



SICAM TOOLBOX II Version 6.0

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 6.0 not only offers new functions, but also rounds off the functions or technologies of the predecessor SICAM TOOLBOX II versions. The new SICAM TOOLBOX II version supports current operating systems as well as functions in the areas of IEC 61850 Ed.2.

Existing engineering data of the SICAM TOOLBOX II versions 5.xx can be imported into the new SICAM TOOLBOX II version 6.0 and thus continue to be used.

Data created with TOOLBOX II Version 6.0 CANNOT be imported into earlier versions (e.g. V5.xx).

The new version of the SICAM TOOLBOX II 6.0 includes enhancements and improvements, that are briefly listed here:

New Features

Support of current operating systems

SICAM TOOLBOX II version 6.0 supports Windows 7, Windows 8.1, Windows 10, Windows Server 2008 R2 und Windows Server 2012 R2.

Security

Signature of Installation:

The installation file setup.exe comes with a SIEMENS certificate (digital signature)

Solidification:

If there is a solidification software installed on your operating system you have to configure several exceptions defined in ADMINISTRATOR SECURITY Manual (DC0-115-2.xx).

ORACLE DB:

Conversion of TOOLBOX II Version 6.0 to ORACLE 12 c, including security patches. Version and patch level is displayed in the *Versions of installed toolsets* dialog (Presets TOOLBOX, System menu, TOOLBOX info, Toolsets...):

2048 Bit Encryption:

SICAM TOOLBOX II in remote operation is designed to utilize X.509 Client Certificates with RSA 2048 Bit key length and SHA256 Signature (up to now RSA 1204 Bit Encryption, SHA1 Signature). Thus, a communication is possible with either SICAM RTUs devices using X.509 Server Certificates RSA 1024/SHA1 or devices using X.509 Server Certificate RSA 2048/SHA256.

IEC 61850 Edition 2

Support of IEC 61850 Edition 2 Server for SICAM RTUs

Importing IEC 61580 Edition 2-Server-files:

These files can be imported either for each IEC 61580 Edition 2 server separately or for several servers.

Exporting IEC 61580 Edition 2-Server-files

SICAM TOOLBOXII V6.0 offers the possibility of exporting, importing and storing engineering data in TEAx format,.

Support of TEAx interface

Integration of SICAM WEB and SICAM TOOLBOX II

In the System Technique of OPM II for SICAM WEB the following functions are supported

“Start_SICAM_WEB”

“Load flash card”

Thus you can use the online features (diagnosis and maintenance functionalities) of SICAM WEB directly from SICAM TOOLBOX II

Improved Features

Online Help

SICAM TOOLBOX II version 6.0 includes an optimized online help, especially regarding the new features. The Online Help is made available in updated form as *.chm file.

SICAM SCC (former known as SICAM PAS CC)

General Interrogation and und Analog Values:

Extension of the parameter *Variable_type_(TI)*, new entry *General Interrogation (GenType -21)*

Extension of the parameter *Lk_Kat*: analog value (subdivision into float and integer values).

Rework of the libraries

In the new version of the SICAM TOOLBOX II the libraries provided have been revised..

New Features CAEx plus

Offline-Simulation/Online-Test: Enhanced Debugging

Editor in OLS-Mode resp. in OLT-Mode now for POU(ST) and Global-Variable Objects

Variable-Values in New Column "Online" Displayed and Forceable

Compatibility

Existing engineering data of the SICAM TOOLBOX II versions 5.xx can be imported into the new SICAM TOOLBOX II version 6.0 and thus continue to be used.

Data created with SICAM TOOLBOX II Version 6.0 **CANNOT** be imported into earlier versions (e.g.V 5.xx).

Export from version	Import in target version V6.0	Import in target version V5.xx
V4.10 SP3 HF14	NOT supported	supported
≥ V5.00 HF13, incl. firmware master data and firmware codes	supported	supported
V6.0, 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:

- USB connector
- 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 30 GB of free hard disk memory
- Minimum 4 GB installed main memory



Hint

- Microsoft Visual C++ 2013 and Windows Installer 5 will be installed automatically.
 - Enable Administrative Share:
The installation of the ORACLE Database requires a default share on the computer drive on which you want to install SICAM TOOLBOX II. (e.g administrative share C\$).
-

Virtualization

The SICAM TOOLBOX II version 6.0 can be virtualized with several host/guest configurations (Windows 7, Windows 8.1, Windows 10, Windows 2008 Server R2, Windows 2012 Server R2) in an environment of VMware Inc. (www.vmware.com) based on VMware Workstation 11.x and from VMware ESX 4.1



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.

Software

For the operation of the SICAM TOOLBOX II, the following 64 bit operating systems are supported:

Configuration	Operating system
SICAM TOOLBOX II	Windows 7 Windows 8.1
Local Configuration and Data Server Configuration	Windows 10 Windows 2008 Server R2 Windows 2012 Server R2
SICAM TOOLBOX II WEB Application Server	Windows 2008 Server R2 with RDS Windows 2012 Server R2 with RDS 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)
- 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)

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. (e.g. Microsoft Office etc.) and/or memory usage of onboard graphic adapters have to be considered.

Recommended Hardware	System	RAM (main memory)	Disk (GB)	CPU
	Notebook / Workstation	≥ 4 GB	≥ 160	Core i5
	Server	≥ 32 GB	2 x 500 (RAID)	XEON



Hint

CAEx plus (for SICAM RTUs)

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