Release Notes

SEE Electrical Expert V4R3 Service Pack 2 (4.82/A)

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I. Changes and Enhancements Made in *SEE Electrical Expert* V4R3 Service Pack 2 (4.82/A final version) Compared to V4R3 Service Pack 1 (4.81/D)

I.A. New Features and Enhancements

SEE Electrical Expert Configuration

▪ The available plugins are sorted alphanumerically in the **Plugins Manager** section of the *SEE Electrical Expert Configuration* window.

Project

▪ In case of failure of the repairing processes, automatically launched in particular cases, a report is displayed, containing information about the possible reasons and suggesting solutions for fixing the respective issues.

Schematic Editor

▪ The *"Gauge of wires and connection points compatibility"* cabling control process (that is activated in the dialogue called via the **Tools > Control…** command) able to analyse and handle situations when two wires are connected to the same connection point.
▪ When, following the execution of the **File > Export > Diagram for SEE Publisher** command, all project sheets are set to be exported in a single JSON file, the respective process generates the sheets in the order they are sorted in the *Sheet Explorer*.

Environment

▪ A new pop-up command in the *Environment Explorer* enables creation of a Working Environment from the active one. This environment can be used and modified only by its creator, who can make it accessible for other users via a new **Activate** command.
▪ A new command in the *Environment Explorer* enables comparison of the active environment with a temporary one created automatically from the current project, followed by automatic creation of a new environment that contains the differences between the compared environments.
▪ A new mode in the Environment Manager enables synchronization of two environments from a **V4R3** version of *SEE Electrical Expert*.
Concerning the Catalogue, the synchronization works only with *MDB* format (*SQL* format will be managed in *SEE Electrical Expert* V5).
▪ Optimization of the Catalogue updating process when **Update environment** is executed – the process checks only the field *"Date of update"* of the Equipment Catalogue (instead of checking all fields, as it was in the previous versions).
▪ Optimization of the symbols synchronization process.

Label Export

- Possible to indicate where the Neutral *XML* file is to be generated, i.e. to specify the path to the location of this file.
- Partex plugin for label export:
  - ✓ Added fields: "Additive_Code1" to "Additive_Code9" in the Neutral *XML* file.
  - ✓ In the "Product code" field (of the Partex format) added the value of the "Additive_Code1" field (from the Neutral *XML* file).
- When the data to export is set to be sorted by "Location" or by "Sheet", the exported Labels are first sorted according to the specified criteria and then alphanumerical sorting of the Labels is performed within the respective Locations or Sheets.
- Equipment not inserted in the Schematic Sheets (as terminals created in the Terminal Strip Editor) is also taken into account by the process, and the respective Labels – extracted.

PLC I/O Configuration Manager

- New command: **Moduls address calculation mapping** in the **Options** menu allows defining, for all kinds of modules, the Channels default numbering format.
- An **Address** pop-up command is available on each existing Module, allowing you to separately define or change the particular Channels numbering format and apply it to the respective Module.
- When a Module has an Equipment Code assigned, it is no longer possible to add Channels on it.
- Possible to import files of *AML* format from the Siemens' *TIA Portal* V14.

Printing

- New button: **Languages**, available in both the *Print Manager* and *Print Preview* windows, allows selecting the printing language.

API

- Possible to define a main Equipment Code and linked additive Equipment Codes via API.

I.B. Fixed Issues

2D Panel

BM23186	The equipment code of the same panel being present in two layout sheets (on the same location) is counted twice in the generated Part List.
BM23408	Impossible to insert a Connector on a rail.

3D Panel

BM23571	Crash of *SEE Electrical Expert* when loading components in the *3D Panel*.

Cables

BM22239	At the first insertion of a cable, its "CODE" attribute (of Catalog type) does not retrieve the relevant information.
BM604715	In a multi-wire cable, wire function is removed when changing the cable/strands colours.

Copy/Paste

BM20752	The options *"Merge"* and *"Create New"*, set for the **"Copy/Paste Type"** in the *General* edition settings, do not work.
BM21848	Terminal numbers not kept after **Cut**/**Paste Special**.
BM22271	After copying/pasting particular Parameter Sheets, within the **Parameter Sheet Explorer**, the new ones (those that have been pasted) are not available for selection in the respective **Editing** method.

DWG/DXF

BM1602358	When importing an AutoCad file, the lines are converted into splines.

Electric Data Explorer

BM22983	Wrong sorting of the Sheets when they have numbers with indexes (i.e. a complement format is defined for the sheets numbering in the respective method).
BM1300983	The "Ctrl+ Double click" keyboard shortcut does not work in the **Cable** tab for opening a Terminal Strip.

Environment Manager

BM605189	Incorrect message displayed when the application is launched.

Environment Methods

BM22758	Wrong characters (after Methods validation) when specific initial values are defined for default attributes in the **Sheets and Attributes** Method.

Harness Editor

BM14272	The **Undo** functionality does not work properly
BM23412	The data displayed on the Harness Sheet disappears when the *"Harness Links Visibility"* icon is activated.

Installation

BM23106	Translated module name available for selection in Custom installation mode.
BM23220	When French language is selected during the installation and then English language is selected for running the software, the English "Tips of the day" are missing.
BM23430	The "Cable identification" plugin is automatically enabled.
BM23469	Impossible to launch *SEE Electrical Expert* without Administration rights.

Label Export

BM23486	The *IDH* file, generated for Cembre, does not contain the Labels
BM1401575	In the generated file, the wire labels number, when calculated according to the number of the connected connection points, is distributed on several lines instead of the being displayed (in total) on a single line only.

List Reports

BM1601863	Filters on Terminal symbols not taken into consideration (not applied) by the generation process.

Messages

BM23277	Incorrect translation of an option for the **Update WD attributes and connection points of symbol** process in the French version
BM23308	Texts to homogenize in the Technical Information concerning the software protection.
BM23328	In the French version, incorrect translation of the tooltip to the icon for filtering harnesses.
BM23343	Several incorrect translations in the French version.
BM23344	In the French version, when an existing Equipment Code is entered in the **Equipment Catalogue**, the displayed message is in English.
BM23347	Incorrect translations in the *SEE Electrical Expert* Configurator.
BM23378	Incorrect translation in the *Harness* Method.
BM23417	Incorrect message when checking Internet protection (in the French version).
BM23418	Options not completely visible in the **Connector and Pin Association for Insertion** Method.
BM23424	Display error for an option in the **Connector and Pin Association for Insertion** Method.
BM23456	In the English version, some fields appear in French in the dialogue called through the **Modify field**/**Add field** buttons in the **See Catalog Utilities Tool** (accessed via the **Tools > Add or Modify field into multiple classes** command in the Equipment Catalogue).

BM23487	Some incorrect translations in the French version.
BM23552	Problem of options display in the ***Update of symbols, illustrations and connections inserted in sheets*** window.
BM23579	Translation of the commands **Import > Comments…** / **Export > Comments**…
BM23580	Bad translation in the "Internet protection" configurator.
BM23603	Text to correct in the ***Wire Extremities*** dialogue.
BM1300977	Incorrect translation of a message displayed at project opening in the Spanish version.
BM1300979	In the Spanish version, incorrect translation in the General Settings (within the dialogue called via **Options > Settings**) for.
BM1300980	In the Spanish version, incomplete visibility of an option in the window called via the **File > Update according to the environment command**.
BM1300985	In the Spanish version, incorrect translation in the **Cross-References** Method.

Migration

BM23130	Lost translation in a project migrated from V3R7 to V4R2.
BM605173	After migration of a project from V3R7 to V4R2, the WD attributes on some OPR symbols are lost.

Multi Language

BM605195	The modification of the location description for a Location symbol is not propagated to the other Location symbols from the same location

Multi-User

BM605203	Problem with project opening after using **Undo**/**Redo**.
BM1300953	In the ***Sheet*** tab of the ***Electric Data Explorer***, the Sheets opened by another user are not displayed in red pen.

Other

BM23398	***See Change Symbol Attributes Properties Plugin*** dialogue (called via **Tools > SEE Change Symbol Attributes Properties Plugin**): Error message displayed when loading project attributes.
BM23400	**Cancel** button is missing in the ***See Change Symbol Attributes Properties Plugin*** dialogue.
BM23402	No attribute is selected by default after attributes have been loaded within the ***See Change Symbol Attributes Properties Plugin*** dialogue.

PLC I/O Manager

BM23589	Crash when pasting a Module.
BM605209	Crash after creation of a new configuration.
BM605210	Impossible to select an Equipment Code at creation of a new API via the **File** > **New** command.
BM605211	The saved PLC configuration is removed when the project is closed.

Protection

BM23090	Impossible to change the software language when *SEE Electrical Expert* is using ILS protection.
BM23287	Crash at clicking the **Protection Key** section in the **SEE Electrical Expert Configuration** window when the *"Network license key (HaspLM server)"* protection type is used.
BM23494	With a *"Network license key (HaspLM server)"* license, nothing is displayed when clicking **<?>** > **Technical Information** or **<?>** > **About**.

Schematic Editor

BM15408	No refresh when the visibility of the empty attributes is activated/deactivated.
BM19105	Impossible to keep the size of the "search" dialogue.
BM23232	When multiple OPR symbols are inserted, the WD attributes, which are to display the respective Source and Destination tags, have wrong values.
BM23376	In the **Properties** dialogues of the "Channel" and "Line Group" symbols, it is impossible to enable the *"Limited propagation"* check box.
BM23393	When saving reports resulting from the **Tools** > **Control…** process, the generated file is empty.
BM605140	Dynamic zoom does not work when a command (from the **Edit** or **Insert** menu) is activated.

Sheet Explorer

BM23330	When the icon for displaying only texts and drawings is activated, grouped entities or objects are not taken into account.

Symbol Tagging

BM18852	Impossible to freeze or unfreeze the cable Label.
BM1401569	When a piece of equipment is being inserted in the Layout sheet, its tag (displayed in the respective **CAD Properties** dialogue) is incorrect

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Synoptic Editor

BM605149	When a prefix and/or a suffix are used for the name of a symbol's attribute, the respective value is printed twice (overwritten).

Terminals

BM23421	Crash when renumbering terminals.

Translation Module

BM23452	The option *"Do not translate words containing at least one not translatable characters"* (in the *Translation Settings* dialogue) does not work correctly.

I.C. Known Issues and Workarounds

Issues to be fixed in V4R3 Service Pack 2 (4.82/B)

3D Panel

BM23613	The 3D Panel sheets are duplicated in the EDE – each displayed also within the *Tree view of sheets*, under the Schematic Sheet with the same number.

Environment Catalogue

BM23582	The *"Date of update"* field is not updated after an import from the *SEE Web Catalog*.

Environment Manager

BM23453	When comparing two environments with the **"New only"** option activated, the modified entities are also treated.

Harness Editor

BM23439	The filter on the tags of the Connective equipment connected to a Harness does not work correctly.

Options & Variants

BM23411	Impossible to assign a validity on existing texts and drawings after modification of the configuration.
BM1300992	When generating a *PDF* file, the **Validity…** button is not available.

Other

BM23523	Wire List Import: Error message during the creation of *SEE Electrical Expert* sheets.

PLC I/O Manager

BM23586	At *SLF* generation, the second part of a rack is not generated and error message displayed.
BM23588	The *SLF* generation time is multiplied by 10 compared to the time consumed in V4R2 for the same configuration.
BM23590	The *SLF* generation does not work for a configuration with an interface.
BM23591	When a configuration is updated, the sheets of the other configuration are removed.
BM605229	Crash when launching the tool.

Protection

BM23575	Error message when launching the software with a *"Local license key (Dongle)"* protection, if the *"**Automatically take the module during opening multi-languages project**"* option is disabled (in the **Advanced protection settings** section of the *SEE Electrical Expert* Configurator).
BM23584	Selection of an application language in the Configurator is not possible with an Internet licence
BM23593	Modules are abnormally Free with an Internet licence.

I.D. Limitations and Restrictions

I.D.1. SEE Electrical Expert

✓ *SEE Electrical Expert* cannot be run under *Windows* XP.

✓ *SEE Electrical Expert* V4R3 needs a **Flex LM** version that is equal or upper to **11.14.02** to use this type of protection. The "**Visual C++ Redistribute for Visual Studio 2015**" component has to be installed on the server where **Flex LM** is installed. Normally, this component is automatically installed with the *Windows* Update.

✓ Project maximal size is 1.8 GB.

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✓ The **multi-language features** of a project are protected by the **"Translation" license**.
Editing texts or attributes is possible to be carried out in all project languages only provided you have the "Translation" module included in your license.
If you do not have the "Translation" module, you are allowed to consult the project in each project language but modifications can only be made in the "main" language.

✓ The migration process does not recreate the **hyperlinks** in projects created with V4R1 or previous versions of *SEE Electrical Expert*. To have the hyperlinks available on migrated projects, you have to rebuild the cross references and then generate the part lists and table of contents again.

✓ **PDF Export**: To activate the hyperlinks in *Adobe Acrobat Pro*, click **Edit > Preferences…**, select the **Documents** category in the left pane of the displayed *Preferences* window and then choose "Never" from the drop-down list available for the **"View documents in PDF/A mode"** setting.

✓ SEE **Workspace** (SWS files generated through **Options/Customize** - **Export** button) that were saved with versions lower or equal to V4R1 are not supported by V4R3.

✓ **SEE Equipment Database** supports *MS SQL* Server 2008, 2012 and 2014 ("Part List Manager" license is required).

✓ Versions greater or equal to V4 **do no longer** support *MS SQL or Oracle* **database for the parts list** processes.

✓ If you are using *Local Server Borrowing* (LSB) or *Internet License Server* (ILS) Protection, it is impossible to change the software language after the installation.

I.D.2. SEE Electrical 3D Panel

✓ *SEE Electrical 3D Panel* has its own installer and is **not installed with** *SEE Electrical Expert*.

I.D.3. SEE Automatic Diagram Generation Module

✓ The *SEE Automatic Diagram Generation* module has its own installer and is **not installed with** *SEE Electrical Expert*.
✓ This module is protected by a license.
✓ The *SEE Automatic Diagram Generation* module **needs *MS Excel*** and is compatible with the **32 and 64 bits** versions of *MS Excel* **2010, 2013 and 2016**.
✓ It is not possible to add variables for layout or harness blocks in the Block Param Editor.

I.D.4. Concurrent Engineering Module (Multi-User Mode)

✓ The *Concurrent Engineering* **module (Multi-User mode) is compatible with** *MS SQ*L **Server 2012 and 2014** databases for project data storage.
✓ The *Concurrent Engineering* module **needs** *SEE User Access*.
✓ In Multi-User mode (*Concurrent Engineering* module), the option **"Automatically save project content when closing project"** (in the *Settings* window of *SEE Electrical Expert*) does not work when **not enabled**.

I.D.5. Open Data Module

✓ The *Open Data* module needs *MS Excel* and is compatible only with the 32-bits version.

I.D.6. End Fitting Module

✓ To migrate the data stored (until V4R1) in cable attributes to the new extremity attributes in V4R3, the "End Fitting migration to V4R3 (4.80)" plugin must be installed and activated.

I.D.7. 3D Panel For SolidWorks Module

✓ The "old" *3D Panel for SolidWorks* module is no longer supported by *SEE Electrical Expert* versions that are greater or equal to V4R3.
✓ A 3D panel layout created with this module (before V4R3) cannot be migrated to the new *3D Panel* module.

I.D.8. Macro

✓ To execute a macro on *SEE Electrical Expert* versions greater or equal to V4R3, you need to have a **VBA version 7.1 32 bit** (not 64 bit) installed.

I.D.9. SmarTeam Integration Module

✓ The *SmarTeam Integration* module of *SEE Electrical Expert* V4, V4R1, V4R2, and V4R3 supports the SmarTeam releases V5R19 to V5R27.

I.E. Compatibility with Other IGE+XAO Products

I.E.1. SEE Project Manager

SEE Electrical Expert V4R3 Service Pack 2 (4.82/A) is compatible with *SEE Project Manager* **V8R2** SP 7 - Patch K or L, and **V8R3** Patch C.

I.E.2. SEE Access Control

SEE Electrical Expert V4R3 Service Pack 2 (4.82/A) supports only the version **4.50/E** of *SEE User Access*.
Customers using older *SEE User Access* versions have to migrate their databases via the *SEE User Access Admin Tool*.

I.E.3. SEE Automatic Diagram Generation

SEE Electrical Expert V4R3 Service Pack 2 (4.82/A) supports the version V4.80/A of *SEE Automatic Diagram Generation*.

I.E.4. SEE Electrical 3D Panel

SEE Electrical Expert V4R3 Service Pack 2 (4.82/A) supports **V1R4 Service Pack 1** of *SEE Electrical 3D Panel*.

I.E.5. SEE Electrical Jigboard

SEE Electrical Expert V4R3 Service Pack 2 (4.82/A) supports the version **V4R7** of *SEE Electrical Jigboard*.

I.F. System Requirements

I.F.1. Advisable System Configuration

For Mono-User Mode:

- Microsoft *Windows* 7 Home Premium, Professional, Ultimate, Enterprise
- 64 bits Operating System to be installed on a 64 bits computer
- Processor: i3 class, 2 GHz.
- RAM: 4 GB.
- 500 MB of free disk space required for the installation.
- In order to optimize the *SEE Electrical Expert* performance on your computer, it is recommended that you use an SSD hard drive
- Graphic Card: 1280 x 1024.

For Multi-User Mode (Concurrent Engineering):

The requirements are different for the Server and for the Client.

For the Server:
- Microsoft *Windows* Server 2008 R2 64 bits or newer.
- Microsoft *SQL* Server 2008 R2 (PROFESSIONAL version strongly recommended; EXPRESS EDITION version possible to be used with limitations).
- Processor: i7 class, 3 GHz.
- RAM: 12 GB (+ 1 GB by client).
- 200 GB of free disk space required for the installation.
- LAN (Network Card): 1 GB.

For the Client:
- Microsoft *Windows* 7 (64 bits).
- Processor: i3 class, 2 GHz.
- RAM: 4 GB.
- 500 MB of free disk space required for the installation.
- In order to optimize the *SEE Electrical Expert* performance on your computer, it is recommended that you use an SSD hard drive
- Network Card: 1 GB.
- Graphic Card: 1280 x 1024.

For using the 3D Panel:

- Microsoft *Windows* 7 Home Premium, Professional, Ultimate, Enterprise.
- Processor: i5 class, 2 GHz.
- RAM: 4 GB.
- 1 GB of free disk space required for the installation with the 3D Parts library, provided by default.
- Graphic Card: full support of OpenGl required, as well as 1 GB of dedicated memory.

I.F.2. Windows Compatibility

SEE Electrical Expert V4R3 supports:
- ✓ Microsoft **Windows 10 Pro** (32 and 64 bits), as well as Microsoft **Windows 10 Enterprise** (32 and 64 bits).
- ✓ Microsoft **Windows 8** and Microsoft **Windows 8.1** (except for the RT version for mobile devices).
- ✓ Microsoft **Windows 7**.

Microsoft **Windows XP** is **not** supported by *SEE Electrical Expert V4R3.*

I.F.3. Virtual Solutions Compatibility

SEE Project Manager and *SEE Electrical Expert* are compatible with the Microsoft App-V and VMWare virtual solutions.

Microsoft App-V or VMWare

No compatibility issues reported for these two virtual solutions.