Release Notes

SEE Electrical Expert
V4R3 Service Pack 4 (4.84/B)

IGE+XAO
GROUP

Shaping the Future
of the Electrical PLM,
CAD and Simulation

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I. Changes and Enhancements Made in *SEE Electrical Expert* V4R3 Service Pack 4 (4.84/B) Compared to V4R3 Service Pack 4 (4.84/A)

I.A. New Features and Enhancements

Part Lists

▪ The **$E:** metacommand, when inserted in the Parameter Sheets, extracts the values of all component properties of which the Tag/Label formats are composed (including the newly introduced ones).

Open Data

▪ When a project is exported, the process checks the specified level for the location uniqueness.
If it is set to a certain Group Level, then for each symbol the path to the respective group is detected and saved in the new column: **"Group"** that is added in the generated XLS file.

Plugins

▪ SEE Mapping Plugin (listed in the Plugins Manager section of the SEE Configurator): renamed to "SEE Symbol base attribute for additional codes", and its description – changed appropriately.
▪ SEE PLC Plugin: possible to generate configuration (during generation by blocks) when several intermediate blocks are declared.

Ergonomy

▪ When switching from Harness to Schematic sheet, the positions and sizes of the Electric Data Explorer and of the other docked explorers are kept.

Security

▪ Possible to enable/disable the recording of the SAC errors in the generated logs.

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I.B. Fixed Issues

2D Panel

ID4085	Message: "Framed" during insertion of the rail or wireway

3D Panel

ID4073	Impossible to launch the 3D Panel after a PLC importation.

Cables

ID4157	Impossible to insert a cable having an equipment code on a connection that has "Shielded" category.
ID4148	When entering "N" for a wire tag, the value: "-1" is added to the tag displayed in the dialogue.
ID4076	Incorrect request of the Cable catalogue field "TYPE_CABLE" via a WD Attribute

Connections

ID4184	After vertical symmetry is applied on a symbol, all connections disappear.

Environment

ID4189	In the **Harness** method, the status (enabled) of the "Manufacturing mode" option is not kept.
ID4150	Environment Manager: Compare active and project environment command (in the Environment menu).
ID2173	In the **Symbol Tagging** method, impossible to enter lower case letters for the "Text" option in the **Format Definition** dialogue.

Messages

ID4062	French version: Error texts on some windows in the PLC I/O Manager.
ID4054	Spanish version: Wrong message when selecting a channel in the PLC I/O Manager - change the text "Nemotécnico" by "Mnemónico".
ID4053	Spanish version: Change a text displayed when selecting a module in the PLC I/O Manager.

ID4052	Spanish version: Change the contextual sub-command for creation of a new Rack in the PLC I/O Manager.
ID4050	Spanish version: Change the text "Grabar" by "Guardar" in the **File** menu of the PLC I/O Manager.
ID3815	Chinese version: Wrong translation in the Equipment selection window (accessed via Tools > Toolbox > Environment > Update > Equipments > Conversion equipments to part number in XML format)
ID3465	Chinese version: Wrong translations in the PLC I/O Manager.
ID3424	French version: Incorrect name of the window for Accessories properties.
ID3378	Spanish version: Change a text in the Properties tab of a PLC module selected in the PLC I/O Manager.
ID3348	An attribute without a value (not mapped to any macro or value) should be empty.
ID3342	Bad code when importing unity configuration.

Other

ID4249	Settings: The position of the Symbol Explorer is not saved when switching between Schematic and Synoptic Editors.
ID4289	Channel insertion plugin: The location on the card is deleted after inserting a channel manually.

PLC I/O Manager

ID4014	Error when selecting the "PCD3.M5540" equipment code.
ID3999	Error message when selecting a reference on an API.
ID3983	Incorrect message during generation by block
ID3201	The module size value is not correct.
ID3200	When renaming manually an API it is possible to assign to it the same label as that of an existing one
ID2378	Bad position of buttons in the dialogues.

Protection

ID3223	Protection error in the software key when switching between V4R2 and V4R3 on the same computer.

Reports Lists

ID4178	When exporting Part Lists in XLS files, MS Excel does not open..

Schematic Editor

ID4063	When moving part of the diagram, some additional connections are created.
ID4090	Configuration settings: the option "Turn on support for high-DPI resolutions" does not work for 4K resolution.

Sheet Explorer

ID4213	Sheets disappear after renaming the group they belong to.

Translation

ID3211	The character "@" is not displayed for untranslated sentences.
ID3210	Sentences containing a "#" character are not correctly translated.

I.C. Known Issues and Workarounds

Issues to be fixed in V4R3 Service Pack 4 (4.84/C)

Not defined yet.

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 V4R1 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 **Slf 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.

- ✓ 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 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) 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**.

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 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.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 4 (4.84/B) 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 4 (4.84/B) 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 Admin Tool.

I.E.3. SEE Automatic Diagram Generation

SEE Electrical Expert V4R3 Service Pack 4 (4.84/B) supports the version V4.80/A of SEE Automatic Diagram Generation.

I.E.4. SEE Electrical 3D Panel

SEE Electrical Expert Service Pack 4 (4.84/B) supports V1R5 Service Pack 1 of *SEE Electrical 3D Panel*.

I.E.5. SEE Electrical Jigboard

SEE Electrical Expert V4R3 Service Pack 4 (4.84/B) 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.