



SICAM TOOLBOX II Version 5.10

During the entire service life of a system the SICAM TOOLBOX II comprehensively supports all phases of the system engineering, such as e.g. configuration, parameter setting, diagnostics, test, documentation and maintenance.

Today, catchphrases such as integration, networking, universal data management and non-redundant data input are an absolute must requirement on engineering systems. The SICAM TOOLBOX II fulfills all these requirements mentioned and makes use of the latest technological methods which simplify the system engineering. As a result highly efficient working is enabled throughout the entire engineering procedure.

The SICAM TOOLBOX II version 5.10 not only offers new functions, but also rounds off the functions or technologies of the predecessor SICAM TOOLBOX II version 5.0. The new SICAM TOOLBOX II version supports current operating systems as well as functions in the areas of CAEx plus, usability.

In addition, the SICAM TOOLBOX II version 5.10. is ready for "SICAM CMIC" and "SICAM Safety". The release will be done via hotfix of the SICAM TOOLBOX II in the course of the market launch.

The engineering and consequently the acquisition and modeling of the plant data represent high value capital goods.

From this consideration it naturally follows, that existing engineering data of the existing SICAM TOOLBOX II version 4.10 and version 5.0 can continue to be used and can be imported into the new SICAM TOOLBOX II version 5.10.

The new version of the SICAM TOOLBOX II 5.10 includes enhancements and improvements, that are briefly listed here:

New Features

Support of current operating systems

SICAM TOOLBOX II version 5.10 supports Windows XP Professional, Server 2003, Windows Vista, Windows 7 Professional and Windows Server 2008 R2.

Data distribution center – export database, import database

From SICAM TOOLBOX II version 5.10 on a new function in Data Distribution Center "import /export database" is available to import previously saved data after a new installation. It is possible to export all engineering data, including firmware master data and firmware codes, in an external directory.

This function supports, for instance, the upgrade from SICAM TOOLBOX II version 5.00 HF13 to SICAM TOOLBOX II version 5.10.

Ready for SICAM CMIC	SICAM TOOLBOX II version 5.10 is prepared for the new type of automation unit SICAM CMIC, including remote operating via http.
Ready for SICAM Safety	SICAM TOOLBOX II version 5.10 is prepared for the new feature "SICAM safety",. For this the new toolset TBII_CAEx_Safety is necessary (subject to licence).
Server 100 User	This feature unlocks the Server functionality of a SICAM TOOLBOX II V5.10-installation. Up to 100 users/clients can be connected to the server.

Optimized/changed features

Online Help	SICAM TOOLBOX II version 5.10 includes an optimized online help, especially regarding the new features.
Optimizations during startup	Faster startup of SICAM TOOLBOX II by optimizing of the preloader and database performance.
Rework of the libraries	In the new version of SICAM TOOLBOX II all available libraries were reworked completely.
CAEx II under Windows 7	For CAEx II under the operating system Windows 7 a virtual environment is necessary, where the operating system Windows XP is installed. All necessary installation steps and settings are described in a dedicated user manual. The software VMware Workstation is not part of SICAM TOOLBOX II.

New features CAEx plus

CAEx plus Online-Test

- Suspend/Resume CAEx plus Online-Test

Optimized/ changed features CAEx plus

Optimized analysis during finding errors in the function diagram data and during the code generation by means of new checks:

- Open lines
- Empty value and variable fields
- Not connected inputs and outputs
- Multiple assignments of variables
- Usage of supported data types only

Rework of the libraries

- Two new libraries: SICAM_InstructionList and SICAM_Safety
- Six libraries in total, each of them can be updated separately

Improved usability

- Error state viewer with new buttons to filter program messages; Filtering by errors, warnings and other messages
- Simple alignment of FBD-elements

Compatibility

Version V5.10

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Data created with SICAM TOOLBOX II version 5.10 can be imported into earlier versions (V 5.0), if those data do not contain any data only supported from SICAM TOOLBOX II version V5.10 on.

Important hint:

When upgrading to the SICAM TOOLBOX II version 5.10 or importing backups of earlier versions (V4.10 SP3) existing function diagram data of CAEx plus are automatically converted to the new version of SICAM TOOLBOX II version 5.10. Depending on the scope of the engineering data, this procedure may take some time.

Compatibility of SICAM TOOLBOX II-versions related to the feature of the SICAM TOOLBOX II version V5.10 "export and import database":

Export from version	Import in target version V5.10	Import in target version V5.0
V4.10 SP3 HF14	supported	supported
V5.00 HF13, incl. firmware master data and firmware codes	supported	supported
V5.10, incl. firmware master data and firmware codes	supported	not supported

System requirements

Installation

For the installation of the SICAM TOOLBOX II, the following preconditions are required:

- DVD or BluRay-Drive
- Windows Administrator permissions (Read and Write permissions on the file system and the Windows Registry)
- There is no version of a SICAM TOOLBOX II installed.
- NTFS file system
- C:\-drive must exist
- Minimum 10 GB of free hard disk memory
- Minimum 2 GB installed main memory



Hint

- Microsoft Visual C++ 2008 SP1 Redistributable Package (x86) (automatically installed)
 - Windows Installer 4.5 (automatically installed)
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Software

For the operation of the SICAM TOOLBOX II, the following operating systems are supported:

Configuration	Operating system	32 Bit	64 Bit	CAEx II
SICAM TOOLBOX II Local and Server	Windows XP Professional (from SP 2)	X		X
	Windows Vista Business (from SP 2)	X	X	
	Windows Vista Enterprise (from SP 2)	X	X	
	Windows Vista Ultimate (from SP 2)	X	X	
	Windows 7 Professional	X	X	
	Windows 7 Enterprise	X	X	
	Windows 7 Ultimate	X	X	
	Windows Server 2003 (from SP 2)	X		X
	Windows 2008 Server (R1) Standard (from SP 2)	X	X	
	Windows 2008 Server (R1) Enterprise (from SP 2)	X	X	
	Windows 2008 Server (R1) Datacenter (from SP 2)	X	X	
	Windows 2008 Server (R2) Standard		X	
	Windows 2008 Server (R2) Enterprise		X	
	Windows 2008 Server (R2) Datacenter		X	
	SICAM TOOLBOX II Web Server	Windows Server 2003 (from SP 2) with TS	X	
Windows 2008 Server (R1) Standard with TS (from SP 2)		X	X	
Windows 2008 Server (R1) Enterprise with TS (from SP 2)		X	X	
Windows 2008 Server (R1) Datacenter with TS (from SP 2)		X	X	
Windows 2008 Server (R2) Standard with RDS			X	
Windows 2008 Server (R2) Enterprise with RDS			X	
Windows 2008 Server (R2) Datacenter with RDS			X	
SP = Service Pack TS = Terminal Server Mode RDS = Remote Desktop Services				

For the use of SICAM TOOLBOX II the following preconditions are required:

- **User permissions of the group "User"** under Microsoft Windows
- Installed TCP/IP
- Required Windows Regional Options:
 - 'Dot' for decimal separating character and 'comma' for the thousands separating character must be different.
 - No 'single inverted comma' may be used as separating character.
- Use of Windows Fonts in normal size (96 DPI)
- Microsoft Internet Explorer from Version 6.0
- To play online help movies and read related documentation these applications are required:
 - Installed current Microsoft Windows Mediaplayer (www.microsoft.com)
 - Installed current Adobe Acrobat Reader (www.adobe.com)

**Hint**

The toolset CAEx II can be installed only under Windows XP and Windows Server 2003, because all other operating systems do not support DOS full screen mode (see table above).

Current information to CAEx II for operation in MS Windows 7:

- SICAM TOOLBOX II online help, see *chapter „CAEx II | Operation of CAEx II in MS Windows 7“*
- Siemens Homepage <http://www.siemens.com/SICAM> under *SICAM TOOLBOX II* in area Downloads (TBII_CAEXII_WIN7_BHG_ENG.pdf).

Virtualization

The SICAM TOOLBOX II version 5.0 can be virtualized with the following host/guest configuration in an environment of VMware Inc. (www.vmware.com).

virtual configuration	host operating system	guest operating system and SICAM TOOLBOX II license
SICAM TOOLBOX II local	Windows XP Professional (from SP 3) 32 bit or Windows 7 Professional 32/64 bit	Windows XP Professional (from SP 3) 32 bit Windows 7 Professional 32/64 bit TBII_EMII TBII_OPMII (optionally) TBII_PSRII (optionally) TBII_CAEx_plus (optionally) TBII_LIVEUPDATE (optionally) TBII_CAEx_Safety (optional) TBII_CAExII (optionally only with Windows XP Professional) see hint CAEx II above!
SICAM TOOLBOX II server	VMware ESX 4.1 64 bit	Windows 2008 Server (R2) 64 bit TBII_EMII TBII_SERVER_x_User TBII_LIVEUPDATE (optionally)
SICAM TOOLBOX II web sever	VMware ESX 4.1 64 bit	Windows 2008 Server (R2) with RDS 64 bit TBII_EM II TBII_OPMII TBII_PSRII TBII_SERVER_x_User TBII_WEB_x_User TBII_CAEx_plus (optional) TBII_WEB_CAEx_plus (optionally) TBII_LIVEUPDATE (optionally) TBII_CAEx_Safety (optional)

**Hint**

The minimum requirements for the operation of the VMware Guest with regard to processor capacity (performance), main memory and hard disc memory are like in the table hardware requirements (see below) described.

Hardware

The hardware requirements differ depending on the operation of the SICAM TOOLBOX II. Thereby it is to distinguish, whether the SICAM TOOLBOX II is operated on a local PC or on a client/server configuration.

In addition, it should be pointed out, that with the memory configuration of the PC, the memory requirements and also the hard disk space of the operating system and all applications running parallel to the SICAM TOOLBOX II (e.g. Microsoft Access, Microsoft Word, Microsoft Outlook etc.) and/or memory usage of onboard graphic adapters have to be considered.

System	RAM (main memory)	Disk (GB)	CPU	
PC	2 GB	40	Core 2 Duo 2,0 GHz	} minimum requirement
Notebook	4 GB	160	Core i5 2 x 2,4 GHz	
Workstation	8 GB	320	Core i5 4 x 3,1 GHz	} recommended requirement
Server	16 GB	2 x 250 (RAID)	XEON 4 x 2,6 GHz	



Hint

CAEx plus (for SICAM 1703)

For CAEx plus a dongle for USB is required. Therefore a free USB slot is necessary.



Hint

CAEx II (for SK 1703 und Ax 1703)

For CAEx II a dongle for USB is required. Therefore a free USB slot is necessary.

Whether CAEx II operates fault-free on a PC can be checked with a test program. This test program is located on the Siemens Homepage <http://www.siemens.com/SICAM> under SICAM TOOLBOX II in area Downloads .

In a virtual environment this test can be omitted.