

**BladeSymphony**

# **BladeSymphony 320 Upgrade Guide For HVM Advanced Model**

MK-99BDS320046-01

**HITACHI**

Read this manual well and keep it near the system so that you can refer to it as needed.

Before starting operation, familiarize yourself with the safety instructions.

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## Important Notes

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# 1

## Before Start Upgrade

This chapter provides information you should know before upgrading Hitachi Virtualization Manager (HVM) to HVM Advanced Model.

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### 1.1 Necessary Devices

You need the following peripheral devices to upgrade HVM:

- DVD-ROM drive
- HVM Utility CD
- CD-R

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### 1.2 HVM Advanced Model Support Service

In order to upgrade your purchased copy of HVM Essential Model to HVM Advanced Model, you must enter into BladeSymphony 320 HVM Support and License Agreement. Contact your dealer for details.

# 2

## Upgrading Procedure

This chapter describes procedure for upgrade between HVM models, specifically from HVM Essential Model to HVM Advanced Model.

### 2.1 Obtaining HVM Utility CD

Obtain HVM Utility CD from your dealer. Upon receipt, ensure that the HVM Utility CD is applicable to your HVM firmware for upgrading, according to the table below.

If you do not have the right version of HVM Utility CD for upgrading, obtain appropriate HVM Utility CD in ISO image format (either data or actual CD) from your dealer.

HVM firmware version	Application of HVM Utility CD versions to HVM firmware
	2.2.1E or later
17-XX	Applicable

Note: Please use HVM Utility CD version 2.2.1E or later when reading HVM License Key with HVM License Key CD.

### 2.2 Creating HVM Utility CD

If you obtained HVM Utility CD image data from your dealer, write the data onto a CD-R in ISO image format according to the table below.

CD title	File name
HVM Utility CD	HVM_Utility_CD_X.Y.Z.iso

X.Y.Z: HVM Utility CD version

## 2.3 Obtaining HVM License Key

HVM License Key is provided from your dealer in exchange for your notification of the blade serial number of the server blade subject to upgrade from HVM Essential Model to HVM Advanced Model. You can confirm the blade serial number by executing DF command to the management module as shown below. The screen image may partially differ depending on the firmware version of the management module.

```
SVP>DF [Enter]

<<Display FRU- Display FRU information>>

----- Chassis information -----
Chassis Type       : 10h (HBX19)
Chassis ID        : 4602RF0 00449
Chassis Serial No. : 4602RF0 00449

Total mass : 68.80 kg

----- Server Module information -----
# Product Name      | Product PartModel | Product Version | Product Manufac
                    | Product Serial Number
                    | Board Product Name | Board Serial No. | Mod.TP 2 | Power
-----
0 BladeSymphony F51 | GGAC51P4-PNNN14X | 0000F51900     | HITACHI
                    | 4600C40_T936000015 | ← Confirm blade serial number
                    | 7TPBV              | 1D7EE830      | C8h      | 334W
1 BladeSymphony F51 | GG*C51P4-*NNN1** | 0000F51900     | HITACHI
                    | N/A                |                |          |
                    | 7TPBV              | 1DC3F978      | C8h      | 105W

:
: (Subsequent display omitted)
```

Upon confirming the blade serial number, tell that number to your dealer and obtain the corresponding HVM License Key in ISO image format (either data or actual CD) or text data.



Please obtain the License Key by ISO image format if you use License Key easy-reading function with HVM License Key CD.  
Note that the easy-reading function is available for HVM Utility CD version 2.2.1E or later.  
Print the HVM License Key onto paper when you obtained the License Key by text data for later reference.

## 2.4 Creating HVM License Key CD

If you obtained HVM License Key by ISO image format data in Section 2.3 above, write the data onto a CD-R in ISO image format according to the table below.

Item	File name
HVM License Key	SSSSSSSSSSSHVMYYYYMMDD.iso

SSSSSSSSSSSS: Service ID

YYYYMMDD: Year/Month/Date

Or use the HVM License Key included CD-R that you have got from your dealer.

---

## 2.5 Preconditions

Prior to main part of HVM Advanced Model upgrade, perform the following actions:

1. If the subject server blade had been used HVM mode, deactivate all LPARs according to "Shutdown Guest OS and Deactivate LPAR" in *BladeSymphony 320 User's Guide*.
2. Shut down the subject server blade according to "Quit HVM" in *BladeSymphony 320 User's Guide*.
3. Set the OS mode to HVM mode according to "Configuring the HVM Mode" in *BladeSymphony 320 User's Guide*.
4. Set BIOS of the server blade according to "BIOS Settings" in *BladeSymphony 320 User's Guide*.



## 2.6 Performing HVM Advanced Model Upgrade

To perform the main part of HVM Advanced Model upgrade, follow the steps below. The screen images may partially differ depending on the HVM Maintenance Tool version.

1. Connect a USB DVD-ROM drive to the front panel USB port of the subject server blade. Set HVM Utility CD in the DVD-ROM drive. Ensure that the HVM Utility CD version is applicable to your HVM firmware. For details, see Section 2.1 and Section 2.2.



**Remote DVD function of remote console is not available for this procedure. Make sure to connect a USB DVD-ROM drive to the front panel USB port.**

2. Turn on power of the subject server blade. With HVM Utility CD set in the DVD-ROM drive connected to the server blade, activation of HVM caused by this power-on automatically starts HVM Maintenance Tool.
3. In “HVM Maintenance Tool” window opened, select the operation of “3. HVM Model Upgrade” as illustrated below.

```
<< HVM Maintenance Tool(Version X.X) >>
---- HVM Firmware Information ----
Bank#  Version      Select
  0     VV-RR(TT-KK)  Active
  1     VV-RR(TT-KK)  Alternate
---- HVM License Information ----
HVM License      [Essential]

---- Menu ----
1. Update HVM Firmware
2. Change HVM F/W Active Bank
3. HVM Model Upgrade
4. Show Verup License Key
5. Recover HVM Configuration
Q. Quit and Reboot
Select : 3 [Enter] ←———— Enter “3” to select HVM Model
```

4. A prompt for entering HVM License Key appears as shown below.

### **Option 1: Method with HVM License Key CD (For HVM Utility CD 2.2.1E or later)**

- a. Press the Enter key in blank.

```
<< HVM Model Upgrade >>
Enter HVM Enable License Key : [Enter]
```

- b. Change the CD in DVD-ROM drive to HVM License Key CD which created in Section 2.4 and press Enter key.

```
Exchange for CD with Enable License Key.
Ready?[y] : [Enter]
```

- c. Change the CD in DVD-ROM drive to HVM Utility CD and press Enter key.

```
Exchange for CD with HVM MaintenanceTool.
Ready?[y] : [Enter]
```

**Option 2: Method without HVM License Key CD**

- a. Referring to the hardcopy which obtained in Section 2.3, enter the HVM License Key excluding spaces.

```
<< HVM Model Upgrade >>
Enter HVM Enable License Key : XXXXXXXXX [Enter]
```

5. Statuses of HVM License before and after entering the License Key appear as shown below, followed by a confirmation prompt. Enter “Y” in the prompted confirmation field. (Entering “N” reverts the screen display back to Step 3.)

```
<Before>
HVM License [Essential]

<After>
HVM License [Advanced]

Confirm? (Y/[N]) : Y ← Enter “Y” to continue
```

6. If successful, the completion code “0000” in brackets followed by a completion message appears as shown below. Press the Enter key to continue.

```
[0000] HVM Model Upgrade is successfully finished.
*** HIT ENTER KEY ***
```

Should any other completion code followed by an error message appear, take actions according to the table below.

Completion code	Meaning	Action
0001	HVM License Key authentication failed.	Obtain HVM License Key from your dealer and create HVM License Key CD again. Retry the operation in “HVM Maintenance Tool” window. If the error persists with several retries, contact your dealer.
0002	HVM License Key may be wrong.	Obtain HVM License Key from your dealer again and retry the operation in “HVM Maintenance Tool” window. If the error persists with several retries, contact your dealer.
FFFF	HVM Model Upgrade operation failed.	Contact your dealer.

7. Ensure that the HVM License status in the resulting display is changed to “Advanced” as shown below. Enter “Q” to select the operation of “Q. Quit and Reboot” for quitting HVM Maintenance Tool.

```
<< HVM Maintenance Tool(Version X.X) >>
---- HVM Firmware Information ----
Bank#  Version      Select
  0     VV-RR(TT-KK)  Active
  1     VV-RR(TT-KK)  Alternate
---- HVM License Information ----
HVM License  [Advanced]  ← Confirm HVM License status changed to

---- Menu ----
1. Update HVM Firmware
2. Change HVM F/W Active Bank
3. HVM Model Upgrade
4. Show Verup License Key
5. Recover HVM Configuration
Q. Quit and Reboot
Select : Q ← Enter “Q” to quit HVM Maintenance
```

8. A confirmation prompt for quitting HVM Maintenance Tool appears as shown below. Eject the HVM Utility CD from the DVD-ROM drive and disconnect the DVD-ROM drive from the front panel USB port of the subject server blade. When ready, type “Y” at the “Quit HVM Maintenance Tool? (Y/[N])” prompt and press [Enter] for rebooting the server blade. (Entering “N” reverts the screen display back to Step 3.)

```
<< Quit and Reboot >>
Quit HVM Maintenance Tool? (Y/[N]) : Y ← Enter “Y”
```

# 3

## Updating HVM License

This chapter describes procedure for updating the expired HVM License.

Updating HVM License Key has the same procedure as upgrade HVM model to Advanced model.

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### 3.1 Obtaining HVM Utility CD

Obtain HVM Utility CD from your dealer. For details, please refer to section 2.1.

---

### 3.2 Creating HVM Utility CD

If you obtained HVM Utility CD image data from your dealer, write the data onto a CD-R in ISO image format referring to section 2.2.

---

### 3.3 Obtaining HVM License Key

Obtain New HVM License Key from your dealer in exchange for your notification of the blade serial number of the server blade.  
For details, please refer to section 2.3.

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### 3.4 Creating HVM License Key CD

If you obtained HVM License Key by ISO image format data in Section 3.3 above, write the data onto a CD-R in ISO image format referring to section 2.4.

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### 3.5 Preconditions

Prior to update the HVM License key, perform the actions referring to section 2.5.

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### 3.6 Updating HVM License Key

To update the HVM License Key, follow the steps referring to section 2.6.