Kodak

Magnus VLF

TMCE to GMCE Upgrade Procedure

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Revision History

Revision	Date	Author	Comments
1	03 Nov, 2005	M.Joy/A.Blignaut	First draft release
2	15 Dec 2005	M.Zisman/ A.Blignaut	Updated and aligned with CR installer doc
3	11 Aug 2006	A.Blignaut	Removed network card setup information, replaced with a link to other procedure.
4	15 Nov 2007	A.Blignaut	Added parts information

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1. OVERVIEW

This document describes a high level procedure for installing and configuring all the different pieces of workstation hardware, software, and firmware required to upgrade a Magnus VLF with a TMCE board to a Magnus VLF with a GMCE board. This document is primarily aimed at a clean install, but should also work for upgrades.

This document assumes some familiarity with the different components—it is not intended to be a fully detailed step-by-step procedure.

2. REQUIREMENTS

In order to perform an upgrade, you will need the following:

- A Control Release 3.0 or higher CD
- A customer dongle (blue)
- A service dongle
- A device license (.xml file)
- A Prinergy Evo license (if you are installing Prinergy Evo)
- A network card (Intel Pro/1000 MT) or spare onboard Gigabit network adapter
- An ethernet cable (blue shielded cable)
- An optional USB cable for additional diagnostics

3. PARTS NEEDED

- GMCE board – 503-08443E or later
- Network card – 94-3221
- CAT 5E shielded ethernet cable – 216-00170

4. REFERENCE DOCUMENTS

- Controlled Release readme file (see the Control/settings page on TechPlanet)
- Controlled Release Installer (see the Control/settings page on TechPlanet)
- GMCE Intel Pro/1000 MT Server Adapter Installation, Configuration, and Testing (719-00735A)

5. BACKING UP THE NVS PARAMETERS

Before removing the TMCE board, get a binary and text backup of the NVS parameters—in particular the ram parameters. Controlled Release (CR) 3.0 or higher includes a utility to automatically migrate NVS parameters. See the *Controlled Release Installer* document.

If a text backup is not available, specifically note the value of the following parameters, as they are not part of the GMCE NVS file, and thus they will not be migrated:

- set debris
- set prd SerialNumber
- set prd CustomerName
- set prd CanBaud

6. UPGRADE PROCEDURE

6.1 Installing the Gigabit Ethernet Adapter

A Gigabit Ethernet adapter must be installed in the workstation, dedicated to GMCE communication. The recommended card is an Intel Pro/1000 MT (Intel Pro/1000 GT can also be used). The onboard adapter card on a Dell 2800 is also qualified for use. The recommended drivers can be found in the sub-directory **GBE_Drivers\Intel Pro 1000 MT Desktop Adapter**.

For details on installing and setting up the Ethernet adapter on the workstation, refer to the *GMCE Intel Pro/1000 MT Server Adapter Installation, Configuration, and Testing* document (719-00735A).

6.2 Installing the GMCE Board

1. Remove all connectors from the TMCE board.
2. Disconnect the SCSI ,workstation, and diagnostic cables.
3. Remove the TMCE board.
4. Install the GMCE board in its place.
5. Connect the connectors to the GMCE.
6. Install and connect the shielded Ethernet cable between the workstation and the GMCE.

6.2.1 Installing controlled release 3.0 or higher

Refer to the Controlled Release readme file and install the control release.

6.2.2 Converting the NVS backup

The product firmware installer includes a utility which can convert a NVS backup (RAM parameters) from a MCE (TMCE) board to a GMCE compatible NVS file. The parameters can be converted as follows:

1. Copy the MCE binary NVS RAM file (typically the filename ends with _**ram.nvsbin** and is stored in the **serviceshell\firmware** directory) to the product firmware directory. For example, **\Creo\Firmware\Magnus VLF GMCE 1.14.xx**.
2. Open a DOS command prompt and change to the above-mentioned product firmware directory.
3. Run the utility. The utility creates a **GMCENVS00.bin** file. You can type `>>nvsconvert` to display the help, or simply type `>>nvsconvert <MCE binary nvs RAM filename>` for the most common usage.
4. Copy the converted NVS file (for example, GMCENVS00.bin) to the **\Creo\Firmware** directory. Reset the GMCE. The bootp server will automatically pick up the new NVS values and download them to the GMCE board.

The following parameters are not part of the GMCE NVS file, and thus they will not be migrated. You must type them in manually based on the text backup from the original TMCE parameters:

- set debris
- set prd SerialNumber
- set prd CustomerName
- set prd CanBaud

7. APPENDIX A - USB ASCII DIAGNOSTIC CONNECTION

This section is an optional additional step and is only required for advanced debugging and troubleshooting purposes.

1. Install the bootp server (which will install the FTDI USB serial driver).
2. Connect the USB cable from the workstation to the GMCE board J69 (located below the ethernet connector). When Windows prompts you for the driver, direct it to the **FTDI_Driver** folder installed with the bootp server. For example, **\Creo\Firmware\GMCECore.V1.10\FTDI_Driver**. It will install the driver and may prompt you to reboot the workstation.

Note: It may install two drivers, but this is normal.

3. Determine which virtual COM port is being used for the USB port by looking in **Control Panel>System>Hardware Tab>Device Manager>Ports (COM & LPT)**. Set up this port in the Service Host GMCE configuration wizard, under GMCE System, Create serial port.

Note: This port disappears from your system if the GMCE USB serial cable is not plugged in. The driver can only be installed after you have connected to a GMCE board.