

MVS-8000/DVS-9000 System Application Software V5.21

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1. Overview of the Software

1.1 New Functions

No new functions have been added in this version.

1.2. Specification Change

(1) S-BUS Group Tally Setting

The group tally setting for S-Bus has been limited to the two choices of either Group 1 to 4, or Group 5 to 8 in the conventional setting. In order to give more freedom of selection, the specification is changed. In order to avoid occurrence of problem regarding the response speed, free combination groups is not permitted, and the group tally setting can be selected from the two settings as described below.

- Select a consecutive group from either Groups 1 to 4, or Groups 5 to 8.
(When priority is given to response speed)
- Select a consecutive group from both of Groups 1 to 4, and Groups 5 to 8.
(When priority is not given to response speed)

Set the Group Tally as follows:

1. Open the Group Tally menu (Menu 7362).
2. Execute the setting of All Group Enable. When OFF is set, a consecutive group can be selected from either Groups 1 to 4, or Groups 5 to 8. When ON is set, a consecutive group can be selected from both of Groups 1 to 4, and Groups 5 to 8. Be careful that the response speed changes depending on this setting.
3. Select the necessary Groups.

(2) Button Tally Setting

In the previous versions, a menu selection provided two choices for Button Tally; System and Independ. When Button Tally is System, a group can be selected for the Tally Information source (R1 to R8). In the previous versions, there were two group choices for tally, Group1-4 and Group 5-8. Group 1 became the base point when the Group Tally was set to Groups 1 to 4, and the Group 5 become the base point when the Group Tally was set to Groups 5 to 8. However in the new version, the menu now provides a selection of nine choices for Button Tally; Independ, and R1 to R8.

The setting method is described below.

1. Open the Button Tally menu (Menu 7326.9).
2. Select a Group that becomes base point of tally generation, from R1 to R8.
3. Press the Execute button.
4. A pop-up window indicating progress of processing is displayed.
5. Upon completion of the processing, the pop-up window is closed automatically.

1.3. Restrictions

1.3.1. Restrictions on Panel

- (1) When 12 or more regions are selected in the Timeline Menu, the timeline display becomes slow.
(This is the restriction on the MKS-8010/CCP-9000 only and will be improved in a future version. The MKS-8010A/CCP-9000A does not have this restriction.)

1.3.2. Restrictions on BZS-8050

When using an effect (key frame) of a switcher from the BZS-8050, pay attention to the following points.

- (1) When two types of key frames are mixed whereas DME has been set to one type of key frame while DME has not been set to the other type, there can be a case that the effect can lag or lead in the midst of the effect. To prevent occurrence of this trouble, set DME from the very first key frame.
- (2) If an effect in which animation of frame memory data has been created is used, execution of the effect delays after the set editing point by one frame. To prevent occurrence of this trouble, advance the editing point by one frame beforehand.
- (3) When using the effect that is used to create animation of frame memory, do not set the initial speed.

1.4. Bugs Corrected

1.4.1. Switcher Bugs Corrected

- (1) The Wipe Snap Shot data and the DME Wipe Snap Shot data from the software before V5.00 could not be used.
- (2) When the signal format is 720P/50, the system sometimes did not lock to the reference signal. (MVS-8000A/ASF)
- (3) When the signal format is HD, spot noise sometimes appeared in the bottom right of a screen. (MVS-8000A/ASF)
- (4) When the Simple P/P is used, the key signal phase had a phase error by one clock. (MVS-8000A/ASF)
- (5) Horizontal streaking noise sometimes appeared. (DVS-9000/SF)
- (6) When the MVS-8000A handles the signal of 1080 format, the video fields were inverted when the video signal is captured in the frame memory, and were also inverted on the output of the frame memory. At the same time, the video signal loses compatibility with the frame memory video signals that have been saved in the MVS-8000.
- (7)

This problem is caused by a bug in the field identification of the frame memory processing of the MVS-8000A. In order to correct this bug, the field inversion function for the frame memory video signal is added. This function is described below.

In the software version before V5.21 of the MVS-8000A, the setting item for FM Data was not provided. In these versions, the system ran in an inverted mode. As the result, there is a problem in the older versions that the video fields are reversed when importing or exporting the video signal, or the video fields are reversed when the frame memory file created by the MVS-8000 is loaded.

This problem has been corrected by changing the setting the FM Data setting to Inverted to Normal. However, when the Normal setting is used, and the video file of the frame memory that was created by a version before MVS-8000A V5.21, the video fields will be reversed. In such a case, for compatibility with older frame memory files, the new Field Invert menu (Page 2117) can be used to reverse the fields.

As an alternate solution, a new menu setting is provided which exchanges the video field of the entire frame memory system. A menu item called FM Data Normal/Revers has been added in the Unit Config menu (Menu 7316.8). When the FM Data setting of Unit Config is set to Reverse, the system runs in the previous mode for field order. However, this mode can create problems during import and export, and the problem of compatibility with the MVS-8000 V5.21 and later. Therefore, it is recommended to run the system in the Normal setting of the FM Data setting of Unit

- Field Invert menu (Menu 2117)

The video fields can be exchanged for the respective frame memory images. Operate as follows. The operating procedure is described below.

1. Load the video signal to frame memory.
2. Open the Field Invert menu (Menu 2117).
3. Select a video signal from thumbnail. When a video signal is selected, the video signal is recalled automatically.

Thumbnail of the recalled video signal has the light blue frame.

Two or more video signals can be selected. All video signals can be selected by pressing the Select All button.

4. Confirm the video signal on the display monitor. When operator wants the field conversion, press the Field Invert button.

5. The field inversion processing starts. While the conversion processing is in progress, a pop-up window is displayed showing status of processing.

Note: If the field conversion processing is started while obtaining a thumbnail is in progress, obtaining the thumbnail will be stopped.

6. When the conversion processing is complete, the pop-up window is closed automatically.

7. Save the video signals that have completed the conversion .

The field conversion processing is applicable to the video signals on a frame memory only. If the converted video signals are not saved after conversion processing, and the same video signal is loaded again, the output video signal returns to the original video signal before conversion. When you want to use the video signal after conversion again, be sure to save the converted video signal upon completion of the field conversion processing.

- Unit Config menu (Menu 7316.8)

Fields of the frame memory video signals of the entire system can be exchanged. The operating procedure is described below.

1. Open the Unit Config Menu (Menu 7316.8).
2. When the FM Data is set to Normal, select Reverse. When the FM Data is set to Reverse, select Normal.
3. A pop-up window opens prompting your conversion. Press the OK button.

1.4.2. DME Bugs Corrected

- (1) There was a case that noise appeared during freeze. (MVE-9000)
- (2) When the signal format is 720P/50, the system sometimes does not lock to the reference signal.

1.4.3. Panel Bugs Corrected

- (1) When copying the M/E key, snap shot or others in the CCP-8000A, a beep does not sound.
- (2) The system startup disk cannot be created in the MKS-8010.

1.4.4. Key Frame Bug Corrected

- (1) Effects would not stop at Pause point after AUTO-RUN from the shot box.

1.4.5. BZS-8050 Bugs Corrected

- (1) If any negative initial speed other than -100% is set in an effect of switcher or of DME, the effect does not operate at the specified speed.
- (2) When the monitoring setting of switcher of that of audio mixer is set to recorder, the monitor select when a temporary recorder is used becomes the master recorder output. When the monitoring setting specifies PVW (MIX), the temporary recorder will be selected as the player.
- (3) When the monitoring setting of switcher of or of audio mixer specifies recorder, confirmation of the player preview becomes impossible at the R2, R3 and R4 outputs.

(4) When the source that has already been specified as the target of auto time track, the auto track function does not work correctly.

1.5. Related Software Releases

- “MVS-8000/SF System Application Software V1.35”
- “DVS-9000/SF System Application Software V1.35”

- “MVS-8000 System Application Software V4.10”
- “MVS-9000 System Application Software V4.10”
Regarding DCU1 (MKS-8700/2700) V4.10

- “MVS-8000 System Application Software V4.01, V4.02, V4.11”
- “DVS-8000 System Application Software V4.01, V4.02, V4.11”
Regarding DCU1 (MKS-2700 only) V4.11

- “MVS-8000/DVS-9000 System Application Software V5.11/V5.12”
Regarding version upgrading of OS of SWR1 V5.12 and DME1 V5.12

2. Parts Required for Version Upgrade

2.1 Application Software

The following application software are required for version upgrading.

Data are stored in the locations as described below:

MVS-8000/SF/A/ASF	/Application/SWR
DVS-9000/SF	/Application/SWR
MKS-8010/8010A/ CCP-9011/9011A/9012/9012A	/Application/PNL
MKS-8010/8010A/ CCP-9011/9011A/9012/9012A	/Application/MENU
MVE-8000/8000A/9000/BKDS-9470	/Application/DME
MVS-8000A/ASF (FPGA Data)	/SWR_FPGA

* This software does not have model name because it is not an optional merchandises.

** Download the software from the specified FTP site.

Names of the respective application software are described below.

MVS-8000/SF/A/ASF software	MVS Application
----------------------------	-----------------

DVS-9000/SF	DVS Application
MKS-8010/8010A/ CCP-9011/9011A/9012/9012A Menu Panel Software	Menu Application
MKS-8010/8010A/ CCP-9011/9011A/9012/9012A Menu Panel Software	Panel Application
MVE-8000 software	MVE-8000 Application
MVE-8000A software	MVE-8000A Application
MVE-9000 software	MVE-9000 Application
BKDS-9470 software	BKDS-9470 Application
MVS-8000A/ASF FPGA Data	MVS FPGA data

3. Preparation before Starting Version Upgrading

3.1 Confirming the MVS-8000A/ASF FPGA Data

For the MVS-8000A/ASF, the FPGA data must also be installed at the same time. If the FPGA data is not installed, operation of the system is not guaranteed. Be sure to verify the version number of the existing FPGA data that has already been installed in your system beforehand. When the conditions as shown in the following list are all satisfied, the FPGA data of V1.40 has already been installed before hand. In such a case, the Upgrade Package can be used for installation of the software described by this Technical Memo. If the conditions as shown in the following list are not satisfied, the Full Package must be used for installation of the software described by this Technical Memo.

Software	Version
MVS8000A-xxx-FPGA-1	V1.40
MVS8000A-xxx-FPGA-2	V1.30
MVS8000A-xxx-FPGA-3	V1.30
MVS8000A-xxx-FPGA-4	V1.10
MVS8000A-xxx-FPGA-5	V1.20
MVS8000A-xxx-FPGA-6	V1.20
MVS8000A-xxx-FPGA-8	V1.10
MVS8000A-FM-FPGA-1	V1.30
MVS8000A-FM-FPGA-2	V1.30
MVS8000A-OUTPROC- FPGA-1	V1.30
MVS8000A-MVEIF- FPGA-1	V2.20

xxx : PP, ME1, ME2, ME3

3.2 Confirmation of the Existing Software Version

Verify the versions of the existing application software by following the steps described below;

- (1) Press the following buttons in the order shown: ENG SETUP > System > Install/Unit Config 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 version as shown below or higher.

Device	Current Information
Menu	Version 1.30
PNL1	Version 1.30
Regarding SWR1	Version 1.30

Regarding DME1	Version 1.30
DCU1(MKS-8700)	Version 4.10
DCU1(MKS-2700)	Version 4.11

NOTES:

If the version of any equipment has not been upgraded to V1.30 or higher, upgrade them to V1.35 first. After they are upgraded, implement this Technical Memo.

If the MKS-8700 is not upgraded yet to V4.10, upgrade the software to V4.10 first.

If the MKS-2700 is not upgraded yet to V4.11, upgrade the software to V4.11 first.

If your system is using the MKS-8010A, and the MENU software version is V3.11 at the same time, refer to the release notes for V3.22 "Menu Software Installation and Re-setting the Network Configure", and then go to the sub-section "Procedure when the system using the MKS-8010A is version V3.11, and install the "Software correcting the FTP trouble".

3.3. Preparations Before Starting Version Upgrade

3.3.1. Copying the application software to a memory card

- (1) Download the appropriate upgrade file **MVS-V521 Software Pack.exe** or **DVS-V521 Software Pack.exe** from the download site a Windows PC.
- (2) Prepare a memory card such as a USB drive or Memory Stick to use for the upgrade. It is recommended to have 200mb a spare available on the memory card for the upgrade files.
If all data cannot be copied in a single memory card due to the limited size of memory card, the main applications and FPGA data can be saved to separate memory cards. Replace the memory cards as required in the following procedure
- (3) Execute the upgrade application on the PC
- (4) Select the memory card as the installation destination.
- (5) Select the components you wish to upgrade
- (6) When completed, the memory card can be removed from the PC and used to upgrade the MVS-DVS system.

3.4. Other Precautions

- The different software for MVS-8000/SF, MVS-8000A/ASF and DVS-9000/SF are prepared for the respective models. Select the software that corresponds to the correct model when installing the software. Especially, when the software for the MVS-8000/SF is installed by mistake for the software for the MVS-8000A/ASF by mistake, the trouble such as "System does not start up" will occur. Be very careful not to make mistake in selecting the software types.

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

4. Procedure of Version Upgrading

Note: Never turn off the power while the version upgrade 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.

4.1 Save the User Setup Data of the Switcher System

Save the User Setup data of the switcher system by using the procedure described below.

- (1) Press the following buttons in the order shown: ENG SETUP > System > Start Up to open the Start Up menu (Page 7314).
- (2) Select PNL1. Set the Start Up Mode to [Custom], and set the Setup and the Initial Status to [User].
- (3) Establish the same setting as described above for SWR1 and DME1.
- (4) Press the [Exec] button, and then press "Yes" in reply to the message prompting your confirmation.
 - ⇒ When step (4) is completed, the Start Up mode of Setup of Panel, Switcher and DME is switched to User.
- (5) Press the [Initialize] button of the underneath Function key to display the "Initialize" menu (page7315).
- (6) Select PNL1 and press the [Reset] button.
- (7) Press the [Reset] button in SWR1 and DME1 in the same way.
- (8) Press the [Exec] button, and then press "Yes" in reply to the message prompting your confirmation.
 - ⇒ The Panel, Switcher and DME restart by booting with the User Setup.
- (9) Insert a memory card into the corresponding slot on the Control Panel.
- (10) Press the [File] button, [All] button and [External File] button in this order to display the "File" menu (Menu 7161).
- (11) Select [Memory Card] as the destination Device of Save, and select [Setup] and [Initial Status] as the data to be saved.
- (12) Select the data such as [Snapshot] or [Effect] that you want to save, as required.
- (13) Press the [Save] button, and then press "Yes" in reply to the message prompting your confirmation.
- (14) When saving is complete, remove the memory card.

* There can be a case that the flash memory card cannot be recognized so that an error is issued after the above step (13) is executed. In such a case, open the Maintenance page by clicking ENG SETUP > System > Maintenance in this order. 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 (10). If a flash memory card cannot be recognized in the procedures shown below, try the above-described procedure whenever needed.

4.2 Save the Setup Data and Initialize Data of BZS-8050

When user wants to use the BZS-8050 setup of the previous version even after version upgrade, save the BZS-8050 Setup Data and the Initialize Data before starting upgrading the software version. However, the software before BZS-8050 V1.10 does not contain the function of saving the data. In such a case, take note of the setup values, and re-set them after the new version software is installed.

- (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. Then select a directory that 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 by referring to (2), (3) and (4).

4.3 Installing the Menu Software, and Re-Setting the Network Configuration

- (1) Insert a compact flash memory card in which the application software 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) Select an appropriate procedure from the followings depending on version of the Menu that is currently installed, and perform the procedure as shown below.
 - When the Menu version is before V5.00 (Page 7316.5)

Press the [Install] button to show the list of software that are copied in the compact flash memory card on the menu screen.

Move the cursor to the software file that you want to installed, in accordance with the type of Panel that is the target of version upgrade, among the following two types of software.

- To update the MKS-8010/CCP-9000 to V5.21

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

- To update the MKS-8010A/CCP-9000A to V5.21

select: **MENU CPU MKS8010A (for full install).**

- When the Menu version is V5.00 or higher versions (Page 7316.10)

Press the [Install] button to show the equipment list and list of software that can be installed. Then, select Menu from the equipment list and press the [Set] button to turn it ON.

Move the cursor to the software file that you want to installed, in accordance with the type of Panel that is the target of version upgrade, among the following two types of software.

- To update the MKS-8010/CCP-9000 to V5.21

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

- To update the MKS-8010A/CCP-9000A to V5.21

select: **MENU CPU MKS8010A (for full install).**

(4) Press the [Exec] button, and then press "Yes" in reply to the message prompting your confirmation.

(5) File transfer begins. If the message indicating completion of file transfer appears, press "OK".

(6) Press the Menu number indicating block in the top left of the menu screen to display the Menu number entry pop-up screen.

(7) Enter "9999" to display the Engineering Menu.

(8) Press the [Reboot Panel] button to reboot the control panel.

* You can turn off the SCU power once and back on to reboot SCU instead of performing the above steps (6) through (8). However, we recommend you to follow the above steps (6) through (8).

When version of the existing Menu before upgrading is V5.00 or before, upgrading the Linux Kernel version is necessary. (8) Re-boot the system, and then upgrade the Linux Kernel version as described below.

Caution: If the following two conditions of the MKS-8010A are satisfied as the same time, do not upgrade the Linux Kernel version. However, if the following Condition-1 only is satisfied and the Condition-2 is not satisfied, you can upgrade the Linux Kernel version.

1. Serial number of the MKS-8010A is any of the followings:
10001 through 10009, and 10011 through 10018 (total 17 units)
2. When version number of the MKS8010A-MENU-GUI-RECOVERY is displayed as “Version -- ()” or as “Version -- (--)”.

In order to confirm the version number, upgrade the Menu to V5.21 by following the steps (1) through (8), and then perform the steps below to confirm the version number.

Let the Install Menu (Page 7316) be displayed on screen.

Move the cursor to Menu and press the [Detail Information] button.

(9) Press the following buttons in the order shown: ENG SETUP > System > Install to open the Install menu (Page 7316).

(10) Press the [Install] button to show the equipment list and list of software that can be installed. Then, select Menu from the equipment list and press the [Set] button to turn it ON.

Move the cursor to the software file that you want to installed, in accordance with the type of Panel that is the target of version upgrade, among the following two types of software.

– To upgrade version of MKS-8010/CCP-9000

select: **MENU CPU SYSTEM SOFTWARE (SystemUpdate)**

- To upgrade version of MKS-8010A/CCP-9000A

select: **MENU CPU MKS8010A SYSTEM (SystemUpdate)**

(11) Press the [Exec] button, and then press "Yes" in reply to the message prompting your confirmation.

(12) File transfer begins. If the message indicating completion of file transfer appears, press "OK".

(13) Press the Menu number indicating block in the top left of the menu screen to display the Menu number entry pop-up screen.

(14) Enter “9999” to display the Engineering Menu.

(15) Press the [Reboot Panel] button to reboot the control panel.

(16) Enter “9999” to display the Engineering Menu and verify version of the Linux Kernel.

- For MKS-8010/CCP-9000: 2.4.20-mvs8000 #2 Tue Aug 30 20:27:54 JST 2005

- For MKS-8010A/CCP-9000A: 2.4.20_n20-sony-mpu300 #1 Wed Jul 13 08:08:23 UTC 2005

* 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 reply 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”.

4.4 Installation of the Switcher Software and FPGA Data (MVS-8000A/ASF only)

- (1) Insert a compact flash memory card in which the application software 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 and press the [Set] button to turn it ON.
- (4) Move the cursor to the desired software that you want to install from the following software as shown below in accordance with the version upgrade target, and press the [Exec] button. When the message prompting your confirmation appears, press “Yes”. (The displayed list does not necessarily contain all models because the switcher models are identified and the installable software are filtered before display.)

Note: If the XPT-25 or CA-54A is used as the repair product for the MVS-8000/SF, select MVS-8000/SF Proc. With New2nd [V5.21] (NO FPGA) as the file to install.

– When upgrading the MVS-8000 to V5.21 from the version before V1.35

select: **MVS8000 Proc. [V5.21] (for full install)**

– When upgrading MVS-8000 to V5.21 from V1.35 and higher

select: **MVS-8000 Proc. [V5.21] (for upgrade)**

– When upgrading the MVS-8000 to V5.21 from V3.00 or higher

select: **MVS8000 Proc. [V5.21] (for NO FPGA)**

– When upgrading the MVS-8000SF to V5.21 from the version before V1.35

select: **MVS8000SF Proc. [V5.21] (for full install)**

– When upgrading MVS-8000SF to V5.21 from V1.35 and higher

select: **MVS8000SF Proc. [V5.21] (for upgrade)**

– When upgrading MVS-8000SF to V5.21 from V3.00 and higher

select: **MVS8000SF Proc. [V5.21] (for NO FPGA)**

– When upgrading MVS-8000A to V5.21

select: **MVS8000A Proc. [V5.21] (for upgrade)**

– When upgrading MVS-8000ASF to V5.21

select: **MVS8000ASF Proc. [V5.21] (for upgrade)**

– When upgrading the DVS-9000 to V5.21 from the version before V1.35

select: **DVS9000 Proc. [V5.21] (for full install)**

- When updating DVS-9000 to V5.21 from V1.35 and higher
select: **DVS9000 Proc. [V5.21] (for upgrade)**
 - When updating DVS-9000 to V5.21 from V4.00 or higher
select: **DVS9000 Proc. [V5.21] (for NO FPGA)**

 - When upgrading the DVS-9000SF to V5.21 from the version before V1.35
select: **DVS9000SF Proc. [V5.21] (for full install)**
 - When updating DVS-9000SF to V5.21 from V1.35 and higher
select: **DVS9000SF Proc. [V5.21] (for upgrade)**
 - When updating DVS-9000SF to V5.21 from V4.00 or higher
select: **DVS9000SF Proc. [V5.21] (for NO FPGA)**
- (5) File transfer begins. If the message indicating completion of file transfer appears, press "OK".

For the MVS-8000A/ASF, installation of the FPGA data is required next. Implement the installation by following the steps described below.

- (6) Insert a memory card in which the FPGA data is copied, into the memory card adaptor.
- (7) Press the following buttons in the order shown: ENG SETUP > System > Install to open the Install menu (Page 7316).
- (8) Press the [Install] button to show the equipment list and list of software that can be installed. Then, select SWR from the equipment list and press the [Set] button to turn it ON.
- (9) Move the cursor to the desired FPGA data that you want to install from the FPGA data list as shown below, and press the [Exec] button. When the message prompting your confirmation appears, press "Yes".

For the existing version of the current FPGA data, refer to above step (3).

- When upgrading the FPGA data of the MVS-8000A to V1.50 from V1.40
select: **MVS8000A-FPGA Upgrade**

- When upgrading the FPGA data of the MVS-8000A to V1.50 from any version other than V1.40
select: **MVS8000A-FPGA Full**
- When upgrading the FPGA data of the MVS-8000ASF to V1.50 from V1.40
select: **MVS8000ASF-FPGA Upgrade**
- When upgrading the FPGA data of the MVS-8000ASF to V1.50 from any version other than V1.40
select: **MVS8000ASF-FPGA Full**

- (10) File transfer begins. If the message indicating completion of file transfer appears, press "OK".

When installation of the software and the FPGA data is complete, re-boot the system.

- (11) Turn off the power of the MVS/DVS once and back on again to re-start the MVS/DVS.
There can be a case that the MVS/DVS does not start up normally at the first re-start after version upgrade of MVS/DVS. In such a case, perform All Clear using the DIP switch by referring to section 7 "All Clear of the Switcher using the DIP Switch" of this Technical Memo.

If the COMM1-BOOT software is not yet upgraded to "V1.3", and when the COMM1-APP is not yet upgraded to "V1.6", the following operations must be executed in order to install the COMM1 software. So please continue.

- (12) After rebooting, open the Install menu (Page 7316) again.
- (13) Press the [Install] button to show the equipment list and list of software that can be installed. Then, select SWR from the equipment list and press the [Set] button to turn it ON.
- (14) Move the cursor to the following file among the installable software, and press the [Exec] button. When the message prompting your confirmation appears, press "Yes".
- MVS8000/DVS9000/SF (Comm1 Only) [V5.21]
There can be cases that the target file will not be displayed depending on the switcher model. In such a case, press the [Display All Software] button to display all of the software and select the desired file.
- (15) File transfer begins. If the message indicating completion of file transfer appears, press "OK".
- (16) Turn off the power of the MVS/DVS once and back on again to re-start the MVS/DVS.

4.5 Installing the Panel 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 PNL1 and, press [Custom] of Start Up mode and press [Factory] of Setup in this order.
- (3) Press the [Exec] button, and then press "Yes" in reply to the message prompting your confirmation.

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

- (4) Insert a compact flash memory card in which the application software is 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 PNL from the equipment list and press the [Set] button to turn it ON.
- (7) Move the cursor to the desired software from the following software as shown below depending on the type of the panel that you want to update, and press the [Exec] button. When the message prompting your confirmation appears, press "Yes".

- To update the MKS-8010/CCP-9000 to V5.21

select: **MKS8010/CCP9000 PNL CTRL *Upgrade***

- To update the MKS-8010A/CCP-9000A to V5.21

select: **MKS8010A/CCP9000A PNL CTRL *Upgrade***

- (8) File transfer begins. If the message indicating completion of file transfer appears, press "OK".
- (9) Turn off the power of the SCU once and back on again to re-start the SCU.

4.6 Installing the DME (MVE) Software

- (1) Insert a compact flash memory card in which the application software 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 DME from the equipment list and press the [Set] button to turn it ON.
- (4) Move the cursor to the desired software that you want to install from the following three software in accordance with the DME that you want to upgrade as shown below, and press the [Exec] button. When the message prompting your confirmation appears, press "Yes".
 - For upgrading version of MVE-8000 to V5.21
select: **MVE-8000 [V5.21]**
 - For upgrading the version of MVE-8000A to V5.21
select: **MVE-8000A [V5.21]**
 - For upgrading version of MVE-9000 to V5.21
select: **MVE-9000 [V5.21]**
 - For upgrading the version of BKDS-9470 to V5.21
select: **BKDS-9470 [V5.21]**
- (5) File transfer begins. If the message indicating completion of file transfer appears, press "OK".
- (6) Turn off the power of the MVE once and back on again to re-start the MVE. (In the case of the BKDS-9470, turn off the power of the DVS once and back on again to re-start the DVS.)

When you are upgrading the MVE-9000 from V2.xx, you need to continue the following steps after the system is re-booted because the pattern for Texture Lighting is not installed yet at this stage. (It means that the installation work should be repeated two times.)

When you are upgrading the MVE-9000 from V3.00 and higher, the following step is not needed.

- (7) Repeat the above steps (2) through (6) again and install the MVE-9000 software again.

4.7 Clearing Memory and Rebooting

- (1) Press the following buttons in the order shown: ENG SETUP > System > Initialize to display the Initialize menu (Menu 7315).
- (2) Select PNL1 and press the [All Clear] button.
- (3) Press the [All Clear] button in SWR1 and DME1 in the same way.
- (4) Press the [Exec] button, and then press "Yes" in reply to the message prompting your confirmation.

4.8 Initializing 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 PNL1 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 reply to the message prompting your confirmation.
- (4) Execute [Setup Define] and [Initial Status Define] in SWR1 and DME1 in the same way.

4.9 Verifying the Installed Version

This completes the version upgrading. In order to make sure that the installation has ended with success, verify the version number of the installed software.

- (1) Press the following buttons in the order shown: ENG SETUP > System > Install/Unit Config to open the Install menu (Page 7316).
- (2) Confirm that the respective software are upgraded to the versions as described below on the menu.

Device	Current Information
Menu	Version 5.21 (Mar.17.2006 15:43)
PNL1	Version 5.21 (Mar.17.2006 15:00:00)
SWR1	Version 5.21 (Mar.17.2006 14:47:00)
DME1	Version 5.21 (Mar.17.2006 16:05:00)

* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct.

** The version numbers that are displayed here, are the version numbers of the application software of the respective equipment. If the correct version numbers are displayed on the menu, it indicates that the installation has ended with success. However for your confirmation, check the detailed information of the respective software that are installed in each equipment using the procedure as shown below.

- (1) Move the cursor to Menu and press the [Detail Information] button.
- (2) Confirm that the respective software/firmware have already been upgraded to the versions shown.
- (3) Verify the version numbers of the PNL1, SWR1 and DME1 software in the same way.

Menu (For MKS-8010/CCP-9000)

Software/Firmware Name	Version
MKS8010-MENU-GUI	Version 5.21 (Mar.17.2006 15:43)
MKS8010-MENU-IF	Version 5.21 (Mar.17.2006 15:43)

* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct.

Menu (For MKS-8010A/CCP-9000A)

Software/Firmware Name	Version
MKS8010A-MENU-GUI	Version 5.21 (Mar.17.2006 16:01:00)
MKS8010A-MENU-IF	Version 5.21 (Mar.17.2006 16:01:00)
MKS8010A-MENU-PIE* ¹	Version 2.01 (Mar.14.2006 13:01)
MKS8010A-MENU-GUI-RECOVERY	Version 5.21 (Mar.17.2006 16:01:00)
MKS8010A-MENU-IF-RECOVERY	Version 5.21 (Mar.17.2006 16:01:00)
MKS8010A-MENU-PIE-RECOVERY* ¹	Version 2.01 (Mar.14.2006 13:01)
MKS8010A-MENU-GUI-RESTORE	Version 5.21 (Mar.17.2006 16:01:00)
MKS8010A-MENU-IF-RESTORE	Version 5.21 (Mar.17.2006 16:01:00)
MKS8010A-MENU-PIE-RESTORE* ¹	Version 2.01 (Mar.14.2006 13:01)

* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct.

** It is displayed only when license of the Editing Control Software BZS-8050 is valid.

PNL1 (For MKS-8010/CCP-9000)

Software/Firmware Name	Version
MKS8010-CTRL-MAIN-BOOT	Version 1.10 (Dec.14.2001 15:57)
MKS8010-CTRL-MAIN-APP	Version 5.21 (Mar.17.2006 15:00:00)
MKS8010-CTRL-COMM1-BOOT	Version 1.3 (Mar.18.2003 22:10)
MKS8010-CTRL-COMM1-APP	Version 1.3 (Mar.18.2003 22:10)
MKS8010-CTRL-COMM2-BOOT	Version 1.3 (Mar.18.2003 22:10)
MKS8010-CTRL-COMM2-APP	Version 1.3 (Mar.18.2003 22:10)

* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct.
For CCP-9000, the indication CCP-9000 is displayed instead of MKS-8010 in PNL1.

PNL1 (For
MKS-8010A/CCP-9000A)

Software/Firmware Name	Version
MKS8010A-CTRL-MAIN-BOOT	Version 1.30 (May.25.2005 16:12)
MKS8010A-CTRL-MAIN-APP	Version 5.21 (Mar.17.2006 15:00:00)
MKS8010A-CTRL-COMM1-BOOT	Version 1.10 (Jul.26.2005 14:37)
MKS8010A-CTRL-COMM1-APP	Version 2.03 (Jan.6.2005 14:49)
MKS8010A-CTRL-COMM2-BOOT	Version 1.10 (Jul.26.2005 14:37)
MKS8010A-CTRL-COMM2-APP	Version 2.03 (Jan.6.2005 14:49)

* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct.
For CCP-9000A, the indication CCP-9000A is displayed instead of MKS-8010A in PNL1.
When the CPU-DT is installed as the CPU Module, -DT is added at the end of the software name.

SWER (for MVS-8000/SF)

Software/Firmware Name	Version
MVS8000-MAIN-BOOT	Version 3.00 (Apr.14.2005 13:56:00)
MVS8000-MAIN-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-COMM2-BOOT	Version 3.00 (Apr.14.2005 13:58:00)
MVS8000-COMM2-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-XPT-BOOT	Version 3.00 (Apr.14.2005 13:56:00)
MVS8000-XPT-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-FM-BOOT	Version 3.00 (Apr.14.2005 13:57)
MVS8000-FM-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-FM-FPGA	Version 2.00 (Nov.28.2002 15:14)
MVS8000-MVEIF-BOOT	Version 3.00 (Apr.14.2005 13:56:00)
MVS8000-MVEIF-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-OUTPROC-BOOT	Version 3.00 (Apr.14.2005 13:56:00)
MVS8000-OUTPROC-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-ME3-BOOT	Version 3.00 (Apr.14.2005 13:56:00)
MVS8000-ME3-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-ME3-FPGA	Version 2.03 (Apr.18.2003 12:11)
MVS8000-ME3-SOLID	Version 1.00 (Jul.10.2001 13:52)
MVS8000-ME2-BOOT	Version 3.00 (Apr.14.2005 13:56:00)
MVS8000-ME2-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-ME2-FPGA	Version 2.03 (Apr.18.2003 12:11)
MVS8000-ME2-SOLID	Version 1.00 (Jul.10.2001 13:52)
MVS8000-ME1-BOOT	Version 3.00 (Apr.14.2005 13:56:00)
MVS8000-ME1-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-ME1-FPGA	Version 2.03 (Apr.18.2003 12:11)
MVS8000-ME1-SOLID	Version 1.00 (Jul.10.2001 13:52)
MVS8000-PP-BOOT	Version 3.00 (Apr.14.2005 13:56:00)
MVS8000-PP-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-PP-FPGA	Version 2.03 (Apr.18.2003 12:11)
MVS8000-PP-SOLID	Version 1.00 (Jul.10.2001 13:52)
MVS8000-COMM1-BOOT	Version 1.3 (Mar.18.2003 22:10)
MVS8000-COMM1-APP	Version 1.6 (Jul.26.2005 18:02:00)
MVS8000-CCR-BOOT	Version 3.00 (Apr.14.2005 13:57)
MVS8000-CCR-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000-CCR-FPGA	Version 2.03 (Sep.4.2003 20:00)

* The time and data that are displayed on the menu can be different from the above list. The

time and date differences create no problem as far as the version number is correct.

** The above lists are the examples of display when all optional boards are installed in the MVS-8000. If any optional board is not installed, information of the un-installed board will not be displayed.

If the CA-54A board is used as the repair board of the CA-44 board, or if the XPT-25C complete board is used as the repair board of the XPT-18/21 board, the BOOT software of V5.01 is required.

When the CPU-DT is installed as the CPU Module, -DT is added at the end of the software name.

SWER (for MVS-8000A/ASF)

Software/Firmware Name	Version
MVS8000A-MAIN-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-MAIN-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-COMM2-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-COMM2-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-XPT-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-XPT-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-FM-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-FM-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-FM-FPGA-1	Version V1.50 (Mar.17.2006 18:15)
MVS8000A-FM-FPGA-2	Version V1.50 (Feb.01.2006 13:31)
MVS8000A-CCR-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-CCR-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-CCR-FPGA-1	Version V2.03 (Sep.04.2003 20:00)
MVS8000A-MVEIF-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-MVEIF-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-MVEIF- FPGA-1	Version V2.20 (Apr.14.2005 21:23)
MVS8000A-OUTPROC-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-OUTPROC-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-OUTPROC- FPGA-1	Version V1.50 (Mar.03.2006 15:41)
MVS8000A-OUTPROC- FPGA-2	Version V1.50 (Mar.03.2006 15:41)
MVS8000A-ME3-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-ME3-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-ME3-FPGA-1	Version V1.40 (Dec.12.2005 17:24)
MVS8000A-ME3-FPGA-2	Version V1.50 (Feb.01.2006 13:30:00)
MVS8000A-ME3-FPGA-3	Version V1.30 (Oct.06.2005 13:46:00)
MVS8000A-ME3-FPGA-4	Version V1.10 (Oct.27.2004 09:32)
MVS8000A-ME3-FPGA-5	Version V1.20 (Oct.27.2004 09:42)

MVS8000A-ME3-FPGA-6	Version V1.20 (Oct.28.2004 10:44)
MVS8000A-ME3-FPGA-7	Version V1.00 (Apr.28.2004 10:44)
MVS8000A-ME3-FPGA-8	Version V1.10 (Oct.20.2004 09:32)
MVS8000A-ME3-SOLID	Version 1.00 (Jul.10.2001 13:52)
MVS8000A-ME2-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-ME2-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-ME2-FPGA-1	Version V1.40 (Dec.12.2005 17:24)
MVS8000A-ME2-FPGA-2	Version V1.50 (Feb.01.2006 13:30:00)
MVS8000A-ME2-FPGA-3	Version V1.30 (Oct.06.2005 13:46:00)
MVS8000A-ME2-FPGA-4	Version V1.10 (Oct.27.2004 09:32)
MVS8000A-ME2-FPGA-5	Version V1.20 (Oct.27.2004 09:42)
MVS8000A-ME2-FPGA-6	Version V1.20 (Oct.28.2004 10:44)
MVS8000A-ME2-FPGA-7	Version V1.00 (Apr.28.2004 10:44)
MVS8000A-ME2-FPGA-8	Version V1.10 (Oct.20.2004 09:32)
MVS8000A-ME2-SOLID	Version 1.00 (Jul.10.2001 13:52)
MVS8000A-ME1-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-ME1-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-ME1-FPGA-1	Version V1.40 (Dec.12.2005 17:24)
MVS8000A-ME1-FPGA-2	Version V1.50 (Feb.01.2006 13:30:00)
MVS8000A-ME1-FPGA-3	Version V1.30 (Oct.06.2005 13:46:00)
MVS8000A-ME1-FPGA-4	Version V1.10 (Oct.27.2004 09:32)
MVS8000A-ME1-FPGA-5	Version V1.20 (Oct.27.2004 09:42)
MVS8000A-ME1-FPGA-6	Version V1.20 (Oct.28.2004 10:44)
MVS8000A-ME1-FPGA-7	Version V1.00 (Apr.28.2004 10:44)
MVS8000A-ME1-FPGA-8	Version V1.10 (Oct.20.2004 09:32)
MVS8000A-ME1-SOLID	Version 1.00 (Jul.10.2001 13:52)
MVS8000A-PP-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-PP-APP	Version 5.21 (Mar.17.2006 14:47:00)
MVS8000A-PP-FPGA-1	Version V1.40 (Dec.12.2005 17:24)
MVS8000A-PP-FPGA-2	Version V1.50 (Feb.01.2006 13:30:00)
MVS8000A-PP-FPGA-3	Version V1.30 (Oct.06.2005 13:46:00)
MVS8000A-PP-FPGA-4	Version V1.10 (Oct.27.2004 09:32)
MVS8000A-PP-FPGA-5	Version V1.20 (Oct.27.2004 09:42)
MVS8000A-PP-FPGA-6	Version V1.20 (Oct.28.2004 10:44)
MVS8000A-PP-FPGA-7	Version V1.00 (Apr.28.2004 10:44)
MVS8000A-PP-FPGA-8	Version V1.10 (Oct.20.2004 09:32)
MVS8000A-PP-SOLID	Version 1.00 (Jul.10.2001 13:52)
MVS8000A-COMM1-BOOT	Version 1.3 (Mar.18.2003 22:10)

MVS8000A-COMM1-APP	Version 1.6 (Jul.26.2005 18:02:00)
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* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct.

** The above lists are the examples of display when all optional boards are installed in the MVS-8000. If any optional board is not installed, information of the un-installed board will not be displayed.

When the CPU-DT is installed as the CPU Module, -DT is added at the end of the software name.

SWER (for DVS-9000/SF)

Software/Firmware Name	Version
DVS9000-MAIN-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-MAIN-APP	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-COMM2-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-COMM2-APP	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-XPT-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-XPT-APP	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-OUTPROC-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-OUTPROC-APP	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-OUTPROC-FPGA	Version 2.20 (Feb.16.2006 20:51)
DVS9000-FM-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-FM-APP	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-FM-FPGA	Version 2.20 (Feb.16.2006 20:53:00)
DVS9000-ME3-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-ME3-APP	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-ME3-FPGA-1(*1)	Version 3.20 (Feb.16.2006 20:55:00)
DVS9000-ME3-FPGA-2(*2)	Version 4.20 (Feb.16.2006 20:57:00)
DVS9000-ME3-FPGA-3(*3)	Version 5.20 (Feb.16.2006 20:58:00)
DVS9000-ME3-FPGA-4(*3)	Version 5.02 (Oct.31.2005 16:00:00)
DVS9000-ME3-SOLID	Version 1.00 (Jul.10.2001 13:52)
DVS9000-ME2-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-ME2-APP	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-ME2-FPGA-1(*1)	Version 3.20 (Feb.16.2006 20:55:00)
DVS9000-ME2-FPGA-2(*2)	Version 4.20 (Feb.16.2006 20:57:00)
DVS9000-ME2-FPGA-3(*3)	Version 5.20 (Feb.16.2006 20:58:00)
DVS9000-ME2-FPGA-4(*3)	Version 5.02 (Oct.31.2005 16:00:00)
DVS9000-ME2-SOLID	Version 1.00 (Jul.10.2001 13:52)
DVS9000-ME1-BOOT	Version 5.21 (Mar.17.2006 14:47:00)

DVS9000-ME1-APP	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-ME1-FPGA-1(*1)	Version 3.20 (Feb.16.2006 20:55:00)
DVS9000-ME1-FPGA-2(*2)	Version 4.20 (Feb.16.2006 20:57:00)
DVS9000-ME1-FPGA-3(*3)	Version 5.20 (Feb.16.2006 20:58:00)
DVS9000-ME1-FPGA-4(*3)	Version 5.02 (Oct.31.2005 16:00:00)
DVS9000-ME1-SOLID	Version 1.00 (Jul.10.2001 13:52)
DVS9000-PP-BOOT	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-PP-APP	Version 5.21 (Mar.17.2006 14:47:00)
DVS9000-PP-FPGA-1(*1)	Version 3.20 (Feb.16.2006 20:55:00)
DVS9000-PP-FPGA-2(*2)	Version 4.20 (Feb.16.2006 20:57:00)
DVS9000-PP-FPGA-3(*3)	Version 5.20 (Feb.16.2006 20:58:00)
DVS9000-PP-FPGA-4(*3)	Version 5.02 (Oct.31.2005 16:00:00)
DVS9000-PP-SOLID	Version 1.00 (Jul.10.2001 13:52)
DVS9000-COMM1-BOOT	Version 1.3 (Mar.18.2003 22:10)
DVS9000-COMM1-APP	Version 1.6 (Jul.26.2005 18:02:00)

* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct.

** The above lists are the example of display when all optional boards are installed in the DVS-9000. If any optional board is not installed, information of the un-installed board will not be displayed.

When the CPU-DT is installed as the CPU Module, -DT is added at the end of the software name.

(*1) In the case when the MIX-46 board suffix is -11.

(*2) In the case when the MIX-46 board suffix is -12.

(*3) In the case when the MIX-46 board suffix is -16.

DME (For MVE-8000)

Software	Version
MKS8800-MAIN-BOOT	Version 1.01 (Dec.14.2001 21:57:00)
MKS8800-MAIN-APP	Version 5.21 (Mar.17.2006 16:10:00)
MKS8800-COMM1-BOOT	Version 1.10 (Dec.14.2001 21:56:00)
or	Version 1.30 (Apr.8.2003 13:22)
MKS8800-COMM1-APP	Version 5.21 (Mar.17.2006 16:05:00)
MKS8800-COMM2-BOOT	Version 1.10 (Dec.14.2001 21:57:00)
or	Version 1.10 (Dec.10.2001 21:57)
or	Version 1.30 (Apr.8.2003 13:24:00)
MKS8800-COMM2-APP	Version 5.21 (Mar.17.2006 16:07:00)
MKS8800-VIF-BOOT	Version 1.00 (Jun.8.2001 18:39)
MKS8800-VIF-APP	Version 5.21 (Mar.17.2006 16:00:00)
MKS8800-DVP1-BOOT	Version 1.00 (Jun.8.2001 18:39)
MKS8800-DVP1-APP	Version 5.21 (Mar.17.2006 16:00:00)
MKS8800-DVP2-BOOT	Version 1.00 (Jun.8.2001 18:39)
MKS8800-DVP2-APP	Version 5.21 (Mar.17.2006 16:00:00)
MKS8800-DVP3-BOOT	Version 1.00 (Jun.8.2001 18:39)
MKS8800-DVP3-APP	Version 5.21 (Mar.17.2006 16:00:00)
MKS8800-DVP4-BOOT	Version 1.00 (Jun.8.2001 18:39)
MKS8800-DVP4-APP	Version 5.21 (Mar.17.2006 16:00:00)

* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct. However, only for the MKS8800-COMM2-BOOT, both the version numbers and the dates on the display and those on the list must agree.

The above lists are the examples of display when all optional boards are installed in the MKS-8800. If DVP board is not installed, information of the DVP board will not be displayed.

DME (For MVE-8000A)

Software	Version
MVE-8000A-MAIN-BOOT	Version 2.10 (Mar.17.2006 15:58:00)
MVE-8000A-MAIN-APP	Version 5.21 (Mar.17.2006 16:11)
MVE-8000A-COMM1-BOOT	Version 2.10 (Mar.17.2006 16:05:00)
MVE-8000A-COMM1-APP	Version 5.21 (Mar.17.2006 16:05:00)
MVE-8000A-COMM2-BOOT	Version 2.10 (Mar.17.2006 16:07:00)
MVE-8000A-COMM2-APP	Version 5.21 (Mar.17.2006 16:08:00)
MVE-8000A-VIF-BOOT	Version 2.10 (Mar.17.2006 15:58:00)
MVE-8000A-VIF-APP	Version 5.21 (Mar.17.2006 15:57:00)
MVE-8000A-DVP1-BOOT	Version 2.10 (Mar.17.2006 15:58:00)
MVE-8000A-DVP1-APP	Version 5.21 (Mar.17.2006 15:57:00)
MVE-8000A-DVP2-BOOT	Version 2.10 (Mar.17.2006 15:58:00)
MVE-8000A-DVP2-APP	Version 5.21 (Mar.17.2006 15:57:00)
MVE-8000A-DVP3-BOOT	Version 2.10 (Mar.17.2006 15:58:00)
MVE-8000A-DVP3-APP	Version 5.21 (Mar.17.2006 15:57:00)
MVE-8000A-DVP4-BOOT	Version 2.10 (Mar.17.2006 15:58:00)
MVE-8000A-DVP4-APP	Version 5.21 (Mar.17.2006 15:57:00)

* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct.

The above list is the example of display when all optional boards are installed in the MVE-8000A. If DVP board is not installed, information of the DVP board will not be displayed.

When the CPU-DT is installed as the CPU Module, -DT is added at the end of the software name.

DME (For MVE-9000)

Software	Version
MVE9000-MAIN-BOOT	Version 2.20 (Mar.17.2006 15:10:00)
MVE9000-MAIN-APP	Version 5.21 (Mar.17.2006 15:20:00)
MVE9000-COMM1-BOOT	Version 2.20 (Mar.17.2006 15:13:00)
MVE9000-COMM1-APP	Version 5.21 (Mar.17.2006 15:14:00)
MVE9000-COMM2-BOOT	Version 2.20 (Mar.17.2006 15:16:00)
MVE9000-COMM2-APP	Version 5.21 (Mar.17.2006 15:16:00)
MVE9000-VIF-BOOT	Version 2.20 (Mar.17.2006 15:10:00)
MVE9000-VIF-APP	Version 5.21 (Mar.17.2006 15:08)
MVE9000-DVP1-BOOT	Version 2.20 (Mar.17.2006 15:10:00)
MVE9000-DVP1-APP	Version 5.21 (Mar.17.2006 15:08)
MVE9000-DVP2-BOOT	Version 2.20 (Mar.17.2006 15:10:00)
MVE9000-DVP2-APP	Version 5.21 (Mar.17.2006 15:08)
MVE9000-DVP3-BOOT	Version 2.20 (Mar.17.2006 15:10:00)
MVE9000-DVP3-APP	Version 5.21 (Mar.17.2006 15:08)
MVE9000-DVP4-BOOT	Version 2.20 (Mar.17.2006 15:10:00)
MVE9000-DVP4-APP	Version 5.21 (Mar.17.2006 15:08)
MVE9000-DVP5-BOOT	Version 2.20 (Mar.17.2006 15:10:00)
MVE9000-DVP5-APP	Version 5.21 (Mar.17.2006 15:08)
MVE9000-DVP6-BOOT	Version 2.20 (Mar.17.2006 15:10:00)
MVE9000-DVP6-APP	Version 5.21 (Mar.17.2006 15:08)
MVE9000-DVP7-BOOT	Version 2.20 (Mar.17.2006 15:10:00)
MVE9000-DVP7-APP	Version 5.21 (Mar.17.2006 15:08)
MVE9000-DVP8-BOOT	Version 2.20 (Mar.17.2006 15:10:00)
MVE9000-DVP8-APP	Version 5.21 (Mar.17.2006 15:08)

* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct.

The above list is the example of display when all optional boards are installed in the MVE-9000. If DVP board is not installed, information of the DVP board will not be displayed. Because the two types of software are required for a single DVP board, the number up to DVP-8 is used when the four DVP boards are used.

When the CPU-DT is installed as the CPU Module, -DT is added at the end of the software name.

DME (For BKDS-9470)

Software	Version
BKDS9470-MAIN-BOOT	Version 2.00 (Mar.17.2006 15:08:00)
BKDS9470-MAIN-APP	Version 5.21 (Mar.17.2006 15:19:00)
BKDS9470-COMM1-BOOT	Version 2.00 (Mar.17.2006 15:13:00)
BKDS9470-COMM1-APP	Version 5.21 (Mar.17.2006 15:13:00)
BKDS9470-COMM2-BOOT	Version 2.00 (Mar.17.2006 15:16:00)
BKDS9470-COMM2-APP	Version 5.21 (Mar.17.2006 15:16:00)
BKDS9470-DVP1-BOOT	Version 2.00 (Mar.17.2006 15:08:00)
BKDS9470-DVP1-APP	Version 5.21 (Mar.17.2006 15:06:00)
BKDS9470-DVP2-BOOT	Version 2.00 (Mar.17.2006 15:08:00)
BKDS9470-DVP2-APP	Version 5.21 (Mar.17.2006 15:06:00)

* The time and data that are displayed on the menu can be different from the above list. The time and date differences create no problem as far as the version number is correct. When the CPU-DT is installed as the CPU Module, -DT is added at the end of the software name.

4.10 Load the User Setup Data of the Switcher System and Write It in Flash Memory

- (1) Insert a memory card in which the User Setup Data is copied in step 4.1, into the memory card slot of the Control Panel.
- (2) Press the [File] button, [All] button and [External File] button in this order to display the "File" menu (Menu 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 is any other data that have been saved beforehand, press the corresponding buttons and select them.
- (4) Press the [Load] button and then press "Yes" in reply 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 following buttons in the order shown: ENG SETUP > System > Start Up to open the Start Up menu (Page 7314).
- (7) Move the cursor to PNL1 and press the [Setup Define] button. When the message prompting your confirmation appears, press "Yes".
- (8) Execute [Setup Define] in both of SWR1 and DME1.

4.11 Loading the Setup Data and Initialize Data of BZS-8050

- (1) When data was saved in a memory card in step 4.2, insert the memory card into the corresponding 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 by referring to (2), (3) and (4).

5. Compatibility with Previous Versions

The EDL, the Setup File and the Initialize File of the old version can be used in this version too.

Using the files of the old versions will not create any compatibility problem

6. Comment on Recovery Data

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

The recovery data are different depending on the respective versions. The following recovery data is provided for V5.21.

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 as required and use it.

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

7. All Clear of the Switcher using the DIP Switch

There can be a case that the switcher does not start up normally at the first startup after version upgrade of the switcher. Perform All Clear using the DIP switch with the following procedure.

- (1) Turn off the power.
- (2) Remove the CA-44/54 board and set the switch No. 4 of the front panel DIP switch (S101) to ON, and return the CA-44/54 board back to the original position.
- (3) Turn on the power.
- (4) Progress of the processing is displayed on the 7-segment LED of the CA-44/54 board.
(The count-down display is shown.)
- (5) Indication of “—“ is displayed on the 7-segment LED of the CA-44/54 board. (Processing ends.)
- (6) Turn off the power.
- (7) Remove the CA-44/54 board and set the switch No. 4 of the front panel DIP switch (S101) to OFF, and return the CA-44/54 board back to the original position.
- (8) Turn on the power.