

SIEMENS

SICAM TOOLBOX II V6

Licence Catalog

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Disclaimer of Liability

Although we have carefully checked the contents of this publication for conformity with the hardware and software described, we cannot guarantee complete conformity since errors cannot be excluded. The information provided in this manual is checked at regular intervals and any corrections that might become necessary are included in the next releases. Any suggestions for improvement are welcome.

Subject to change without prior notice

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Preamble

We herewith present you with the current licence catalog, edition October 2015

SICAM TOOLBOX II V6.0

We wish you a lot of success when using the SICAM TOOLBOX II

Yours sincerely

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The Online Configurator also provides order numbers of the licence catalog, see <http://www.siemens.com/SICAM>.

This document is valid for the following product:

- SICAM TOOLBOX II, Version 6.0

Purpose of the manual

The SICAM TOOLBOX II is the engineering system for SICAM RTUs. This catalog gives you an overview of the software licences available for the SICAM TOOLBOX II.

Target group

This manual is intended for persons who are entrusted with the installation, design and engineering of SICAM TOOLBOX II projects.

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1. General

The SICAM TOOLBOX II offers you all the functions for an integrated and universal engineering of the complete plant, such as e.g. data collection, data modeling, configuration, parameterization and the engineering of the process information for the automation and control center systems, and finally the management of the systems of third-party manufacturers and their individual parameters. The SICAM TOOLBOX II is therefore an ideal tool for plants of any magnitude.

The SICAM TOOLBOX II is available able to be switched over to the German and English operating language.

It is supplied on USB stick.

The SICAM TOOLBOX II version 6 supports Windows 7, Windows 8.1, Windows Server 2008 R2 and Windows Server 2012 R2.
For more detailed information, please refer to the Installation Manual (D3E-017-1.xx).

The SICAM TOOLBOX II includes the following **Toolsets**:

The **EMII** (Engineering Manager) is the **Basic Package** on which all other Toolsets are based and is therefore always to be installed. The EMII contains the central database, functions for Backup and Restore of the engineering data, User Role administration, configuration of the Multi-User operation and Language settings. The heart of the data management of the SICAM TOOLBOX II is a central database, which all tools of the TOOLBOX access and in which all information is stored. The advantage is obvious: Information once entered is immediately available to all colleagues of a project and all tools and is always topical. That reduces the rate of errors, prevents double inputs and consequently reduces the engineering work.

Every other Toolset can be installed in any order according to demands and requirements:

- **PSRII** (configuration and service processor)
The PSR II provides functions such as the loading of parameters, diagnostics, test and simulation for the automation system SICAM RTUs. All functions can be executed locally or over remote connections.
- **OPMII** (object-oriented process data manager):
Central engineering tool of the SICAM TOOLBOX II for the automation systems according to process-technical aspects.
- **CAEx plus**:
For creating logic-, open and closed loop control functions for SICAM RTUs automation systems
- **CAEx safety**:
For creation, verification and validation of the safety control systems
- **CAExII**:
For creating logic-, open and closed loop control functions for SK 1703 and Ax 1703 automation systems

Basically, the SICAM TOOLBOX II is available in the following configurations:

- **Local PC Configuration (SICAM TOOLBOX II Local); stand-alone mode**

If the SICAM TOOLBOX II is operated locally without a central server, then all data are stored locally on the PC. With the Data Distribution Center tool backups of the plant data can be created or the data exchanged with other local SICAM TOOLBOX II PCs.

- **Server-Client Configuration (SICAM TOOLBOX II in a network); Data Server**

Used in a network, multiple system engineers can work in parallel on one project or multiple projects.

- **SICAM TOOLBOX II in a WEB-Browser; Application Server**

You can also utilize the manifold functions of the SICAM TOOLBOX II without limitations in the Internet or Intranet – with the same comfortable user interface as for local installation. The Web functions integrated in the SICAM TOOLBOX II enable the operation in Internet Explorer without any further familiarization. To do this the SICAM TOOLBOX II does not even need to be installed locally on the control PC – all functions run on the corresponding Windows Terminal Server.



Hint:

CAEx II and CAEx II Online Test for the PLC applications for SK 1703 and Ax 1703 are not supported in WEB-Browser (Application Server).

Data Compatibility and Update Scenarios V6

The engineering and consequently the acquisition and modeling of plant data represent high-quality investment goods.

Engineering data from TOOLBOX II Versions 5.xx can be imported into the new TOOLBOX II Version 6.0. and thus, continue to be used.

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

The following overview shows, which earlier export-versions are fully supported by the TOOLBOX II V6.0:

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
V6.00, incl. firmware master data and firmware codes	supported	NOT supported

MLFB Variants

The SICAM TOOLBOX II is always ordered by means of the MLFB, which for V6.0 always begins with **6MF7060**. The selection of the options produces the corresponding variant of the software licence.

These variants are evident from the tables in the following chapters.

2. Favorites List

The following provides a brief overview of the most common licences.

2.1. TBII_Standard_V6

The description of the individual Toolsets can be found in chapter 11, Toolsets.

Item Number of the SW Licence	Designation
S32-000-6	TBII_EMII_V6_Licence
S34-000-6	TBII_PSRII_V6_Licence
S35-000-6	TBII_OPMII_V6_Licence
S36-100-6	TBII_CAEplus_V6_Licence
G95-521-Z	TBII_CAEplus_Hardlock-USB

2.2. TBII_Standard-LIGHT_V6

The description of the individual Toolsets can be found in chapter 11, Toolsets.

Item Number of the SW Licence	Designation
S32-010-6	TBII_EMII-Light_V6_Licence
S34-010-6	TBII_PSRII-Light_V6_Licence
S35-010-6	TBII_OPMII-Light_V6_Licence
S36-110-6	TBII_CAEplus-Light_V6_Licence
G95-521-Z	TBII_CAEplus_Hardlock-USB

2.3. TBII_UPDATE_V6

For the Update refer to chapter 7, Update and Upgrade Licences.

Item Number of the SW Licence	Designation
S32-070-6	TBII_UPDATE_V6_Licence

2.4. TBII_UPDATE-LIGHT_V6

For the Update refer to chapter 7, Update and Upgrade Licences.

Item Number of the SW Licence	Designation
S32-072-6	TBII_UPDATE-LIGHT_V6_Licence

2.5. TBII_LIVEUPDATE_V6

The description of the Liveupdates can be found in chapter 12, Add-ons.

Item Number of the SW Licence	Designation
S32-700-6	TBII_LIVEUPDATE_V6_Licence

3. Packages

A package for the current version of SICAM TOOLBOX II consists of defined Toolsets. The packages are available both in the Full as well as the Light version of the Toolsets. The description of the individual Toolsets can be found in chapter 11, Toolsets.

3.1. TBII_Standard_V6

Item Number of the SW Licence	Designation
S32-000-6	TBII_EMII_V6_Licence
S34-000-6	TBII_PSRII_V6_Licence
S35-000-6	TBII_OPMII_V6_Licence
S36-100-6	TBII_CAExplus_V6_Licence
G95-521-Z	TBII_CAExplus_Hardlock-USB

3.2. TBII_Basic_V6

Item Number of the SW Licence	Designation
S32-000-6	TBII_EMII_V6_Licence
S34-000-6	TBII_PSRII_V6_Licence
S35-000-6	TBII_OPMII_V6_Licence

3.3. TBII_Administration_V6

Item Number of the SW Licence	Designation
S32-000-6	TBII_EMII_V6_Licence

3.4. TBII_Maintenance_V6

Item Number of the SW Licence	Designation
S32-000-6	TBII_EMII_V6_Licence
S34-000-6	TBII_PSRII_V6_Licence

3.5. TBII_Standard-LIGHT_V6

The description of the individual Toolsets can be found in chapter 9, Extra Items.

Item Number of the SW Licence	Designation
S32-010-6	TBII_EMII-Light_V6_Licence
S34-010-6	TBII_PSRII-Light_V6_Licence
S35-010-6	TBII_OPMII-Light_V6_Licence
S36-110-6	TBII_CAExplus-Light_V6_Licence
G95-521-Z	TBII_CAExplus_Hardlock-USB

3.6. TBII_Basic-LIGHT_V6

Item Number of the SW Licence	Designation
S32-010-6	TBII_EMII-Light_V6_Licence
S34-010-6	TBII_PSRII-Light_V6_Licence
S35-010-6	TBII_OPMII-Light_V6_Licence

3.7. TBII_Administration-LIGHT_V6

Item Number of the SW Licence	Designation
S32-010-6	TBII_EMII-Light_V6_Licence

3.8. TBII_Maintenance-LIGHT_V6

Item Number of the SW Licence	Designation
S32-010-6	TBII_EMII-Light_V6_Licence
S34-010-6	TBII_PSRII-Light_V6_Licence

4. Local PC Configuration

The following subchapter lists the licences for local PC configurations (stand-alone mode).

4.1. Single Site (FULL)

The single site licences are intended for installations in single site operation.

The description of the individual Toolsets can be found in chapter 11, Toolsets. The description of the Liveupdate can be found in chapter 12, Add-ons.

Single Site (FULL)

6 M F 7 0 6 □ - 1 □ □ 0 0 - 0 A □ 0

Version

Version 6.0

0

PACKAGE

- No Package
- TBII_Standard_V6
- TBII_Basic_V6
- TBII_Administration_V6
- TBII_Maintenance_V6

- A
- B
- C
- D
- M

Item number of the licences

- s. Packages
- s. Packages
- s. Packages
- s. Packages

Designation of the licences

- s. Packages
- s. Packages
- s. Packages
- s. Packages

Add-on packages

- No Add-on
- TBII_LIVEUPDATE_V6

- A
- L

S32-700-6

TBII_LIVEUPDATE_V6_Licence

TOOLSET CAEx II

- No Toolset
- TBII_CAExII_V6 (SK 1703 & Ax 1703)

- A
- X

S36-000-6
G95-520-Z

TBII_CAExII_V6_Licence
TBII_CAExII_Hardlock-USB

4.2. Single Site (LIGHT)

The Light licences are designed for smaller project configurations and in principle support the same functionality as the Full licences. The Light versions are limited to the management or editing of maximum 100 system elements or maximum 2000 signals per installed licence.

The description of the individual Toolsets can be found in chapter 11, Toolsets. The description of the Liveupdate can be found in chapter 12, Add-ons.

Single Site (LIGHT)

6 M F 7 0 6 □ - 0 □ □ 0 0 - 0 A □ 0

Version

Version 6.0

0

Item number of the licences

Designation of the licences

PACKAGE

- No Package
- TBII_Standard-LIGHT_V6
- TBII_Basic-LIGHT_V6
- TBII_Administration-LIGHT_V6
- TBII_Maintenance-LIGHT_V6

- A
- B
- C
- D
- M

- s. Packages
- s. Packages
- s. Packages
- s. Packages

- s. Packages
- s. Packages
- s. Packages
- s. Packages

Add-on packages

- No Add-on
- TBII_LIVEUPDATE_V6

- A
- L

S32-700-6

TBII_LIVEUPDATE_V6_Licence

TOOLSET CAEx II

- No Toolset
- TBII_CAExII-LIGHT_V6 (SK 1703 & Ax 1703)

- A
- X

S36-010-6
G95-520-Z

TBII_CAExII-Light_V6_Licence
TBII_CAExII-Hardlock-USB

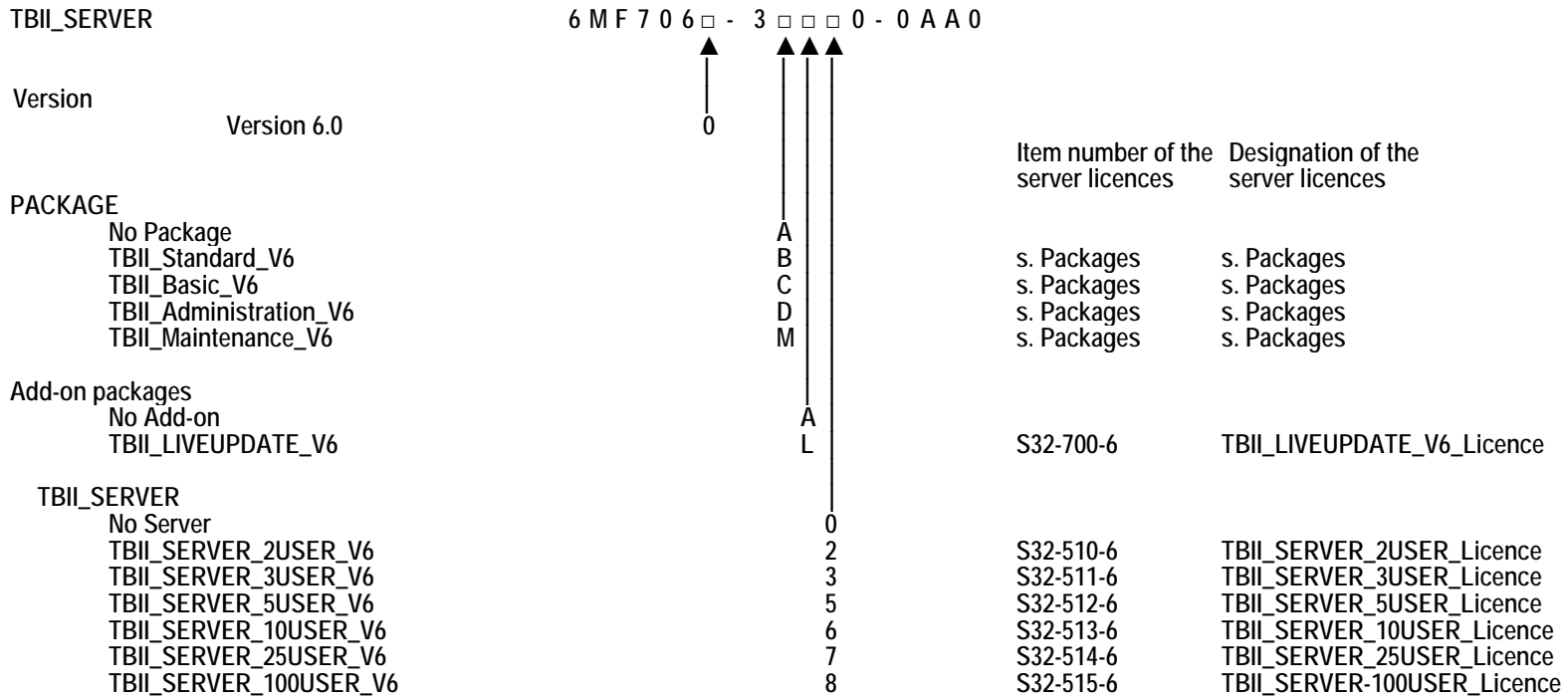
5. Data Server Configuration

Used in a network, multiple system engineers can work in parallel on one project or multiple projects (SICAM TOOLBOX II in a network).

Server Licences

These licences unlock the Server functionality of a SICAM TOOLBOX II installation. The Server can work with the specified number of Users/Clients.

The basic SICAM TOOLBOX II Toolsets (e.g. EM II, PSR II, OPM II, ...) in the form of Packages (Standard, Basic and Administration) must also be licenced for the Server as well as for the Clients.



6. WEB Application Server Configuration

Licences for the operation of a SICAM TOOLBOX II installation as WEB Application Server:

TBII Web-Basic Licences (SICAM TOOLBOX II in a WEB Browser)

These licences unlock the Web Server functionality of a SICAM TOOLBOX II V6 installation. The Web Server can work with the specified number of Users/Clients. Die Web Clients do not require any SICAM TOOLBOX II installation, as they work on the Server via the Internet Browser. To do this the Server must provide the Windows Terminal Server service (e.g. with Windows 2008 or 2012 Server). The licences for the operation of the Client-PCs are not tied to one machine, which means, the users can work on the Server from any PC.

Precondition:

Obligatory: TBII_Basic_V6, TBII_SERVER_<number>USER_Licence (a licence for one Server with at least 2 Clients).

Note: CAEx II can not be operated via Web Server.

This package does not include the Web-compatible CAEx plus. For the Web-compatible CAEx plus, in addition the Toolset TBII_CAExplus and a licence TBII_WEB-CAExplus_<number>USER_Licence are to be installed on the Server.

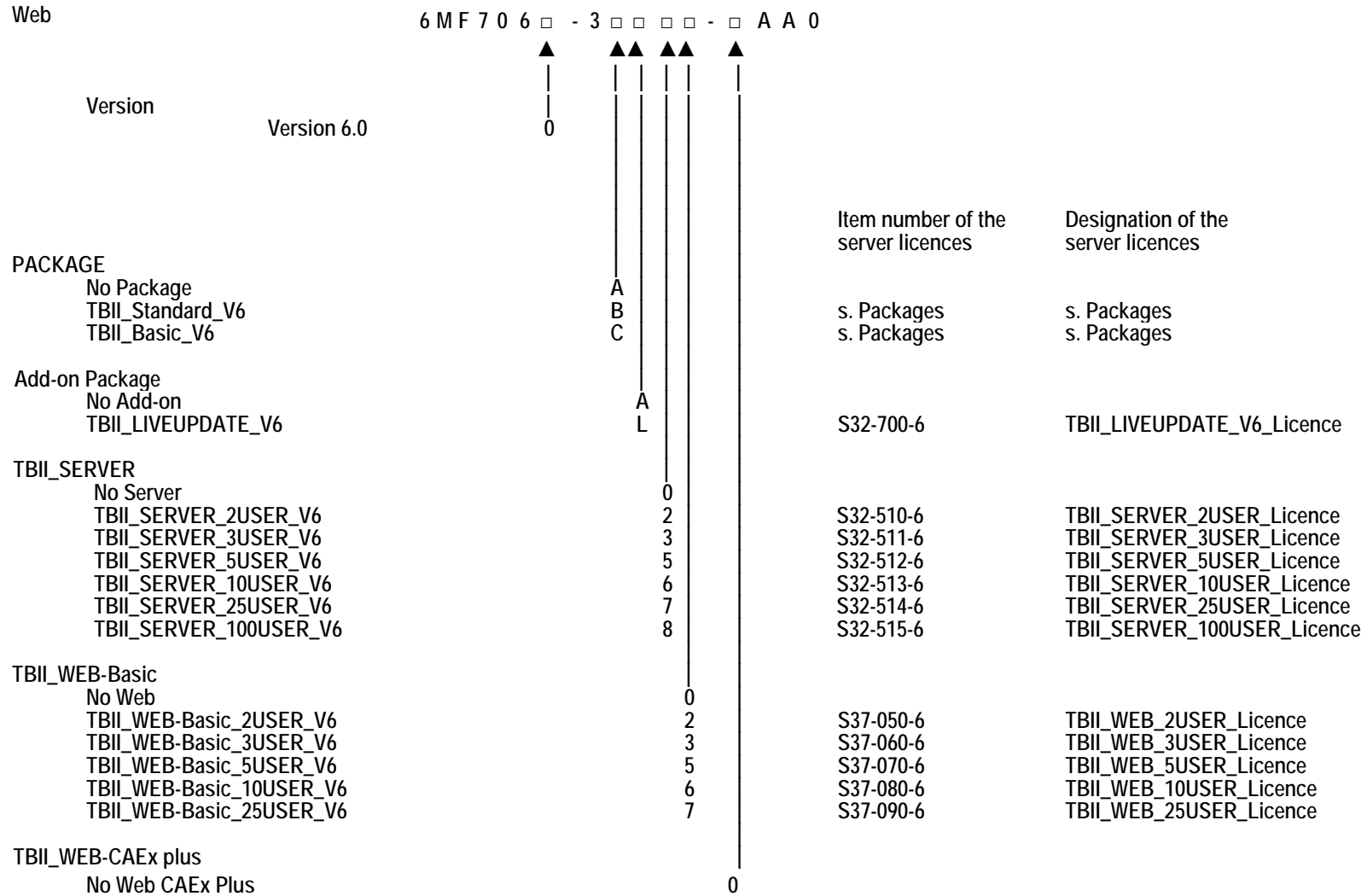
TBII Web CAEx plus Licences (CAExplus in a Web Browser)

The WEB CAEx plus user licences enable the use of CAEx plus on a SICAM TOOLBOX II Web Server for at least 2 Web Clients. The Web Clients do not require any SICAM TOOLBOX II installation, as they work on the Server via the Internet Browser. To do this the Server must provide the Windows Terminal Server service (e.g. with Windows 2008 or 2012 Server). The licences for the Windows Server are not included in this package. The licences for the operation of the Client-PCs are not tied to one machine, which means, the users can work on the Server from any PC.

Precondition:

Obligatory: The package TBII_Standard_V6, the licences TBII_SERVER_<number>USER_Licence (one licence for one Server with at least 2 Clients) and the licence TBII_WEB_<number>USER_Licence.

Note: A USB-Hardlock-Dongle is used for the Web Server. The basic SICAM TOOLBOX II V6 Toolsets (e.g. EM II, PSR II, OPM II, ...) must also be installed for the Server as well as for the Clients.



TBII_WEB-CAExplus_2USER_V6	2	S37-100-6 G95-522-Z	TBII_WEB-CAExplus_2USER_Licence TBII_CAExplus_Hardlock-USB_2User
TBII_WEB-CAExplus_3USER_V6	3	S37-101-6 G95-523-Z	TBII_WEB-CAExplus_3USER_Licence TBII_CAExplus_Hardlock-USB_3User
TBII_WEB-CAExplus_5USER_V6	5	S37-102-6 G95-524-Z	TBII_WEB-CAExplus_5USER_Licence TBII_CAExplus_Hardlock-USB_5User
TBII_WEB-CAExplus_10USER_V6	6	S37-103-6 G95-525-Z	TBII_WEB-CAExplus_10USER_Licence TBII_CAExplus_Hardlock-USB_10User
TBII_WEB-CAExplus_25USER_V6	7	S37-104-6 G95-526-Z	TBII_WEB-CAExplus_25USER_Licence TBII_CAExplus_Hardlock-USB_25User

7. Update and Upgrade Licences

The following pages provide an overview of the licences for Updates (from SICAM TOOLBOX II V5.xx to SICAM TOOLBOX II V6.0) and Upgrades.

7.1. Update Licences

Here SICAM TOOLBOX II installations of the specified licence-ID are updated from V5.xx to the current SICAM TOOLBOX II Version 6.0. The Update includes all already installed and licenced Toolsets (EMII, PSRII, OPMII, CAEx plus, CAExII) of an older version.

Precondition: There must already be an older version of SICAM TOOLBOX II present, that can be updated to the current SICAM TOOLBOX II Version 5.10.

The Update licences concern three subject areas:

Single Site

Full: TBII_Standard-Update_V6. With this package a SICAM TOOLBOX II installation is updated to the current SICAM TOOLBOX II Version 6.0.

Light: TBII_Standard-LIGHT-Update_V6. With this package a SICAM TOOLBOX II-LIGHT installation is updated to the current SICAM TOOLBOX II Version 6 LIGHT.

Server Update: Here the unlocked Server functionality of a SICAM TOOLBOX II installation of an older is updated to TBII V6.0. The Server can work with the specified number of Users/Clients: TBII_UPDATE-SERVER-<number>USER_V6.

Web Server Update: Here the unlocked Web Server functionality of a SICAM TOOLBOX II installation of an older is updated to TBII V6.0. The Server can work with the specified number of Users/Clients: TBII_UPDATE-WEB-<number>USER_V6. The version of an already existing CAEx plus installation for the specified number of Users/Clients is also updated.

Update		6 M F 7 0 6 □ - 4 □ □ □ □ - 0 A A 0										Item number of the update licences	Designation of the update licences		
Version	Version 6.0	0													
Update															
Package	No Package						A								
Package	Light: TBII_Standard-LIGHT-Update_V6						L							S32-072-6	TBII_UPDATE-LIGHT_V6_Licence
Package	Full: TBII_Standard-Update_V6						F							S32-070-6	TBII_UPDATE_V6_Licence
Add-ons	No Add-on														
	TBII_LIVEUPDATE_V6						A								
							L							S32-700-6	TBII_LIVEUPDATE_V6_Licence
Update SERVER	No Server														
	TBII_UPDATE-SERVER_2USER_V6														
	TBII_UPDATE-SERVER_3USER_V6						F							S32-516-6	TBII_UPDATE-SERVER-2USER_V6_Licence
	TBII_UPDATE-SERVER_5USER_V6						F							S32-517-6	TBII_UPDATE-SERVER-3USER_V6_Licence
	TBII_UPDATE-SERVER_10USER_V6						F							S32-518-6	TBII_UPDATE-SERVER-5USER_V6_Licence
	TBII_UPDATE-SERVER_25USER_V6						F							S32-519-6	TBII_UPDATE-SERVER-10USER_V6_Licence
	TBII_UPDATE-SERVER_100USER_V6						F							S32-520-6	TBII_UPDATE-SERVER-25USER_V6_Licence
														S32-524-6	TBII_UPDATE-SERVER-100USER_V6_Licence
Update WEB	No Web														
	TBII_UPDATE-WEB_2USER_V6														
	TBII_UPDATE-WEB_3USER_V6														
	TBII_UPDATE-WEB_5USER_V6						F							S32-071-6	TBII_UPDATE-WEB_V6_Licence
	TBII_UPDATE-WEB_10USER_V6						F							S32-071-6	TBII_UPDATE-WEB_V6_Licence
	TBII_UPDATE-WEB_25USER_V6						F							S32-071-6	TBII_UPDATE-WEB_V6_Licence

7.2. Upgrade Licences

Through the Upgrade of an installed Toolset LIGHT of a local PC configuration of the TBII V6.10 to the corresponding Toolset FULL of the TBII V6.10, the limitation of the Light version is lifted.

Note: All already existing (purchased according to licence ID) Toolsets with LIGHT licences must also be upgraded from LIGHT to FULL (full version), i.e.: if there are several Toolsets in the Light version, the Upgrade of one single Toolset is excluded.

The description of the individual Toolsets can be found in chapter 11, Toolsets

Toolset upgrade (LIGHT to FULL):

TOOLSET upgrade (LIGHT to FULL)	6 M F 7 0 0 0 - 6 G A 0 0 - 0 A □ 0	Item number	Designation
	▲		
TBII_UPGRADE_EMII-LIGHT-TO-FULL_V6		E S32-011-6	TBII_EMII-Light-to-FULL_V6_Licence
TBII_UPGRADE_PSRII-LIGHT-TO-FULL_V6		S S34-011-6	TBII_PSRII-Light-to-FULL_V6_Licence
TBII_UPGRADE_OPMII-LIGHT-TO-FULL_V6		P S35-011-6	TBII_OPMII-Light-to-FULL_V6_Licence
TBII_UPGRADE_CAExplus-LIGHT-TO-FULL_V6		C S36-111-6	TBII_CAExplus-Light-to-FULL_V6_Licence
TBII_UPGRADE_CAExsafety LIGHT-TO- FULL_V6		F S36-020-6	TBII_CAExsafety Light-to- FULL_V6_Licence
TBII_UPGRADE_CAExII-LIGHT-TO-FULL_V6		X	TBII_CAExII-Light-to-FULL_V6_Licence

Toolset upgrade (FULL):

Through this upgrade existing SICAM TOOLBOX II-FULL-installations can be extended. .

Example for a typical use case: it is possible to extend a TBII_Basic_V6 to a TBII_Standard_V6.

TOOLSET upgrade (FULL)

6 M F 7 0 0 0 - 6 F A 0 0 - 0 A □ 0

		Item number	Designation
		▲	
TBII_PSR II_V6	S	S34-000-6	TBII_PSR II_V6_Licence
TBII_OPM II_V6	P	S35-000-6	TBII_OPM II_V6_Licence
TBII_CAExplus_V6	C	S36-100-6 G95-521-Z	TBII_CAExplus_V6_Licence TBII_CAExplus_Hardlock-USB
TBII_CAExsafety_V6	F	S36-200-5	TBII_CAExsafety_V6_Licence_(S)
TBII_CAEx II_V6	X	S34-000-6 G95-520-Z	TBII_CAEx II_V6_Licence TBII_CAEx II_Hardlock-USB

Toolset upgrade (LIGHT):

Through this upgrade existing SICAM TOOLBOX II-LIGHT-installations can be extended.

Example for a typical use case: it is possible to extend a TBII_Basic_LIGHT_V6 to a TBII_Standard_LIGHT_V6.

TOOLSET upgrade (LIGHT)

6 M F 7 0 0 0 - 6 L A 0 0 - 0 A □ 0

		Item number	Designation
		▲	
TBII_PSR II-LIGHT_V6	S	S34-010-6	TBII_PSR II-Light_V6_Licence
TBII_OPM II-LIGHT_V6	P	S35-010-6	TBII_OPM II-Light_V6_Licence
TBII_CAExplus-LIGHT_V6	C	S36-110-6 G95-521-Z	TBII_CAExplus-Light_V6_Licence TBII_CAExplus_Hardlock-USB
TBII_CAExsafety-LIGHT_V6	F	S36-010-6	TBII_CAExsafety-Light_V6_Licence
TBII_CAEx II-LIGHT_V6 (SK 1703 & Ax 1703)	X	S36-010-6 G95-520-Z	TBII_CAEx II-Light_V6_Licence TBII_CAEx II_Hardlock-USB

Addon LiveUpdate:

Through this upgrade existing SICAM TOOLBOX II-installations can be extended. .

Example for a typical use case: it is possible to extend a TBII_Standard_V6 with a TBII_LIVEUPDATE_V6.

Addon Live-Update	6 M F 7 0 0 0 - 6 A L 0 0 - 0 A A 0	Item number	Designation
TBII_LIVEUPDATE_V6		S32-700-6	TBII_LIVEUPDATE_V6_Licence

7.3. CAExII for Windows 7, Windows 8 und Windows 10

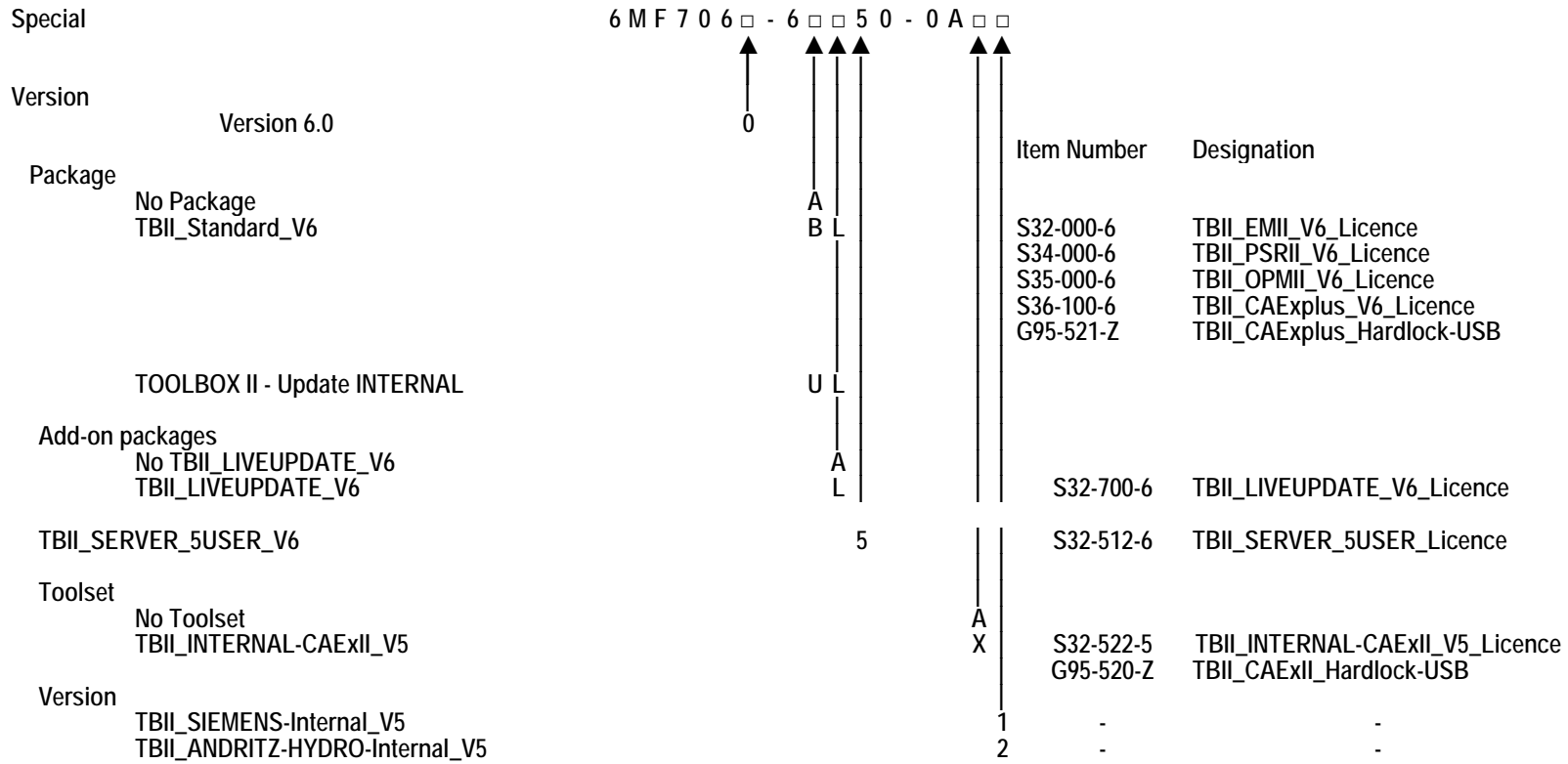
This licence provides CAExII under Windows7, Windows 8 and Windows 10. The MLFB number is: 6 M F 7 0 0 0 - 5 S A 0 0 - 0 A X 0.

This licence package will be only offered to existing customers, who already purchased the affected CAExII licence and is available upon request via your local contact person at SIEMENS.

8. Special

The following licences concern special internal configurations for the companies SIEMENS and Andritz Hydro. These licences may only be used for internal purposes.

Note: With this internal version internal keys for the installation are also output. A dongle is also supplied with CAEx plus. If CAEx II (for Ax 1703 and SK 1703) is also to be used, TBII_INTERNAL-CAExII_V5_Licence can be purchased in addition.



9. Extra Items

The exchange of a Hardlock-Dongle for the parallel port for a USB-Dongle is intended exclusively for local SICAM TOOLBOX II installations with the Toolset CAEx plus or CAExII.

Note: Only a change from parallel to USB is possible. The old dongle must be returned, only after that will the customer receive the new one. The USB Hardlock-Dongle functions from version 4.00 of the SICAM TOOLBOX II: TBII_CAExplus_DONGLE-EXCHANGE, TBII_CAExII_DONGLE-EXCHANGE.

Extra

6 M F 7 0 0 0 - 5 H A 0 0 - 0 A □ 0

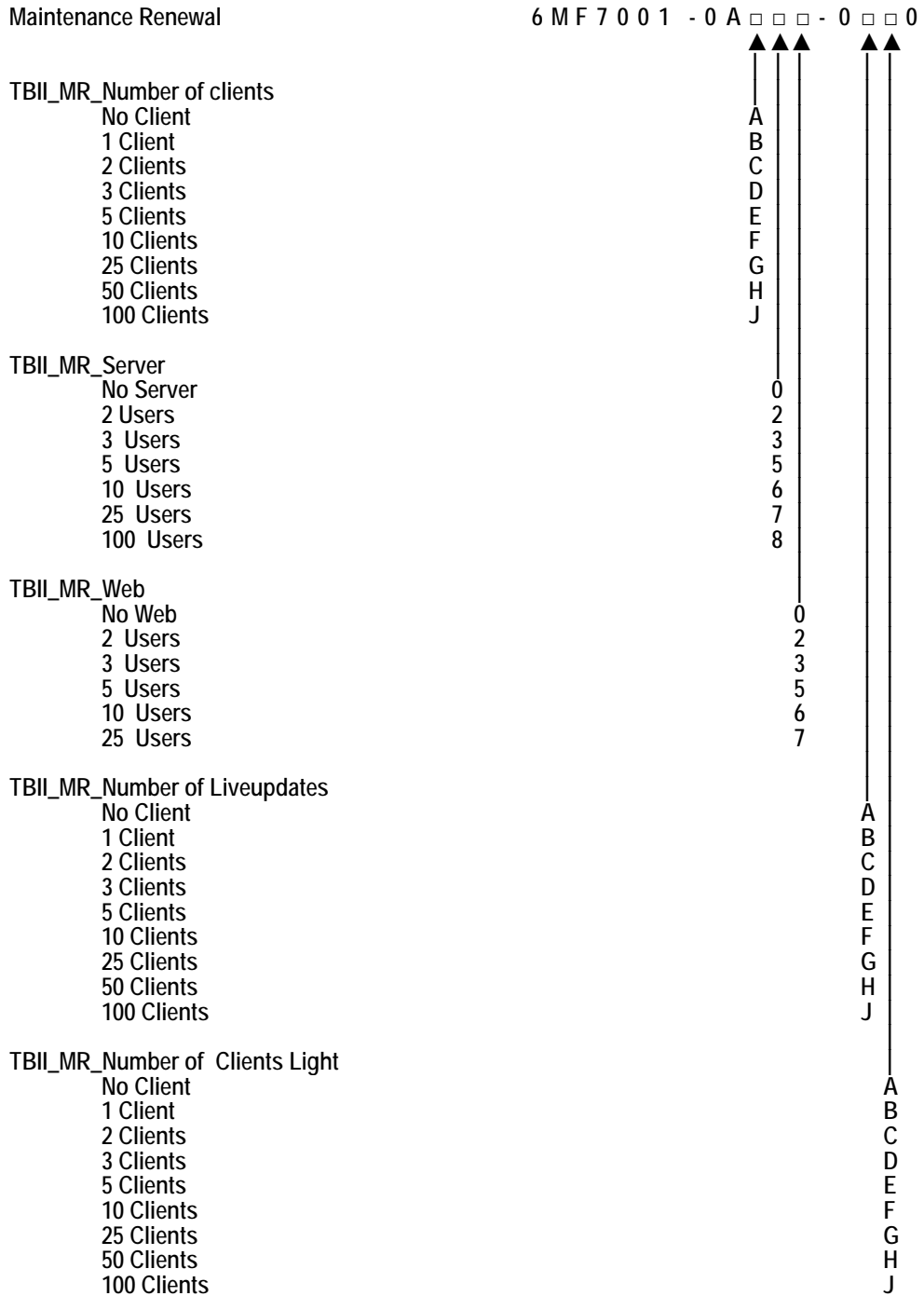
	▲	Item number	Designation
TBII_CAExplus_DONGLE-EXCHANGE	C	G95-521-Z	TBII_CAExplus_Hardlock-USB
TBII_CAExII_DONGLE-EXCHANGE	X	G95-520-Z	TBII_CAExII_Hardlock-USB

10. Maintenance Renewal

You have the possibility to use the latest version of SICAM TOOLBOX II throughout the period of the contract (five years).

Furthermore, all licences acquired via „Maintenance Renewal“ will be renewed, see the following table.

Precondition: Order of 6MF7001-0xx once a year, see the following table.



11. Toolsets

The SICAM TOOLBOX II for the engineering of SICAM RTUs includes the following Toolsets:

- EM II
- OPM II
- PSR II
- CAEx plus (for SICAM RTUs)
- CAEx safety
- CAExII (for Ax 1703 and SK 1703)

The corresponding Light versions are available for every one of the Toolsets mentioned. The Light licences are designed for smaller project configurations and in principle support the same functionality as the Full licences. The Light versions are limited to the management or editing of maximum 100 system elements or maximum 2000 signals per installed licence.

With Light licences there are no Server licences (since there is no Server-Client configuration).

Light versions can only be combined with other LIGHT versions. A combination of Light and Full versions of Toolsets is not possible.

11.1. TBII_EMII

The EM II (Engineering Manager) is the **Basic Package** for the integrated engineering of the product family SICAM RTUs, on which all other Toolsets are based and is therefore always to be installed. The EM II contains the central database, functions for Backup and Restore of the engineering data, User Role administration, configuration of the Multi-User operation and Language settings.

The EM II supports the import and export of parts of the configuration for on-site operations, the creation of stocks of backups as well as a range-wise work-sharing method of engineering and thereby automatically ensures the data consistency.

The heart of the data management of the SICAM TOOLBOX II is a central database, which all tools of the SICAM TOOLBOX II access and in which all information is stored. The advantage is obvious:

Information once entered is immediately available to all colleagues of a project and all tools and is always topical. That reduces the rate of errors, prevents double inputs and consequently reduces the engineering work.

Every other Toolset can be installed in any order according to demands and requirements.

11.2. TBII_PSR II

The PSR II (configuration and service processor) provides functions for the product family SICAM RTUs, such as the loading of parameters, diagnostics, test and simulation. All functions can be executed locally or over remote connections.

The PSR II enables simple and comfortable menu-guided online functions (diagnostics, loading, testing,...) for the product family SICAM RTUs, automatic diagnostic and test functions in the interplay with automation units.

For local diagnosis the SICAM TOOLBOX II is connected directly to the respective automation unit on-site. For remote parameterization and remote diagnosis it is interfaced to an optional, preferably central automation unit and works over the communication routes of the distributed automation system.

Precondition: Existing licence for EMII in the current version.

11.3. TBII_OPM II

The OPM II (object-oriented process data manager) is the central engineering tool of the SICAM TOOLBOX II for the automation systems according to process-technical aspects.

The OPM II enables the engineering, i.e. the acquisition, description, parameterization and documentation of the process-technical process and its associated data points, both for automation systems as well as control center systems.

One of the most essential features of the OPM II is the possibility to define technological objects of the process technique. According to the general object-oriented concepts, such as e.g. inheritance, these objects can be combined to form more significant objects. The object-oriented concepts applied in the OPM II can be used intuitively by the user and consequently enable a reduction of the engineering costs without a great deal of training. The OPM II enables the target system-neutral description of the process technique with its data points or process data. In doing so complete plants, such as e.g. an entire transformer substation, can be described from the process-technical perspective of the customer and provided with target system-neutral attributes.

During the target system-specific engineering that follows, system-technical objects are created from the parameters of the automation and control center systems and assigned to process-technical objects. As a result an integrated engineering of the automation and control center systems is carried out from a process-technical perspective.

General information that is not connected with the system technique of an automation or control center system (e.g. service interval time or place of installation of a unit) can also be managed with the OPM II. The name and the value ranges of these attributes can thereby be freely defined by the user in the OPM II and thus enable the central data management even for third-party systems. In addition the OPM II is open for the exchange of data to other IT systems.

Precondition: Existing licence for EMII in the current version.

Note: The PSR II is required for the loading of the parameters into the target system.

11.4. TBII_CAExplus

CAEx plus is used for creating logic-, open and closed loop control functions for SICAM RTUs automation systems.

The software package CAEx plus for SICAM TOOLBOX II V6 was developed in accordance with the IEC standard IEC 61131/3 and enables a particularly comfortable, fast and fully graphic creation, test and documentation of PLC applications for SICAM RTUs, logic-, open and closed loop control tasks in function diagram technology as well as IL and ST for corresponding SICAM RTUs automation units.

CAEx plus enables bumpless loading of the generated function diagram code, without a new startup of the controller being necessary.

In addition, besides the online test possibilities this package also enables the offline simulation of the configured logic-, open and closed loop control function without the target system present. Furthermore, the integrated oscilloscope function and the real-time archive enable a free representation of the chronological progression of binary and analog variables.

The price includes the software licence for CAEx plus and a USB CAEx plus Hardlock-Dongle according to the software licence terms.

Precondition: Existing licence for EMII and OPMII in the current version.

Note: Every installation requires a Dongle for the USB port. The Hardlock-Dongle is included in the price.

11.5. TBII_CAExsafety

The aim of Functional Safety is, that a machine or plant is constructed in such a way, that in the event of a fault the life or health of persons is not endangered and/or that no damage to the environment occurs.

An important feature of the SICAM TOOLBOX II V6.10 is the engineering for SICAM AK according to international standards for safety-relevant control systems.

CAEx safety is designed for the construction and operation of a failsafe SICAM RTUs automation system and provides suitable components in order to fulfill the safety classes determined in a risk assessment.



Warning

Before every single step, please observe the safety-relevant requirements of the corresponding manuals. All Use Cases and Checklists for planning, programming, installation, commissioning, maintenance and change are to be taken from the Safety Manual "SICAM RTUs, SAFETY", DC0-116-2.XX, see also <http://www.siemens.com/SICAM>.

All Safety I/O modules are constructed two-channel internally. The two integrated processors process the firmware in parallel, monitor each other, detect errors and with the occurrence of an error, switch immediately to a safe state and remain in that state.

- There is a separation between standard and safety-oriented automation tasks.
- The communication between a safety-oriented control system as well as assigned safety-oriented periphery takes place via the PROFIsafe protocol.
- The creation, verification and validation of the safety control systems is carried out with the CAEx *safety*-Toolset of the SICAM TOOLBOX II.
- The editing of the safety parameters is carried out with the OPM II. The verification and validation of the safety parameters is carried out with the CAEx *safety* Toolset of the SICAM TOOLBOX II.
- The generation of the user program takes place with the CAEx *plus* Toolset.

11.6. TBII_CAExII



Hint:

CAEx II runs under Windows XP only..
For CAExII under Windows 7 or Windows 8, refer to chapter 7.3, CAExII for Windows 7/8.

CAEx II is used for creating logic-, open and closed loop control functions for SK and Ax automation systems.

Together with a SICAM TOOLBOX II V6 installation, the software package CAEx II enables a particularly comfortable and fast creation, test and documentation of logic-, open and closed loop control tasks for PLC applications for Ax1703 und SK1703 VSR-elements, graphically in function diagram technology.

Besides the online test possibilities this package also enables the offline simulation of the configured logic-, open and closed loop control function without the target system present. Furthermore, the integrated oscilloscope function enables a freely configurable representation of the chronological progression of binary and analog variables. Freely configurable displays and lists enable the clear representation of selected simulation data.

The price includes the software licence for CAEx II as well as a USB Hardlock-Dongle according to the software licence terms.

A PC with an EGA graphic resolution is absolutely necessary for the operation of CAEx II.

Whether CAEx II works without errors on a PC, can be determined with a test program. This test program can be found on the Siemens Homepage in the Downloads section (<http://www.siemens.com/SICAM> under SICAM TOOLBOX II).

Precondition: Existing licence for EMII in the current version.

Note: Every installation requires a Dongle for the USB port. The Hardlock-Dongle is included in the price.

12. Add-ons

12.1. TBII_LIVEUPDATE

The LIVEUPDATE V6.0 offers the possibility, to provide collected current master data for the product lines SICAM RTUs and SICAM230 for one or multiple users. For the LIVEUPDATE a central point can also be defined as data basis for current master data, into which data from a SIEMENS server are loaded periodically and can be used by the users. New revisions are detected automatically and offered for download.

In addition descriptive texts for the particular revisions can be displayed. All accepted revisions are copied to the SICAM TOOLBOX II database and imported.

The output of the server is made available for 12 months from the date of licencing!.

Precondition: At least TBII_EMII_V6_Licence or TBII_EMII-Light_V6_Licence.

Note: LIVEUPDATE can be purchased as an extra package. It is to be observed for the operation of LIVEUPDATE, that no proxy server is set.

