Release Notes

SEE Electrical Expert
V4R3 Service Pack 7 (4.87/A)

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I.   Changes and Enhancements Made in *SEE Electrical Expert* V4R3 Service Pack 7 - 4.87/A Compared to V4R3 Service Pack 6 - 4.86/C

I.A. New Features and Enhancements

3D Panel

▪   External tagging kept after loading more than once a wire created in *SEE Electrical Expert*.

3D View Insertion

▪   Possible to insert a very big 3D Print view in the schematic sheet (via the command **Insert > Insert 3d View**) – a setting added in the registry allows cancelling the size limitations for the inserted vector images.

Copy/Paste

▪   At the execution of **Paste special**, the existing locations and functions are sorted alphanumerically in the corresponding tabs of the ***Copying Parameters*** dialogue.
▪   **Paste special** improved so that the symbols belonging to a family not existing in the environment are also copied/pasted.

Connective Equipment Insertion

▪   Improved the process **Automatic insertion of Harness Connective Equipment.**
When launched on a cable connected to only two pieces of Harness Connective Equipment, these ones are positioned opposite to each other by the insertion process.

Data Extraction by Location

▪   A new dialogue added to allow selection of the Locations from which to extract the data.

E-Catalogue

▪   Enhanced the display of the grid listing the available PNs (possible to be chosen) in the ***Equipment selection*** dialogue.

Environment

- Possible to assign a particular standard (IEC, IEEE, CEI-IEC, etc.) to an environment.

JSON Sheet Generation

- Enhancement in the process so that sheets are generated in the order they are displayed in the *Sheet Explorer*.

Plugins

- Reorganized the Final folder structure for the Open Data plugin.

Protection

- License not checked when the "Next" tagging mode is applied for cables.

SEE Automatic Diagram Generation

- Added an option that enables choosing whether to keep the symbols definitions or update them according to the respective project symbols

Symbol Export

- Improved the symbol exportation to Jigboard format to retrieve the line style and colour, with possibility for modifying the line style.

API

- For the insertion of a Block containing a symbol definition different from that in the environment, added the possibility for choosing between the original symbol definition and the environment symbol definition.
- Created new API methods – for retrieving elements (Symbols, Connectors, Cables, Terminal Strips) by tag.

XML

- Modified the PassThrough and EndFitting management

I.B. Fixed Issues

Blocks

Ticket ID: 7594	After inserting a block, some pins are missing.

Configurator

Ticket ID: 5762	Impossible to find the environment path.

Copy/Paste

Ticket ID: 7417	If symbols do not exist in the environment, these ones are not "copied" with a **Paste special**.
Ticket ID: 7483	After **Paste special**, the locations are not sorted.

Ergonomy

Ticket ID: 8127	Bad default size of the ***Attribute*** window in the French version.

Installation

Ticket ID: 8026	Incorrect name and description of the new block OPR plugin.

Options & Variants

Ticket ID: 7954	Lost sheet validity after copying/pasting a text/symbol/drawing from a sheet into another one.

Other

Ticket ID: 6240	ADG: When inserting several times the same block, the symbols and/or connections are not tagged.
Ticket ID: 6516	Impossible to insert a very big 3D Print view.
Ticket ID: 7748	Performance: Terminal strip sheets generation regression.
Ticket ID: 7824	Performance: slowdown when working with this environment.

PLC I/O Manager

Ticket ID: 6496	PLC module does not work when a network access path is specified as the environment root directory.
Ticket ID: 7685	In the generated sheets, the last term used in the mnemonic is repeated.

Plugins

Ticket ID: 8843	See PDM Connect: When closing the project without saving it, the generated XML files are wrong.

Printing

Ticket ID: 7965	Texts contained in object groups are not generated in the CGM/SVG files

Signals

Ticket ID: 6217	Lost the signal labels positions when removing signal numbers.

Symbols

Ticket ID: 7394	After changing the English description of symbol family, the Polish description is displayed.

Translation

Ticket ID: 7655	The non-translatable text disappears after the translation.
Ticket ID: 8159	Some sentences are not translated if the "Word-to-word Translation" option is enabled.

Terminals

Ticket ID: 7717	The "**Authorize generation of several terminal strips per sheet**" option does not work.
Ticket ID: 8753	Crash when generating all terminals strips.

I.C. Known Issues and Workarounds

Issues to be fixed in V4R3 Service Pack 7 (4.87/B)

2D Panel

Ticket ID: 7924	When pasting the equipment code of a rail to another one, its dimensions are not updated.

3D Panel

Ticket ID: 581	In Net Mode, the length of the wires is not retrieved in SEE XP.

Blocks

Ticket ID: 9050	Signal Number lost after block insertion.

Cables

Ticket ID: 4400	Cannot update the names of the strands of inserted cables.
Ticket ID: 5323	Cannot have an "empty" value in the **Gauge** field.
Ticket ID: 6444	The process (of tagging) does not take into account the inverted locations.

Copy/Paste

Ticket ID: 7383	Incorrect cable location (From/To) after using **Paste special**.

Connectors

Ticket ID: 5705	Lost equipment code in pin's CAD attributes.

DXF/DWG

Ticket ID: 8246	The blocks are imported on the creation layer, and not on the insertion layer.
Ticket ID: 8399	Shift of the cross referencing after a DWG exportation.

Label Export

Ticket ID: 7890	Incorrect terminal labels exported with Wago.
Ticket ID: 8541	The calculated number of labels is incorrect.
Ticket ID: 8703	Incorrect label number for wires.
Ticket ID: 9051	Some cable wires are extracted in wire file (when only connections are selected)

Options & Variants

Ticket ID: 8848	Crash when saving a project with a validity.

Other

Ticket ID: 6454	The filter on the manufacturer takes 27s to be displayed.
Ticket ID: 6457	PN Choice: Fit the height of the frame containing the grid to the height of the integrated SEE Database Browser.

Project

Ticket ID: 8228	Do not save in the project the equipment catalogue images assigned to symbols.

Protection

Ticket ID: 7636	In a customer project, impossible to insert a cable if Labeling is not programmed.
Ticket ID: 7642	Error message about the bundle when launching the software.
Ticket ID: 7783	With a LLS, the license borrowed for 90 days is blocked after about 11 days.
Ticket ID: 7849	Launching SEE Electrical Expert V4R3 causes spontaneous reprogramming of the NetHASP protection key.

Report Lists

Ticket ID: 8770	Incorrect table of contents if the group level is equal to 9.

Ticket ID: 8830	Cannot generate the part list.
Ticket ID: 8984	At symbol list extraction/generation, the location is not extracted for some black boxes.

Sheets

Ticket ID: 7596	Impossible to rename a group after inserting a block in a new sheet.

Symbols

Ticket ID: 7809	Cannot validate again an equipment code on a symbol if the **Minimum input voltage** or **Maximum input voltage** field is empty.
Ticket ID: 8553	In the contextual menu on a cable symbol, the **Layout Sheet** sub-command (of the **Go to** contextual command) is displayed twice.
Ticket ID: 8780	Impossible to select a Part Number with voltage for a connection.
Ticket ID: 8953	For the black boxes, the values of Connection point User attributes are not saved.

Terminals

Ticket ID: 6677	Syntax error in the terminal strip settings.
Ticket ID: 8165	Incorrect numbering on a multi-level terminal when using several types of terminals.

Xelec Convertor

Ticket ID: 5907	Problem with redirections in environments.
Ticket ID: 8863	Missing texts in dialogues.

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.

✓ 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) saved with versions lower or equal to V4R2 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.

✓ **Equipment Catalogue**: the *"Date of update"* field is automatically updated at execution of the relevant functionalities that allow/initiate creation, importation and modification of Equipment Codes
However, there are particular cases when the field is not updated – these are:

   ✓ Modification of Equipment Codes directly in the Access base.

   ✓ Download of Equipment Codes from CSV and XML files.

   ✓ Download of Equipment Codes having ASCII Formatted format, dBase format and Class format.

   ✓ Modification of a field value via the command **Edit > Change field value…**.

   ✓ Modification of a field via the command **Tools > Add or Modify field into multiple classes**.

- ✓ **PLC I/O Manager**:
    - ✓ With **Block Generation** option activated (in the *Options* menu), it is **impossible** to export interfaces in the generated PLC sheets (this process is only possible when the **SIf Generation** option is activated).
    - ✓ Impossible to import configurations with formats:
        - ▪ FNE, EDI LOG and TXT.
        - ▪ ACCESS with a structure different from IGE format.
    - ✓ Impossible to export a configuration.
    - ✓ In a configuration, it is impossible to define several blocks of intermediary cards.

- ✓ **Environment Manager**: The Merge, Compare and Update processes work only between environments that have the same structure (i.e. the same Classes and Fields).

- ✓ **Block Variables Editor***:
    - ✓ does not retrieve attributes from Blocks and Standard Diagrams created in Layout sheets.
    - ✓ retrieves only symbols' Location and Function from Blocks and Standard Diagrams created in Synoptic sheets.

I.D.2. SEE Automatic Diagram Generation Module

- ✓ The *SEE Automatic Diagram Generation* module has its own installer - it 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.3. Concurrent Engineering Module (Multi-User Mode)

- ✓ The *Concurrent Engineering* module (Multi-User mode) works with *MS SQ*L Server 2012 and 2014 database to store project data.
- ✓ The Concurrent Engineering module **needs SEE Access Control**.
- ✓ 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**.

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I.D.4. Open Data Module

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

I.D.5. End Fitting Module

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

I.D.6. 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.7. 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.8. 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 7 (4.87/A) is compatible with *SEE Project Manager* V8R2 SP7 - Patch K or L, and V8R3 Patch C.

I.E.2. SEE Access Control

SEE Electrical Expert V4R3 Service Pack 7 (4.87/A) supports only the version 4.50/E of *SEE Access Control*.
Customers using older *SEE User Access* versions have to migrate their databases via the *SEE Access Control Administration Tool*.

I.E.3. SEE Automatic Diagram Generation

SEE Electrical Expert V4R3 Service Pack 7 (4.87/A) supports the version V4.82/A of *SEE Automatic Diagram Generation*.

I.E.4. SEE Electrical Jigboard

SEE Electrical Expert V4R3 Service Pack 7 (4.87/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, but strongly recommended are 8 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, 2GHz3 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 SEE Electrical 3D Panel:

- Microsoft *Windows* 7 Home Premium, Professional, Ultimate, Enterprise.
- Processor: Intel® Core™ i7 >3 GHz or equivalent.
- RAM: 8 GB.
- 1 GB of free disk space required for the installation with the 3D Parts library provided by default.
- Graphic Card: NVIDIA GeForce® GTX 4 GB of dedicated memory, or equivalent.

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.