SAIA PG5 Service Pack
Release Notes

This is a list of all fixes and changes in V1.4 service packs since the official release. TrackGear report numbers are shown in brackets.

Changes in V 1.4.300

New program: 'Device Configurator'
This version of PG5 is already installed with the brand-new 'Device Configurator' program. It presents the 'Hardware Settings' configuration parameters with a new man-machine interface and additional services: configuration of input/output modules, checks the power consumption of the input/output modules on the automaton's internal power supply, prints labels to be stuck on the I/O modules of the PCD3.

By default, this version of PG5 continues to offer configuration of the automaton's parameters by means of the classic 'Hardware Settings' program. In order to use the new 'Device Configurator' with a CPU already existing in the project, select the 'Hardware Settings' icon of the Project Manager then activate the 'Use Device Configurator' context menu. Editing the 'Hardware Settings' parameter subsequently calls on the new 'Device Configurator'. Repeat the same action in order to select the original editor.

It is also possible to define whether the addition of a new CPU in the projects must make use of the new 'Device Configurator' or the classic 'Hardware Settings'. The option is available by means of the 'Tools, Options' menu of the 'Project Manager'. See under 'General, Defaults Settings for new CPUs'.

Notes:

It is mandatory to use the 'Device Configurator' for configuration of the new compact PCD3s, PCD3.M2030V6, PCD3.M2130V6.

The 'I/O Handling' functionality (media mapping of inputs/outputs) is only supported on systems PCD3, PCD2. M5440 and PCD2. M5540 equipped with firmware 1.08.00 or more recent.

The 'Device Configurator' no longer supports automatons PCD4 and PCD6, use the classic 'Hardware Settings'.

The next version of PG5 2.0 will no longer support the classic 'Hardware Settings', but only the 'Device Configurator'.

Backup of the project or the CPU in a Flash memory on the PCD.

The new SPM commands 'Online, Flash Memory, Backup File to Flash' and 'Online, Flash Memory, Restore Backup File from Flash' enable the backup/restoration of all source files of the project or CPU to / from a '.zip' file existing on the external Flash memory (PCD7.R550, PCD7.R600, etc.) of the automaton.

Works like the 'Project, Backup' command but makes use of the new FTP downloader in order to read/write the Flash memory.

'Online, Flash Memory, Backup File to Flash'
Starts by displaying the same dialogue as for the 'Project, Backup' command, selecting the 'OK' button compresses the source files of the project or CPU in a '.zip' file then displays the FTP downloader dialogue.

'Online, Flash Memory, Restore Backup File from Flash'
Works as for the command described above but starts by displaying the FTP downloader dialogue, selecting the 'OK' button then displays the dialogue corresponding to the 'Project, Restore' command.

‘Online, Flash Memory, Flash Explorer’
Enables display of the files existing in the memory of the PCD and their deletion.

Notes:
For the moment the FTP downloader only functions for the Ethernet network.

The ‘FTP downloader’ functionality is only supported on systems PCD3, PCD2. M5440, PCD2. M5540 and PCD2.M480 equipped with the latest firmware.

Fupla template import
Supports the import of several copies of a Fupla template with a single import command.
The template dialogue features new selections for parameterizing the number of copies, the index and symbol address.

‘Page Properties, Copies Number’
Indicates the number of copies of the template to be imported into the Fupla file.

‘Page Properties, Base index ’
Indicates the base index value which the user is free to use in order to redefine the imported symbols.

The index may be placed in the names of groups, of symbols, addresses and comments with the character ‘%’. This character is automatically replaced on import by the base index and will be incremented by one unit for each additional copy of the template.

It is possible to use the index in order to define the arithmetical expressions thus making it possible to redefine the symbol addresses. The arithmetical expressions are only evaluated if they are inside the parentheses ‘ {}‘

Example :
Copies Number = 3
Base index =0

Template import dialogue :

Group	Symbol	Type	Address	Comment
Heating%				
	Alarm1	F	{100+(%*3)}	Comment alarm%.1
	Alarm2	F	{101+(%*3)}	Comment alarm%.2
	Alarm3	F	{102+(%*3)}	Comment alarm%.3

Result in the symbols editor:

Heating0	GROUP		
Alarm1	F	100	Comment alarm0.1
Alarm2	F	101	Comment alarm0.2
Alarm3	F	102	Comment alarm0.3
Heating1	GROUP		
Alarm1	F	103	Comment alarm1.1
Alarm2	F	104	Comment alarm1.2
Alarm3	F	105	Comment alarm1.3
Heating2	GROUP		
Alarm1	F	106	Comment alarm2.1
Alarm2	F	107	Comment alarm2.2
Alarm3	F	108	Comment alarm2.3

Other small corrections
New Configurator Bacnet version
New HMI Editor version
New fboxes libraries version: EIB, Dali, Modem, HVC, Belimo, SfupBase
New Fboxes libraries: Email, File System

Web Editor
New version 5.013.00, see release notes

Manual S- Web-Editor 26/838 E3 in .pdf format : 26_838_PE1_Web-Editor.pdf
From now on, the online help is available in .pdf format !
The .pdf file can be printed (126 pages). A table of contents allows finding easily topics and pages.

Changes in V 1.4.200

PG5
This service pack PG5 SP 1.4.200 is created all especially to support the new PCD products and use this opportunity to distribute the new Fupla Fboxes, IL FBs, the new version of Web Editor, the new Web connect and the last available small corrections.

This PG5 version support fully the new PCD hardware PCS1.C4xx.

But the PCD3.M2030V6 and PCD3M21V6 are only supported with the Device Configurator distributed with an other setup available on ask by your representation.

The Fboxes libraries offer now some new Fboxes:
- Analog, PCD2.W525
- EIB driver with protocol FT1.2
- Communication, S-Bus Station IP Indirect
- Modem, Incoming Call Extended
- Energie, H104S settings and H104S read

The FB libraries offer now some new FBs:
- PCD2/3.W3x5
- PCD2/3.W6x5
- PCD2/3.W800

And the next small corrections are now available for all users:
- TG 215: Fupla Fbox with a binary inverter on the output was not display the correct state with the probe.
- TG 270: Fupla was make a crash when the paste structure touches the right border of Fupla page.
- TG 203: fix a Watch Window crash.
- TG 205: Watch Window Toggle button works better for symbols in Fupla editor.
- TG 211: fix a Graftec crash when the docking windows use all the window.
- TG 250: fix a Graftec crash when Graftec we change the default settings of View/Options/Symbol Naming/ST_TR Offset
- TG 252: fix a crash with the SIO configurator
- TG 263: the PCD hardware setting “Reset output enable and XOB 1 enable “ no more disappears from Hardware settings
- TG 268: the demo PG5 license now support the Web editor for 90 days too

Web Editor
See release notes

HMI editor 1.4.210
Main features

1) - PCD7.D290 and D23x: correction of bugs regarding communication in single, multi-points and bus topologies.
2) - Edition of Multi root menu in Bus or Multipoint technologies by checking the checkbox “Multiple standby Menu” (see manual page 28)
3) - Character set list for D23x extended as follow.

- West European
- Baltic
- Central European
- New Greek
- Russian
- Scandinavian
- Turkish

needs appropriate FW in D23x since FW version 040. (see manual page 67).

Windows platform
The HMI-Editor must be installed on a Windows platform using the characters set which will be displayed on the terminal.

☝ To display the right text with the right codepage in the treeview menu of the HMI-editor, it is necessary to adapt the codepage in the windows registry like:
1252=c_1250.nls
1252=c_1251.nls
1252=c_1253.nls
1252=c_1254.nls.
1252=c_1257.nls
In order to change automatically the right Codepage, we put at the disposal two tools:
one to force it and one to restore it.
HMI_Force_ANSI.exe
HMI_Restore_ANSI.exe
Both are disposable on the CDROM under CD:\PG5\Windows\HMI_registry tools

The force tools looks at the current ANSI code page setting (ACP in the registry) and forces the parallel western European 1252 Code page use to the corresponding ANSI page setting. As the HMI works with parallel 1252 code page use it will take the current one instead correctly.

PCD7.D23x since FW version 040.
To display Cyrillic, Czech, Greek, Hungarian, Polish, … characters on the PCD7.D23x terminal, you will select, in the setup menu of the .D23x terminal, the right character set.

New Web –Connect

- New web interface.
- Caching of files.
- Faster S-Bus data transfer.
- HTTP-Direct connection.
- xx7 USB connection no longer requires VSP.
- SComm only required for Modem S-Bus and USB S-Bus connections.
- Importing of station data from CE Web-Connect and Web-Connect version < 2.0

Changes in SP1.4.130

New Web Editor and Fboxes version: Web Editor V 5.10.00 , HDlog and SWA Alarming Fbox library V 1.3.000

New HMI-Editor version: HMI editor V $1.4.190 and library $1.4.190
This $ version releases the HMI-Editor supporting the new PCD7.D290 room control panel only in Single topology:
- Communication between one PCD (or PCS1) and one PCD7.D290

- Protocol RS 232 or RS 232 RTS/CTS
- The PCD7.D290 panel displays text and Icons (Static or dynamic), temperature and humidity values.
- The HMI-Editor controls LEDs and Buzzer.
- Communication Baud rate: 4800, 9600, 19200 bit/sec.

“Single terminal” topology is the only possible selection in the HMI-Editor (no possibility to select Multipoint or Bus topology).

Solve the HMI editor have trouble "Run-time error 35600 Index out of bound " when opening the HMI editor, Was windows dependant of the window fonts.

The Fboxes helps files for Belimo and Room Controller have be completed with the last features descriptions.

Fix the trouble when uploading/downloading DBs from old CPU PCD4.M140 FW 002

Download Bues program no more display the alarm ‘’The connected s-Bus station number is not the same then as the CPU hardware settings. You may be connected to the wrong PCD.’’

When cancelling the operation "Erasing flash", the PCD is now reset properly. The program stays on top after the download if finished.

This version can configure PCD3 memory configuration with 256 KB memory

Fix the Graftec TG 230: modified sequence navigator window to decrease the drawind details it cause better visibility if the structure is too big

Fix the TG 216: fixed the delete function in the macro step

New Fbox builder version SP 1.4.134

Changes in SP1.4.120

The PG5 hardware settings for PCD3 CPUs allows to configure a bigger memory size. Note, this memory extension is only supported with the PCD3 hardware version D and a newer firmware version than 024. PCD3.M5/M6 offers 1024 Kbytes memory and PCD3.M3230/3330 512 Kbytes.

The PG5 hardware settings and Fupla communication Fboxes support new communication modules PCD3.F210 and PCD3.F221 to plug on the PCD3 input/outputs slots 0, 1, 2, 3 . The channels addresses are 100, 101, 110, 111, 120,121, 130 and 131. Note these new communication modules are only supported with the PCD3 hardware version D and a newer firmware version than 024.

PG5 hardware settings, new 'Hardware Settings Memory page' for PCD3 CPUs, we show the RAM and Flash memory allocations on the same layout. The flash backup memory can be shared between the user data and program backup.

Symbols defined from external tools can be automatically imported into PG5 symbol editor. To support this new feature, use the project manager menu “CPU, Add” and browse to the symbols files .rxp, .xls or .sy5, then select theses files in the folder “program files” and use the context menu “Properties” to link the symbol file.

The hardwares settings support the new PCD3.M5340 OEM and new modem G736-AS2

Firmware downloader support the new firmware download assistant for PCD3 CPUs

Changes in SP1.4.110

Project Manager

- Add-on tools now support <$Prompt> and <$Browse>, but they are undocumented.

- Will not open a project from later version of PG5 (e.g. V1.4 will not open a V2.0 project. Warns the user that files will be converted if a project created by an older version of the PG5 is opened. (Normally 'Project / Import' should be used to import old V1.3 projects.)
- 'Project/Import', 'CPU/Import' and 'Project/Restore' now convert old V1.3 format Fupla files to the new V1.4 format. Fupla does not convert old files during the build, only on 'File/Save', and the user is always warned that file formats will be converted. Fupla converts to the new format only when the file is saved, and it copies the old files to '.oldfup' and '.oldsy5' in the Backups directory.
- OBJ and OBL files can be put in the Project Tree and linked with the project (TG 7)
- New menu "Project / Import..." command imports an entire project from another location and copies it into the current Projects directory. Fupla files are converted to the new format.
- Removed dialog box 'Global symbols have been edited. Do you want to rebuild the entire program?'. If global symbols have been edited, the entire program is now always rebuilt without asking.
- Now cannot open projects created by an old version of the PG5 which are still in the old project directory if the old version is still installed. The project should be imported. (Files may be updated to the new format and then won't open with the old version.)
- Created an invalid symbol when TCP/IP settings from a PCD2.M480 with a second IP module were imported. Corrected system symbols for 2nd IP module. These could cause invalid symbol or multi-defined symbol errors for "S.PRJ.xxx" symbols.
- For the restore project destination, SPM used the project directory of the open project. This has been changed so that it always uses the current projects directory by default, but the user can change it manually. (TG 52)
- Software protection: If "Web Editor Adv" is allowed, then the normal "Web Editor" is also allowed.
- Always puts BuES Station 2 into Run after a successful download, like Station 1.
- '.mba' and '.equ' files can now be opened with S-Edit, as with V1.3.
- Short delay after copy to flash so PCD does not NAK the Run command if "Backup to Flash" and "Run program after download" options are both set.

IL Editor

- Renaming a global symbol in symbol editor was not change the name in any modules that also have a local symbol defined with the same name.
- Now has a selectable font for the IL document. New "Options / Font" page.
- Reference Window is now updated when document changed if Symbol Editor is hidden.
- Removed the dialog box 'Save modified global symbols?' when a build is done, SPM will ask to 'save changed files', so we don't need it.

Symbol Editor

- Changes to type/value of global symbol do not cause corruption of Graftec files. (TG 68)

Fupla Editor

- Help now works for Advanced page properties (TG 30)
- Move Up/down FBox-Ladder Connection does not lose connections (TG 45)
- To modify a Fupla symbol with a bad address range no more crash SPM (TG 46)
- Fix the crash when FBox moved too close to the vertical line (TG 53)
- Move a symbol from a connector with an inverter does not crash Fupla
- Change letters from uppercase to lowercase does not hang (TG 29)
- Fix the build error caused by the line labels
- Load or save Template/Favorites displayed a wrong files of type list in the dialog.
- Use template always insert the page before the selected one
- Page Navigator is refreshed after to use template and displays the page name
- FBox navigator Template page no more caused crash when it was undocked (TG 6)
- The symbol font and selected connectors had the same colors. The symbol was not visible. (TG 61)
- Move integer symbol to a binary connectors does not lose the symbol (TG 62)
- Doesn't lose the connection when FBoxes are moved too close to the connector (TG 66)
- Lost connections when resized page (TG 72)
- Importing big '.rxp' files works quicker

Fbox library

SfupAnlg_SP25110.exe fix the build error "Old Fbox not anymore supported" with the analog Fboxes
Heavac_SP25110.exe fix the trouble with the HVC clock and summer time.

Graftec Editor

- Fix some troubles with global symbols (TG 34)
- Block navigator now is refreshed (TG 37)
- Can now add new ST/TR with global symbols (TG 38)
- Fix the crash when you change the folder name which contains the projects (TG 39)
- When open a read-only Graftec file, the Symbol Editor is read only (TG 42)

SQL-Editor

- Fix the problem when importing BuES FBoxes with the new Fupla file format.

Manuals

- The installation guides PG5 F,D,E,I have been updated
- The Italian user guide is now updated
- The installation guides have be update with the web editor installation

Watch Window

- Fix the crash when we open empty Watch Window files with the old format PG5 1.3
- Support the array syntax symbolname[1..9] (TG 2)
- Drag & drop symbols from IL editor to the Watch Window does not remove the symbol from the IL code (TG 23)
- Added Watch Window features to set, reset a binary state (TG 64)
- Drag & drop symbols to a new Watch Window file does not display the error message: Symbol not found (TG 59)

WEB-Connect

- The 'Web Connect' installer now checks if the PG5 is already installed.

Stand alone online tools

- Sload5, the command-line up/downloader, now configures the Registry settings if the tools were not installed with the installed program (e.g. they were just copied onto the target PC). This did not create the registry entries, and some operations did not work.
- Now installs the USB driver.

PG5 installer

- Installshield now installs the new file 'FileSystem.inc' and 'ApplicationLib.inc' into the APP library

S-Asm

- Corrected invalid build error: "Error 395: Local and global symbols have same name but different type/value" (TG31)
- Corrected problem with large VisiPlus program which caused an internal error "save_expr" (expression stack overflow).
- No "missing operand" errors in Graftec modules if the IST symbols used with the RSB instruction are external. S-Asm did not know their type and give an error by mistake. (TG41)