PROM Image	Minimum GSR Firmware Image
DGSRC-AA DGSRC-AB	prom-1.0.0.0	prom-1.1.0.5	1.0.0.0
DGSRC-BA DGSRC-BB	prom-1.1.0.0	prom-1.1.0.5-cm2	1.1.0.0

Note: For the DGSRC-AA and DGSRC-AB Control Modules, DIGITAL recommends using Boot PROM version 1.1.0.2 (image name prom-1.1.0.2) or higher.

If you are using GSR firmware 2.1.0.0 or higher, DIGITAL recommends using Boot PROM version 1.1.0.5 (image name prom-1.1.0.5 or prom-1.1.0.5-cm2) or higher

For the **GSR-16**, the following table lists the Control Module, Boot PROM image, and firmware image compatibility.

Control Module	Minimum Boot PROM Image	Current Boot PROM Image	Minimum GSR Firmware Image
DGSRC-BA DGSRC-BB	prom-1.1.0.2-cm2	prom-1.1.0.5-cm2	1.2.0.0

Note: If you are using GSR firmware 2.1.0.0 or higher, DIGITAL recommends using Boot PROM version 1.1.0.5 (image name prom-1.1.0.5-cm2) or higher

SUPPORTED FUNCTIONALITY:

The Boot PROM software image is loaded when the GSR is powered on. Its function is to load the system software image file.

INSTALLATION AND CONFIGURATION NOTES:

Upgrading the Boot PROM to version 1.1.0.5

To upgrade the GSR's Boot PROM to version 1.1.0.5:

1. Enter Enable mode on the GSR. To get to this mode, use the **enable** command.

   gs/r> **enable**

2. Verify the current Boot PROM version loaded on the GSR. Enter the **system show version** command.

   gs/r# **system show version**
   Software Version   :   2.1.0.1
   Copyright   :   Copyright © 1999 Cabletron Systems Inc.
   Image Information   :   Version 2.1.0.0 built on Fri Mar 12 01:16:15 1999
   Image Boot Location: tftp://10.50.89.88/gsr2101
   Boot Prom Version   :   prom-1.0.0.0

3. Make sure the new Boot PROM image is in the tftp directory of the tftp server used to load the GSR.

4. Use the **system promimage upgrade** command to copy and upgrade the Boot PROM image.

   gs/r# **system prom image upgrade 10.50.89.88 prom-1.1.0.5**
   Downloading image "prom-1.1.0.5" from host "10.50.89.88"
   to local image "prom-1.1.0.5" (takes a few minutes)
   Kernel: 100%
   Image checksum validated.
   Image added.

5. Reboot the GSR and enter the **system show version** command to verify the upgrade.

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CUSTOMER RELEASE NOTES

Boot Flash Error

If you see the following message when trying to modify the GSR configuration:

%SYS-E-VFSBADINUSECNT, WriteConfig: open: invalid in-use count

it means the boot-flash is corrupted and must be reformatted. To reformat the boot flash, do the following:

1. Make a copy of the GSR's configuration file. The information in this file is lost when you reformat the boot flash.

2. Get to the system Boot PROM mode. To get to this mode, the GSR must either be rebooted or powered off then on. When the GSR goes through its initialization, interrupt the normal boot sequence by pressing the Escape key. Typically, the GSR waits two seconds for user interruption before entering the normal boot sequence.

3. After you press the Escape key, a gs/r-boot prompt is displayed. Enter the following commands:

    gs/r-boot> **umount**
    gs/r-boot> **erasevfs**
    gs/r-boot> **mount –l**

FIRMWARE CHANGES AND ENHANCEMENTS:

New Features in Boot PROM Version 1.1.0.5

The following features are new in Boot PROM version 1.1.0.5

•   Fixed a file system performance problem that caused large kernels (such as the 2.1 beta series) to take more than a minute to boot from flash. With Boot PROM 1.1.0.5, boot time is back down to 7 seconds. The time required for adding images may also be reduced slightly.

•   Corrected a memory-sizing problem in which a GSR with 32MB of memory would claim to have only 16MB.

KNOWN RESTRICTIONS AND LIMITATIONS:

None

COMPLIANCE SUPPORT:

Compliance Level	Compliant
Year 2000	YES

Known Anomalies: None.

Note: Date and time information is provided by the device, not by the Boot PROM.

IETF STANDARDS MIB SUPPORT:

MIB support is supplied by and dependent upon the firmware image on the device in which this Boot PROM resides.

PRIVATE ENTERPRISE MIB SUPPORT:

MIB support is supplied by and dependent upon the firmware image on the device in which this Boot PROM resides.

SNMP TRAP SUPPORT:

SNMP trap support is supplied by and dependent upon the firmware image on the device in which this Boot PROM resides.

PRIVATE ENTERPRISE TRAP SUPPORT:

Private enterprise trap support is supplied by and dependent upon the firmware image on the device in which this Boot PROM resides.

ACCESSING ONLINE INFORMATION:

DIGITAL Network Product Group Web Site

Further information on this network product or topic is available on the DIGITAL Network Product Group (DNPG) Web Site. The Web site maintains a common, rich set of up-to-date information on NPBG's products, technologies, and programs.

The Web Site can be reached at geological locations via the following:

Americas:	http://www.networks.digital.com
Europe:	http://www.networks.europe.digital.com
Asia Pacific:	http://www.networks.digital.com.au

For a listing of all the products available on the DNPG Web Site, please choose the "Technical Information" link, and from there choose the "Technical Information (Drivers, Manuals, Tech Tips, etc.)" link.