## GE Digital Energy

# **PMCS**

PMCS Power Management Control System integrated energy management solution

# Upgrade guide

PMCS software revision: 7.00 GE publication code: 1601-0277-A1 (GEK-119550)

GE Digital Energy 650 Markland Street Markham, Ontario Canada L6C 0M1 Tel: +1 905 927 7070 Fax: +1 905 927 5098 Internet: <u>http://www.GEDigitalEnergy.com</u>



Copyright © 2013 GE Multilin Inc. All rights reserved.

Power Management Control System (PMCS) software revision 7.00.

EnerVista, Integrator, POWER LEADER, Digital Energy, Multilin, and GE Multilin are trademarks or registered trademarks of GE Multilin Inc.

The contents of this manual are the property of GE Multilin Inc. This documentation is furnished on license and may not be reproduced in whole or in part without the permission of GE Multilin. The manual is for informational use only and is subject to change without notice.

Part number: 1601-0277-A1 (May 2013)

### Steps to upgrade PMCS 6.3x to PMCS 7.0

This document provides the steps to upgrade version 6.3x of PMCS to version 7.0. Upgrading an older version is not supported directly and has to be done manually. PMCS 7.0 requires Cimplicity 8.2 SIM 4 as a minimum requirement, which can require uninstallation of any previous versions of Cimplicity from the system. See the PMCS 7.0 system requirements before doing the upgrade.

#### Risks

- All the events stored in database will be lost.
- You will be required to PCGuard license the servers. For PCGuard licensing steps, see the "Licensing" section in the online help file (**PMCSConfigurator.chm** file; place it on the computer desktop).
- Old PowerBuilder utility will not work after upgrade.
- No changes will be possible on any existing Cimplicity projects.
- Cimplicity 8.1 SP7 version license will not work for PMCS 7.0 as PMCS 7.0 is supported with Cimplicity 8.2 SIM
  4. User has to buy a new license for Cimplicity 8.2 with SIM 4.
- System cannot be restored to previous version of PMCS. It is advisable to create an image of the existing system before upgrade.
- Uninstalling PMCS 7.0 will remove all the Server and Cimplicity components. No restoration to PMCS 6.3x is possible in this case.

| PMCS      | Cimplicity version supported | OS version supported                  |
|-----------|------------------------------|---------------------------------------|
| PMCS 6.3x | Cimplicity 8.1 SP7           | Windows XP SP3 (32 bit)               |
|           |                              | Windows 2003 Server R2 (32 bit)       |
|           |                              | Windows 7 (32 bit)                    |
|           |                              | Windows 2008 Server SP2 (32 bit)      |
| PMCS 7.0  | Cimplicity 8.2 with SIM 4    | Windows 7 Professional (64 bit)       |
|           |                              | Windows 2008 Server Standard (64 bit) |

#### **Uninstall PMCS 6.3x**

• Stop all the PMCS Servers using the EnerVista Tray Tool, which is available in the System Tray in the right bottom corner of the computer screen. Client applications and Cimplicity Projects can be directly closed using their respective user interfaces.

| EnerVista_system status |                 |        |         |        |  |
|-------------------------|-----------------|--------|---------|--------|--|
| Show                    | Application     | Status | State   | Action |  |
|                         | Configurator    |        | Running | Close  |  |
| Show                    | ModRTU Server   |        | Running | Close  |  |
| Show                    | ModTCPIP Server |        | Running | Close  |  |
| Show                    | Waveform Server |        | Running | Close  |  |
| Hide                    | Event Server    |        | Running | Close  |  |
|                         | Min             | imize  |         |        |  |

• If there is any issue in closing the Server and Client applications, try using the **Windows Task Manager** > **Processes** tab to end the processes outlined in the table.

| Application name    | Process name        |
|---------------------|---------------------|
| PMCS Configurator   | Configurator.exe    |
| GE32MODB Server     | GE32MODB.exe        |
| GE32MTCP Server     | GE32MTCP.exe        |
| Event Server        | EventServer.exe     |
| Waveform Server     | WFServer.exe        |
| Event Viewer        | Eventlog.exe        |
| Waveform Client     | WFC.exe             |
| Waveform Viewer     | Waveformviewer.exe  |
| EnerVista Tray Tool | EnervistaStatus.exe |

| 📮 Windows Task Manager        |  |             |            | _           |   |
|-------------------------------|--|-------------|------------|-------------|---|
| Eile                          | Options <u>V</u> iew <u>H</u> elp                            |             |            |             |   |
| Ap                            | plications Processes   | Performance | Networking |             |   |
|                               |  |             |            |             | 1 |
|                               | Image Name   | User Name   | CPU        | Mem Usage   |   |
|                               | CimProxy.exe   | SYSTEM      | 00         | 7,180 K     |   |
|                               | Configurator.exe   | 320003174   | 00         | 18,924 K    |   |
|                               | connect.exe  | 320003174   | 00         | 19,432 K    |   |
|                               | CSAMPmux.exe   | SYSTEM      | 00         | 8,576 K     |   |
|                               | csrss.exe  | SYSTEM      | 00         | 14,192 K    |   |
|                               | ctfmon.exe   | 320003174   | 00         | 4,504 K     |   |
|                               | dsAccessService.exe  | SYSTEM      | 00         | 4,936 K     |   |
|                               | dsEES.exe  | SYSTEM      | 00         | 6,700 K     |   |
|                               | dsNcService.exe  | SYSTEM      | 00         | 3,796 K     |   |
|                               | EnervistaStatus.exe  | 320003174   | 00         | 1,688 K     |   |
|                               | EventServer.exe  | 320003174   | 00         | 11,644 K    |   |
|                               | explorer.exe   | 320003174   | 00         | 150,888 K   |   |
|                               | FireSvc.exe  | SYSTEM      | 00         | 8,116 K     |   |
|                               | FrameworkService.exe   | SYSTEM      | 00         | 836 K       |   |
|                               | GE32MODB.exe   | 320003174   | 00         | 34,536 K    |   |
|                               | GE32MTCP.exe   | 320003174   | 00         | 34,876 K    |   |
|                               | hasplms.exe  | SYSTEM      | 00         | 16,928 K    |   |
|                               | hkcmd.exe  | 320003174   | 00         | 4,320 K     |   |
|                               | hqtray.exe   | 320003174   | 00         | 10,612 K    | - |
| Show processes from all users |  |             |            | End Process |   |
| Proc                          | Processes: 114 CPU Usage: 4% Commit Charge: 2514M / 6930M // |             |            |             |   |

- Backups required
  - Create a backup copy of the entire GE\_PMCS folder, for example GE\_PMCS\_6xx.
  - Create a backup of the following registry keys using the Microsoft Registry Editor (regedit.exe; see the **Using Regedit** section later in this document).
    - "Connected Devices" & "Device Settings" under HKEY\_LOCAL\_MACHINE\SOFTWARE\GE\PMCS\6.0\WFServer
    - DEVICESETTING & DEVICENAMES under

HKEY\_LOCAL\_MACHINE\SOFTWARE\GE\PMCS\6.0\EventLogger

- Create a backup copy of the **Cimplicity\HMI\PMCS** folder.
- Create a backup of the CimPMCSWzrd.dll file found in the Cimplicity\HMI\EXE folder.
- Create a backup of all your projects.
- Ensure that the old GE\_PMCS folder is not present. In case it is still there after uninstallation, delete the folder.
- Make sure that the old registry HKEY\_LOCAL\_MACHINE\SOFTWARE\GE\PMCS is removed after PMCS 6.3x uninstallation. In case it is still there after uninstallation, delete the registry.
- Uninstall the older version of PMCS, as shown in the following figure.

| 🐻 Add or Ren                       | nove Programs  |                          |               |          |
|------------------------------------|--|--------------------------|---------------|----------|
| 5                                  | Currently installed programs:                            | Show up <u>d</u> ates    | Sort by: Name | •        |
| C <u>h</u> ange or<br>Remove       | 15 PC Into   |                          | Size          | 1.25MB 🔺 |
| Programs                           | 👋 PDF24 Creator 2.9.1                                    |                          | Size          | 35.43MB  |
| <b>1</b>                           | 🛃 PKZip 50   |                          |               |          |
|                                    | 🔀 PKZip Shared Components 5.0                            |                          |               |          |
| Programs                           | K PMC5630  |                          |               |          |
| <b></b>                            | Click here for support information.                      |                          |               |          |
|                                    | To change this program or remove it from your compute    | er, click Change/Remove. | Chang         | e/Remove |
| <u>W</u> indows                    | 🔀 Proficy Change Management Client API                   |                          | Size          | 7.52MB   |
| Components                         | 🔀 Proficy Driver Server                                  |                          | Size          | 19.38MB  |
|                                    | 🔂 Proficy Historian                                      |                          | Size          | 53.09MB  |
| Set Pr <u>og</u> ram<br>Access and | 🔀 Proficy HMI/SCADA - CIMPLICITY                         |                          | Size          | 430.00MB |
| Defaults                           | 🔀 Proficy Task List                                      |                          | Size          | 30.27MB  |
|                                    | Proficy Workflow (Host Only)                             |                          | Size          | 14.55MB  |
|                                    | Proficy Workflow Task List                               |                          | Size          | 41.31MB  |
|                                    | 🔂 RoboHelp Office X4.1                                   |                          |               |          |
|                                    | 🛃 Silicon Laboratories CP210x USB to UART Bridge (Driver | Removal)                 |               |          |
|                                    | 🔁 SolarWinds TFTP Server                                 |                          | Size          | 16.38MB  |
|                                    | 🔀 Sophos Antivirus                                       |                          | Size          | 303.00MB |
|                                    | SoundMAX   |                          | Size          | 0 18MB   |

#### Install PMCS 7.0

Install PMCS 7.0 as outlined in the **Installation** section in the PMCS Quickstart Guide (**PMCS\_quickstart\_guide.pdf**).

#### After PMCS 7.0 installation

- Copy the backed up **PMCS** folder from the **Cimplicity\HMI** folder to the **Program Files\Proficy\Cimplicity** folder.
- Copy the CimPMCSWzrd.dll to the Program Files\Proficy\Proficy Cimplicity\Exe folder and register it using regsvr32.



Once the registration is successful, following message displays. Click the **OK** button to close the message.



- Do the following to restore all your devices in GE32MODB and GE32MTCP servers.
  - Copy the Generic.CFG file from the PMCS 6.3x backup GE32MTCP & Server folder to the PMCS 7.0 GE\_PMCS folders (in case there were generic devices added)
  - Copy the Topic.CFG file from the PMCS 6.3xx backup GE32MTCP & Server folder to the PMCS 7.0 GE\_PMCS folders
- Restore the events and waveform registry data backed up earlier using regedit.

### **Using Regedit**

In order to copy any key, do the following:

- Double-click the key, for example DEVICESETTNG
- This displays a dialog with the Key Name and value
- Copy the value and save it for future reference

| 🚮 Registry Editor   |                            |                        |                 |  |  |  |
|---|----------------------------|------------------------|-----------------|--|--|--|
| File Edit View Favorites Help                                   |                            |                        |                 |  |  |  |
| 📮 🔁 🖬 💻   | Name                       | Туре                   | Data 🔺          |  |  |  |
| 🕀 🧰 enerVista INTEGRATOR  | ConfigPanel                | REG_DWORD              | 0x000001f4 (500 |  |  |  |
| E PMCS  | BBEvents                   | REG_DWORD              | 0x00000064 (10( |  |  |  |
| ⊡… 🧰 6.0  | Demo                       | REG_DWORD              | 0x00000000 (0)  |  |  |  |
|   |                            | REG_SZ                 | SR350_Test 0 ,M |  |  |  |
| ⊡ DataBase  |                            | REG_SZ                 | GE32MODB,Test   |  |  |  |
|   | a DEVICETYPES              | REG_SZ                 | ECM EMVTC EMV   |  |  |  |
|   | a ExitDisable              | REG_SZ                 | Disable         |  |  |  |
| WEClient  | 👪 GlobalQSize              | REG_DWORD              | 0x00002710 (100 |  |  |  |
|   | Edit String                |                        | ?×              |  |  |  |
| ⊕ · 🚞 GE Fanuc  | Value name:                |                        |                 |  |  |  |
|   |                            |                        | [ ]/            |  |  |  |
| E GE Fanuc Intelligent Platfor                                  | JDEVICESETTING             |                        |                 |  |  |  |
| GE Fanuc Software, Inc. Value data:                             |                            |                        |                 |  |  |  |
| GE Industrial Systems   | SB350, Test SB350.0, MLPOM | Test MI POMILO, MI 750 | Test ML750.0    |  |  |  |
|   |                            |                        |                 |  |  |  |
|   |                            | OK                     | Cancel ,        |  |  |  |
|   |                            |                        |                 |  |  |  |
| GECORELOAD  | ablurstatus                |                        | Hido            |  |  |  |
|   |                            | KEG_32                 |                 |  |  |  |
|   |                            |                        |                 |  |  |  |
| My Computer\HKEY_LOCAL_MACHINE\SOFTWARE\GE\PMCS\6.0\EventLogger |                            |                        |                 |  |  |  |