

**[ Confidential ]**

Sony Corporation

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# Technical Memo

Class [3]

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**Subject: MVS/DVS series software installation procedure**

&lt;&lt; Revised Point(s) &gt;&gt;

Addition of models, MVS-8000X and MVS-7000X.

Some change of the description are also included.

[Applicable Model ]

Model / Destination	Serial Number	Number of Unit
BKDS-9470 SYM		
DVS-9000 SYL		
DVS-9000SF SYL		
MKS-2700 SYL		
MKS-6470 SYM		
MKS-8010 SYL		
MKS-8010A SYL		
MKS-8010B SYL		
MKS-8700 SYL		
MKS-8800 SYL		
MKS-9011 SYL		
MKS-9011A SYL		
MKS-9012 SYL		
MKS-9012A SYL		
MVE-8000A SYL		
MVE-9000 SYL		
MVS-6000 SYL		
MVS-7000X SYL		
MVS-8000 SYL		
MVS-8000A SYL		
MVS-8000ASF SYL		
MVS-8000G SYL		
MVS-8000GSF SYL		
MVS-8000SF SYL		
MVS-8000X SYL		

**[Description]**

This Technical Memo is supplementary information that describes the procedures for the MVS/DVS series application software installation and for the FPGA version upgrade, which are not contained in the Technical Manuals. Read the procedures together with the Technical Memos that are issued for the respective versions.

**[Required Parts for Installation]**

1. Application software  
The application software of the model on which you want to install the software, is prerequisite.
2. The application software of each model is stored in the following locations.

=> Rev1: Addition of the models

MVS-8000X	/Application/SWR
MVS-7000X(*1)	
MVS-8000G/GSF	
MVS-8000A/ASF	
DVS-9000/SF	
MVS-6000	
MVS-8000/SF	
MVE-8000A/9000/8000/BKDS-9470/MKS-6470	/Application/DME
MKS-8010/8010A/8010B CCP-9011/9011A/9012/9012A	/Application/PNL
MKS-8010/8010A/8010B CCP-9011/9011A/9012/9012A	/Application/MENU

(\*1) MVS-7000X includes the software of MKS-7470X/7471X. (Rev1)

\* Download the application software from the specified Software Download Site.

The name of each application software is described below.

=> Rev1: Addition of the models

Software for MVS-8000X	Switcher software
Software for MVS-7000X	
Software for MVS-8000G/GSF	
Software for MVS-8000A/ASF	
Software for DVS-9000/SF	
Software for MVS-6000	
Software for MVS-8000/SF	
Software for MVE-8000A	DME software
Software for MVE-9000	
Software for BKDS-9470	
Software for MKS-6470	
Software for MVE-8000	
Software for MKS-8010/8010A/8010B CCP-9011/9011A/9012/9012A panel	Panel software
Software for MKS-8010/8010A/8010B CCP-9011/9011A/9012/9012A menu	Menu software

3. FPGA data

There are cases where the FPGA version is going to be upgraded.

The FPGA data is stored in the following locations:

=> Rev1: Addition of the models

FPGA data for MVS-8000X/7000X	/SWR_FPGA_X
FPGA data for MVS-8000G/GSF	/SWR_FPGA_G
FPGA data for MVS-8000A/ASF	/SWR_FPGA
FPGA data for MVS-6000	/SWR_FPGA_E

\* The FPGA data does not have a model name because it is not a separately-sold product.

\*\* Download the FPGA data from the specified Software Download Site.

### [Preparation before Installation]

#### 1. Confirming the Software Versions

Confirm the version numbers of the existing application software by following the steps described below:

- (1) Press the ENG SETUP > System > Install/Unit Config buttons in this order to open the Install/Unit Config menu (Page 7316).
- (2) Verify that versions of the software of the respective equipment have already been upgraded to the following versions or higher.

Device	Current Information
Menu	Version 5.21
PNL	Version 5.21
SWR	Version 5.21
DME	Version 5.21
DCU(MKS-8700)	Version 4.14
DCU(MKS-2700)	Version 4.14

Note:

- Menu/PNL/SWR/DME

If the version of the equipment has not been upgraded to V5.21 or higher, upgrade it to V5.21 first by referring to SWEM06-014R.

There can be cases where an error occurs during installation of the panel software. Therefore, take a required measure by referring to SWEM06-025.

- DCU

If the version is not upgraded yet to V4.14, upgrade the version by referring to SWEM09-014.

#### 2. Copying the application software and the FPGA data

Download the data from the specified FTP site, and copy the downloaded data to a memory card or to a USB storage device (hereafter referred to as “memory card”).

Some files are compressed. Copy them as they are without uncompressing.

If the entire data cannot be copied in a single memory card due to the limited size of the memory card, copy the software data and the FPGA data in separate memory cards. Replace the memory cards as required in the following procedure.

#### 3. Other Precautions

Different software are provided for the respective models. Select the software that corresponds to the correct model when installing the software.

~~Epecially, when the software for the MVS-8000G/GSF system, or the one for the MVS-8000A/ASF system or the one for the MVS-6000 is installed by mistake instead of the software for the DVS-9000/SF, a trouble such as “System does not start” will occur. Be very~~

~~careful not to make mistake in selecting the software.~~ Especially, when the software for different model is installed, a trouble such as “System does not start” will occur. Be very careful not to make mistake in selecting the software. (Rev.1)

Confirm that switch No. 8 of the DIP switch (S101) on the CA board of the applicable model is set to OFF.

For the name and location of the DIP switch on the CA board, refer to “SWEM10-003: MVS/DVS Series Procedure to initialize memory with dip switch”.

## [Installation Procedure]

Notes:

- Never turn off the power while the installation is in progress unless otherwise specified. Pay attention to it particularly when software installation is in progress. If the power is turned off during the installation, the equipment may not start up.
- There can be cases where the MVS does not start normally at the first re-start upon completion of installation. In this case, initialize the memory by referring to “SWEM10-003: MVS/DVS Series Procedure to initialize memory with dip switch”.

### 1. Saving the User Setup Data of the Switcher System

Save the user setup data of the switcher system by using the procedure described below.

- (1) Insert a memory card into the corresponding slot on the Control Panel.
- (2) Press the FILE button > All button, External File button in this order to display the “File” menu (Page 7161).
- (3) Select [Memory Card] as the destination device of save, and select [Setup] as the data to be saved.
- (4) Select the data such as [Snapshot] or [Effect] or [Initial Status] that you want to save, as required.
- (5) Press the [Save] button, and then press "Yes" in response to the message prompting your confirmation.
- (6) When saving is complete, remove the memory card.

- \* There can be a case where the memory card cannot be recognized, and an error is issued after the above step (4) is executed. In such a case, select ENG SETUP > System > Maintenance to open the Maintenance page. Then, press the [Refresh] button and select the recognized memory card. Finally, press the [Set Primary] button. Upon completion of the above steps, repeat the above steps starting from step (1). If there is a case where a flash memory card cannot be recognized in any procedures described below, try the above-described procedure whenever needed.

### 2. Saving the BZS-8050 Setup Data and the Initialize Data

When a user wants to use the BZS-8050 setups of the previous version even after installation, save the BZS-8050 setup data and the initialize data before starting the installation. However, the software before BZS-8050 V1.01 does not contain the function of saving the data. In such a case, take a note of the setup values, and set them again after installation.

The AUX > TC JUMP setting is not saved in BZS-8050 V3.00 or lower versions. In such a case, take a note of the setup values, and set them again after installation is complete.

- (1) If you want to save the data in any devices other than an HDD, insert a memory card into the corresponding slot on the Control Panel.
- (2) Press the keys in the order of: SETUP > F8: HNDL FILE > F3: SAVE (HDD) or F4: SAVE

(USB).

If you want to save the data in any devices other than an HDD, press F4: SAVE (USB) and then select a desired device on a screen, and press the ENTER key.

- (3) Then, a list of directories is displayed. Select a directory where you want to save the data, and press the ENTER key.

If the specified directory does not exist, or if you want to create a new directory and want to save the data in a new directory, press the F1: NEW DIR key and enter the name. Then press the ENTER key and select a created directory.

- (4) When a filename is entered and the ENTER key is pressed, the setup data are saved in the specified file. If you want to save the data by overwriting an existing file, select the desired file and press the ENTER key twice.
- (5) Press the keys in the order of INIT > F8: HNDL FILE > F3: SAVE (HDD) or F4: SAVE (USB). Save the initialize data in the same way by referring to the above steps (2), (3) and (4).

### 3. Installing the Menu and Panel Software, and Re-Setting the Network Configuration

- (1) Press the following buttons in the order shown: ENG SETUP > System > Start Up to open the Start Up menu (Page 7314).
- (2) Move the cursor to PNL and, press [Custom] of Start Up mode and press [Factory] of Setup, and then press [Factory] of Initial Status in this order.
- (3) Press the [Exec] button, and then press "Yes" in response to the message prompting your confirmation.

When the above operations are complete, set the Start Up Mode of Setup and that of Initial Status to "Factory".

- (4) Insert the compact flash memory card in which the application software has been copied, into the memory card adaptor.
- (5) Press the following buttons in the order shown: ENG SETUP > System > Install to open the Install menu (Page 7316).
- (6) Press the [Install] button to show the equipment list and list of software that can be installed. Then, select Menu from the equipment list.

Move the cursor to the software file that you want to install among the following software in accordance with the type of software that is the target of installation, and press the [Set] button to turn it ON.

- For MKS-8010/CCP-9000

Menu : MENU CPU (for upgrade from V1.30 or later)

PNL : MKS8010/CCP9000 PNL CTRL \*Full\*

- For MKS-8010A/CCP-9000A

Menu : MENU CPU MKS8010A (for full install)

PNL : MKS8010A/CCP9000A PNL CTRL \*Full\*

- For MKS-8010B/CCP-6224/6324

Menu : MENU CPU MKS8010A (for full install)

PNL : MKS8010B PNL CTRL \*Full\*

- (7) Press the [Exec] button, and then press "Yes" in response to the message prompting your confirmation.
- (8) Installation begins. If the message indicating completion of file transfer appears, press "OK".
- (9) Press the Menu number indicating block at the top left of the menu screen. Then the Menu number entry pop-up screen appears.

- (10) Enter “9999” to display the Engineering Menu.
- (11) Press the [Reboot Panel] button to reboot the control panel.

※ There can be cases where an error occurs even though it occurs very rarely, during installation of the Panel application. In such a case, re-boot the Panel in the procedure described below, and re-install the software.

- (1) Press the following buttons in the order shown: ENG SETUP > System > Initialize to display the Initialize menu (Page 7315).
- (2) Select PNL and press the [All Clear] button.
- (3) Press the [Execute] button, and then press "Yes" for the message prompting your confirmation.

※ When installation of the required software is complete, continue to execute the following operations.

- (1) When the menu is displayed again, press the following buttons in the order shown: ENG SETUP > System > Network Config to open the Network Config menu (Page 7311).
- (2) Press the [Auto Config] button, and then "Yes" in response to a confirmation message.
- (3) Confirm that all of the equipment that are connected in this system are displayed on the menu. Then press the [Define] button.
- (4) When a message prompting your confirmation appears, press “Yes”.

#### 4. Installing the Switcher Software

- (1) Press the following buttons in the order shown: ENG SETUP > System > Start Up to open the Start Up menu (Page 7314).
- (2) Move the cursor to SWR and, press [Custom] of Start Up Mode and press [Factory] of Setup, and then press [Factory] of Initial Status in this order.
- (3) Press the [Exec] button, and then press "Yes" in response to the message prompting your confirmation.

When the above operations are complete, set the Start Up mode of Setup and that of Initial Status to “Factory”.

- (4) Insert the compact flash memory card in which the application software has been copied, into the memory card adaptor.
- (5) Press the following buttons in the order shown: ENG SETUP > System > Install to open the Install menu (Page 7316).
- (6) Press the [Install] button to show the equipment list and list of software that can be installed. Then, select SWR from the equipment list.
- (7) Move the cursor to the software file that you want to install among the following software in accordance with the type of software that is the target of installation, and press the [Set] button to turn it on.

(The displayed list does not necessarily contain all models because the installable software are filtered before display after identifying the switcher models.)

- For MVS-8000X : MVS8000X Proc. [version number] (Rev.1)
- For MVS-7000X : MVS7000X Proc. [version number] (Rev.1)
- For MVS-8000G : MVS8000G Proc. [version number]
- For MVS-8000GSF : MVS8000GSF Proc. [version number]
- For MVS-8000A : MVS8000A Proc. [version number]
- For MVS-8000ASF : MVS-8000ASF Proc. [version number]
- For DVS-9000 : DVS9000 Proc. [version number]
- For DVS-9000SF : DVS-9000SF Proc. [version number]
- For MVS-6000 : MVS6000 Proc. [version number]

- For MVS-8000 : MVS8000 Proc. [version number]
- For MVS-8000SF : MVS-8000SF Proc. [version number]

- (8) Press the [Exec] button, and then press "Yes" in response to the message prompting your confirmation.
- (9) Installation begins. If the message indicating completion of file transfer appears, press "OK". When installation of the software is complete, reboot the system.
- (10) Turn off the power of MVS and perform the following check.  
Confirm that the DIP switch setting of the CPU-DT module on the CA board is set to the factory default setting (i.e., all switches are set to the OFF position).
- (11) Turn off the power of the MVS once and turn it back on to reboot the MVS.

## 5. Installing DME Software

- (1) Press the following buttons in the order shown: ENG SETUP > System > Start Up to open the Start Up menu (Page 7314).
- (2) Move the cursor to DME and, press [Custom] of Start Up mode and press [Factory] of Setup, and then press [Factory] of Initial Status in this order.
- (3) Press the [Exec] button, and then press "Yes" in response to the message prompting your confirmation.  
When the above operations are complete, set the Start Up mode of Setup and that of Initial Status to "Factory".
- (4) Insert the compact flash memory card in which the application software has been copied, into the memory card adaptor.
- (5) Press the following buttons in the order shown: ENG SETUP > System > Install to open the Install menu (Page 7316).
- (6) Press the [Install] button to show the equipment list, and list of software that can be installed. Then, select DME from the equipment list.
- (7) Move the cursor to the software file that you want to install among the following software in accordance with the type of software that is the target of installation, and press the [Set] button to turn it on.  
Press the [Exec] button, and then press "Yes" in response to the message prompting your confirmation.

- For MVE-8000A : MVE8000A [version number]
- For MVE-9000 : MVE-9000 [version number]
- For BKDS-9470 : BKDS-9470 [version number]
- For MKS-6470 : MKS-6470 [version number]
- For MVE-8000 : MVE-8000 [version number]

- (8) Installation begins. If the message indicating completion of file transfer appears, press "OK".
- (9) Turn off the power of the MVE once and turn it back on to re-start the MVE. (In the case of the BKDS-9470, turn off the power of the DVS-9000 once and turn it back on to re-start the DVS-9000.) In the case of the BKDS-6470, turn off the power of the DVS-6000 once and turn it back on to re-start the DVS-6000. )

## 6. Installing the DCU Software

If two units of the DCU are connected, install the DCU software in the order starting from DCU1, then DCU2.

- (1) Insert the compact flash memory card in which the application software has been copied,

into the memory card adaptor.

- (2) Press the following buttons in the order shown: ENG SETUP > System > Install to open the Install menu (Page 7316).
- (3) Press the [Install] button to show the equipment list and list of software that can be installed. Then, select DCU1 (or DCU2 when the DCU software is going to be installed in DCU2) from the equipment list.
- (4) Move the cursor to the line on which the MKS-8700 is displayed, and press the [Set] button to ON.
- (5) Press the [Exec] button, and then press "Yes" in response to the message prompting your confirmation.
- (6) Installation begins. If the message indicating completion of file transfer appears, press "OK".
- (7) Turn off the power of the DCU once and turn back on to re-start the DCU.

## 7. Installation of the FPGA Data

- (1) Insert a memory card in which the FPGA data is copied, into the memory card adaptor.
- (2) Press the following buttons in the order shown: ENG SETUP > System > Install to open the Install menu (Page 7316).
- (3) Press the [Install] button to show the equipment list and list of software that can be installed. Then, select SWR from the equipment list.
- (4) Move the cursor to the FPGA data file that you want to install among the following software in accordance with the type of the FPGA data that is the target of installation, and press the [Set] button to turn it on.

(The displayed list does not necessarily contain all models because the installable software are filtered before display after identifying the switcher models.)

\* For the method of selecting Full / Upgrade, refer to the respective Technical Memos.

### ■ For FPGA data: Full

- MVS-8000X : MVS8000X-FPGA Full (Rev.1)
- MVS-7000X : MVS7000X-FPGA Full (Rev.1)
- MVS-8000G : MVS8000G-FPGA Full
- MVS-8000GSF : MVS8000GSF-FPGA Full
- MVS-8000A : MVS8000A-FPGA Full
- MVS-8000ASF : MVS8000ASF-FPGA Full
- MVS-6000 : MVS6000-FPGA Full

### ■ For FPGA data: Upgrade

- MVS-8000G : MVS8000G-FPGA (for upgrade)
- MVS-8000GSF : MVS8000GSF-FPGA (for upgrade)
- MVS-8000A : MVS8000A-FPGA Upgrade
- MVS-8000ASF : MVS8000ASF-FPGA Upgrade
- MVS-6000 : MVS6000-FPGA Upgrade

- (5) Press the [Exec] button, and then "Yes" in reply to the message prompting your confirmation.
- (6) Installation begins. If the message indicating completion of file transfer appears, press "OK". When installation of the software is complete, reboot the system.
- (7) Turn off the power of the MVS once and back on again to re-start the MVS.

## 8. Clearing Memory and Rebooting

- (1) Press the following buttons in the order shown: ENG SETUP > System > Initialize to display the Initialize menu (Page 7315).

- (2) Select PNL and press the [All Clear] button.
- (3) Press the [All Clear] button in SWR and DME in the same way.
- (4) Press the [Execute] button, and then press "Yes" for the message prompting your confirmation.

#### 9. Initializing the Flash Memory

- (1) Press the following buttons in the order shown: ENG SETUP > System > Start Up to open the Start Up menu (Page 7314).
- (2) Move the cursor to PNL and press the [Setup Define] button. When the message prompting your confirmation appears, press "Yes".
- (3) Press the [Initial Status Define] button, and then "Yes" in response to the message prompting your confirmation.
- (4) Execute [Setup Define] and [Initial Status Define] in SWR and DME in the same way.

### [Confirmation / Adjustment upon Completion of Installation]

#### 1. Version Check

If the version specified by each Technical Memo is not installed, operations are not guaranteed. Confirm version numbers of the installed software in order to verify that the installations are executed successfully as follows.

- (1) Press the ENG SETUP > System > Install/Unit Config buttons in this order to open the Install menu (Page 7316).
- (2) Check that the version number of the installed software is displayed.
  - ※ The version numbers that are displayed by selecting ENG SETUP > System > Install/Unit Config > Install menu are those of the application software of each equipment.

If the version number of the installed software is displayed, it indicates that the installation has ended with success. However for your confirmation, check the detailed information of each software that is installed in each equipment using the procedure shown below.
- (3) Move the cursor to Menu that is displayed on the upper list of the status area, and press the [Detail Information] button.
 

For checking the displayed contents, refer to [DetailInfo.txt] that is supplied with Technical Memo.

Check the detailed information of the installed software in PNL, SWR, DME and DCU in the same way.

#### 2. Loading the User Setup Data of the Switcher System and Write It in Flash Memory

- (1) Insert the flash memory card in which the User Setup Data is copied in step 1 of [Installation Procedure], into the memory card slot of the Control Panel.
- (2) Press the FILE button > All button, External File button in this order to display the "File" menu (Page 7161).
- (3) Select [Memory Card] as the Device in which data is saved, and select [Setup] and [Initial Status] as the data to be loaded. If there are other data that have been saved before, press the corresponding buttons and select them.
- (4) Press the [Load] button and then press "Yes" in response to the message prompting your confirmation.
- (5) When loading is complete, remove the memory card.
  - => The Initial Status data is written in a flash memory in this step.
- (6) Press the ENG SETUP > System > Start Up buttons in this order to open the Start Up menu (Page 7314).

- (7) Move the cursor to PNL that is displayed on the upper list of the status area, and press the [Setup Define] button. When the message prompting your confirmation appears, press “Yes”.
- (8) Execute [Setup Define] in both of SWR and DME in the same way.

### 3. Loading the Setup Data and Initialize Data of BZS-8050

- (1) When data was saved in a memory card in step 2 of [Installation Procedure], insert the memory card into the slot of the Control Panel.
- (2) Press the keys in the order starting from SETUP > F8: HNDL FILE > F1: LOAD (HDD) or F2: Load (USB).  
If you have saved the data in any devices other than an HDD, press F2: LOAD (USB) and then select the corresponding device from the screen, and press the ENTER key.
- (3) A list of directories is displayed. Then select a directory that you have saved the data, and press the ENTER key.
- (4) When the file in which data is saved is selected and the ENTER key is pressed, the Setup Data are loaded in the system.
- (5) Press the keys in the order starting from INIT > F8: HNDL FILE > F1: LOAD (HDD) or F2: LOAD (USB). Load the Initialize Data in the same way as described above, by referring to the above steps (2), (3) and (4).

### **[Recovery Data (MKS-8010A /8010B and CCP-901xA only)]**

When the internal HDD is replaced with a new HDD or when the recovery data that has been stored in the HDD beforehand has been damaged for some reason, the error message “Internal Error: Recovery HDD” is displayed on the MENU PANEL at the system startup. . In such a case, re-setting of the recovery data becomes necessary.

The recovery data provides the following data:

RecoveryData/mks8010a-2.0.0-hdc4.tar.gz  
RecoveryData/mks8010a-2.0.0-hdc4\_patches.tar.gz

Download the desired from the specified FTP download site and use it.

For details of the recovery data, and for the installation procedure of the recovery data, refer to SWEM05-036 “Internal Error: The error message: Recovery HDD is displayed”.

### **[All Clear of Switcher using the DIP Switch]**

There can be a case where the switcher does not start up normally at the first start-up after version upgrade of the switcher. In such a case, refer to “MVS/DVS Series Procedure to initialize memory with dip switch (SWEM10-003)”.