

CG1200 System Software Update Package Instructions

Kontron Server System "**CG1200**"

Update Package Revision - **System Factory Build** (CG1200_SUP04)

Date: January 21, 2014

This update package includes the following system software updates:

- **System BIOS** - **02.02.0002**
- **ME Firmware** - **02.01.07.328**
- **BMC Firmware** - **01.20.5446**
- **FRUSDR** - **03**

Determine the current installed versions by going into the <F2> BIOS setup utility. Additionally, take note of any custom BIOS setup settings that may have been configured, these will be needed for step 17 below. Once noted, follow the update instructions below.

SYSTEM HARDWARE and SOFTWARE REQUIREMENTS

This SUP Package supports Alpha and Beta CG1200 Systems

The utilities used to update the System Firmware are:

- lflash32 11.0 build 8
- FWPIAUPD 11.0 build 6
- FRUSDR 11.0 build 9

IMPORTANT: Do not power off or reset the system while the update is in progress. Do not interrupt the BIOS POST during the first system reboot.

Standard Update Procedure from the Embedded EFI Shell

- 1) Uncompress the update package and copy the contents to a USB Disk-on-key device
- 2) Insert the USB flash drive into any of the USB Ports
- 3) Power up the system and boot to the EFI shell
- 4) Run the command "map -r" in EFI shell to mount USB disk on key
- 5) Run command "fs0:" to change active device to USB disk on key, USB key may also mount to fs1:. The number of "fs#" is dependent on the result of command "map -r"
- 6) Change directories to the folder storing the update package
- 7) Type in updALL.nsh at the shell prompt to initiate update of BIOS and all the firmware
- 8) When prompted in FRUSDR update, select the option to update only the SDR, or both FRU and SDR
- 9) Answer remaining FRUSDR update prompts as desired.
- 10) Provide input to additional prompts (updating specific FRU areas is optional – Yes or No)
- 11) When the FRUSDR update is complete, system will return to the EFI shell prompt
- 12) Type 'reset' at the EFI prompt to reset the system
- 13) System will power off for a few seconds then power back on
- 14) During POST, press <F2> to enter BIOS setup
- 15) In the BIOS Setup screens, verify the BIOS, ME, BMC and FRUSDR revisions loaded
- 16) Press <F9> and answer 'Yes' to load BIOS setup defaults
- 17) Configure desired BIOS settings
- 18) Save settings and reboot the system

Manual Update Procedure from the Embedded EFI Shell

If you want to individually update single components like BMC/BIOS/ME/FRUSDR, please go to the folder containing the update package and execute the specified scripts separately, and follow below update sequence to ensure trouble free update:

- 1) BMC firmware update “updBMC.nsh”
- 2) BIOS update “updBIOS.nsh”
- 3) Manageability Engine (ME) Firmware update “updME.nsh”
- 4) FRUSDR update “updFRUSDR.nsh”

Known Issues / Workaround

1. None

ADVISORY NOTE: After updating the BMC Firmware on your CG1200 system, please wait a full 3 minutes during the first system reboot after the update to allow for a possible Hot Swap Backplane firmware update to occur. Powering off or resetting the system during the first reboot after a BMC firmware update may corrupt the firmware on the hot swap backplane. If the firmware on the hot swap gets corrupted, there is no process to restore it. This is a known issue that will be corrected by the release of production hardware.

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*** BIOS Recovery Procedure ***

In the unlikely event the BIOS is corrupted leaving the system in an unbootable state, it may be necessary to perform the following BIOS Recovery procedure.

1. Copy the following BIOS update files to the root directory of a USB media device (Recovery Media):
 - IPMI.EFI
 - IFlash32.EFI
 - RML.ROM
 - ####REC.CAP (where #### = BIOS revision number)
 - STARTUP.NSH
2. Power OFF the system
3. Locate the BIOS Recovery Jumper on the server board and move the jumper block from pins 1-2 (default) to pins 2-3 (recovery setting)
4. Insert the recovery media into a USB port
5. Power ON the system
6. The system will automatically boot into the embedded EFI Shell
7. The STARTUP.NSH file automatically executes and initiates the flash update. When complete, the IFlash utility will display a message
8. Power OFF the system and return the BIOS Recovery jumper to its default position
9. Remove recovery media from the USB port
10. Power ON the system
11. Do *NOT* interrupt the BIOS POST during the first boot.