

# Release Notes

## SEE Electrical Expert V4R3 Service Pack 7 (4.87/B)

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

## I.A. New Features and Enhancements

### 2D Panel (Layout Sheet)

- When, after copying a rail, its equipment code is pasted to another one (via the command for pasting specific attributes), the Y and Z dimensions of the latter are accordingly updated.
- Introduced a contextual command that allows resizing a newly inserted illustration.

### Block Explorer

- Added ability to sort blocks by Function and Sub-Function – via relevant contextual commands.

### Cables

- Possible to have an empty value in the "**Gauge**" field of the **CAD Attributes** dialogue.

### Copy/Paste

- **Paste Special** of a cable improved so that the manually changed locations (From/To) of the copied cable are kept.

### DXF/DWG

- DWG importation enhanced so that the blocks are imported not on the layers on which they were initially created but on their insertion layers.

### E-Catalogue

- Renamed the field "eCatalogClass" to "ClassName".

## Equipment Code Selection

- When changing an assigned Equipment Code with a new one, its validation is no more blocked in case of voltage incoherence.

## JSON Export

- Introduced a new option that enables generation of one zipped file per group selected – each ZIP is to contain separate JSON files created for the particular sheets from the respective group.

## Plugins

- PDF Comment Import plugin improved so that during comments importation from a PDF file, duplication of the same comment does not occur.

## Protection

- Changed the time of detection of the license validity expiry.

## SEE Automatic Diagram Generation

- Added possibility for setting dimensions (for Layout and Harness sheets) in the XML file.

## Sheet Editors (Schematic, Harness, Layout, Synoptic)

- A new command added in the **Edit** menu and in the contextual menus to allow making a copy with an insertion point, which is to be defined upon the execution of the command.

## SEE IMPORT CLASS

- The tool migrated to V4R3.

## Translation

- Improvement done so that when the Translation DB cannot be accessed for some reason, the environment is not blocked any more, but a relevant message is displayed to inform that there is a problem with the translation database.

## I.B. Fixed Issues

### 2D Panel

<i>Ticket ID: 7924</i>	When pasting the equipment code of a rail to another one, its dimensions are not updated.
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### Blocks

<i>Ticket ID: 9050</i>	Signal Number lost after block insertion.
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### Cables

<i>Ticket ID: 4400</i>	Cannot update the names of the strands of inserted cables.
<i>Ticket ID: 8323</i>	Cannot have an empty value in the field "Gauge".

### Connectors

<i>Ticket ID: 5705</i>	Lost equipment code in pin's CAD attributes.
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### Copy/Paste

<i>Ticket ID: 7383</i>	Incorrect cable location (From/To) after using <b>Paste special</b> .
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### DXF/DWG

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

### Installation

<i>Ticket ID: 9590</i>	Incorrect name and description (in the InstallShield Wizard) of the new block OPR plugin.
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### Label Export

<i>Ticket ID: 7890</i>	Incorrect terminal labels exported with Wago.
<i>Ticket ID: 8541</i>	The calculated number of labels is incorrect.

<i>Ticket ID: 8703</i>	Incorrect label number for wires.
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### Methods

<i>Ticket ID: 9338</i>	The "Hook Line" option is not present in the Synoptic method.
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### Options & Variants

<i>Ticket ID: 8848</i>	Problem when saving a project with a validity. ( <i>Status "Qualified" – shall I remove it?</i> )
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### Other

<i>Ticket ID: 6208</i>	ADG: Cannot create project and sheets via Automatic Diagram Generation.
<i>Ticket ID: 6457</i>	PN Choice: Fit the height of the frame containing the grid to the height of the integrated SEE Database Browser.

### Protection

<i>Ticket ID: 7636</i>	In a customer project, impossible to insert a cable if Labeling is not programmed.
<i>Ticket ID: 7849</i>	Launching SEE Electrical Expert V4R3 causes spontaneous reprogramming of the NetHASP protection key.

### Report Lists

<i>Ticket ID: 8984</i>	At symbol list extraction/generation, the location is not extracted for some black boxes.
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### Sheets

<i>Ticket ID: 7596</i>	Impossible to rename a group after inserting a block in a new sheet.
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### Symbols

<i>Ticket ID: 8553</i>	In the contextual menu on a cable symbol, the <b>Layout Sheet</b> sub-command (of the <b>Go to</b> contextual command) is displayed twice.
<i>Ticket ID: 8780</i>	Impossible to select a Part Number with voltage for a connection.
<i>Ticket ID: 8953</i>	For the black boxes, the values of Connection point User attributes are not saved.

**Terminals**

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

**VBA**

<i>Ticket ID: 9358</i>	Error when using the macro "SplitLabel_V4" of the ATA_PD environment.
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**Xelec Convertor**

<i>Ticket ID: 5907</i>	Problem with redirections in environments.
<i>Ticket ID: 8863</i>	Missing texts in dialogues.

## I.C. Known Issues and Workarounds

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

**Label Export**

<i>Ticket ID: 9051</i>	Some cable wires are extracted in wire file (when only connections are selected)
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**PLC I/O Manager**

<i>Ticket ID: 7836</i>	Configuration imported from an <i>AML</i> created with the TIA software is incorrect.
<i>Ticket ID: 8372</i>	Cannot generate only a sheet on a rack.
<i>Ticket ID: 8444</i>	The cut/paste on the rack moves just the rack and not all configuration under it.

**SEE Configurator**

<i>Ticket ID: 9591</i>	Incorrect description of the new block OPR plugin.
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## 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 SQL 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.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/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 7 (4.87/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 Administration Tool*.

### I.E.3. SEE Automatic Diagram Generation

*SEE Electrical Expert V4R3 Service Pack 7 (4.87/B)* 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/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, 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.