

# Release Notes

## **SEE Electrical Expert V4R3 Service Pack 1 (4.81/A)**

# Table of Contents

<b>RELEASE NOTES .....</b>	<b>1</b>
<b>A CHANGES AND ENHANCEMENTS MADE IN SEE ELECTRICAL EXPERT V4R3 SERVICE PACK 1 (4.81/A) .....</b>	<b>3</b>
A.1. NEW FEATURES AND ENHANCEMENTS .....	3
A.2. FIXED ISSUES .....	6
A.3. KNOWN ISSUES AND WORKAROUNDS .....	7
A.4. LIMITATIONS AND RESTRICTIONS .....	8
A.4.1. <i>SEE Electrical Expert</i> .....	8
A.4.2. <i>SEE Electrical 3D Panel Module</i> .....	8
A.4.3. <i>Cabinet Thermal Calculation Module</i> .....	9
A.4.4. <i>SEE Automatic Diagram Generation Module</i> .....	9
A.4.5. <i>Concurrent Engineering Module (Multi-User Mode)</i> .....	9
A.4.6. <i>Open Data Module</i> .....	9
A.4.7. <i>End Fitting Module</i> .....	9
A.4.8. <i>3D Panel for SolidWorks Module</i> .....	9
A.4.9. <i>Macro</i> .....	9
A.4.10. <i>SmarTeam Integration Module</i> .....	9
A.5. COMPATIBILITY WITH OTHER IGE+XAO INTERFACED PRODUCTS .....	10
A.5.1. <i>SEE Project Manager</i> .....	10
A.5.2. <i>SEE Access Control</i> .....	10
A.5.3. <i>SEE Automatic Diagram Generation</i> .....	10
A.5.4. <i>SEE Electrical 3D Panel</i> .....	10
A.5.5. <i>SEE Electrical Jigboard</i> .....	10
A.6. SYSTEM REQUIREMENTS .....	10
A.6.1. <i>Advised System Configuration</i> .....	10
A.6.2. <i>Windows Compatibility</i> .....	11
A.6.3. <i>Virtual Solutions Compatibility</i> .....	11

## A CHANGES AND ENHANCEMENTS MADE IN SEE ELECTRICAL EXPERT V4R3 SERVICE PACK 1 (4.81/A)

### A.1. NEW FEATURES AND ENHANCEMENTS

#### Export to JSON File:

- Ability to export several sheets in one JSON file.
- Ability to export project and sheet attributes in JSON file.

#### General Enhancements:

- *SEE Electrical Expert* Service Pack 1 (4.81/A) is compatible with *SEE Electrical PLM* V4.73.



#### Project Migration:

- Possibility to migrate *SEE Electrical Expert* project, in case the project environment is not present.
- Possibility to migrate *SEE Electrical Expert* project, in case of totally damaged Part list database.

#### Improvements common to Schematic/Synoptic/Harness and Layout sheets:

- Possibility to modify several symbol or text attributes at once.
- Possibility to Copy/Paste texts and drawings between different sheet types.
- Subscript and superscript character management  
It is now possible to enter subscript and superscript characters in various texts within *SEE Electrical Expert*.
- Possibility to import comments from XML file.  
The **File > Import > Import comments...** command allows you to import any comments contained in XML file into the respective *SEE* diagram(s).
- Possibility to export comments to XML file.  
The **File > Export > Export comments to XML...** command allows you to export any new comments, created in the *SEE* diagram(s), into an XML file.
- Possibility to specify the order of sheets generation in a JSON file.
- Enhancements of the drawing of graphical objects.  
Pressing the **Shift** button while drawing different kinds of graphical objects allows you to create the respective object with correct/symmetric shape.

### Improvements in the Harness sheet:

- Possibility to insert connective equipment automatically.
  - ✓ The **Process > Automatic insertion of Connective Equipments of Harnesses** command inserts automatically all the pieces of connective equipment assigned to a given harness in the respective Harness sheet.
  - ✓ The position of the connective devices on the Harness sheet depends on the settings specified in the **Automatic insertion of Connective Equipments** tab of the Harness method.
  - ✓ The Harness sheet where the connective devices are inserted depends on whether the harness to which the connective devices are assigned is inserted in a Harness sheet or not.
  
- Appearance of the links of the automatically inserted connective equipment.
  - ✓ The  icon, available in the **Visibility** toolbar, allows you to show/hide the links between the connective devices.
  - ✓ The link(s) disappear if you connect the connective devices with harness branches.
  - ✓ If the diagram in the Schematic sheet is modified, the links in the Harness sheet are updated accordingly.
  - ✓ The **Show links with other connective equipments** pop-up command allows you to display only the connective devices to which the selected device is connected.
  
- New  filter in the **Insert component** toolbar.
 

The new filter allows you to display only the connective devices associated to the selected harness during the insertion or edition of the respective connective device.
  
- Harness protection enhancement.
 

A new filter allows you to choose only equipment codes with diameter greater or equal to the diameter of the branch.
  
- Possibility to insert a harness accessory or a splice area on a harness node.

### Improvements in the Electric Data Explorer:

- The **Sheets** tab has been modified. It is now possible to:
  - ✓ *Create, open, delete, rename, and renumber the sheets.*
  - ✓ *Open or delete simultaneously multiple sheets.*

### Improvements in the Methods window:

- The new "**Errors and Warnings**" option, located in the **Graphic Window Configuration** tab of the **Graphic** Method, allows you to set the highlight colour of the generated errors and warnings.

### Improvements in SEE Electrical 3D Panel:

- *SEE Electrical Expert V4R3 Service Pack 1 supports V1.4.1 of SEE Electrical 3D Panel module.*

- The **Description** column of the **Component** tab in *SEE Electrical 3D Panel* module now retrieves the description information of the equipment codes from *SEE Electrical Expert*.
- The components in *SEE Electrical 3D Panel* module are updated automatically in case of modification of the symbols inserted in the Schematic sheet of *SEE Electrical Expert*.
- Possibility to choose an equipment code for a component directly in *SEE Electrical 3D Panel*.
- The properties of the wires created in *SEE Electrical 3D Panel* can now be specified directly in the *3D Panel* module.
- *SEE Electrical 3D Panel* now retrieves not only the terminals inserted in the Schematic sheet, but also the spare terminals, stops and breaks.

### Import / Export Processes:

- Enhancements in the **File** menu.
  - ✓ *All import/export processes have been grouped into sub-menus, accessible via the **File > Import** and **File > Export** commands.*
  - ✓ *The **Export JSON File(s)** command (available in the **File > Export** sub-menu) has been renamed to **Export diagram for SEE Publisher**.*

### Export Label:

- New standard process for label export, based on the WAGO label export process has been introduced in V4R3 of *SEE Electrical Expert*.
- New label export commands in the Process menu.  
The **Export Label**, **Quick Export Label Export**, and **SEE labelling Export File** commands, located in the **Process** menu, allows you to launch the new label export process.
- New **Label** area in the **General** section of the **Settings** window.  
The options in the new **Label** area allows you to set:
  - ✓ *The calculation settings for the number of wire and cable labels.*
  - ✓ *The label format of cables.*
  - ✓ *The manufacturer software that will read the exported label file(s).*
- New label export plugins for each manufacturer are available.

### Plug-in/API:

- The **PDF Comment Import** plugin has been improved to use the new XML format of the comments.
- Possibility to use several plug-ins to launch the same event.  
The event is executed by the plug-ins in the order of loading of the plug-ins.
- Possibility to create new repository via plugins, APIs and VBA.

- Possibility to export JSON files automatically via a VBA API.

## A.2. FIXED ISSUES

### Cables

BM1700069	Wrong wire gauge value when exporting a wiring diagram xml file.
BM22239	The <b>CODE</b> attribute does not display any information for the cable, if the cable is inserted for the first time.

### Copy/Paste

BM1602287	In projects migrated from V3R7 to V4R2 it is not possible to copy an entire group, or more than one sheet.
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### Crash

BM21726	The application crashes after execution of the <b>Process &gt; Automatic Creation of Terminal Strips and Connectors</b> command.
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### DXF/DWG

BM22956	The imported DWG file is positioned outside of the sheet.
BM22946	The imported DWG file is rotated and positioned outside of the sheet.

### Harness Sheet

BM23010	Incorrect cable routing in the Harness sheets.
BM22872	The tag of the harness branch node is recalculated if you move the node or the branch.
BM22806	The size of the columns in the <b>CAD Properties</b> window of a harness protection cannot be modified.

### List Reports

TS30383	Possibility to launch a Part List extraction/generation when the project does not have an environment.
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### Messages

BM1700081	Translation issues associated with the Electric Data Explorer. /Chinese version of the application/
BM1700064	Incorrect translations in the <b>SEE Electrical Expert Configuration</b> window. /Chinese version of the application/
BM1401538	Wrong text of the commands in the contextual menus in Symbol Editor and in Schematic sheet. /Italian version of the application/
BM1300944	The options in the <b>Generation</b> area of the <b>Generation for Panel</b> method are not completely visible. /Spanish version of the application/
BM1300939	Wrong text in the <b>CAD Properties</b> window. /Spanish version of the application/
BM1300935	Incorrect translation in the contextual menu, when trying to change the sheet number. /Spanish version of the application/
BM1300933	The description that appears in the bottom left corner of the application, when you hover over the <b>Edit &gt; Delete &gt; All terminals/pins not connected</b> command (in Terminal Strip editor) is incorrect. /Spanish version of the application/

BM1300932 BM1300931	Incorrect contextual commands in the <b>Terminal Strip Explorer</b> . /Spanish version of the application/
BM1300925	Incorrect translation in the <b>Customize</b> window. /Spanish version of the application/
BM22930	Incorrect description of <b>SeeSmarTeamPlugin</b> in <b>SEE Electrical Expert Configuration</b> window.
BM22991	Incorrect message appears when the <b>Translation</b> module is not available. /French version of the application/
BM22962	Incorrect command in the contextual menu, available after right-clicking on a symbol.
BM23028	Incorrect translation of the <b>Reset all the indexes</b> pop-up command. /German version of the application/

### Migration

BM22981	It is not possible to migrate projects from V3R7 to V4R3.
BM22960	The translated <b>\$Function</b> attribute cannot be migrated from V3R7 to V4R3.

### Multi Languages

BM22159	The title of the Part List sheet is lost after modification of the project language.
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### Protection

BM1300880	The softlock protection does not work with V4.71/H of the application.
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### Schematic Sheet

BM1602285	The Search and Replace functionality cannot find the invisible attributes.
BM605139	The connections of Internal Black Box are lost after certain actions (connecting a Terminal Strip to the Black Box's connection point, then modifying the name and number of the Terminal Strip).
BM22484	The zoom window functionality (accessible via the <b>View &gt; Zoom Window</b> command) has been modified.
BM1300915	The <b>Display Group</b> option in the <b>Settings</b> window > <b>Recent &amp; Tabs</b> section was wrong, therefore it has been renamed to <b>Display Family/Name</b> .

## A.3. KNOWN ISSUES AND WORKAROUNDS

### Messages

BM1401537	Incorrect title and wrong position of the option in the <b>Settings</b> window > <b>View</b> section > <b>Symbol</b> .
BM1401506	Incorrect translations in the <b>SEE Electrical Expert Configuration</b> window. /Italian version of the application/

### Performance

BM23011	The translation process in V4R2 and V4R3 is slower compared to V3R7.
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**Schematic Sheet**

<i>BM605140</i>	The dynamic zoom does not work when a command from the <b>Insert</b> or <b>Edit</b> menu is activated.
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## **A.4. LIMITATIONS AND RESTRICTIONS**

### **A.4.1. SEE ELECTRICAL EXPERT**

*SEE Electrical Expert V4R3 Service Pack 1 (4.81/A)* needs version equal or higher to version 11.14.02 of Flex LM to use this type of protection. The "**Visual C++ Redistribute for Visual Studio 2015**" component must be installed on the server where the Flex LM is installed. Normally this component is automatically installed with the Windows Update.

The maximal size of the project is 1.8 GB.

The project multi language features are protected with the "Translation" license.

- In case the user has the "Translation" module on his/her license, the user is allowed to edit text or attributes in every project language.
- In case the user does not have the "Translate" module on his/her license, the user can consult every language in the project, but can only edit the "main" language.

The migration process does not recreate the hyperlinks of projects created in V4R1 or previous version of *SEE Electrical Expert*. To recreate the hyperlinks of the migrated project you have to rebuild the cross reference and to generate the part list and table of contents again.

PDF Export: To activate the hyperlinks in Adobe Acrobat Pro, navigate to the **Edit** menu and select the **Preferences...** command. In the **Preferences** window that appears, select the **Documents** category on the left hand side. Navigate to the *View documents in PDF/A mode* option and chose **Never** from the dropdown menu on the right.

SEE Workspace (SWS file / Windows, Toolbars, Menu customization) saved with versions less 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 no longer support MS SQL or Oracle database for parts list processes.

If you are using Local Server Borrowing or Internet License Server Protection, it is not possible to change the software language after the installation.

### **A.4.2. SEE ELECTRICAL 3D PANEL MODULE**

*SEE Electrical 3D Panel* module is not supported on Windows XP.

*SEE Electrical 3D Panel* module is not installed with the *SEE Electrical Expert* installer. It has its own installer.



#### **A.4.3. CABINET THERMAL CALCULATION MODULE**

*Cabinet Thermal Calculation* module is not supported on *Windows XP*.

#### **A.4.4. SEE AUTOMATIC DIAGRAM GENERATION MODULE**

*SEE Automatic Diagram Generation* module is not installed with the *SEE Electrical Expert* installer. It has its own installer.

*SEE Automatic Diagram Generation* module is protected by a license.

*SEE Automatic Diagram Generation* module needs *MS Excel*. It is compatible with the 32 and 64 bits versions of MS Excel 2010, 2013 and 2016.

It is not possible to add variables in Block Param Editor for blocks of layout or harness.

#### **A.4.5. CONCURENT ENGINEERING MODULE (MULTI-USER MODE)**

*Concurrent Engineering* module (Multi-User mode) works with MS SQL Server 2012 and 2014 databases to store projects.

*Concurrent Engineering* module needs *SEE User Access*.

The **Close project without saving** functionality does not work in Multi-User mode (*Concurrent Engineering* module).

#### **A.4.6. OPEN DATA MODULE**

*Open Data* module needs MS Excel.

#### **A.4.7. END FITTING MODULE**

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

#### **A.4.8. 3D PANEL FOR SOLIDWORKS MODULE**

The old *3D Panel for SolidWorks* module is no longer supported by *SEE Electrical Expert* versions greater or equal to V4R3.

A 3D panel layout created with the old *3D Panel for SolidWorks* (before V4R3) cannot be migrated to the new *3D Panel* module.

#### **A.4.9. MACRO**

VBA version 7.1 (32 bits) must be installed to execute a macro in *SEE Electrical Expert* versions greater or equal to V4R3.

#### **A.4.10. SMARTEAM INTEGRATION MODULE**

The SmarTeam Integration module of *SEE Electrical Expert* (V4, V4R1, V4R2, and V4R3) supports the SmarTeam releases from V5R19 until V5R27.

## **A.5. COMPATIBILITY WITH OTHER IGE+XAO INTERFACED PRODUCTS**

### **A.5.1. SEE PROJECT MANAGER**

*SEE Electrical Expert* V4R3 Service Pack 1 (4.81/A) is supported by SEE Project Manager V8R2 SP 7 Patch K or Patch L, V8R3 Patch C.

### **A.5.2. SEE ACCESS CONTROL**

*SEE Electrical Expert* V4R3 Service Pack 1 (4.81/A) supports only version 4.50/E of *SEE User Access*.

If a customer uses an old version of *SEE User Access*, s/he will have to migrate the database with *SEE User Access Admin Tool*.

### **A.5.3. SEE AUTOMATIC DIAGRAM GENERATION**

*SEE Electrical Expert* V4R3 Service Pack 1 (4.81/A) supports V4.80/A of *SEE Automatic Diagram Generation*.

### **A.5.4. SEE ELECTRICAL 3D PANEL**

*SEE Electrical Expert* V4R3 Service Pack 1 (4.81/A) supports V1R3 Service Pack 1 of *SEE Electrical 3D Panel*.

### **A.5.5. SEE ELECTRICAL JIGBOARD**

*SEE Electrical Expert* V4R3 Service Pack 1 (4.81/A) supports *SEE Electrical Jigboard*.

## **A.6. SYSTEM REQUIREMENTS**

### **A.6.1. ADVISED SYSTEM CONFIGURATION**

#### **For Mono-User Mode:**

- Microsoft Windows 7 Home Premium, Professional, Ultimate, Enterprise (64 bits Operating System installed on 64 bits computer).
- Processor: i3 class, 2 GHz.
- RAM: 4 GB.
- 500 MB of free disk space required for the installation.
- Graphic Card: 1280 x 1024.

**For Multi-User Mode (Concurrent Engineering):**

There are different requirements 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; it is also possible to run on EXPRESS EDITION version, but with some 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.
- Network Card: 1 GB.
- Graphic Card: 1280 x 1024.

**For 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, together with the 3D Parts library, provided by default.
- Graphic Card: must have full support of OpenGL, as well as 1 GB of dedicated memory.

**A.6.2. WINDOWS COMPATIBILITY**

*SEE Electrical Expert V4R3 Service Pack 1 (4.81/A)* 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.

*SEE Electrical Expert V4R3 Service Pack 1 (4.81/A)* does not support Microsoft Windows XP.

**A.6.3. VIRTUAL SOLUTIONS COMPATIBILITY**

## **Release Notes**

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

### **Microsoft App-V or VMWare**

There are no compatibility issues with those two virtual solutions.