



Errata Sheet for HP OpenVMS Support of HP Integrity BL860c Server Blade

Required Patches and Installation Steps for HP OpenVMS Version 8.3 on the HP Integrity BL860c Server Blade

Introduction

This document identifies important information that is required for HP OpenVMS support on the HP Integrity BL860c Server Blade. Read this document before booting your system.

OpenVMS Version 8.3 plus the patch kits listed in the next section provide support for the following features:

- Server Blade System (all processor speeds)
- C7000 enclosure and HP Onboard Administrator
- Three PCI-e mezzanine I/O slots plus core I/O

HP intends to introduce other features (such as provisioning, WBEM providers, USB DVD, and vMedia) as part of the next version of OpenVMS.

Required Patches for OpenVMS

You must install HP OpenVMS Version 8.3 before installing any of the patches.

The following patches or later are needed for OpenVMS support of the BL860c Server Blade. Read the release notes supplied with each patch kit on installation.

- *VMS83I_UPDATE-V0200 or later*
- *VMS83I_SYS-V0200 or later*
- *VMS83I_LMF-V0200 or later*
- *VMS83I_FIBRE_SCSI-V0400 or later*
- *VMS83I_LAN-V0500 or later*
- *VMS83I_BLADE_V0100 or later*

Refer to the following website to download the current patches.

<http://www.itrc.hp.com/service/patch/mainPage.do>

Release Notes

- This release of OpenVMS does not support USB DVD on the HP Integrity BL860c Server Blade.
- The OpenVMS Version 8.3 support for the HP Integrity BL860c Server Blade was tested with the following firmware versions. The following table lists the recommended firmware:

System	System Firmware	BMC Firmware	MP Firmware	PDH Firmware	UCIO Firmware	PRS Firmware	OA
BL860c	01.01	05.03	T.01.22	50.04	03.0b	00.08	1.30

- If you plan on using Systems Insight Manager, refer to the following Web site to download the latest Management Agents patch V3.4-2:

http://h71000.www7.hp.com/openvms/products/mgmt_agents/index.html

How to Install HP OpenVMS Version 8.3 on Your HP Integrity BL860c Server Blade

This document explains how to install OpenVMS Version 8.3 on an HP Integrity BL860c Server Blade.

Prerequisites

To install OpenVMS Version 8.3 for Integrity servers (I64) on your Integrity BL860c Server Blade, you need:

- A non-production OpenVMS for Integrity servers (I64) system running OpenVMS I64 Version 8.2-1 or later that includes a spare, initialized disk. This system will be used as the boot server and must be configured with enough memory and suitable system parameter settings to allow such utilities as ESS\$LAD_STARTUP, BOOTP, and TFTP to run successfully. It will be unavailable to users for the time required to perform steps preparing for the installation of OpenVMS I64 on your Integrity BL860c Server Blade. The spare disk will be set up as an InfoServer service drive; it will be booted remotely to install OpenVMS I64 on your Integrity BL860c Server Blade.
- OpenVMS Version 8.3 for Integrity servers Operating Environment (OE) DVD, part number 5013-6799. The OE DVD will be used on the boot server. The system's DVD reader may be either an IDE DVD (such as DQA0) or a USB DVD (such as DNA0).
- The following patch kits, available from the ITRC Web site www.itrc.hp.com or the ITRC FTP site <ftp://itrc.hp.com> (see step 3 in the section “Installing OpenVMS on Your Integrity BL860c Server Blade”). Note that update patch kit VMS83I_UPDATE-V0200 must be installed before any of the other kits.
 - VMS83I_UPDATE-V0200
 - VMS83I_SYS-V0200
 - VMS83I_LMF-V0200
 - VMS83I_FIBRE_SCSI-V0400
 - VMS83I_LAN-V0500
 - VMS83I_BLADE-V0100

IMPORTANT: All the listed patch kits must be installed as instructed in the following section.

- *HP OpenVMS Version 8.3 Upgrade and Installation Manual*, part number BA322-90045 and available at the following Web site:

Installing OpenVMS on Your Integrity BL860c Server Blade

1. Download the required patch kits (listed in the section “Prerequisites”) from the ITRC Web site www.itrc.hp.com or the ITRC FTP site [ftp.itrc.hp.com](ftp://itrc.hp.com) to a directory on your boot server (for example, \$1\$DGA2831:[PATCHES]); follow steps 1 through 12 in the instructions for downloading patches provided in Section 7.14 of the *HP OpenVMS Version 8.3 Upgrade and Installation Manual*.
2. Back up the OpenVMS for Integrity servers OE DVD to the spare disk on your boot server; the following example lists the commands for mounting drives and backing up the OE DVD (DNA0:) to the spare disk (DKB0:):

```
$ MOUNT/FOREIGN DKB0 :
$ MOUNT/OVERRIDE=IDENTIFICATION DNA0 :
$ BACKUP/IMAGE/VERIFY DNA0 : DKB0 :
$ DISMOUNT DKB0 :
$ MOUNT/OVERRIDE=IDENTIFICATION DKB0 :
$ SET VOLUME DKB0 : /LABEL=I64083B
$ DISMOUNT DKB0 :
```

3. Install the OpenVMS V8.3 patch kits on your spare disk by following these steps:
 - A. Shut down the boot server and then boot the OpenVMS for Integrity servers OE DVD (for instructions, see Section 3.2.2 of the *OpenVMS Upgrade and Installation Manual*).
 - B. Select option 7 from the OpenVMS operating system menu, as shown:

Please choose one of the following:

- 1) Upgrade, install or reconfigure OpenVMS I64 Version V8.3
- 2) Display layered products that this procedure can install
- 3) Install or upgrade layered products
- 4) Show installed products
- 5) Reconfigure installed products
- 6) Remove installed products
- 7) Find, Install or Undo patches; Show or Delete Recovery Data
- 8) Execute DCL commands and procedures
- 9) Shut down this system

Enter CHOICE or ? for help: (1/2/3/4/5/6/7/8/9/?) 7

C. From the submenu, select option 1, as shown:

This procedure can perform one of the following operations:

- 1) Install one or more patches
- 2) Undo recent patches for which there is recovery data
- 3) Show recovery data
- 4) Delete recovery data
- 5) Find patch kits

Enter CHOICE or X to return to main men: (1/2/3/4/5/X) 1

D. When prompted for the target disk, enter the device name of your spare disk; for example:

Enter device name for target disk: (? for choices) DKB0:

E. When prompted for the location of the patch kits, enter the location to where you downloaded the patch kits in step 1; for example:

Enter additional location, D, or just press Return:
\$1\$DGA2831: [PATCHES]

F. The procedure lists the patch kits you can install. Enter the menu item number of the update patch kit only (VMS83I_UPDATE-V0200) and respond to prompts as appropriate, continuing until you are returned to the submenu shown in step C.

G. Select option 1 (“Install one or more patches”) from the submenu and install all the other required patch kits listed in the section “Prerequisites.”

H. When all patches are installed and the submenu is displayed, enter X to return to the main menu.

I. At the main menu, select option 9 to shut down the system.

J. Reboot your boot server from its original system disk.

The following step dedicates an entire disk for use as the installation device. If this is not convenient (for example, you are installing multiple Server Blades), skip to the section “Optional Alternative,” which explains how to copy the disk to an LD device (virtual drive).

4. Enable the InfoServer utility on the boot server and create a service for the spare disk device, following the instructions provided in Section C.3 of the OpenVMS Upgrade and Installation Manual and observing the options provided in the following note.

NOTE: To allow this system to be used as an InfoServer just while installing OpenVMS on a Server Blade, you can use the following commands to accomplish the equivalent of steps 1 to 6 in Section C.3, including limiting the InfoServer to a single network device. Substitute the appropriate device for “EWA” in these commands.

```
$ COPY SYS$STARTUP:ESS$LAD_STARTUP.TEMPLATE -
_$ SYS$STARTUP:ESS$LAD_STARTUP.DAT
$ COPY SYS$STARTUP:ESS$LAST_STARTUP.TEMPLATE -
_$ SYS$STARTUP:ESS$LAST_STARTUP.DAT
$ DEFINE/SYSTEM/EXECUTIVE_MODE LAST$DEVICE EWA
$ @SYS$STARTUP:ESS$LAD_STARTUP
```

When you get to step 7 in Section C.3 of the OpenVMS Upgrade and Installation Manual, use the following commands to create a service (I64083B) for the spare disk (DKB0:):

```
$ MOUNT/SYSTEM/NOWRITE DKB0: I64083B
$ INFOSERVER ::= $ESS$INFOSERVER
$ INFOSERVER
INFOSERVER> CREATE SERVICE I64083B DKB0:
INFOSERVER> EXIT
```

5. Set up the OpenVMS BOOTP and TFTP servers as instructed in Section C.4 of the OpenVMS Upgrade and Installation Manual.

NOTE:

- Verify that the BOOTP and TFTP servers are configured and started by using the HP TCP/IP Services for OpenVMS SYS\$MANAGER:TCPIP\$CONFIG.COM configuration procedure. From the Main Configuration menu, select option 3 (“Server components”). If a BOOTP or TFTP service is not enabled and started, select the appropriate server option and then enable and start the service accordingly. For more information, see the HP TCP/IP Services for OpenVMS documentation available at the following Web site:
<http://h71000.www7.hp.com/doc/tcpip56.html>
- The VMS_LOADER.EXE and IPB.EXE files are located in [SYS0.SYSCOMMON.SYSEXE], not [SYSEXE]; they must be copied from the patched copy of the DVD on the spare disk of your boot server (step 3 and Example C-1 of the OpenVMS Upgrade and Installation Manual). Using our example, the COPY commands in Example C-1 would be:

```
$ COPY DKB0:[SYS0.SYSCOMMON.SYSEXE]VMS_LOADER.EFI TCPIP$TFTP_ROOT:[V83]*
$ COPY DKB0:[SYS0.SYSCOMMON.SYSEXE]IPB.EXE TCPIP$TFTP_ROOT:[V83]*
```

- The file name in the /FILE qualifier of the TCPIP SET BOOTP command is [V83]VMS_LOADER.EFI (step 6 and Example C-1).
- Do not include the /FULL qualifier with the TCPIP SHOW HOST command (Example C-1).
- Display the BOOTP server information with the TCPIP SHOW BOOTP /FULL command (Example C-1).

6. Access EFI on your Integrity BL860c Server Blade and select the boot option associated with the InfoServer service (I64083B) created in step 4. For instructions on booting from the InfoServer, see Section C.5 of the OpenVMS Upgrade and Installation Manual.

NOTE: If you have not previously added to the EFI Boot Manager options list a boot option for network (InfoServer) booting, perform the following steps instead of Steps 2a through 2c of Section C.5:

- A. Choose “EFI Shell [Built-in]”
 - B. At the Shell> prompt, enter “lanboot select”
 - C. When prompted, enter the number for the LAN device having the MAC address specified when configuring BOOTP.
7. Install OpenVMS, following the installation instructions provided in Section 3.3 of the OpenVMS Upgrade and Installation Manual.

Optional Alternative

It may not be convenient to dedicate an entire disk for use as the installation device, especially if you are installing multiple Integrity BL860c Server Blades. Instead, you can copy the disk to an LD device (virtual drive).

The following example shows the commands for establishing an LD device LDA1: and backing up your DKB0: system image. For more information, see the *HP OpenVMS System Manager's Manual, Volume 1: Essentials* and the *HP OpenVMS System Management Utilities Reference Manual: A-L*.

Use these commands immediately before step 4:

```
$ @SYS$STARTUP:LD$STARTUP
$ LD CREATE I64083B.DSK /SIZE=6000000
$ LD CONNECT I64083B.DSK
$ MOUNT/FOREIGN/NOASSIST LDA1:
$ MOUNT/OVERRIDE=IDENTIFICATION DKB0:
$ BACKUP/IMAGE/NOALIAS/VERIFY DKB0: LDA1:
$ DISMOUNT LDA1:
$ DISMOUNT DKB0:
```

After setting up the virtual drive, you should continue with step 4, replacing “DKB0:” with “LDA1:” as follows:

```
$ COPY SYS$STARTUP:ESS$LAD_STARTUP.TEMPLATE -
_ $SYS$STARTUP:ESS$LAD_STARTUP.DAT
$ COPY SYS$STARTUP:ESS$LAST_STARTUP.TEMPLATE -
_ $SYS$STARTUP:ESS$LAST_STARTUP.DAT
$ DEFINE/SYSTEM/EXECUTIVE_MODE LAST$DEVICE EWA
$ @SYS$STARTUP:ESS$LAD_STARTUP
$ MOUNT/SYSTEM/NOWRITE LDA1: I64083B
$ INFOSERVER ::= $ESS$INFOSERVER
$ INFOSERVER
INFOSERVER> CREATE SERVICE I64083B LDA1:
INFOSERVER> EXIT
```

After entering these commands, continue with steps 5 through 7.

If you plan to install OpenVMS on additional Server Blades, you can use the InfoServer SAVE command to create a command procedure that recreates the virtual device and serves it to the network.