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Adaptive Technical
Communications Lab

September 11, 2006

To: Owners of the HP Integrity rx7640 Server
Subject: Certificate of Volatility

Dear Owner:

This is a statement regarding the volatility of customer data stored in memory and hard disk devices of the HP Integrity rx7640 server.

The HP Integrity rx7640 server uses two types of memory to store customer information: volatile (RAM and SRAM) and non-volatile (EEROM, NVRAM and Flash) memory devices and Hard Disk Drives.

RAM and SRAM

The server utilizes RAM and SRAM to store customer data during normal operation. AC power cycling the system will erase RAM and SRAM memory devices during the power up self test.

Flash Memory

The only data stored in flash memory devices is written by the firmware update process. No customer data is written to flash memory during the firmware update process. If desired, firmware may be restored to its initial state by re-installing the original version.

NVRAM and EEPROM

Note: In order to completely clear all information from the rx7640 server all cells must be joined to a partition. Verify all cells are joined to a partition before performing the following steps.

Configuration values are stored in NVRAM on the CoreIO PCA cards and in EEPROM on the System Backplane and Cell Board PCA's. The following commands will clear or default the values stored in these locations. Note that it is important to follow the procedures below in the order they are presented.

To clear MCA Error logs execute the "errdump all clear" EFI shell command. Customer configuration data is stored in NVRAM on each cell. Some values are stored per-cell, and some values are stored on the core cell only. Most of these configuration parameters (including boot-paths, ACPI mode, vpars/npars mode, etc) can be cleared using the "default clear" EFI shell command.

"errdump all clear" and "default clear" must be executed for each partition, for example:

```
Shell> errdump all clear
```

```
Are you sure you want to clear ALL logs for Partition 0? [y/N] y  
All logs for CELL 0 have been cleared.
```

```
Shell> default clear
```

```
default: Warning, system state is unstable  
until a reset is issued.
```

The CG command from the MP's CM prompt allows an administrator to invalidate the stored SSL/SSH certificate/keypair and any SSH parameters that have been stored. To invalidate the certificate, type the command "invalidate" when prompted about modification.

```
[mphost] MP:CM> cg
```

This command generates a new SSL/SSH certificate/keypair.

The current SSL/SSH certificate/keypair parameters are:

```
Common Name: com
Organization: org
Organizational Unit: ou
Country: ctry
State: state
Locality: loc
Email: email
Certificate expiration: Feb 17 2008
```

Do you want to modify the SSL/SSH certificate/keypair? (Y/[N]) invalidate

The SSL/SSH certificate/keypair data is being invalidated. Please wait...

```
[mphost] MP:CM>
```

The CC command from the MP's CM prompt allows an administrator to delete references to the complex profile defined in NVRAM and create in its place a default or "genesis" profile. The power to the cells needs to be on, and the cells must be in the "reset for reconfiguration" state when performing this operation. The RR command must be executed for each partition.

```
[mphost] MP:CM> rr
```

This command resets for reconfiguration the selected partition.

WARNING: Execution of this command irrecoverably halts all system processing and I/O activity and restarts the selected partition in a way that it can be reconfigured.

```
Part# Name
```

```
-----
```

```
Partition 0
```

```
Select a partition number: 0
```

```
Do you want to reset for reconfiguration partition number 0? (Y/[N]) y
```

```
->The selected partition will be reset for reconfiguration.
```

```
[mphost] MP:CM> cc
```

This command allows you to change the complex profile.

WARNING: You must either shut down the OSs for reconfiguration or execute the RR (reset for reconfiguration) command for all partitions before executing this command.

```
G - Build Genesis complex profile
```

```
L - Restore Last complex profile
```

```
Select profile to build or restore: g
```

The genesis complex profile creates one single cell partition.

WARNING: The genesis complex profile automatically ENABLES partition reconfiguration. This allows partitions to issue platform reconfiguration commands that could affect other partitions.

Use the PARPERM command to disable partition reconfiguration.

Choose the cell to use.

Enter cell number: 1

Do you want to modify the complex profile? (Y/[N]) y

-> The complex profile will be modified.

[mphost] MP:CM>

The DC command from the MP's CM prompt allows an administrator to default settings relating to the configuration of the LAN, Modem, Serial port, and some security features. This command allows the administrator to clear all entries from the Event and Console logs. Any defined User accounts can also be eliminated by this command, leaving only the default MP login account.

[mphost] MP:CM> dc

This command allows you to reset parameters to their default settings.

Parameter	Current Configuration	Default Configuration
MANAGEMENT PROCESSOR:		
Command Timeout	3	3
ASYNCHRONOUS:		
Baud Rate	9600	9600
Flow Control	Software(xon/xoff)	Software(xon/xoff)
MP SECURITY:		
Login TimeOut	1	1
Login Retries	3	3
Flow Control Timeout	5	5
LAN:		
LAN IP Address	192.168.1.1	192.168.1.1
LAN Host Name	mphost	mp
LAN Subnet Mask	255.255.248.0	255.255.255.0
LAN Gateway	192.168.1.1	192.168.1.1
LAN Data Rate	100Mb	10Mb
MANUFACTURING:		
Manufacturing Mode	DISABLED	DISABLED
MODEM:		
Modem Enable	DISABLED	DISABLED
Modem Protocol	CCITT	CCITT
Modem Baud Rate	9600	9600
Flow Control	Software(xon/xoff)	Software(xon/xoff)

Do you wish to reset ALL parameters to their defaults? (Y/[N]) y

->Parameters have been updated.

[mphost] MP:CM>

Hard Disk Drives

The server may contain hard disk drives that retain data after the server is powered off. If present, remove the disk drives from the server. Data should be removed from the drives using your locally approved methods.

If any further assistance is required, please contact the HP Customer Support Center at 1-800-633-3600.

Regards,

Hewlett-Packard Company

Part Number: AB312-9007A

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