

Changes to PSS SW PG

Item No. 19 788



Version 3.1 → Version 4.0

- SafetyBUS p
With Version 4.0 of the programming device you can now generate SafetyBUS p projects.
- New modules can be selected in the FS configurator
The following modules can now be selected in the hardware registry for a modular PSS:
 - PSS(1) DI2O T
 - PSS(1) DI2O Z
 - PSS(1) AI U5I1
- Print comparison of two projects
Version 4.0 of the system software now allows you to print out the comparison of two projects.
A list is printed showing all the blocks in which the projects differ. The exact differences between the blocks are also printed.
The function "Print comparison of 2 projects" can be selected from the "Documentation" menu.
- Length of project name
The length of the project name is restricted to 8 characters even under Windows 98 and NT. Names of directories in the project path may however be longer than 8 characters.
Example:
c:\Safety_system_1\Project

/

/

/

Directory name

Project name

The total length of the project path in Version 4.0 may now be 130 characters.

Version 4.0 → Version 4.1

- Starting and stopping the FS section with the programming device
The FS section of the safety system can now be started and stopped via a command from the programming device.
Please refer to the section entitled "Start/stop PSS" in Chapter 10 of the Programming Device manual (Item No. 93060).
- No distinction between upper and lower case on passwords
A distinction is no longer made between upper and lower case when passwords are entered.

- **New SafetyBUS p module**
The new PSS SB DI16 module can be configured as an I/O-Device in the FS configurator.
- **Amended procedure for configuring the PSS SB DI8O8**
Procedure for configuring test pulses and outputs on the PSS SB DI8O8 module has been changed.
OLD: Highlight module in bus overview window, press F7 and select "Test pulses/outputs".
NEW: Highlight module in bus overview window, press RETURN; a dialogue box will appear. Highlight the line "Test pulses" or "Outputs" and press the RETURN key again.
- **Configuration data block for SafetyBUS p**
Only data blocks DB 020 to DB 250 may now be used as the configuration data block for SafetyBUS p. DB 010 to DB 019 are reserved for Pilz standard function blocks. If you have created a project using PSS SW PG Version 4.0 and used DB 010 to DB 019 as the configuration data block, this configuration will still be accepted by PSS SW PG Version 4.1.
- **Analogue module PSS(1) AI U5I1**
This module can now also be configured in conjunction with the PSS(1) SF CPU (from Version 1.2).

Version 4.1 → Version 4.2

- **Alarm configuration on SafetyBUS p**
With Version 4.2 of the programming device, alarms can be configured on I/O-Devices.
- **Address allocation on SafetyBUS p**
Bus subscribers can be allocated a device address using the new online function "Set device address". This function is particularly intended for bus subscribers without a physical address setting mechanism.
- **Router correction time on SafetyBUS p**
A router correction time can now be entered in the Management Device dialogue box. A value must be entered if routers are being used on the bus system.
- **Links**
FS-Projects which contain an error can no longer be linked. It will only be possible to link the project once the error has been fully rectified.
- **PSS SB 3006 DP-S**
The new PSS SB 3006 DP-S can be configured.

Version 4.2 → Version 4.4

- PSS 3046
The new PSS 3046 can be configured.
- PSS (1) CPU2
The new PSS (1) CPU2 can be configured.
- PSS (1) SB Bridge
The new PSS (1) SB Bridge can be configured.
- SafetyBUS p configuration
The SafetyBUS p configuration can be documented in an HTML file.
- Default settings
Under "Project" - "Default settings" - "Colors", the "Restore colors from delivery version" function has been added to enable you to restore the default colours.
- Create and save blocks
Faulty blocks can be saved, after a prompt.
- Error stack display
The format of the error stack display has changed.

Version 4.4 → Version 4.5

- Versions
Of the two versions of the system software, one version is now for MS-DOS (also MS-DOS under Windows 3.1) and the other version is for Windows 95/98/ME/2000/NT 4.0.
- Rewiring
Operands are no longer changed (rewired) in the allocation table but in a special editor. This is easier to use and provides better options for fault analysis.
- Allocation table
There is now just one allocation table. There are no longer separate allocation tables for blocks.
- Cross reference list
It is now also possible to search for constants and instructions in the cross reference list.
- SafetyBUS p
 - Theoretical bus load analysis for determining the cycle timeout and event timeout
 - User texts for each device
- Copying texts
Clipboard texts copied from other programs can now be inserted, for example in the allocation table or as comments in blocks.

- Window size
Three different sizes can now be set for the window showing the system software: 80 characters x 25 lines (as previously), 80 characters x 43 lines and 80 characters x 50 lines.
- Header/footer
It is now possible to import the header/footer from other projects.
- Error stack
The error stack display is updated every 10 s.
- Dynamic program display
Tags are now displayed until the space is required for status display. In LAD, the window can be blended in and out with the status display.
- Cursor
The line cursor has been replaced by a cursor that is also easy to see on Notebooks.
- Errors that have been rectified
 - SafetyBUS p, alarm configuration
Individual alarms can now be deleted again (highlight alarm and press Delete).
 - SafetyBUS p, set Device Address
In online mode, the "Set device address" option is available again under "SafetyBUS p".
 - SafetyBUS p, displaying stopped I/O-Groups
Stopped I/O-Groups are now displayed correctly in online mode.
 - LAD, dynamic program display
Current flow is now displayed correctly.
 - LAD, block editor
When the display limits in LAD are reached, the system automatically switches to STL.
 - LAD, block editor
System no longer crashes if the cursor is moved beyond the block end.
 - Online mode
In online mode, an error no longer occurs if the TAB key is used to switch between windows.

Version 4.5 → Version 4.7

- Allocation table
When copying texts from the clipboard to the allocation table, the allocation table editor controls whether the max. permitted number of positions for the tag (14 positions) and the long text (40 positions) is maintained. If tag and long text are too long, they will be cut.

- Errors that have been rectified
 - SafetyBUS p
Communication of LDs via virtual I/ODs is available again.
 - Data block editor
Entries in the "Content" column in of the data block editor are displayed again.
 - PSS SB 3006 Series
Peripheral access to the control inputs is now available.
 - Error texts
Errors are now displayed with corresponding error texts.



NOTICE

If you used version 4.5 of the system software to create a SafetyBUS p-configuration that includes several LDs with virtual I/ODs, you need to delete and reconfigure all LDs in version 4.7 before you link the project and transfer it to the PSS.

Version 4.7 → Version 4.8

- KUKA Robot in SafetyBUS p
The "KUKA Robot" device of "LP Elektronik GmbH" can be added to SafetyBUS p. The default setting is as follows:

Name	Server Class Number	Instance	Item
RB Base	0x4002	0	0
DI16AB	0x0025	2	1
DO4AB	0x0029	8	1

See also the "SafetyBUS p – Codes" documentation of SafetyBUS p Club International e. V.

- PSS SB BRIDGE
In the device address for a PSS SB BRIDGE, the codes for section A and section B are now displayed correctly ("xx.A" and "xx.B", not just "xx.B" and "xx.B").
- Block editor
When copying networks with "BE" at the end of the network, the "BE" will no longer be copied. This is to avoid problems that used to occur when pasting the copy into a different block.

Version 4.8 → Version 4.9

KUKA Robot in SafetyBUS p
Correct configuration of the minimal device object for the "KUKA Robot" device of "LP Elektronik GmbH".

Version 4.9 → Version 4.10

- PSS SB 3006 ETH
The new PSS SB 3006 ETH is configurable.
- PSS SB DI8OZ4
The new PSS SB DI8OZ4 is configurable.
- PSS SB DI8O8
For the PSS SB DI8O8 (from version 2.0) the signal change behaviour is configurable.
- PSS SB DI16
For the PSS SB DI16 (from version 2.0) the signal change behaviour is configurable.
- Device-ID of SafetyBUS p subscribers
The device ID that can be displayed by SafetyBUS p subscribers in on-line mode now contains more information.
- Errors that have been rectified
 - Display of the error stack
The error stack no longer displays "-----" instead of error messages.
 - Block segments comment
The window for entering the block segments comment is enlarged.
 - Cross-references
The number of cross-references is now unlimited.

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