

SISTEMA version history

Up to version 2.0.7, January 2017

IMP = improvement
FIX = bugfix
MSC = miscellaneous
UPD = update
ToDo = in planning

Version 2.0.7

Type	Description
FIX	General bug fixing
FIX	During start-up of SISTEMA an Umlaut in the file paths [DataDir] or [WorkDir] resulted in an error. The problem has been fixed.
FIX	Under certain configurations, there are display errors in the VDMA Library Manager. The problem has been fixed.
FIX	The column "DCavg" had been missing in the list view of subsystems and has been added.
FIX	If the point was used for a decimal separator in the country-specific number formats of Windows, SISTEMA has not allowed the input of numerical values such as in the field of "PFH _D ". The problem has been fixed.
FIX	Certain constellations led to the list of SISTEMA libraries being reset. The problem has been fixed.
UPD	In the list of "Typical components values" the entry "Push buttons" was missing, it has been added.
MSC	In rare cases, there are display problems, such as the radio buttons in the tabs are not completely visible. A new option has been added (menu: options/view). For these special cases, it will be helpful to set this option to a value like "125" or "150" (magnification of the image in percent).
MSC	The shortcut key CTRL + A was used by SISTEMA to open the VDMA Library Manager so far. This keyboard shortcut changed to CTRL + M.
ToDo	Update help file!

Version 2.0.6

Type	Description
FIX	General bug fixing
FIX	Update issues in the library manager for the VDMA-66413 format fixed.
UPD	Japanese has been implemented as an additional language in SISTEMA. The translation was done by the company Omron.
UPD	The summary/the report has been revised. The level of detail can be adjusted with the help of new print options.
UPD	"Performance Level Software" was renamed to "Software suitable up to PL".
UPD	Links are updated (for example, "Innovations in SISTEMA 2.0 – Beta" renamed to "Innovations in SISTEMA 2.0")
MSC	If the performance level of a subsystem is determined with the help of a SIL value, a green hint message is generated.
MSC	The default setting for decimal places has been reduced from 2 to 1 or 0.
ToDo	Update help file!

Version 2.0.5 build 2 beta

Type	Description
FIX	While using the copy function a problem occurred. The problem was fixed.
FIX	Project files that were created with a newer version of SISTEMA and having the same data structure were not accepted. The problem was fixed.

Version 2.0.5 beta

Type	Description
FIX	In some situations a project could not be saved. The problem was fixed.
UPD	Firebird has been updated (from 2.5.2 to 2.5.6).

Version 2.0.4 beta

Type	Description
FIX	General bug fixing
FIX	The problem with the text box for "Lambda" values (block/element) is fixed.
UPD	Link "Getting Started" added to the Help menu.
UPD	Links are updated.
UPD	Windows 10 support (Windows 2000 and Windows XP are no longer supported).
UPD	Texts of the user interface have been adjusted/unified.
IMP	Support for multi-user operation of SISTEMA projects. If a project is already being processed by someone else, a message shows up.

Version 2.0.3 beta

Type	Description
UPD	Details of all changes are described in a separate paper. You can find the link to this PDF file in SISTEMA under "Help -> Innovations in SISTEMA 2.0 - Beta".
UPD	Support of the universal data format for safety-related values of components or parts of control systems "VDMA 66413".
UPD	Expansion by many additional documentation fields at all levels, so that all data fields of the format "VDMA 66413" are supported by SISTEMA.
UPD	SIL can be used as a parameter for evaluating a control system. SISTEMA automatically converts the SIL into a matching PL.
UPD	Texts for the category requirements have been revised. If available, additional information is displayed by using tooltips.
UPD	In addition to the category requirements, performance level requirements have been added, which have to be confirmed by the user.
UPD	A new gui-control "Software PL" was added. It can be used to specify the achieved performance level by the application software of the control part.
UPD	The list "Type of safety function" has been enhanced by additional items.
UPD	List of DC and CCF measures has been updated (ISO 13849-1:2015).
UPD	List of substitute values for $MTTF_D/B10_D$ "method of good engineering practice" has been updated (ISO 13849-1:2015).
UPD	Amendments to ISO 13849-1:2015 have been entered into SISTEMA, i.e.: <ul style="list-style-type: none"> - Capping of $MTTF_D$ 2500 a for Category 4 by default True - Reduced testing frequency for category 2 is possible - New simplified method for the output part of the SRP/CS for determining PL/PFH_D without $MTTF_D$ - PL_r determination with possibility to consider the probability of occurrence Details can be found on: http://www.dguv.de/webcode/e89507 ("Amendment of EN ISO 13849-1, A survey of

Type	Description
	the essential improvements in 2015")
IMP	The texts for CCF measures and DC measures are automatically adjusted to the current SISTEMA language. Self-defined measures are not translated. This behavior can be adjusted by selecting "Expert settings/Use the current language for CCF-/DC-Measures".
IMP	Additional messages, indicating that inputs maybe incorrect or missing, have been added.
IMP	The validation of XML files against a schema file is performed directly by SISTEMA. An additional Windows DLL file (MSXML4.dll) is no longer necessary.
IMP	For creating a new project, the default values have been adjusted in order to avoid incorrect values to be entered or missing inputs.
IMP	When selecting "Typical components values", the description and details for the selection are copied to the clipboard. Thus, if necessary this information can be entered into the documentation field.
FIX	After saving a project, the checksum may change due to non-visible characters like "Tab" at the end of a text which are removed. The problem has been solved.
FIX	Problems while updating the tree view have been fixed.
FIX	The list of libraries in the Library Manager of SISTEMA was not saved when SISTEMA was closed, while the library window was still visible. The problem has been fixed.
FIX	Problems with the Windows display setting unlike 96 DPI were fixed.
MSC	Name changes: MTTF _d → MTTF _D ; B10 _d → B10 _D ; PFH → PFH _D etc.
MSC	By pressing "Return/Enter" the next text box will be selected. This behavior can be changed by option and is active by default.
MSC	The filter function has been revised. If the current selection is within a project, also this project will be filtered only. To filter in a different project, the filter must be cancelled before.