Release Notes

SEE Electrical Expert
V4R2 Service Pack 7 (4.47/A)

Release Notes

SERVICE DELIVERY

TRAINING

Training on our products is provided every week.

Training on our software is conducted at our different training centres:

NORTH AMERICA	• Anjou, Québec.	(450) 449 1768
UNITED KINGDOM	• Nuneaton	+44 (0) 2476 796426
UNITED STATES	• Lewisville, Texas	(972) 410-3610

For more information, please contact our Training services:

Internet: http://www.ige-xao.com ('Training').

CONTRACT SERVICE

Subscribing our service contract allows you to get free versions updates and technical support during all working days all year round.

TECHNICAL SUPPORT

If you purchased the service contract (maintenance contract), you can reach us:

NORTH AMERICA and **UNITED STATES** - from 9am to 5pm Monday to Friday (except on holidays) 24 hours a day / 7 days a week:

- ☎ by phone: 1(866) SEE INFO
- Email: supportna@ige-xao.com

GREAT BRITAIN - from 9am to 5pm Monday to Friday (except on Bank holidays) 24 hours a day/ 7 days a week:

- by phone: +44 (0) 2476 796426

    Fax: +44 2476 796427
    Email: support.see.uk@ige-xao.com

WEB SITES

IGE+XAO group Web sites: **www.ige-xao.com**

Written by: IGE+XAO group Technical Writing Department.   May 2017

Table of Contents

A   CHANGES AND ENHANCEMENTS MADE IN SEE ELECTRICAL EXPERT V4R2 SP7 (4.47/A)

A.1.   ADDED IN V4R2 SERVICE PACK 7 (4.47/A), COMPARED TO V4R2 SERVICE PACK 6 (4.46/A)

Propagation:

It is now possible to propagate the value of a user defined attribute between Master symbols, Slave symbols and Illustrations, depending on the option selected in the Free symbol attributes field (File > Project Properties > *Settings* tab).

PDF Generation:

The maximal DPI value for PDF generation has been increased to ensure that the generated PDF file displays the drawing arcs correctly. Two predefined values have been added to the list – 1200 and 2400. The higher DPI values ensure better results in the PDF file.

Ability to Generate Several Cables on the Same Sheet:

It is now possible to generate several cables/end fittings (one below the other) on the same sheet. You can define what happens if the cable/end fitting cannot be generated completely in the active sheet or in a single column.

New Plugin for Cable Length Importation from XML File:

When the Cable length importation plugin, located in *SEE Electrical Expert Configuration* window, is enabled, the Import wires length from NX command appears in the Process menu of *SEE Electrical Expert*. This command allows you to load NX XML file with defined cable lengths and convert it to Wiring Diagram XML format.

A.2. FIXED

A.2.1. ISSUES FIXED IN V4R2 SERVICE PACK 7 (V4.47/A), COMPARED TO SERVICE PACK 6 (V4.46/A)

Cables

BM1700043	The update of the Source/Destination location in the entire project is not possible.
BM22512	Wrong Source and Destination location on cables, if a logical cable is inserted in the project.
BM20050	Impossible to insert wires in Schematic sheet if the same location already exists.

Copy/Paste

BM1300874	Pasting the copied cable harness, displays the harness name with "(1)" in front.
BM605078	After migration of V3R6 projects, the Copy/Paste between projects does not work.
BM604787	Incorrect multi-level terminal order numbering after **Copying**/**Pasting** terminals.
BM22870	Pasting a terminal also pastes the cable.
BM22448	Copying a terminal also copies everything connected to this terminal.

Cross Reference

BM1700044	The wiring diagram attribute of the OPR Destination symbol disappears after replacing the OPR symbol with another one.
BM22463	Error with the cross references of OPR symbols between sheets after Xelec conversion.

DXF/DWG

BM1700033	Some of the harness protections cannot be exported to DWG file.
BM605065	Problems with text export from *SEE Electrical Expert* to *DXF/DWG* format.
BM22411	The connection tags cannot be recovered after an importation of DWG/DXF file.
BM22410	It is not possible to convert several DWG files with intelligent connections simultaneously.
N/A	Eplan's DWG signal numbers are imported as text, not as signal numbers.
N/A	Problem with the color of Eplan's DWG connections.
N/A	Problem with the block letter limit of Eplan's DWG block names.
N/A	If the **Free symbol attributes** field (Project Properties **> Settings** tab) is set to "**Do not propagate value**", the value is propagated only between master and illustration symbols (it is not propagated on slave symbols).

Environment Symbols

BM21938	The wiring diagram attributes $S.$SHEETNUM and $S.$COLUMN do not work between logical and physical terminals after Terminal Strip generation.

Equipment Catalog

BM1601415	Impossible to download the equipment codes from a CSV file.
BM21134	After an import of SQL catalog the order in the **Manufacturer** and **Series/Range** fields is not correct.

Environment Illustration

BM1700042	Removal of an illustration, associated with a symbol from the Layout sheet, also removes the associated symbol from the Schematic sheet.

Export Label

BM1602026	Wires cannot be exported if the terminals are not assigned to terminal strip. (WAGO Label Export)
BM22193	Incorrect export of the numbers of wire labels. (WAGO Label Export)
BM22192	Incorrect extraction of the connector pins in the equipment file. (WAGO Label Export)
BM22047	Incorrect sorting when the **Extract two labels by…** option is enabled. (WAGO Label Export)

List Reports

BM22581	The extracted Part Lists are not saved in the new folder when you close it.

Messages

BM1300890	Incomplete text in the *Folder* window, which appears after import of DWG or DXF folder (**File > Import DXF/DWG or SLF > Folder (only for DXF or DWG)**.
BM22926	Incorrect message when inserting text in a language different than the main one (in multilanguage project without Translation module).
BM22906	Incorrect translation of multi-level terminals in the **Terminal Strip** method.
BM22718	Incorect message appears if the XLS file you are trying to open is already opened.
BM22634	Inccorect button name in the *Character Map* window.
BM22429	The description of connection number list is not visible.
BM22375	Incorrect descriptions of plugins in the *SEE Electrical Expert Configuration* window.

Methods Window

BM605122	Validation error appears when adding cable attribute to cable label (Polish version only).
BM22521	The symbols names in the **Terminal strip** method (**Cables** section) are not completely visible.

Migration

BM20987	The "Project incompatible" error message appears when starting a project that has been migrated from V3R7 to V4R1.

Multi Languages

BM1300844	The Tag disappears when changing the language of the project.
BM22376	For correct command translation, the previous translation must be removed.

Multi User

N/A	Problem with data types in Multiuser mode.

Others

BM22867	The plugin **Export BOM into format TDI** does not work on Office 2010.
BM22490	The information in the **Protection Key** section (**Security** category) of *SEE Electrical Expert Configuration* window is not displayed.
BM22004	On Microsoft Windows 10 the message "Cannot Initialize Data Binding" appears when using the **PLC Channel** plugin.

Open Data

BM19424	The groups must be deleted to generate the XLS file(s).

Parameter Sheet

BM22303	The **Update symbols according to the env** pop-up command in the *Parameter Sheet Explorer* does not work.

Performance

BM1401509	The list extraction process is extremely slow.
BM22673	The generation of the same part list takes 10 minutes longer compared to the previous versions (4.44/A, 4.45/F, 4.46/A).
BM22662	Very slow generation of part lists.
BM22322	Very slow execution of processes when using the LSB software license.

Project Explorer

BM605074	The "New Line Character" defined in the project properties does not work for the sheet attributes (*Sheet Explorer* window).

Schema Editor

BM1700045	Redundant Black Box wiring diagram symbol, which posses both Master and Slave parts.
BM22531	If you change the symbol family from the **Insert Symbol** toolbar, the symbols available in the newly selected family are not displayed.
BM21802	When modifying a text, its value is not selected by default in the dialog.
BM21490	Cannot import LGE files.

Signals

BM22542	The hidden tags are displayed after you move the elements inserted on the sheet.

Terminal Block

BM1700037	Some wiring diagram attributes are missing in the generated Terminal Strip sheets.
BM1602188	Incorrect "From"/"To" tags in the generated Terminal Strip sheets.

see electrical expert

BM22456	Terminal Strip generation shortens the note length of Terminal Block Head.
BM22455	Problems after grouping/ungrouping graphical elements.
BM22394	Error during Terminal Block generation.
BM21899	The shunted on shields terminals are not generated in the Terminal Strip sheets.

Title Block

BM22861	The group attribute $G[G1] doubles the displayed text.
BM22820	The $Datefolmodif metacommand displays not only the date, but also the hour.

Translation

BM22466	The translation database cannot be opened after some operations.

Xelec Converter

BM22893	Wrong conversion of the "Customer" revision index.
BM22881	Incorrect position of the vertical drawings after conversion.
BM22877	The value of the $Function metacommand, inserted on a sheet, is not retrieved after migration.
BM22462	Inversion of comments between the last two revisions.
BM22457	Incorrect position of Name with location by box in *SEE Electrical Expert*.
BM22385	Incomplete list with environments in Xelec converter.
BM22316	The migration of PSA projects leads to problem with revision indices.
BM22164	Problem with conversion of Xfluid PSA with matricul and "Sans_Nom" location.

2D Panel

BM1602183	When validating the CAD Attributes of a panel, a part of its equipment is displayed out of the defined sheet.

3D Panel

BM22675	The installed 3D Panel module does not have an installation path.

A.3. KNOWN ISSUES

A.3.1. ISSUES FIXED IN V4R2 SERVICE PACK 8 (V4.48)

Cables

BM22554	The text(s) in the **Note** field are cut out in the generated Terminal Strip sheets.

Copy/Paste

BM1602268	The tag of a connection/group is incorrect after Pasting the respective connection/group.
BM22922	The **Copying Parameters** window appears several times after execution of the **Paste Special** command.

Cross Reference
BM22696   The cross reference does not display all terminal numbers.

DXF/DWG
BM1401530   After import of a DWG file, its graphics are placed out of the sheet, and its position is rotated compared to the original one.

BM22698   After import of DXF/DWG file, its texts and objects are incorrect.

Label Export
BM19241   The label export process must export only the gauge value contained in the method, not the gauge value of the connections.

List Reports
BM1401365   When generating wire lists some of the "From"/"To" attributes are inverted.

BM605135   The "[BEGINNING]" and "[FINISH]" attributes inserted in the titles of the generated lists do not work (except for the French version).

BM22699   Incorrect sorting of the revision indexes.

BM22599   The cable list does not work if a filter is created on an accessory field.

Location
BM1700039   Incorrect equipment label when inserting a connector.

Messages
BM22963   Incorrect message when using the **Paste Special** command to paste sheets from one folder to another.

BM22943   Incorrect translation of plugin names in French version.

Methods Window
BM605136   The cables are not treated if you do not use the "*****" sign to select all sheets.

BM22373   Insertion of a value greater than ten in the in **Position** tab of **Language** method is impossible.

Open Data
BM22666   The Wiring Diagram attributes do not work.

Others
BM1700096   The connector attributes "$Note_1", "Note_2" and "Note_3" cannot be inserted in a schematic diagram.

BM1401458   The "Project After Open" event does not work. (VBA Api).

BM605088   The visibility of the "$POS_CROREF" attribute cannot be changed if the attribute is empty.

BM605077   Not possible to change the color of objects in an area via the **Selection Mode** toolbar.

BM22034   Cannot purge the unused parameter sheets.

BM21606   The **Revision Index > Delete Last** contextual menu does not work.

Parameter Sheet

BM22918	The $LIST:Liste des fils metacommand is no longer recognized.
BM22834	The metacommand $PL does not work in Symbol Parameter Sheet ($LIST: SYMBOL).

Printing

BM1401532	The application crashes if during the generation of PDF files some sheet contains hyperlinks.

Project Protection

BM22953	It is not possible to use a protected project as a template project.
BM22713	Data is lost if you use the **Save As** command without saving the source project.

Symbols

BM1602143	The symbols displayed in the **Insert Symbol** toolbar do not match the selected symbol family.

Tagging

BM1700038	The options "[G1]", "[G2]" and "[G3]" do not work for connector tagging.

Terminal

BM22550	The sorting of strands does not work in Terminal Strip Editor.
BM20304	Cannot insert spare wires using the **Ctrl** key.
BM14309	The "From"/"To" attributes are lost when disconnecting a wire in Terminal Strip Editor.

Title Block

BM22803	The value of the $VERSION_PRODUIT metacommand is displayed incompletely.
BM22598	When inserting two blocks, a connection has two cables with the same tags.

Xelec Converter

BM604973	It is not possible to generate a Terminal Strip in a converted project.

A.4. LIMITATIONS AND RESTRICTIONS

A.4.1. SEE ELECTRICAL EXPERT

SEE Electrical Expert V4R2 needs version equal or higher to version 11.14.0.2 of FlexLM to use this type of protection. The "**Visual C++ Redistribute for Visual Studio 2015**" component must be installed on the server where the FlexLM is installed. Normally this component is automatically installed with the Windows Update.

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 previous versions 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 V4R2.
- ▪ 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.

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. CONCURRENT 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 **Undo/Redo** and **Close project without saving** functionalities do not work in Multi-User mode (*Concurrent Engineering* module).

A.4.6. OPEN DATA MODULE

Open Data module needs Microsoft Excel.

A.4.7. END FITTING MODULE

To migrate the data stored in cable attributes (until V4R1) to the new extremity attributes in V4R2, the plugin "End Fitting Migration to V4R2 (4.42)" 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 V4R2.
A 3D panel layout created with the old *3D Panel for SolidWorks* (before V4R2) 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 V4R2.

A.5. COMPATIBILITY WITH IGE+XAO PRODUCTS

A.5.1. SEE PROJECT MANAGER

SEE Electrical Expert V4R2 Service Pack 7 (4.47/A) is supported by *SEE Project Manager* V7R9, V8R1 and V8R2.

A.5.2. SEE ACCESS CONTROL

SEE Electrical Expert V4R2 Service Pack 7 (4.47/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 V4R2 Service Pack 7 (4.47/A) supports *SEE Automatic Diagram Generation* with versions greater or equal to 4.42/E.

A.5.4. SEE ELECTRICAL 3D PANEL

SEE Electrical Expert V4R2 Service Pack 7 (4.47/A) supports V1R2 Service Pack 1 of *SEE Electrical 3D Panel*.

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 V4R2 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 (with exception of the "SEE Electrical 3D Panel" module and "Cabinet Thermal Calculation" module).

A.6.3. VIRTUAL SOLUTIONS COMPATIBILITY

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

Citrix

Advised System Configuration (Citrix Servers hosting clients):

Minimal Configuration:
- Windows Server 2008 (64 bits).
- Processor: 2 GHz.
- RAM: 4 GB + 2 GB by client.
- Required disk space: 2 GB.
- Graphic Card: 1024 x 768 – 256 colours, 128 MB RAM.
- Network Adapters: 100 Mbps.

Recommended Configuration:
- Windows Server 2008 R2 (64 bits).
- Processor: Dual Core, 3.6 GHz.
- RAM: 8 GB + 4 GB by client (48 GB for 10 users).
- Required disk space: 30 GB.
- Graphic Card: NVDIA, 512 MB RAM.
- Network Adapters: 1 Gbps, or more.

Registry Key:
For each installation, the Citrix client profiles must be reset. The modifications in the HKLM registry key are only taken into account when you log on with a blank profile

to update it. Keep in mind that the Citrix profiles that are not reset cannot be updated.

A check whether the Citrix profiles contain printer mapping, or whether the network disk is accessible is performed. Indeed, when connecting to the Citrix server, or when using an application, the printer on the company network will be searched. In such case, your monitor will be "frozen" for long time. (This problem is not a software issue.)

Disk Space:
Avoid sharing dedicated disk space to other users. A mapping on "C:\" has to be created for each user.

Graphic Card:
According to the Citrix Server Settings, some pixel transfers or display orders will be provided to the client computer.
It is recommended to use pixel transfer, rather than display orders, because display orders are not correctly used by all graphic cards.

Computer Architecture:
It is better to use the 64 bits' version of Citrix server.
The standby mode of Citrix client requires the Citrix server to repeat some re-connections. Therefore, it is recommended to set the standby mode with a value such as 1 hour, instead of 10 minutes.

Microsoft App-V or VMWare

No compatibility problems with those two virtual solutions.

B CHANGES AND ENHANCEMENTS MADE IN SEE ELECTRICAL EXPERT V4R2 SP6 (4.46/A)

B.1. ADDED IN V4R2 SERVICE PACK 6 (V4.46/A), COMPARED TO V4R2 SERVICE PACK 5 (V4.45/F)

Translation:

The new option in the *SEE Electrical Expert Configuration* application (**Security** tab **> Advanced** category), allows opening multi-language projects with or without Translation licence.

DXF/DWG Import:

The problem with importation of terminals with wrong numbers has been corrected.

Terminal Strip:

DIN Terminal Strip: It is now possible to manage several wires connected to the same terminal.

B.2. FIXED

B.2.1. ISSUES FIXED IN V4R2 SERVICE PACK 6 (V4.46/A), COMPARED TO SERVICE PACK 5 (V4.45/F)

Schema Editor

BM1700024	Catalog attributes are not displayed directly when inserting a wiring symbol.
BM605025	The **Ungroup** command leaves the text out of the selection.
BM604957	**Copy**/**Paste**: The Connection Point Explorer does not display correctly the copied text from another field of the Connection Point Explorer or from external text file.
BM22297	Making a duplicate of a symbol or connection changes the number of sheets.
BM605024	Modifying the text attributes of the displayed coil contacts affects the number of connection points, but not the contact drawings.
BM605046	The **Find**/**Replace** command replaces the cable name in the default project twice.

Copy/Paste

BM20793	**Copy**/**Paste**: After pasting a sheet with attached file in the Sheet Explorer the date of the attached file is modified.
BM20694	**Copy**/**Paste**: Cannot retrieve the numbering by symbol.
BM22349	**Copy**/**Paste**: Pasting a group, consisting of text and drawing, results in displacement of the text position within the group.
BM22238	**Copy**/**Paste**: Wrong position of the text after executing **Copy** – **Paste**.

Cable
BM22402   The cable attribute $SEGREGATION disappears after moving the cable.

2D Panel
BM605018   Rails: The length of the rail should be increased to the right as in older versions of *SEE Electrical Expert.*

Blocks
BM21923   Block: The properties of a cable inserted in a block are not accessible, the cable is not dynamic and after an update the cable is deleted;
Block: Cables are not merged correctly when merging 2 blocks.

List Reports
BM21354   List Reports: Add a possibility to modify an extraction after reopening *SEE Electrical Expert.*

PLC Assistant
BM1602004   Channel update does not work correctly.

DXF/DWG
BM21114   DXF/DWG: Title Block import results in loss of the logo.
BM605033   DXF/DWG: The connection line and graphical object drawing inserted in DWG file, are inverted after exporting the file.

Environment Symbols
BM20357   Cannot paste symbols between 2 environments.

Environment Title Block
BM21773   Environment Title Block: The $G metacommand does not work.

Xelec Converter
BM22164   Xelec Converter: Problem with conversion of Xfluid PSA with matricul and "Sans_Nom" location.
BM22316   The migration of PSA projects leads to problem with revision indices.

B.3. LIMITATIONS AND RESTRICTIONS

B.3.1. SEE ELECTRICAL EXPERT

SEE Electrical Expert V4R2 needs version equal or higher to version 11.13 of FlexLM to use this type of protection.
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 previous versions 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 V4R2.
- 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.

B.3.2. 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.

B.3.3. CABINET THERMAL CALCULATION MODULE

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

B.3.4. 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.

B.3.5. CONCURRENT 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 **Undo/Redo** and **Close project without saving** functionalities do not work in Multi-User mode (*Concurrent Engineering* module).

B.3.6. OPEN DATA MODULE

Open Data module needs MS Excel.

B.3.7. END FITTING MODULE

To migrate the data stored in cable attributes (until V4R1) to the new extremity attributes in V4R2, the plugin "End Fitting Migration to V4R2 (4.42)" must be installed and activated.

B.3.8. 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 V4R2.
A 3D panel layout created with the old *3D Panel for SolidWorks* (before V4R2) cannot be migrated to the new *3D Panel* module.

B.3.9. MACRO

VBA version 7.1 (32 bits) must be installed to execute a macro in *SEE Electrical Expert* versions greater or equal to V4R2.

B.4. COMPATIBILITY WITH IGE+XAO PRODUCTS

B.4.1. SEE PROJECT MANAGER

SEE Electrical Expert V4R2 Service Pack 6 (4.46/A) is supported by SEE Project Manager V7R9, V8R1 and V8R2.

B.4.2. SEE ACCESS CONTROL

SEE Electrical Expert V4R2 Service Pack 6 (4.46/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*.

B.4.3. SEE AUTOMATIC DIAGRAM GENERATION

SEE Electrical Expert V4R2 Service Pack 6 (4.46/A) supports SEE Automatic Diagram Generation with versions greater or equal to 4.42/E.

B.4.4. SEE ELECTRICAL 3D PANEL

SEE Electrical Expert V4R2 Service Pack 6 (4.46/A) supports the version V1R2 Service Pack 1 of *SEE Electrical 3D Panel.*

B.5. SYSTEM REQUIREMENTS

B.5.1. ADVISED SYSTEM CONFIGURATION

For Mono-User Mode:

- Microsoft Windows 7 Home Premium, Professional, Ultimate, Enterprise.
- 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.

B.5.2. WINDOWS COMPATIBILITY

SEE Electrical Expert V4R2 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 (with exception of the "SEE Electrical 3D Panel" module and "Cabinet Thermal Calculation" module).

B.5.3. VIRTUAL SOLUTIONS COMPATIBILITY

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

Citrix

Advised System Configuration (Citrix Servers hosting clients):

Minimal Configuration:
- ▪ Windows Server 2008 (64 bits).
- ▪ Processor: 2 GHz.
- ▪ RAM: 4 GB + 2 GB by client.
- ▪ Required disk space: 2 GB.
- ▪ Graphic Card: 1024 x 768 – 256 colours, 128 MB RAM.
- ▪ Network Adapters: 100 Mbps.

Recommended Configuration:
- ▪ Windows Server 2008 R2 (64 bits).
- ▪ Processor: Dual Core, 3.6 GHz.
- ▪ RAM: 8 GB + 4 GB by client (48 GB for 10 users).
- ▪ Required disk space: 30 GB.
- ▪ Graphic Card: NVDIA, 512 MB RAM.
- ▪ Network Adapters: 1 Gbps, or more.

Registry Key:
For each installation, the Citrix client profiles must be reset. The modifications in the HKLM registry key are only taken into account when you log on with a blank profile to update it. Keep in mind that the Citrix profiles that are not reset cannot be updated.

A check whether the Citrix profiles contain printer mapping, or whether the network disk is accessible is performed. Indeed, when connecting to the Citrix server, or when using an application, the printer on the company network will be searched. In such case, your monitor will be "frozen" for long time. (This problem is not a software issue.)

Disk Space:

Avoid sharing dedicated disk space to other users. A mapping on "C:\" has to be created for each user.

Graphic Card:

According to the Citrix Server Settings, some pixel transfers or display orders will be provided to the client computer.

It is recommended to use pixel transfer, rather than display orders, because display orders are not correctly used by all graphic cards.

Computer Architecture:

It is better to use the 64 bits' version of Citrix server.

The standby mode of Citrix client requires the Citrix server to repeat some re-connections. Therefore, it is recommended to set the standby mode with a value such as 1 hour, instead of 10 minutes.

Microsoft App-V or VMWare

No compatibility problems with those two virtual solutions.

C   CHANGES AND ENHANCEMENTS MADE IN SEE ELECTRICAL EXPERT V4R2 SP5 (4.45/F)

C.1.   *ADDED IN V4R2 SERVICE PACK 5 (4.45/F), COMPARED TO V4R2 SERVICE PACK 4 (V4.44/A)*

Ability to copy from SEE Viewer to SEE Electrical Expert

- It is possible to copy information (symbols, texts, etc.) from *SEE Viewer* to *SEE Electrical Expert*.
- It is possible to copy redlining from *SEE Viewer* to *SEE Viewer*.

However, it is not possible to copy information from *SEE Electrical Expert* to *SEE Viewer*.

DXF/DWG Export

Export directory: It is now possible to export DXF/DWG files in a directory with the same name as *SEE Electrical Expert* project, as well as to create sub-directories with the same names as the *SEE Electrical Expert* groups (**Save DXF/DWG files** area within the **DXF/DWG Export** window).

New naming rules: Based on the option specified in the **Save DXF/DWG files** area the name of the exported DXF/DWG file will have one of the following name formats:
- "Groupe_Sheet Number.Sheet Title"
Or
- "Sheet Number.Sheet Title"

DXF/DWG Import

Ability to analyse the DXF/DWG file name: If the imported DXF/DWG file contains full stop in its name (example: "01.Power.DWG") the name of the created sheet in *SEE Electrical Expert* is based on the DXF/DWG file name.

Behaviour/Function: New Behaviour/Function have been added in the **Symbols** tab of **DXF/DWG Import** method.

Correction of the DXF/DWG importation process issues:
- Blocks are imported with correct size, and their attributes are not lost during the importation process.
- Blocks of type "Contact" are imported correctly (without any incomplete symbols).
- Drawings from DXF/DWG files are imported correctly.
- Diagram offset has been corrected, so after the import of DXF/DWG file no data is out of the Title Block, and the diagram is not right below the Coordinate strip, but has some space.
- Lines, blocks and texts are imported correctly (not as one symbol).

▪ OPR symbols are imported with label, no matter if the label attribute in DXF/DWG Block is visible or not.

Correction of the filter for layer importation: Previously, the *"Not to import"* option (*Layers* tab, **Advanced** button) was not taken into consideration and the layers of some DXF/DWG Blocks were imported, even if the option was enabled. Now the problem is solved and the option is taken into account.

Management of symbols neutrality: The new *"Neutral"* column in the **Import DXF/DWG** method > *Symbols* tab allows you to define the neutrality of symbols created from the importation of DXF/DWG Blocks.

Possibility to import DXF/DWG Blocks as Black Boxes: When importing DXF/DWG file in *SEE Electrical Expert,* in the *Symbols* tab you can select the "Black Box/Other" Function/Behaviour. In this case, the DXF/DWG Block will be imported as Black Box and will have specific properties.

Possibility to import symbols as Slave/Other: The default Behaviour/Function of the imported DXF/DWG files is set to "Slave/Other", not "Not Electrical". In this way, all blocks (with or without connection points) are imported as electrical symbols and no attributes are lost.

Removal of the Cross Reference contained in the OPR tag: During the importation of DXF/DWG, if an attribute contains a Tag and Cross-Ref it is not possible to link the OPR Source to the OPR Destination. Therefore, the importation process has been modified, so that the link between the OPR Source and OPR Destination can be re-created.

Report window displayed at the end of the importation process: The error messages that were displayed during the process of importing DXF/DWG Blocks have been replaced by a report that is displayed when the importation process is over.

Electric Data Explorer

New option in the *Options* window: The option "Function" has been added to the **Connectors**/**Terminal strip** drop down list, within the *Terminals/Pins* tab of the *Options* window (*Electric data explorer*).

Multi-Language

Retrieving the value of a Base multilingual metacommand from the Equipment Catalog has been modified: the metacommand value in the different languages is specified in the Equipment Catalog.
If there is no value defined for a language, and such metacommand is used in Parameter Sheet lists, the respective language fields in these lists remain empty.

Parameter Sheet

Report window modification: During the validation of Param-sheet lists (Part List, Wiring List, etc.) if one of the Base metacommands cannot find its dedicated field in the Catalog a warning, rather than an error is generated in the report window.

Plug-in

New equipment attributes plug-in: The new plug-in displays all available equipment attributes, as well as those that may be created. The additive references of the Base attributes are located in the User attributes of the symbols, inserted in Schematic sheets. Hence, the plug-in allows to retrieve the Base attribute value from the User attributes.

Synoptic Editor: OPR Management

Ensure OPR consistency in multi-user mode: A Synoptic Link that goes between 2 OPR symbols can be managed simultaneously by 2 different users, given that each user operates on different sheet.

Terminal Strip

New option in **Terminal Strip** method: The new option "Allow bridges bar only on adjacent terminals" restricts the bridge bar generation only to terminals that are adjacent. The option is located in **Connection on Terminals** tab, Terminal Strip Default Values category.

Increase of the Logical/Physical terminal associations limit: In **Terminal Strip** method the limit for creation of Logical/Physical terminal associations has been increased from 100 to 500.

C.2. FIXED

C.2.1. ISSUES FIXED IN V4R2 SERVICE PACK 5 (V4.45/F), COMPARED TO SERVICE PACK 4 (V4.44/A)

Sheet Explorer
BM22178   Sheet Explorer: All sheet attributes are lost after updating a Terminal Strip sheet from the Sheet Explorer.

Schema Editor
BM605040   The information from the **Switch contact position** command is not displayed correctly in the **Contact Number** window.

| BM22156 | Command: The **Edit > Change > Text Properties or Attribute Properties** command does not work on graphic location. |
| BM1601957 | Black Box: The Number attribute of a Black Box cannot be modified from the *CAD Attributes* window **> Connection Point Explorer.** |

Copy/Paste

BM1401412	**Copy/Paste**: CAD Attributes have to be refreshed after copying them in order to display the correct terminal number.
BM1300850	**Copy/Paste**: After pasting a cable its connections are lost.
BM22226	**Copy/Paste**: Very slow Copy-Paste execution when Copying-Pasting a symbol or when using **Copy-Paste** drag&drop + **Ctrl** key functionality.
BM22224	**Cut/Paste**: After cutting and pasting a symbol on the same sheet its links are kept.

Cross Reference

BM22353	Cross Reference: The cross references of the master symbol are not updated when you Cut-Paste the slave symbol to another sheet.
BM1700017	Cross Reference: Wrong display of slave symbols when inserting one directly from the Symbol Library, or when copying it.
BM1700015	Cross Reference: Under a coil symbol the references are overlapped if slave symbols are copied.

Terminal Strip Editor

| BM604825 | Terminal Strip Editor: Incorrect numbering of multi-level terminals after inserting a spare terminal. |

Cable

| BM1401392 | Project Connections: Cables do not read correctly the information from the "From" and "To" attributes. |

Harness Editor

| BM22029 | Harness: Attribute lists are not updated after modifying them in Schematic Sheet. |

Synoptic Editor

| BM21987 | Synoptic: Cable links are lost after modification in the Terminal Strip. |

2D Panel

| BM22413 | Synoptic: The data in the Layout sheet is lost after updating the Terminal Strip. |

Blocks

| BM22106 | Block: Cable strands cannot be merged during block insertion. |

List Reports

BM1601797	List Reports: The equipment codes contained in an assembly code are not added in the Quantity column of the generated Part List.
BM605003	List Reports: The metacommand $R:TYPE (**Type** field in the generated Bill of Materials) is limited to 10 characters.
BM1700019	List Reports: It is not possible to extract the values of the cable attributes defined in the method.

Multi-Languages

BM21666	Multi-Languages: In multi-language project, after copying a symbol, the offset of symbol's texts/attributes is not kept.

Translation

BM1700029	Translation: The attributes of the Terminal Strip Head symbol(s) in the second column of the Terminal Strip sheet cannot be translated.

PLC Assistant

BM21807	PLC: The Channel update does not work.
BM1601738	PLC: It is not possible to start the Channel update.
BM21296	PLC: The part numbers with local protection and Flex LM cannot be downloaded.
BM21298	PLC Generation: The "ordre LG_ELEC" message appears when trying to generate sheets.
BM20473	PLC: Cannot save the downloaded part numbers.

Revision Index

BM21975	Revision Index: The revision indexes of one revision are retrieved to another revision after update of sheets.

Printing

BM1700012	Printing: The text or attributes inserted at 90° are not displayed correctly in the generated PDF file (Chinese OS only).
BM22219	Printing: The function from the Registry Editor that hides images under symbols does not work correctly.
BM20212	PDF Generation: The comments created in *SEE Electrical Expert* are not displayed correctly in the generated PDF file.
BM605011	Export to PDF: The internal hyperlinks (<GOTO_SHEET>) defined in a project do not work in the generated PDF file.

Converter

BM21955	Migration: The update of the generated Part List sheets of projects migrated from V3R7/V4R1 to V4R2 results in overlapped texts.
BM1300829	Migration: After migrating a project from V4R1 to V4R2 it is not possible to Copy/Paste a cable, whose strand has an assigned function.

Batch Mode

BM22115	Batch Mode: PDF printing does not take into account the languages.
BM22287	Batch Mode: The notes of symbols cannot be translated in Batch Mode.
BM22300	Batch Mode: The titles of the sheets cannot be translated in Batch Mode.

ENV Catalog

BM1700034	Catalog: The Date and Memo fields cannot be created or modified in the Chinese version of *SEE Electrical Expert.*
BM1700027	SQL Equipment Database: Fields containing Chinese characters in the **Equipment Selection** window have empty values.

ENV Symbols

BM19849	Symbols: Copying-Pasting a symbol displays some unwanted drawings.
BM21832	Symbols: Incorrect text insertion of a meta user attribute inserted in a table.

ENV Method
BM1700018   Method: In **System Attributes** method of a cable, the cable cannot be assigned with its initial value after being inserted into a Schematic Sheet.

BM22218   Method: Impossible to create a new method in the **Automatic Cabling** method > *Automatic creation of terminal strip* tab; cables created with this method have wrong equipment codes.

Performance
BM1700008   The **Insert > Wiring Diagram** symbol command loads very slowly.

Message
BM22108   Messages: Incorrect message in the *Error List* report window of the Harness routing process.

BM604996   Messages: In the **Insert Symbol** toolbar the Symbols family is displayed on top of the list field with descriptions for families and symbols.

BM1300857   Messages: Incorrect text in the confirmation message, which appears after right-clicking on a sheet in the Sheet Explorer and executing the **Delete** command (Spanish version only).

BM1300858   Messages: Incorrect description of a setting in Project Properties.

BM1401401   Messages: Incorrect translation in the Methods dialog of the Italian version.

BM1700014   Messages: In the Chinese version the context menu that appears after right clicking on a toolbar is in English.

Protection
BM1601920   Protection: Signal numbers cannot be hidden if the Kernel Module is present.

Xelec Convertor
BM22318   Xelec Convertor: During project conversion from Xelec to *SEE Electrical Expert,* the Xelec Convertor stops immediately with message "Interruption by user".

BM20342   Xelec Convertor: Problem of conversion of Xfluid with "matricule" and "Sans_Nom" location.

BM20317   Xelec Convertor: All tags become invisible after conversion to Xfluid sheets.

BM22105   Xelec Convertor: Error during sheets generation.

C.3. LIMITATIONS AND RESTRICTIONS

C.3.1. SEE ELECTRICAL EXPERT

SEE Electrical Expert V4R2 needs version equal or higher to version 11.13 of FlexLM to use this type of protection.

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 previous versions 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 V4R2.

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.

C.3.2. 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.

C.3.3. CABINET THERMAL CALCULATION MODULE

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

C.3.4. 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.

C.3.5. CONCURRENT 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 **Undo/Redo** and **Close project without saving** functionalities do not work in Multi-User mode (*Concurrent Engineering* module).

C.3.6. OPEN DATA MODULE

Open Data module needs MS Excel.

C.3.7. END FITTING MODULE

To migrate the data stored in cable attributes (until V4R1) to the new extremity attributes in V4R2, the plugin "End Fitting Migration to V4R2 (4.42)" must be installed and activated.

C.3.8. 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 V4R2.
A 3D panel layout created with the old *3D Panel for SolidWorks* (before V4R2) cannot be migrated to the new *3D Panel* module.

C.3.9. MACRO

VBA version 7.1 (32 bits) must be installed to execute a macro in *SEE Electrical Expert* versions greater or equal to V4R2.

C.4. COMPATIBILITY WITH IGE+XAO PRODUCTS

C.4.1. SEE PROJECT MANAGER

SEE Electrical Expert V4R2 Service Pack 5 (4.45/F) is supported by SEE Project Manager version V7R9, V8R1 and V8R2.

C.4.2. SEE ACCESS CONTROL

SEE Electrical Expert V4R2 Service Pack 5 (4.45/F) 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*.

C.4.3. SEE AUTOMATIC DIAGRAM GENERATION

SEE Electrical Expert V4R2 Service Pack 5 (4.45/F) supports SEE Automatic Diagram Generation with versions greater or equal to 4.42.E.

C.4.4. SEE ELECTRICAL 3D PANEL

SEE Electrical Expert V4R2 Service Pack 5 (4.45/F) supports the version V1R2 Service Pack 1 of *SEE Electrical 3D Panel*.

C.5. SYSTEM REQUIREMENTS

C.5.1. ADVISED SYSTEM CONFIGURATION

For Mono-User Mode

- Microsoft Windows 7 Home Premium, Professional, Ultimate, Enterprise.
- 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 OpenGI, as well as 1 GB of dedicated memory.

C.5.2. WINDOWS COMPATIBILITY

✓ *SEE Electrical Expert V4R2 supports Microsoft Windows 10 Pro (32 and 64 bits), as well as Microsoft Windows 10 Enterprise (32 and 64 bits).*
✓ *SEE Electrical Expert V4R2 supports Microsoft Windows 8 and Microsoft Windows 8.1 (except for the RT version for mobile devices).*
✓ *SEE Electrical Expert V4R2 supports Microsoft Windows 7.*
✓ *SEE Electrical Expert V4R2 (with exception of the "SEE Electrical 3D Panel" module and "Cabinet Thermal Calculation" module) supports Microsoft Windows XP.*

C.5.3. VIRTUAL SOLUTIONS COMPATIBILITY

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

Citrix

Advised System Configuration (Citrix Servers hosting clients):
Minimal Configuration:
- Windows Server 2008 (64 bits).
- Processor: 2 GHz.
- RAM: 4 GB + 2 GB by client.
- Required disk space: 2 GB.
- Graphic Card: 1024 x 768 – 256 colours, 128 MB RAM.
- Network Adapters: 100 Mbps.

Recommended Configuration:
- Windows Server 2008 R2 (64 bits).
- Processor: Dual Core, 3.6 GHz.
- RAM: 8 GB + 4 GB by client (48 GB for 10 users).
- Required disk space: 30 GB.
- Graphic Card: NVDIA, 512 MB RAM.
- Network Adapters: 1 Gbps, or more.

Registry Key:

For each installation the Citrix client profiles must be reset. The modifications in the HKLM registry key are only taken into account when you log on with a blank profile to update it. Keep in mind that the Citrix profiles that are not reset, cannot be updated.

A check whether the Citrix profiles contain printer mapping, or whether the network disk is accessible is performed. Indeed, when connecting to the Citrix server, or when using an application, the printer on the company network will be searched. In such case, your monitor will be "frozen" for long time. (This problem is not a software issue.)

Disk Space:

Avoid sharing dedicated disk space to other users. A mapping on "C:\" has to be created for each user.

Graphic Card:

According to the Citrix Server Settings some pixel transfers or display orders will be provided to the client computer.
It is recommended to use pixel transfer, rather than display orders, because display orders are not correctly used by all graphic cards.

Computer Architecture:

It is better to use the 64 bits' version of Citrix server.
The standby mode of Citrix client requires the Citrix server to repeat some re-connections. Therefore, it is recommended to set the standby mode with a value such as 1 hour, instead of 10 minutes.

C.5.4. MICROSOFT APP-V OR VMWARE

No compatibility problems with those 2 virtual solutions.

D   CHANGES AND ENHANCEMENTS MADE IN SEE ELECTRICAL EXPERT V4R2 SP4 (4.44/A)

D.1.   ADDED IN V4R2 SERVICE PACK 4 (4.44.A) COMPARE TO V4R2 SERVICE PACK 3 (4.43.C)

New zoom
- ▪ Simultaneously press and hold the "Ctrl" and "Shift" buttons and define the area to zoom with the mouse. 3D Panel integration (need SEE Electrical 3D Panel V1R2 Service Pack 1 (1.2.1.4))
- ▪ After wire routing in 3D PANEL, wire lengths are back to the diagram
- ▪ Net routing management (previous release manages only wire routing)
- ▪ Export wire section et color from diagram to 3D PANEL - Import 2D drawing of the front view and drilling plan

D.2.   FIXED

Compare to V4R2 Service Pack 3 (4.43.C)

D.2.1. BATCH MODE

Error when generating terminals and connectors sheets with batch mode

D.2.2. BLOCKS

- ✓ Blocks - The sorting of block seems to be not coherent
- ✓ Blocks - Lost the signal number when inserting block
- ✓ Blocks - Cannot merge cable when inserting several blocks using the same cable if in a block the cable is saved without From or To
- ✓ Blocks - Symbols saved in block are not located when inserting the block in a sheet with a location by default
- ✓ Blocks - When inserting block, the label is not increased if this one is already existing
- ✓ Blocks - Cannot insert a block if its name contains Polish characters

D.2.3. CÂBLES

- ✓ Cables - Cannot extract or display all the digits of the cable length
- ✓ Cables - When inserting a cable with key "Ctrl", the strand numbers are not in correct order

✓ Cables - Insertion of cable with Ctrl keyboard does not work

✓ Cables - From/To tag values are empty when wire extremity is linked to metallic shield symbol of a cable (typical case of a daisy-chain)

✓ Cables - Update Cabling does not work correctly after opening a Connector in Terminal strip Editor

✓ Cables - Symbol Marker Connection point Name does not keep its value after insertion in Schematic sheet.

✓ Cables - The signal attributes disappears when moving the wire symbols

D.2.4. CONNECTORS

✓ Connectors - Wrong connector insertion if the option "No assign number to pin" is enabled

✓ Connectors - The Quantity of connector pins in the Part List is incorrect

D.2.5. COPY PASTE

✓ Copy/Paste - Cannot paste a group on specific projects

✓ Copy/Paste - Cannot paste correctly the memo of cables/symbols/terminal

✓ Copy/Paste - Same sheets numbers after a copy paste between projects and a renumbering sheets

✓ Copy/Paste - After a paste in sheet Explorer, two sheets have the same number

✓ Copy/Paste - Can use shortcut left click (to drag element)+right click to multiple copy in title block editor

✓ Copy/Paste - Lost information when pasting the contents of a cable sheet generated in another sheet

✓ Copy/Paste - Bad behavior with copy/paste special

✓ Copy/Paste - After a Paste or a Paste Special, all the Cables are lost

✓ Copy/Paste - When copying sheets from a group to another one, the equipment loose its tags or its location

✓ Copy/paste - In a new sheet, the Opr copied is not linked to the previous sheet

D.2.6. ISSUES

✓ In Viewer, when opening the configurator

✓ When inserting a terminal, I have a crash if I type manually the terminal strip name

✓ when trying to open connection methods without project opened

✓ when clicking "technical information" in SEE Configurator

✓ when inserting a Black Box without connection points defined

D.2.7. CROSS REFERENCE

Cross reference - When deleting label on a slave, its Cross reference is kept

D.2.8. DATA EXPLORER

✓ Data explorer - When I select several components to delete in the EDE, this message displays: "Can not be deleted because the component 'XXX' has been changed by another user"
✓ Data explorer - Symbols with "Master/Master Ground" behavior are not displayed in Ede Explorer

D.2.9. DXF OR DWG

✓ Dxf/Dwg - Missing some elements when importing a Dwg file
✓ Dxf/Dwg - Cannot create a Dwg file from a sheet with large symbols
✓ Dxf/Dwg - Incorrect option importation settings
✓ Dxf/Dwg - Groups are created even if the Dxf/Dwg importation is cancelled
✓ Dxf/Dwg - After an export and import of a layout sheet , texts are missing
✓ Dxf/Dwg - Impossible to import correctly several Dxf files if the layers don't have the same name in the files imported
✓ Dxf/Dwg -Vertical line appears above the Harness Marker when exporting a harness file
✓ Dxf/Dwg - When importing a Dwg in the illustration editor, the size is changed
✓ Dxf/Dwg - The export process does not take into account of the size text
✓ Dxf/Dwg - Arrows for dimensions are not correctly exported in Dwg files
✓ Dxf/Dwg - Several language cannot be exported in the same time in Dwg files
✓ Dxf Dwg - Cannot export the comments in the Dwg file

D.2.10. ENV CATALOG

Catalog - When importing equipment code from a catalog to another one, the multi language description is not imported

D.2.11. ENV EXPLORER

✓ Environment - Cannot archive an environment if we change the size file
✓ Environment - Cannot restore an environment with index

D.2.12. ENV ILLUSTRAT

✓ Illustration - $REPERE metacommand is not assigned to a layer and then tag is not displayed in the layout sheet
✓ Illustration - Cannot insert text saved in block

D.2.13. ENV METHOD

- ✓ Method - Incorrect dialog in sheet method
- ✓ Method - A param sheet copied with Windows explorer does not exist in the methods
- ✓ Method - Bad list of metacommand when creating a connection attribute
- ✓ Method - In routing method, the values of two options are switched
- ✓ Method - The list order in the edition method is inverted compare to the list order when executing a generation
- ✓ Method - Cannot insert a "space" into cable or signal system attributes
- ✓ Method - When creating a filter by symbol electric functional, the value list is incorrect
- ✓ Method - In routing method, the values of two options are switched
- ✓ Method - Cannot generate the list sheets (table of contents, part list,) when the sheet number format is equal to K[NN]

D.2.14. ENV PARAM.SHEET

- ✓ Param sheet - Cannot change the title block of a param sheet by another one smaller
- ✓ Param sheet - Cannot insert a connector head as a picture or a drawing

D.2.15. ENV SYMBOLS

- ✓ Symbol - Lost the symbols library
- ✓ Symbol - Cannot move correctly several connection points
- ✓ Symbol - On Table symbol, it's not possible to display the root of a user attribute

D.2.16. ENV TITLE BLOCK

- ✓ Title block - Metacommands are not printed if these one are inserted in a text
- ✓ Title block - When changing a title block you cannot move symbol

D.2.17. EXPORTS LABEL

Export Label - Cable and terminal strip are extracted of all the project and not of sheets selected

D.2.18. HARNESS EDITOR

- ✓ Harness - Cannot display MEMO metacommands on a connector symbol
- ✓ Harness - Problem with refresh of Harness marker in Harness Editor

D.2.19. INSTALL

Install - Automatic update install stops after removing the older version

D.2.20. LAYOUT EDITOR

✓ Layout - The "Position control" option does not work when inserting a new equipment
✓ Layout - Bad position of the label when duplicating an illustration
✓ Layout - "Process/Cable creation and routing" command does not work correctly

D.2.21. LIST REPORTS

✓ List reports - Cannot extract the location and the group of a connector with a metacommand $X:.....
✓ List reports - With an assembly code, the description and the quantity are the same for all part number
✓ List reports - $R:$LOC_LIBELLE_TENANT/R and $R:$LOC_LIBELLE_ABOUT/R don't display information in cable list
✓ List reports - In the editing list, the "Enumerate the assembly" option does not work
✓ List reports - Crash when extracting a list of equipment
✓ List reports - After a sheet generation, texts are outside
✓ List reports - Editing description is not displayed in the correct language

D.2.22. LOCATION

Location - Cannot display the location description when inserting a location in another one

D.2.23. MESSAGES

✓ Messages - Change name for metacomand FIRST_SHEET
✓ Messages - Change name for metacomand LAST_SHEET
✓ Messages - Change the metacommand name for the description location
✓ Messages - The option is incomplete in Dxf/dwg import settings
✓ Messages - Incomplete Texts On Window Import Dxf-Dwg / Directory
✓ Messages - Incorrect Translation In Settings For All Languages
✓ Messages - Change Text For The Description Of The Location Metacommand In Spanish Version
✓ Messages - Description For Some Command In The Catalog Are Incorrect
✓ Messages - In The Catalog Change Name For Field "Longuitud"
✓ Messages - Error Message In The Import Dxf/Dwg Dialog
✓ Message - Error Message In The Window Import Dxf/Dwg
✓ Messages - Incorrect Message In Window Import Dxf/Dwg
✓ Messages - Incomplete Settings In The Window Import Dxf/Dxg

✓ Messages - Incorrect Message In Window Import Dxf/Dwg
✓ Messages - Incorrect in Import Dxf/Dwg Method
✓ Messages - Incorrect In Method "Import Dxf/Dwg"
✓ Messages - Change text when executing a right click on terminal strip in terminal strip explorer

D.2.24. MIGRATION

✓ Migration - Cannot migrate a project which has a long name
✓ Migration - Error message when migrating an environment from V4R1 to V4R2
✓ Migration - Cannot generate the sheets of all the terminal strips in one time after migration project from V4R1 to V4R2
✓ Migration - Error message "Format migration failed" when migrating projects created on V4.03 version directly on V4R2 version
✓ Migration - After updating some projects from V4R1 to V4R2 with a uniqueness for "Signal Number" equal to "Group Level X", the wire tags are duplicated after a paste

D.2.25. MULTI LANGUAGES

✓ Multi languages - Translation of the metacommand attributes (e.g. $FUNCTION) is not extracted in the reports
✓ Multi languages - When clicking on "View/Language visibility" command, nothing happens if project has only one language
✓ Multi Languages - The Tag Is Not Displayed When Changing Language On A Project
✓ Multi languages - When inserting a text, the field "Translation" does not display if project has only one language

D.2.26. MULTI USER

✓ Multi user - Conflict When Users Work On The Same Project
✓ Multi user - Cannot import a project in a repository

D.2.27. PERFORMANCES

✓ Performances - Slowness when inserting of cable
✓ Performances - Translation process is too long
✓ Performances - The process is too slow when removing Opr
✓ Performances - Compare to the V3R7, the performances are slower on a Flex LM Server connected through a Vpn connection
✓ Performances - Process to delete connection connected on several Opr symbol is too long

D.2.28. PLC ASSISTANT

✓ Plc - Cannot save the part number downloaded
✓ Plc - An unknown exception occurred when trying to connect to equipment database.

D.2.29. PRINTING

✓ Pdf generation - Incorrect printing with italic fonts
✓ Pdf generation - Arcs of circles are not correctly drew
✓ Pdf Generation - Hyperlink on Text is not generated in PDF file
✓ Printing SVG - Error message when generating all the project in svg file
✓ Printing - Metacommand concatenated Are Missing in print preview or printing
✓ Pdf generation - When creating a PDF file the resolution is not correct
✓ Pdf printing - Harness sheet Cannot print every entities

D.2.30. PROJECT EXPLORER

✓ Project explorer - Can copy sheets of a project protected
✓ Project explorer - During unarchive project if one file is missing, there is no message and no process

D.2.31. PROTECTION

✓ Protection - Server Hasp does not work correctly with Dxf module
✓ Protection - Server Hasp does not work correctly with Terminal module
✓ Protection FLEX LM - From Schematic Editor, When Using The Command "Import file DXF/DWG", the check out is missing

D.2.32. REVISION INDEX

✓ Revision Index - Bad revision index on a table of content if the group inherits the project revision index
✓ Revision index - When Modifying the group revision index, the sheets do not inherit it
✓ Revision index - Cannot update the revision index when saving sheet
✓ Revision index - When updating a part list sheet, an incorrect date is added
✓ Revision Index - The Replace command does not work when Index numbering is set with two counters

D.2.33. SCHEMA EDITOR

✓ Commands - Lost the oriented connections when executing a connection link between 2 sheets
✓ Attribute - Cannot type a space in the value of a signal attribute
✓ Hyperlink - Lost the hyperlink when copying a symbol
✓ Commands -The new value is not updated when using Search/Replace command
✓ Attribute - Cannot display contact number on a coil when inserting it in blank mode
✓ Settings - Cannot enable the "Do not tag the symbol" option if you disable it one time
✓ Commands - When inserting a cable, the text properties (alignment) of the base attribute are incorrect if its value contains a # character

- ✓ Toolbars - When resetting "Insertion" toolbars, lost the "Block" icon
- ✓ Commands - Lost the cross reference and the connection points when changing a symbol by another one
- ✓ Display - Cannot zoom a window with shortcut "Ctrl + Shift" in one click
- ✓ Black box - Incorrect graphical display when stretching a black box
- ✓ Location - When selecting a Location symbol, another symbol is selected when inserting
- ✓ Settings - Remove the command "Mouse right click" in custom command
- ✓ Attribute - On a symbol with an absolute attribute Y, its position is incorrect when moving several symbols
- ✓ Black box - Lost connections and wires when resizing a black box
- ✓ Signal attributes - Cannot type a space
- ✓ External tools - The variables for external programs do not work
- ✓ Location - $Location is not printed if the graphical location is inserted in the same location of the sheet
- ✓ Connection - When moving connection with Cable, all Connections from Electrical Diagram disappear
- ✓ Black box - Cannot define the connection point name on an internal black box
- ✓ Control - The process does not treat the cable inserted in the schema and not inserted in synoptic sheet

D.2.34. TITLE BLOCK

Title bock - Metacommands $G_FONC and $G_LOC do not work

D.2.35. SHEETS EXPLORER

- ✓ Sheet explorer - The Txt file attached to sheet cannot be updated
- ✓ Sheet Explorer - Don't display the correct environment name if this one does not exist in See_Env directory

D.2.36. SIGNALS

- ✓ Signal - Incorrect Signal number when the format contains a Signal Attribute 1 to 10
- ✓ Signals - When moving a symbol, the signal number position is lost
- ✓ Signals - When printing or printing preview, the signal numbers are visible on connections connected on Opr even if " Do not display number on connections linked at Opr" option is enabled
- ✓ Signal - When in the label format the order number has 5 digits, it's impossible to type in more than 4 digits in the Order Number filed on Cad attribute
- ✓ Signals - Process needs several minutes to insert or delete Opr symbols

D.2.37. SYNOPTIC EDITOR

- ✓ Synoptic - Cannot display the value of the location attribute if this one is added in schematic editor
- ✓ Synoptic - If I delete all sheet, the table symbol are not deleted

D.2.38. TAGGING SYMBOLS

- ✓ Tagging - Incorrect numbering in alphabetic mode (bad number A_, B_...)
- ✓ Tagging - When the format of LIF Label contains group name, this one is not updated when renaming group

D.2.39. A.2.39. THERMAL CALCULATION

Thermal calcul - Do not protect the menu command in layout editor

D.2.40. TRANSLATION

- ✓ Translation - Process does not save the "Realize to" option
- ✓ Translation - Lost all source text if destination language is empty during translation process
- ✓ Translation - After a "Save as" the current data base is empty

D.2.41. VIEWER

Viewer - Delete command under Edit menu cannot work.

D.2.42. XELEC CONVERTOR

- ✓ Xelec Convertor - The "Xel2See.Ini" file installed in See_User is not read
- ✓ Xelec convertor - The program does not convert multi-language attributes assigned to the symbols
- ✓ Xelec convector - When opening a converted project, an error message displays "Title block defined as default for new created sheets cannot be located"

D.3. KNOWN ISSUES

D.3.1. ISSUES FIXED IN THE VERSION V4R3

Crash or unexpected behavior when opening "About" or "Technical Information" dialog To support Windows XP, SEE Electrical Expert uses two components: Microsoft .NET FrameWork 4.0 and DevExpress version13.2. New modules SEE Electrical 3D Panel and Cabinet Thermal Calculation use Microsoft .NET FrameWork 4.5 and DevExpress version14.1. As the versions used for Microsoft .NET FrameWork and DevExpress are different, this may cause crash or unexpected behavior. First if you launch SEE Electrical 3D Panel or Cabinet Thermal Calculation and you click on the "About" or "Technical Information" command, you will have crash or unexpected behavior in SEE Electrical Expert. In the same way, first if you open the "About" or "Technical Information" dialog in SEE Electrical Expert, you will have crash or unexpected behavior SEE Electrical 3D Panel or Cabinet Thermal Calculation.

D.3.2. ISSUES FIXED IN THE V4R2 SERVICE PACK 5 (4.45)

- ✓ 2D Panel - The Terminals Without Equipment Code Are Taken Into Account When Inserting Illustration In Layout
- ✓ Block - Cannot Merge The Cable Strands During Block Insertion
- ✓ Project Connections - Cables Doesn't Read Correctly The From/To
- ✓ Copy/Paste - After A Paste, The Cable Is Not Connected
- ✓ Cross Reference - When A Slave Symbol Is Replaced By Another One, The Cross References Of Its Coil Are Incorrect
- ✓ Dxf/Dwg - Cannot Import File
- ✓ Symbol - When We Copy/Paste A Drawing We See Some Unwanted Drawing
- ✓ Harness - Attributes Are Not Updated When Changing Them In Schematic Sheets
- ✓ Harness - Some Harness Protection Are Not Displayed Correctly
- ✓ List Report - When Generating A Connection List, The Wd Attributes Of Opr Symbole Are Not Retrieved
- ✓ List Reports - Incomplete Value For A Wd Attribut In The Connection List
- ✓ List Reports - Metacommand $R:Type Is Limited To 10 Characters
- ✓ Migration - After Migrating A Project V4R1 To V4R2, It's Not Possible To Copy/Paste A Cable When The Strand Has Assigned Function
- ✓ Pdf Generation - The Comments Are Incorrect On The Pdf File Generated
- ✓ Protection - The Merge Between A Hasp Server And A Local Dongle Does Not Work Correctly
- ✓ Protection - Some Commands Are Available With A Hasp Dongle Without Part List
- ✓ Synoptic - Lost The Cable Link After A Modification On The Terminal Strip
- ✓ Xelec Convector - Problem Conversion Xfluid With Matricul And Location "Sans_Nom"
- ✓ Blocks - The Sorting Of Block Seems To Be Not Coherent
- ✓ List Reports - Some Data Don't Display In The Part List Sheet Generated
- ✓ Migration - Cannot Generate The Sheets Of All The Terminal Strips In One Time After Migration Project From V4R1 To V4R2
- ✓ Copy/Paste - When Renaming The Location, The Terminal Strip Label Is Renamed
- ✓ Method - Crash When Closing Connection Method From Opr Tab
- ✓ Param Sheet - Impossible To Validate A Param Sheet Because The Attribute Libelle Is Translatable In Catalog Equipments
- ✓ Param Sheet - Define A Description For $Intercolonnefin Metacommand
- ✓ Extract Creo/Proe: Connection Point Numbers Of Black Boxes Slave Are Not Extracted
- ✓ Extract Creo/Proe: Add The Prefix "Entry" Before The Number Of Connection
- ✓ Migration - After A Migration V3R7 Or V4R1 To V4R2, When I Update The Part List Sheet Generated, The Texts Are Surimposed
- ✓ Slowdown After 1 Hour Of Work With Customer Project
- ✓ Insert Wiring Diagram Symbols- Loading Slowly

D.4. *LIMITATIONS & RESTRICTIONS*

D.4.1. A.4.1. SEE ELECTRICAL EXPERT

✓ SEE Electrical Expert V4R2 needs an equal or an upper version 11.13 of FlexLM to use this type of protection.
✓ The project multilanguage features are protected with the license "Translation". The text or attribute edition can be made into every project languages, only if the user has the module "Translation" on his license. If the user has not the module "Translation", he can consult every languages of the project, but he can mondify only the "main" language.
✓ For the projects created on a previous version, the migration process doesn't create the hyperlinks. To have the hyperlinks on projects migrated, you have to execute these processes: rebuilt the cross reference, generate again the part list and the table of contents.
✓ Export PDF : To activate the hyperlinks in Adobe Acrobat Pro, you need to select "Never" to the "Display documents in PDF/A mode" option in the command "Edition/Preferences/Categories Documents" of Acrobat.
✓ SEE workspace (SWS file / Windows, Toolbars, Menu customization) saved with versions <= V4R1 are not supported by V4R2.
✓ SEE Equipment data base supports MS SQL Server 2008, 2012 and 2014 (need license "Part List Manager").
✓ Versions >= V4 do not support any more MS SQL or Oracle database for parts list process.

D.4.2. SEE ELECTRICAL 3D PANEL

✓ -SEE Electrical 3D Panel" does not work on Windows XP.
✓ -SEE Electrical 3D Panel" has a specific installer and is not installed with SEE Electrical Expert.

D.4.3. CABINET THERMAL CALCULATION

Cabinet Thermal Calculation does not work on Windows XP

D.4.4. SEE AUTOMATIC DIAGRAM GENERATION

✓ "Automatic Diagram Generation" module has a specific installer and is not installed with SEE Electrical Expert.
✓ This module is protected by a licence.
✓ SEE Automatic Diagram Generation needs MS Excel and is compatible with the version 32 and 64 bits of MS Excel 2010, 2013 and 2016.
✓ Cannot add variables in Block Param Editor for blocks of layout or harness.

D.4.5. CONCURRENT ENGINEERING (MULTI-USER)

✓ "Concurrent Engineering module" (Multi-User) works with MS SQL Server 2012 and 2014 database to store projects.
✓ "Concurrent Engineering module" needs SEE User Access.
✓ Undo / Redo and close project without saving don't work in Multi-User mode ("Concurrent Engineering" module).

D.4.6. OPEN DATA

"Open Data" module needs MS Excel

D.4.7. 3D PANEL FOR SOLIDWORKS

✓ The "old" module "3D Panel for SolidWorks" is not any more supported by SEE Electrical Expert >= V4R2.
✓ A 3D panel layout created with the "old" module "3D Panel for SolidWorks" (< V4R2) cannot be migrated to the new module 3D Panel module.

D.4.8. MACRO

VBA version 7.1 32-bits (not 64-bits) must be installed to execute a macro on SEE Electrical Expert >= V4R2.

D.5. COMPATIBILITY WITH IGE+XAO PRODUCTS

D.5.1. SEE PROJECT MANAGER

SEE Electrical Expert V4R2 Service Pack 4 (4.44.A) is supported by SEE Project Manager version V7R9, V8R1 and V8R2.

D.5.2. SEE ACCESS CONTROL

SEE Electrical Expert V4R2 Service Pack 4 (4.44.A) supports only the version 4.50.E of SEE User Access. If a customer uses an old version of SEE User Access, he will have to migrate the data base with SEE User Access Admin Tool.

D.5.3. SEE AUTOMATIC DIAGRAM GENERATION

SEE Electrical Expert V4R2 Service Pack 4 (4.44.A) supports the version >= 4.42.E of SEE Automatic Diagram Generation.

D.5.4. SEE ELECTRICAL 3D PANEL

SEE Electrical Expert V4R2 Service Pack 4 (4.44.A) supports the version V1R2 Service Pack 1 of SEE Electrical 3D panel.

D.6. SYSTEM REQUIREMENTS

Same than previous release V4R2 SP3

D.7. WINDOWS COMPATIBILITY

Same than previous release V4R2 SP3

E   CHANGES AND ENHANCEMENTS MADE IN SEE ELECTRICAL EXPERT V4R2 SP3 (4.43A)

March 2016

E.1. *CHANGES AND ENHANCEMENTS MADE IN V4R2 SP3/A*

E.1.1. IMPROVE DWG/DXF IMPORT

✓ Ability to Import a folder with several DXF, DWG or SLF files, in one shot
✓ Some corrections to do in import DXF/DWG
✓ Other corrections to do in impprt DXF/DWG

E.1.2. OTHER IMPROVMENTS

✓ OPR symbols - Not possible to assign some WD attributes
✓ Ability to launch error explorer from API

E.2. *FIXED*

✓ Revision index -When printing, the metacommands $Rev_Cnt1:.. and $Rev_Cnt2:.. was not displayed.
✓ Editing list - Some texts are missing after an extraction.
✓ Method - When changing cross reference method, there was no update.
✓ Opr - Issue when inserting connection with Opr without the $TENSION_CONNEXION attribute.
✓ Copy/Paste - When pasting a rail, the equipment attached to this rail are not pasted.
✓ Copy/Paste - Impossible to insert an area which contains graphical location after a paste special with renaming location and function in another sheet.
✓ Copy/Paste - Impossible to paste several times a salve symbol inserted from a bloc.
✓ Terminals - Incorrect numbering of multi-levels terminals if you assign a part number to the last terminal and if number format has 2 digits.
✓ Thermal calcul - If I have only a layout sheet, the terminal strips are extracted.
✓ 3D Panel - Bad behavior on the menu commands when I have only 3D panel license.
✓ Attribute - Cannot delete the value of a user attribute from its properties dialog.
✓ Performances - With a dongle hasp and Flex_Lm, some commands are very slow.
✓ Install - Change the name of the command to run "See Key Update".
✓ Terminals - Renumbering of terminals do not take into account of the multi level tagging.
✓ Title bock - Metacommands $G_FONC et $G_LOC do not work.
✓ Terminals - In terminal strip explorer, lost the equipment code for the separator and stop.
✓ Option&Variant - After a "Save as", if a symbol is removed its connections are not regenerated.

E.3. *LIMITATIONS & RESTRICTIONS*

- ✓ "3D Panel" and "Cabinet Thermal Calculation" do not work on Windows XP.
- ✓ "3D Panel" and "Automatic Diagram Generation" modules are not installed with SEE Electrical Expert but each of them has a specific installer.
- ✓ SEE Electrical Expert V4R2 needs an equal or an upper version 11.13 of FlexLM to use this type of protection.
- ✓ The project multilanguage features are protected with the license "Translation".
- ✓ The text or attribute edition can be made into every project languages, only if the user has the module "Translation" on his license.
- ✓ If the user has not the module "Translation", he can consult every languages of the project, but he can mondify only the "main" language.
- ✓ For the projects created on a previous version, the migration process doesn't create the hyperlinks.

  1. To have the hyperlinks on projects migrated, you have to execute these processes:
  2. Rebuilt the cross reference, generate again the part list and the table of contents.

- ✓ Export PDF: To activate the hyperlinks in Adobe Acrobat Pro, you need to select "Never" to the "Display documents in PDF/A mode" option in the command "Edition/Preferences/Categories Documents" of Acrobat.
- ✓ End Fitting module: To migrate the data stored until V4R1 in cable attributes to new V4R2 extremity attributes, the plugin "End fitting migration" must be installed and activated.
- ✓ SEE workspace (SWS file / Windows, Toolbars, Menu customization) saved with versions <= V4R1 are not supported by V4R2.
- ✓ SEE Equipment data base supports MS SQL Server 2008, 2012 and 2014 (need license "Part List Manager").
- ✓ Versions >= V4 do not support any more MS SQL or Oracle database for parts list process.
- ✓ "Concurrent Engineering module" (Multi-User) works with MS SQL Server 2008 R2, 2012 and 2014 database to store projects.
- ✓ "Concurrent Engineering module" needs SEE User Access.
- ✓
- ✓ Undo / Redo and close project without saving don't work in Multi-User mode ("Concurrent Engineering" module).
- ✓ "Open Data" module needs MS Excel
- ✓ -The "old" module "3D Panel for SolidWorks" is not any more supported by SEE Electrical Expert >= V4R2.
- ✓ A 3D panel layout created with the "old" module "3D Panel for SolidWorks" (< V4R2) cannot be migrated to the new module 3D Panel module.
- ✓ VBA version 7.1 32-bits (not 64-bits) must be installed to execute a macro on SEE Electrical Expert >= V4R2.

E.4. SYSTEM REQUIREMENTS

E.4.1. SYSTEM REQUIREMENTS

Advised system configuration

For mono-user mode
Microsoft Windows SEVEN Home Premium, Professional, Ultimate, Enterprise i3 class processor, 2GHz Ram: 4 Gb 500 Mo of free disk space required for the installation Install an operating System 64 bits on a computer 64 bits
Graphic Card: 1280 x 1024

For using 3D panel module
Microsoft Windows SEVEN Home Premium, Professional, Ultimate, Enterprise i5 class processor, 2GHz Ram: 4 Gb 1 Gb of free disk space required for the installation with the 3 parts provided by default Graphic Card: card with full support for OpenGl and 1GB dedicated memory

For multi-user mode (Concurrent Engineering)

For the Server
Microsoft Windows Server 2008 R2 x64 or newer
Microsoft SQL Server 2008 R2 (PROFESSIONAL version strongly recommended; EXPRESS EDITION version possible, but with limitations) i7 class processor, 3GHz Ram: 12 Gb (+ 1Gb by client) 200 Gb of free disk space required for the installation LAN (Network card): 1Gb

For the Client
Microsoft Windows 7 x64 i3 class processor, 2GHz3 class processor, 2GHz Ram: 4 Gb 500 Mo of free disk space required for the installation Network card: 1Gb
Graphic Card: 1280 x 1024

Windows 8
SEE Electrical Expert V4R1 supports Windows 8 and 8.1 (except version RT for mobile devices)

Windows 10
The compatibility testing is in progress and then we cannot ensure a proper functioning of SEE Electrical Expert.

Compatibility with virtual solutions: CITRIX, Microsoft App-V, VMWare
SEE project Manager and SEE Electrical Expert are compatible with virtual solutions: Citrix, Microsoft App-V, VMWare.

VMWARE ou Microsoft App-V
No compatibility problems with these two virtual solutions. Krakow agency uses VMWARE to execute the automatic tests. The virtual machines of the IT Department works on Microsoft App-V.

CITRIX

For CITRIX, here are the recommendations from experience acquired by some customers:

Advise system configuration (Citrix Servers hosting clients)

Minimum Configuration
- Windows Server 2008 (64 bits)
- Processor: 2 GHz
- RAM: 4GB + 2GB by client
- Required disk space: 2GB
- Graphic card: 1024 x 768 – 256 colors, 128 MB RAM
- Network Adapters (100 Mega bits/s)

Recommended Configuration
- Windows Server 2008 R2 (64 bits)
- Processor 3,6 GHz dual core
- RAM: 8 GB + 4GB by client (means 48 GB for 10 users)
- Required disk space: 30 GB
- Graphic card: NVDIA, 512 MB RAM
- Network Adapters (1 Giga bits/s, or more)

Registry key
For each installation, you must reset the CITRIX client profiles. Indeed, to take into account the modifications in the HKLM registry keys, you must log on with a blank profile to update it. Else, risk is that the CITRIX profile not reseted is not updated.

Check if the CITRIX profiles don't contain a printer mapping or network disk not accessible. Indeed, when connecting to the CITRIX server or when using an application, the printer will be searched on the company network. In this case, your computer monitor will be "frozen" during long minutes. But this problem is not a software issue.

Disk space Avoid the sharing of dedicated disk spaces to users. A mapping on "C:\" has to be created for each user.

Graphic card
According to the CITRIX server settings, some pixels or display orders will be provide to the client computer. We recommend to use a pixel transfert rather than display orders, which are not correctly used by all graphic cards.

Computer architecture Give priority to a 64 bit version of CITRIX server. The standby mode of the CITRIX client requires some re-connection repeated of the CITRIX server. For that, we recommend to set the standby mode with an optimal value as one hour instead of ten minutes.

F   CHANGES AND ENHANCEMENTS MADE IN SEE ELECTRICAL EXPERT V4R2 SP2 (4.42/B)

January 2016

F.1.   ENHANCEMENTS

- ✓ Improvement of dialog 'Define languages and layers' when you open a project already migrated from previous version
- ✓ Option/Variant: Project generation in batch mode
- ✓ Viewer : Ability to see and insert comments

F.2.   FIXED

- ✓ 604895 - Viewer - Comments Inserted In Viewer Are Not Correctly Displayed In See
- ✓ 21073 - Install - Missing Hasp Lm Software in Folder Tools
- ✓ 21517 - Messages - Impossible To Fill The Value Of "From Sheet" In The Generation Properties Of The Editions.
- ✓ 604358 - Plc - Incorrect Chinese Translation
- ✓ 1300785 - Messages - Change Text in the Method Terminal Strip
- ✓ 1601474 - Message - Incorrect Text in the "List of Sheets" Edition
- ✓ 21392 - Improvement of Dialog 'Define Languages and Layers' When You Open A Project Already Migrated From Previous Version
- ✓ 21495 - Thermal Calculation - Extract Also the Cables

G   CHANGES AND ENHANCEMENTS MADE IN SEE ELECTRICAL EXPERT V4R2 SP2 (4.42/A)

December 2015

G.1.   ADDED IN V4R2 SERVICE PACK 2 (4.42.A) COMPARE TO V4R2 SERVICE PACK 1 (4.41.B)

News modules 3D Panel and 3D Panel Manufacturing
These modules are not installed with the SEE Electrical Expert installer. They are installed by a specific installer SEE Electrical 3D Panel.

G.1.1. 3D PANEL

- ✓ Schematic and 3D panel design integration.
- ✓ Fast 3D placement of all equipment.
- ✓ Automatic snap-to-rail feature.
- ✓ Collision detection.
- ✓ Consistency check with the schematic diagram.
- ✓ Import/export support for DWG/DXF, IGES, STEP and STL.

G.1.2. 3D PANEL MANUFACTURING

- ✓ Includes all the features of the "3D Panel" module
- ✓ Advanced net or wire routing features.
- ✓ Optimal wire lengths calculated.
- ✓ Manufacturing reports to support drilling plans and wire cut lists.
- ✓ Direct output for CNC tools.

G.1.3. NEW MODULE CABINET THERMAL CALCULATION

Allow to calculate:
- ✓ The power dissipation of all equipment
- ✓ Minimum and maximum total temperature inside a cabinet without cooling solution
- ✓ The required power for a cooling solution (air-conditioner, fan, heater resistor).
- ✓ Upgrade of the module Automatic Diagram Generation to be supported by SEE Electrical Expert V4R2.
- ✓ This module exists only in french language
- ✓ This module is not installed with the SEE Electrical Expert installer. It is installed by a specific installer
- ✓ The .exe and .msi files are signed. SEE Electrical Expert will be recognized by the antivirus software.

✓ Strongly improvement of editing process performances (Part list, Symbol, Wireway, Cover Page), except Cabling list
✓ The option "Purge the project when closing" is enabled by default.
✓ New command "Export the labels for Wago SMARTSCRIPT" in Tools menu. Command is removed in Process > Create label files menu.
✓ Exist only in French version.
✓ New plugin "End fitting migration" for the migration of data stored until V4R1 in cable attributes to new V4R2 extremity attributes.
✓ Installed only in customized mode with the module End Fitting.

G.1.3.a. OTHER MODIFICATIONS

✓ Terminal strip Splitter : Add automatically 'Stop'
✓ 'Tools / Controls': 'Device' and 'Term strip & connector' check twice the terminals and pins
✓ Display last Signal number of sheet, Group and project in multi-connections context
✓ Viewer : Ability to see and insert comments
✓ Add sorting criteria in symbol 'Table' dedicated at Harness sheet
✓ Management of indexes between sheets, groups and project when 2 index counters are used
✓ Generation of Part-List from Sheet Explorer: display Description of Editing format, rather than Editing name

G.2. FIXED

G.2.1. ALL

When executing a double click on a *Seeprj* File, user cannot choose the See Xp version to open

G.2.2. BATCH MODE

Batch Mode - Cannot Generate The Terminal Strip In Each Group

G.2.3. BLOCKS

All blocks are displayed whatever the active editor
The separator symbol is always inserted even if these one was not saved in the block

G.2.4. CABLES

Ability To Insert 2 Different Cables On The Same Connection
Section Is Missing On The Cad Dialog When You Recover The Previous Cable Equipment Code

Error Message "Argument Non Valide" When Inserting Or Openning A Cable If The "Display Only Main Source And Destination Locations" Option Is Disabled
If Option "**Use Synoptic Data To Tag Terminals**" Is Enable, A Message "Out Of Memory" Displays When Opening Cad Attrib Cables

G.2.5. CONNECTORS

Impossible To Append The Shielded Pin Type To The Connector With Assigned Equipment Code

G.2.6. COPY/PASTE

Paste And Paste Special Are Always Grey In Layout Editor
After A Copy/Paste From A Project To Another One, The Terminal Strip Is Assigned To 310 Additional Equipment Codes
If A Symbol Has The Column Number In The Tagging Format, This One Is Not Updated After A Paste

G.2.7. CROSS REFERENCE

Incorrect Cross Ref On A Black Box Master And Slave The Angle Is Reseted On An Opr If User Change The Sheet Number

G.2.8. DATA EXPLORER

Impossible To Deleted A Multi Selection With The Contextual Menu

G.2.9. END FITTING

Missing Metacommand To Extract New End-Fitting Codes In Cabling List

G.2.10. ENV CATALOG

Trouble When Opening Catalog from an Other Environments

G.2.11.ENV MANAGER

Cannot Merge Two Environments

G.2.12.ENV METHOD

When Typing Manually Revision Index, The "." Is Treated As A Separator
Cannot Save A New Root

G.2.13.ENV SYMBOLS

Incorrect Color When Modifing A Symbol Inserted In A Sheet In The Environnement
On A Black Box, The **$Pos_Refcro** Attribute Does Not Exist
Connection Point Attribute - The **$Cp** And **$Cp_Name** Metacommand Display The Same Contents

G.2.14.ENV TITLE BLOCK

Cannot Save The Modification Of A Picture Inserted In Title Block

G.2.15.HARNESS EDITOR

Some Cables Are Not Routed In Harnesses Because From/To Are Not Correct

G.2.16.LAYOUT EDITOR

Move Rail (And Wireway) From Right Click Does Not Work If A Panel Is Inserted
When Copying An Equipment, Its Lable Is Moved

G.2.17.LIST REPORTS

After A Project Migration, The Table Of Contents Does Not Work
After An Update Of A Part List, Some Quantities Are Wrong
Some Components Are Missing After An Extraction

G.2.18.MOULINETTE

Migration - When Migrating A Project From The V4R1 To The V4R2 The Name Of Connection
Source/Destination Is Created As A Texte Near Theme

G.2.19.MULTI LANGUAGES

Reports (*Table Of Contents, Part List...*) Don't Work If Parameter Sheet Contains Metanommand: $X:.....

G.2.20.OPTION INVARIANTE

After A Save As, The Generated Sheets Are Not Updated Miss Some Connections In Preview When Selecting A Validity

G.2.21.OTHER TOPIC

Commands Like Save As, Delete Sheet,.. Show Empty Windows Message Cannot Launch The Software If **Kaspersky** Anti-Virus Is Enabled

G.2.22.PLC ASSISTANT

An Error Message Displays When Generating The Module V120-22-T1 The Channel Numbering In Automatic Mode Is Incorrect

G.2.23.PROTECTION

Cannot insert connection if the dongle is programmed with the basic modules: Kernel, Cross ref, Base See, Signals
With Basic Module It's Not Possible To Delete Signal And Symbols, Drawing...

G.2.24.PRINTING

Cannot Display Some Metacommands In The Title Block

G.2.25.SCHEMA EDITOR

✓ Selection Entities - When Selecting A Symbol Inserted Next A Text, This One Is Also Selected
✓ Copy/Paste - The Copy Didn't Work When User Has Grouped Drawing And Text
✓ Download - In Symbol Editor, A Symbol Is Not Visible If This One Is Downloaded With The Equipment Code
✓ Equipment Code - Impossible To Assign A Part Number Which Does Not Exist In Data Base
✓ Equipment Code - Cannot Define Contact On An Equipment Code From A Slave
✓ Attribute - Impossible To Move An Attribute Created With "Y Absolu" Option

- ✓ Cut/Paste - When Cutting And Pasting A Slave, The Link With Its Master Is Lost
- ✓ Copy/Paste - The Label Is Not Increase When Copying An Opr
- ✓ Control - "Cable Not Used In Synoptic But Inserted In Schema " Control Does Not Work
- ✓ Display - Cannot Display A Connection After A Copy:Paste
- ✓ Texts - The List Of Existing Texts Is Incorrect
- ✓ Sheet Explorer - When Opening Several Sheets, The First Sheet Selected Is Displayed At The End
- ✓ Schema - Lost Metacommands Value In Term Strip Sheets Generated When Updating Wd Attributes
- ✓ Display - Don't Keep The Position Of The Aerial View After Opening A Terminal Strip
- ✓ Display - Problem When Several Sheets Are Opened
- ✓ Display - Cannot Put The Symbol Explorer At The Bottom Of The Screen
- ✓ Selection - When Inserting A Drawing On A Terminal, Cannot Select Correctly The Terminal
- ✓ Black Box - The Name Attribute Of The Connection Points Take The Number Value
- ✓ Container Symbols - Cannot Move Terminals Inserted In A Container
- ✓ Filter - If I Create A Filter For A Class, This One Can Be Selected For Another Class In Dialog "Select Equipment Code"
- ✓ Project Properties - Symbol Size At The Insertion" Does Not Modify Size Of Cable Symbol Inserted
- ✓ Process - Symbol Size Calculation According To The Project Step Works Only For The First Symbol Inserted
- ✓ Attribute - Cannot Fill Connection Point Attribute When Inserting A Coil In Next Mode
- ✓ Attribute - Wiring Diagram Attributes Are Not Displayed Automatically On Opr Symbols
- ✓ Command - Cannot Have A Free Mode When Moving Signal Number On Axis
- ✓ Zoom - Bad Zoom When Using Crtl+Scroll
- ✓ Location - Don't Update The Tag When Changing The Location Name
- ✓ Command - According To Moduls Programmed On Dongle, The Buttons 'Next Sheet' Or 'Previous Sheet' Don't Work
- ✓ Copy/Paste - The Dialog Paste Special Displays Several Times
- ✓ Settings - Don't Display The Electric Points Visiility Icon
- ✓ Zoom - Zoom With Ctrl Button Does Not Follow The Cursor
- ✓ Display - Cannot Change The Print Visibility On A Symbol Attribute
- ✓ Moving - Cannot Move A Text With Keyboard Arrows
- ✓ Text - The Cursor Blinks Very Fast When Inserting A Text
- ✓ Ole Object - Cannot Print And Modify A Pdf File Inserted As An Ole Object

G.2.26. SHEET EXPLORER

Sheet Explorer - The Preview Is Incorrect For A Synoptic Sheet
Display - The Group Sheet Number Is Incorrect When Updating A Sheet

G.2.27. SIGNALS

Cannot Type A "Space" In A Signal Attribute

G.2.28.SYNOPTIC EDITOR

Import Pins From Synoptic Does Not Work
Incorrect Sorting For The Interface
On A Link Or A Table, We Don't Retrieve The Decimal Of The Cable Length

G.2.29.TAGGING SYMBOLS

The Label Of An Opr With A Blank Root Is Not Increased
In Automatic Mode, The Label Is Splited If The Root Contains 20 Characters

G.2.30.TERMINALS

- ✓ Cannot Copy/Paste Equipment Code On Several Terminals
- ✓ Incorrect Bullet In Standard Toolsbar
- ✓ After A Copy/Paste Of Terminal In Sheet Editor, The From Displays In Terminal Strip Editor Is Wrong
- ✓ When Switching Source And Destination, We Need To Execute A Refresh
- ✓ Do Not Save The Equipment Code Of An Accessory

G.2.31.TRANSLATION

Impossible To Display All Languages With A Dongle Without Translation Module
Several Users Cannot Work On A Term Data Base Stored On A Network

G.2.32.VIEWER

Can Display Only The Principal Language Of Project

G.2.33.XELEC CONVERTOR

Message - Incorrect Dialog In "**Options**" Tab Of Xelec Convertor
Xelec Convector - Bad Position Text Or Button On The Window Parameter

G.3. *LIMITATIONS AND RESTRICTIONS*

- ✓ "3D Panel" and "Cabinet Thermal Calculation" do not work on Windows XP.
- ✓ "3D Panel" and "Automatic Diagram Generation" modules are not installed with SEE Electrical Expert but each of them has a specific installer.
- ✓ SEE Electrical Expert V4R2 needs an equal or an upper version 11.13 of FlexLM to use this type of protection.
- ✓ The project multilanguage features are protected with the license "Translation".
- ✓ The text or attribute edition can be made into every project languages, only if the user has the module "Translation" on his license.
- ✓ If the user has not the module "Translation", he can consult every languages of the project, but he can mondify only the "main" language.
- ✓ For the projects created on a previous version, the migration process doesn't create the hyperlinks.
- ✓ To have the hyperlinks on projects migrated, you have to execute these processes: rebuilt the cross reference, generate again the part list and the table of contents.
- ✓ Export PDF : To activate the hyperlinks in Adobe Acrobat Pro, you need to select "Never" to the "Display documents in PDF/A mode" option in the command "Edition/Preferences/Categories Documents" of Acrobat.
- ✓ End Fitting module: To migrate the data stored until V4R1 in cable attributes to new V4R2 extremity attributes, the plugin "End fitting migration" must be installed and activated.
- ✓ SEE workspace (SWS file / Windows, Toolbars, Menu customization) saved with versions <= V4R1 are not supported by V4R2.
- ✓ SEE Equipment data base supports MS SQL Server 2008, 2012 and 2014 (need license "Part List Manager").
- ✓ Versions >= V4 do not support any more MS SQL or Oracle database for parts list process.
- ✓ "Concurrent Engineering module" (Multi-User) works with MS SQL Server 2008 R2, 2012 and 2014 database to store projects.
- ✓ "Concurrent Engineering module" needs SEE User Access.
- ✓ Undo / Redo and close project without saving don't work in Multi-User mode ("Concurrent Engineering" module).
- ✓ "Open Data" module needs MS Excel
- ✓ The "old" module "3D Panel for SolidWorks" is not any more supported by SEE Electrical Expert >= V4R2.
- ✓ A 3D panel layout created with the "old" module "3D Panel for SolidWorks" (< V4R2) cannot be migrated to the new module 3D Panel module.
- ✓ VBA version 7.1 32-bits (not 64-bits) must be installed to execute a macro on SEE Electrical Expert >= V4R2.
- ✓ End Fitting module: To migrate the data stored until V4R1 in cable attributes to new V4R2 extremity attributes, the plugin "End fitting migration" must be installed and activated.

G.4. *FIXED*

G.4.1. FIXED IN A PATCH 4.42.B AVAILABLE SOON (JANUARY 2016)

- ✓ Impossible to install this release on Windows XP
- ✓ Improvement of dialog 'Define languages and layers' when you open a project already migrated from previous version
- ✓ Option/Variant: Project generation in batch mode
- ✓ Cabinet thermal calculation integration: improvements
- ✓ Protection: without 'Labelling' licence, ability to use button 'Next' on terminal
- ✓ Sheets Explorer: Copy/Paste group, correction
- ✓ Bad ID calculation for 3D Panel integration
- ✓ Cabinet thermal calculation: don't display cable in list of equipment
- ✓ Migration - When Opening A Project, A Multi Language Tools Display An Incomplete Dialog
- ✓ Plc - When Saving An Import Templates, The Types Of Channel Are Not Saved
- ✓ Plc - When Importing An Excel File, The Moduls Without Channel Don't Keep Its Label
- ✓ Plc - Cannot Save The Part Number Downloaded
- ✓ Plc - Don't Display Only The Part Numbers To The Symbol Class
- ✓ Plc - The Part Number Is Not Downloaded In The Good Class
- ✓ Plc - Error When Launching Plc I/O Manager
- ✓ Plc - On Unity Servers Option, Dialog Browse For Computer Does Not Appear
- ✓ Plc - After An Importation, The Gen_Fol.Ldb File Is Not Removed
- ✓ Plc Messages - Replace Text In The Plc Assistant For Anolog Input And Output
- ✓ Plc - The Software Closes If The Importation Is Made From An External Disk
- ✓ Plc - Cannot Open The Windows Import Configuration File When The Defaut Path Saved Is Not Existing
- ✓ Plc - When Importing A Configuration Without The Plc Part Number, A Letter Is Added
- ✓ Plc - Incompatible Message Between Imdio Card And Mb20R Interface
- ✓ Plc - Incorrect Label For Inteface When Changing The Root
- ✓ Plc - On Configuration Importation , The List Of Servers Is Incorrect
- ✓ Plc - Display Problem When Changing The Rack Number
- ✓ Plc - Missing Field 'Address' In 'Plc I/O Wizard'.
- ✓ Plc - When Generate The Plc I/O Sheet By Ticking The "Replace Existing Sheets" Option, An Error Dialogue Appears And The Generate Button Becomes Gray.
- ✓ Plc Manager Generates Symbol's Attribute Which Have Property Translatable (Multilanguage) On Layer (B)
- ✓ Plc - Error Message "List Index Out Of Bounds (0)" Displays When Importing A Configuration

G.4.2. FIXED IN THE SERVICE PACK 3 (4.43) AVAILABLE AT THE END OF FEBRUARY 2016

- ✓ Sheet Explorer - Crash When Deleting An Empty Group
- ✓ Terminals - Impossible To Renumber Terminals With Equipment Code
- ✓ Terminals - Bad Managing Of Terminal Strip With 2 Levels
- ✓ Terminals - Incorrect Mangement Of Terminals Multi-Levels
- ✓ Documentation - Bad Module To Download Parts Numbers From Web Catalogue

- ✓ Option & Variant - If The Terminal Strip Has Not The Validity Selected, The Terminal Strip Sheet Is Generated With Only Its Header

- ✓ Option & Variant - Lost The Link Between Opr If A Sheet Is Removed When Using The Save As Command
- ✓ Performance - The "Link Connection Point" Command Is Too Long
- ✓ Update Terminal Strip Sheet - The Page Number Is Incorrect (Engagement Tb)
- ✓ Cabinet Thermal Calculation - Incorrect Message When Cancelling The Selection Of Enclosure Part Number
- ✓ Cabinet Thermal Calculation - No Default Cabinet Class If The Layout Sheet Does Not Exist
- ✓ Cabinet Thermal Calculation - The Material And The Power Dissipation Are Automatically Updated If These One Are Modified In The Catalog Equipment
- ✓ Cabinet Thermal Calculation - If The Layout Sheet Does Not Exist, The Settings Are Not Saved In The Calculation
- ✓ Cabinet Thermal Calculation - I I Have Only A Layout Sheet, The Terminal Strips Are Extracted
- ✓ Impossible To Use In Viewer The Hyperlinks Defined In The Project
- ✓ Terminal Strip - Incorrect Message If Terminal Module Is Absent
- ✓ Messages - Incorrect Message When Deleting A Language In The Method
- ✓ Text Editor Dialog Performances - Slowness With The Database Of Translation On The Network
- ✓ Terminals - Renumbering Of Terminals Do Not Take Into Account Of The Multi Level Tagging.
- ✓ Impossible to renumber terminals with equipment code + Incorrect management of terminals multi-levels
- ✓ Performance issues on projects with part numbers that have many contacts defined in equipment db
- ✓ Crash when removing an empty project group

G.4.3. PLC

- ✓ When Saving An Import Templates, The Types Of Channel Are Not Saved
- ✓ When Importing An Excel File, The Moduls Without Channel Don't Keep Its Label
- ✓ Cannot Save The Part Number Downloaded
- ✓ Don't Display Only The Part Numbers To The Symbol Class
- ✓ The Part Number Is Not Downloaded In The Good Class
- ✓ Error When Launching Plc I/O Manager
- ✓ On Unity Servers Option, Dialog Browse For Computer Does Not Appear
- ✓ After An Importation, The Gen_Fol.Ldb File Is Not Removed
- ✓ Messages - Replace Text In The Plc Assistant For Anolog Input And Output
- ✓ The Software Closes If The Importation Is Made From An External Disk
- ✓ Cannot Open The Windows Import Configuration File When The Defaut Path Saved Is Not Existing
- ✓ When Importing A Configuration Without The Plc Part Number, A Letter Is Added
- ✓ Incompatible Message Between Imdio Card And Mb20R Interface
- ✓ Incorrect Label For Inteface When Changing The Root
- ✓ On Configuration Importation , The List Of Servers Is Incorrect
- ✓ Display Problem When Changing The Rack Number
- ✓ Missing Field 'Address' In 'Plc I/O Wizard'.
- ✓ When Generate The Plc I/O Sheet By Ticking The "Replace Existing Sheets" Option, An Error Dialogue Appears And The Generate Button Becomes Gray.
- ✓ Manager Generates Symbol's Attribute Which Have Property Translatable (Multilanguage) On Layer (B)

✓ Error Message "List Index Out Of Bounds (0)" Displays When Importing A Configuration

G.5. SYSTEM REQUIREMENT

G.5.1. ADVISED SYSTEM CONFIGURATION

For mono-user mode

- ▪ Microsoft Windows SEVEN Home Premium, Professional, Ultimate, Enterprise i3 class processor, 2GHz
- ▪ Ram: 4 Gb
- ▪ 500 Mo of free disk space required for the installation Install an operating System 64 bits on a computer 64 bits Graphic Card: 1280 x 1024

For using 3D panel module

Microsoft Windows SEVEN Home Premium, Professional, Ultimate, Enterprise i5 class processor, 2GHz Ram: 4 Gb 1 Gb of free disk space required for the installation with the 3 parts provided by default Graphic Card: card with full support for OpenGI and 1GB dedicated memory

For multi-user mode (Concurrent Engineering)

For the Server
Microsoft Windows Server 2008 R2 x64 or newer
Microsoft SQL Server 2008 R2 (PROFESSIONAL version strongly recommended; EXPRESS EDITION version possible, but with limitations) i7 class processor, 3GHz Ram: 12 Gb (+ 1Gb by client) 200 Gb of free disk space required for the installation LAN (Network card): 1Gb
For the Client
Microsoft Windows 7 x64 i3 class processor, 2GHz i3 class processor, 2GHz Ram: 4 Gb 500 Mo of free disk space required for the installation Network card: 1Gb Graphic Card: 1280 x 1024

Windows 8
SEE Electrical Expert V4R1 supports Windows 8 and 8.1 (except version RT for mobile devices)

Windows 10
The compatibility testing is in progress and then we cannot ensure a proper functioning of SEE Electrical Expert.

Compatibility with virtual solutions: CITRIX, Microsoft App-V, VMWare

SEE project Manager and SEE Electrical Expert are compatible with virtual solutions: Citrix, Microsoft App-V, VMWare.

VMWARE ou Microsoft App-V

No compatibility problems with these two virtual solutions. The virtual machines of the IT Department works on Microsoft App-V.

see electrical™ expert

CITRIX

For CITRIX, here are the recommendations from experience acquired by some customers:

Advise system configuration (Citrix Servers hosting clients)

Minimum Configuration
- Windows Server 2008 (64 bits)
- Processor: 2 GHz
- RAM: 4GB + 2GB by client
- Required disk space: 2GB
- Graphic card: 1024 x 768 – 256 colors, 128 MB RAM
- Network Adapters (100 Mega bits/s)

Recommended Configuration
- Windows Server 2008 R2 (64 bits)
- Processor 3,6 GHz dual core
- RAM: 8 GB + 4GB by client (means 48 GB for 10 users)
- Required disk space: 30 GB
- Graphic card: NVDIA, 512 MB RAM
- Network Adapters (1 Giga bits/s, or more)

Registry key
For each installation, you must reset the CITRIX client profiles. Indeed, to take into account the modifications in the HKLM registry keys, you must log on with a blank profile to update it. Else, risk is that the CITRIX profile not reseted is not updated. Check if the CITRIX profiles don't contain a printer mapping or network disk not accessible. Indeed, when connecting to the CITRIX server or when using an application, the printer will be searched on the company network. In this case, your computer monitor will be "frozen" during long minutes. But this problem is not a software issue.

Disk Space
Avoid the sharing of dedicated disk spaces to users. A mapping on "C:\" has to be created for each user.

Graphic Card
According to the CITRIX server settings, some pixels or display orders will be provide to the client computer. We recommend to use a pixel transfert rather than display orders which are not correctly used by all graphic cards.

Computer architecture
Give priority to a 64 bit version of CITRIX server. The standby mode of the CITRIX client requires some re-connection repeated of the CITRIX server. For that, we recommend to set the standby mode with an optimal value as one hour instead of ten minutes.

H   CHANGES AND ENHACEMENTS MADE IN SEE ELECTRICAL EXPERT V4R2 SP1 (4.41/B)

July 2015

H.1.   ADDED IN V4R2 SERVICE PACK 1 (4.41.B) COMPARE TO V4R2 (4.40H)

- ✓ Improvement of editing process performances (Part list, Wire list ...).
- ✓ The option "Purge the project when closing" is enabled by default.
- ✓ New command "Export the labels for Wago SMARTSCRIPT" in Tools menu (only in the French version).
- ✓ Other Modifications:
  - ▪ Harness routing optimization
  - ▪ Control symbol, terminals and pins without equipment code.
  - ▪ Tools / Controls / Term strip & connector control': improvement of messages in Error Explorer.
  - ▪ Improving sharing of translation database.
  - ▪ Offset setting for texts and attributes multi-languages has to be only in method.
  - ▪ Insert comment PDF : Line break issue.
  - ▪ Insert comment PDF : Fix insertion position.
  - ▪ Terminal strip multi-level migration.
  - ▪ Multi-languages Part List from equipment db multi-fields (mono-language).
  - ▪ Catalog: new class's functions.
  - ▪ Ability to manage terminals multi-level without Eqpt. code.
  - ▪ Improve Tiff generation : Add 'Multi-page' option.
  - ▪ New metacommands able to retrieve additive equipment code.
  - ▪ Harness sheet: Routing process modification.
  - ▪ WD attribute $Sable to request connection point 'Number'.
  - ▪ Harness Editor - New 'Table' symbol for devices as connector.
  - ▪ Extract P/N of end fitting in the part lists (not in wire/cable lists).
  - ▪ Remove mechanism of multiple Copy / Paste with mouse right click.

H.2.   FIXED

H.2.1.   CABLES

- ✓ Impossible To Insert Cable On Connection Connected At A Black-Box Connection Point.
- ✓ Cannot Insert a Cable If Connection Points Of The Black box Is Linked.
- ✓ On A Project Type Wire/Cable, The From/To Is Not Displayed Correctly In The Cable Explorer.
- ✓ Symbols "Cable / Wire" In Schematic Sheet Was Not Inserted On Connection.

H.2.2.   ENVIRONMENT MANAGER

Cannot Update Symbol If Several Users Modify Some Symbols.

H.2.3. EXTRACTOR

Difficult To Export Some Data To SolidWorks.

H.2.4. ALL

- ✓ Protection - Error When Reading Date Of Moduls On The Licence.
- ✓ Migration - When Migrating Projects, The Links Between Symbols And Wiring diagram Equipment Are Loosen.

H.2.5. BLOCKS

Bad Description For Symbols After Insertion Block.

H.2.6. COPY PASTE

- ✓ Impossible To Paste Only A Cable
- ✓ Lost The Signal Number And The Connection Type When Copying A Sheet From Another Project
- ✓ The Tag Was Repeated For Master/Unique After A Paste

H.2.7. CROSS REFERENCE

- ✓ If The Opr was moved, Its $Pos_Refcro Attribute Dids Not Move
- ✓ Lost The Hyperlink On Cross Reference When Assigning A Part Number To The Master

H.2.8. HARNESS EDITOR

- ✓ It was Not Possible To Insert A Splice Area In Intersection Of Harness Branch With One Click
- ✓ Schematic Connector Plug/Receptacle Cannot Be Merged With "Inline" Harness Connector
- ✓ Harness Sheet - Impossible To Link 'Connector Other' To All Schematic Connector Behavior
- ✓ When Routing The Harness - The Program Assigned An Incorrect Harness Name To Cables Connected To The Terminal Pins
- ✓ A Cable Which Shunts Two Pins Was Not Displayed In Table Symbol

H.2.9. INSTALL

- ✓ Welcome Of Installer Does Not Display The Version Of The Product
- ✓ Installation - The Protection Settings Are Not Recovered After A Custom Installation

✓ Bad Position Of The Text In The Message Box At The End Of The Installation
✓ Xelec Converter Doesn't Work With See Electrical Expert 4.40/X Or 4.41 Ai1
✓ Installing V4R2 Damaged Version V4
✓ Problem During Diagram Cable Insertion If "Events" Are Enabled In The Environment
✓ The Dongle Programmer Command Was Missing

H.2.10. PROTECTION

✓ Protection - Token Problem With A Merged License
✓ Protection - Slow Start When Using A Hasp Dongle Merged With A Hasp Server

H.2.11. REVISION INDEX

✓ Revision Index - Lost The Revision Index On A Sheet Pasted
✓ Revision Index - The Description Is Not Updated

H.2.12. XELEC CONVERTOR

Xelec Convertor - The Text Attributes In Languages 1, 2, 3 And 4 Are Not Retrieved

H.2.13. ENV CATALOG

Catalog - Function For "English description" Does Not Work Properly In Web-Catalogue

H.2.14. ENV METHOD

Method - When Importing The Method Of "Line Type And Color", The Methods (Old And News) was Merged

H.2.15. ENV SYMBOLS

✓ Managing Of Shared Symbol Library improved
✓ Saving Symbols When Environment Is Shared is improved

Release Notes

H.2.16. LAYOUT EDITOR

- ✓ An Error Message Displays When Executing A Routing
- ✓ Display The Last Workspace When Changing Sheet
- ✓ When Generating A Layout Sheet In Standard Screen Shot (Jpeg, Tiff...), The Title Block Attributes Are Loosen
- ✓ Terminal Strip Illustration Name Does Not Display In Dialog "Eqpt List To Insert"
- ✓ Error Message When Double Click On Ole Object In Layout Sheet
- ✓ When Creating Cable From Panel Display an Error Message was displayed In Terminal Strip Editor
- ✓ Edit>Change>Cad Attributes Command Did Not Work
- ✓ Edit > Change > Equipment Cad Attribute For Rail Did Not Work
- ✓ Drilling Sheet Is Not Generated Correctly
- ✓ Wrong Automatic Placement Of Equipment On Rails
- ✓ Delete Routing From Contextual Menu Did not Work

H.2.17. LIST REPORTS

- ✓ Protection -**With Part List Level 1** Impossible To Update Part List Generated Sheet
- ✓ Equipment Codes Linked Together By Using The "Assembly" Command Will Not Be Included In a Part List
- ✓ List-Content - Revision Index Not Retrieved In Sheet After An Update
- ✓ Part List - Cannot Update a Part List By Location

H.2.18. MIGRATION

- ✓ Texts Or Attributes Inserted On A Layer Not Linked To A Language Are Migrated With Status Multi-Language = Yes
- ✓ Multi-Languages Migration Does Not Treated Title Blocks And Parameter Sheets
- ✓ Migration - Multi-language Texts Are Not Merged If They Have Not Created By Translation Process
- ✓ Migration - Bad Migration Of Texts Multi-languages When Updating A Project

H.2.19. MULTI USER

- ✓ Informing About Lack Of The "Concurrent Engineering" License
- ✓ Program Crashes When Generating Part List From Project Stored In Repository
- ✓ Issue During Deletion Groups Of Sheets
- ✓ Issue When We Inserting or modifiyng Symbol
- ✓ Cables are Missing

H.2.20. PRINTING

✓ Pdf Generation - When Inserting A Picture Without Deformation, Its Size Is Incorrect In The Pdf File
✓ Printing - Error During Cgm Generation
✓ Pdf - After Printing, Some Lines was Added

✓ Incorrect Screen shot Pdf When A Bitmap Is Inserted In A Sheet
✓ When Inserting Differents Images In Two Sheet, Pdf Report Contains The Same One.

H.2.21. SCHEMA EDITOR

✓ "Project Properties / Symbol Size At The Insertion" Option Did Not Modify Size Of Opr Automatically Inserted
✓ Size Of Window Insertion Text Or Comment Is Not Corrected With A Specific Resolution
✓ "Project properties / Symbol size at the insertion" doesn't modify size of cable symbol inserted
✓ Modifications Of Text Angle was Not Corrected
✓ Error When Executing A Copy/Paste Special On A Same Sheet
✓ Long Hyperlink Are Not Displayed Correctly In Cad Attribute Window
✓ Control "Device / Equipment Symbol Without Symbol" Does Not Work Correctly
✓ "Control / Terminal Which Source And Destination Could Not Be Displayed" Does Not Work Correctly
✓ "Tools / Check If Eqpt Code Used In Project Exist In Catalog" Takes Into Account Active Filters Defined In Catalog Classes
✓ Cut/Paste Power Contact Slave - Tag Of Slave was Recalculated And Linked To Master Coil Lost Only If Equipment Code was Defined
✓ Visibility Of Attributes In Title Block Is Lost If User Changes Layer Visibility
✓ Location - Cannot Type The Location Description If The Dongle Does Not Have Translation Module
✓ Problem With Cross References Of Coil In Specific Case
✓ Containers - Problem With Moving Symbols
✓ Missing Main Equipment Code Of Connector After Using Paste Special Command
✓ Copy/Paste For Symbol With Behavior 'Terminal' Or 'Pin' Does Not Insert Any Symbol On Sheet
✓ Copy/Paste Special Is Not Working Properly
✓ Missing Cables In Terminal Strip After Horizontal Symmetry Of Connector
✓ Command Process/Assign /Function Does Not Work Properly With The Connectors
✓ Data Explorer Displays Incorrect Data After Changing Function Of The Slave Symbol
✓ Changing The Name Of The Function From The Data Explorer Is Not Possible For A Large Project
✓ Cable Tag Is Not Pasted Correctly When Cut/Paste Between Different Groups In The Same Project
✓ Copy / Paste Terminals Has To Increment Terminal Number And Not The Terminal Strip Tag
✓ Settings - "Symbol Size At The Insertion" Doesn't Modify Size Of Opr Automatically Inserted With "Polarity Insertion"
✓ Crash When Updating Symbols And Illustrations Inserted
✓ Hyperlinks Are Lost If You Change The Part Number On Coil Symbol
✓ Copy/ Paste Special Does Not Keep The Same Position

Release Notes

H.2.22. SHEETS EXPLORER

- ✓ Issue During Undo Command
- ✓ Update All Generated Sheets From Project Does Not Keep The Same Param Sheet

H.2.23. TERMINALS

- ✓ Program Continually Adds A New Connections To Terminals
- ✓ Automatic Numbering Of Multi-Level Terminals Does Not Work
- ✓ Issue After An Update Of Terminal Strip And Connector Sheets
- ✓ Wires Are Disconnected And Replaced By A Bridge After Edition Of The Terminal Strip

H.2.24. TRANSLATION

- ✓ Offset Between Language Does Not Work For Attributes Multi-Languages
- ✓ Cannot Translate The $Loc_Libelle
- ✓ Bad Translation In A New Project
- ✓ Cannot Translate The Metacommand And Wiring Diagram Attribute
- ✓ It was Possible To Delete Translation Between The Same Language

H.2.25. VIEWER

Viewer - Project Properties Command Is Grey In Free Mode

H.2.26. PLC

- ✓ Cannot import the Plc name if these one contains a space.
- ✓ It's impossible to Import a configuration from a file Excel
- ✓ The template file is not correctly imported after a configuration importation
- ✓ Bad message when environment doesn't exist
- ✓ The template file doesn't display in the list after a configuration importation
- ✓ With Licence FLEX, PLC didn't work.

H.3. KNOWN ISSUES, LIMITATIONS & RESTRICTIONS

H.3.1. KNOWN ISSUES

- ✓ Panel Manufacturing (Panel Level 2)
    - ▪ Some regressions exist on wires routing process
    - ▪ A random crash occurs when closing software with a drilling sheet opened.

- ✓ Environment Manager
- ✓ Cannot merge two environments
- ✓ Dxf/Dwg
- ✓ Several bugs are existing like crash when exporting files.
- ✓ Other issues
    - ▪ Migration - When Migrating A Project From The V4R1 To The V4R2 The Name Of Connection Source/ Destination Is Created As A Text Near Theme
    - ▪ After A Project Migration, The Table Of Contents Does Not Work
    - ▪ End Fitting - Missing Metacommand To Extract New End-Fitting Codes In Cabling List
    - ▪ Layout - Issue When Closing Software With A Drilling Sheet Opened
    - ▪ Terminal - After A Copy/Paste Of Terminal In Sheet Editor, The From Displays In Terminal Strip Editor Is Wrong
    - ▪ Diagram Generator - Error Vb Message When Generating Project
    - ▪ Diagram Generator - Cannot Have An Automatic Tagging When Inserting Block
    - ▪ Diagram Generator - The Xls File Does Not Work Will All See Versions
    - ▪ Performances - Slowness With The Database Of Translation On The Network
    - ▪ Part List - After Exporting The List Of Material In Xls File, The Quantity Has A Text Field
    - ▪ Open Data - Cannot Work Correctly If The Location Uniqueness Is On Group Level
    - ▪ When Deleting Label On A Slave, Its Cross Reference Is Kept
    - ▪ Some Plugins Don't Work With A Lsb Protection
    - ▪ Multi User - Harness routing process is slower on 4.40E compare to the 4.15D
    - ▪ Crash - Crash When Inserting A Black Box Without Connection Points Defined
    - ▪ Location Attribute - Cannot Display Its Value If This Attribute Is Added In Schematic Editor
    - ▪ Some processes are slower as the previous version
    - ▪ Synoptic - On A Link Or A Table, We Don't Retrieve The Decimal Of The Cable Length
    - ▪ Variable Attributes Defined With Blockparameeditor Are Not Retrieved
    - ▪ Sheet Automatic Generation From Excel - Does Not Support Ms Office 64Bits (Excel)
    - ▪ Pdf Generation - The Comments Are Incorrect On The Pdf File Generated
    - ▪ Internet Protection - Protection Of The Language Does Not Work With Lsb
    - ▪ Harness - Some Cables Are Not Routed In Harnesses Because From/To Are Not Correct
    - ▪ Electrical Data Explorer - Impossible To Deleted A Multi Selection With The Contextual Menu
    - ▪ Connectors -The Class Is Changed On A Connector If You Have The Option "Creating Terminal Strip For Panel" Active On Your Method
    - ▪ Attribute - Cannot Fill Connection Point Attribute When Inserting A Coil In Next Mode
    - ▪ Internet Software - Add The Spain International Language In Sie Licence Database To Have The Same Name As See Electrical Expert.
    - ▪ Copy/Paste - Cannot Cut And Paste A Cable Between Two Cable Sheets Generated
    - ▪ Revision Index - Cannot Update The Revision Index When Saving Sheet
    - ▪ Copy/Paste - Paste And Paste Special Are Always Grey In Layout Editor
    - ▪ Command - According To Modules Programmed On Dongle, The Buttons 'Next Sheet' Or 'Previous Sheet' Don't Work

- ▪ Printing - When Create A Pdf The Resolution Is Not Correct
- ▪ Bad Description For The Catalog Field Function N° 1524 : Updated Date
- ▪ Section Missing On The Cad Dialog When You Recover The Last Reference Of The Cable
- ▪ Symbol Size Calculation According To The Project Step Works Only For The First Symbol Insertion
- ▪ Cannot Launch The Software If Kaspersky Anti-Virus Is Enabled
- ▪ Project Protection - Can Copy Sheets Of A Project Protected
- ▪ Batch Mode - Cannot Generate The Terminal Strip In Each Group
- ▪ Missing Hasp Lm Software In Folder Tools

H.3.2. LIMITATIONS & RESTRICTIONS

- ✓ SEE workspace (SWS file / Windows, Toolbars, Menu customization) saved with versions <= V4 are not supported by V4R2
- ✓ SEE Equipment data base supports MS SQL Server 2008, 2012 and 2014 (need license "Part List Manager").
- ✓ Versions >= V4 do not support any more MS SQL or Oracle database for parts list process.
- ✓ "Concurrent Engineering module" (Multi-User) works with MS SQL Server 2008 R2, 2012 and 2014 database to store projects
- ✓ "Concurrent Engineering module" needs SEE User Access
- ✓ Undo / Redo and close project without saving don't work in Multi-User mode ("Concurrent Engineering" module)
- ✓ "Open Data" module needs MS Excel
- ✓ "3D Panel for SolidWorks" module needs SolidWorks version 2011, 2012, 2013 or 2014
- ✓ "3D Panel for SolidWorks" module is not included with standard installer. Exist specific installers for x32 bits or x64 bits OS.
- ✓ Impossible to merge Internet protection system (LSB) with an other protection system
- ✓ • VBA version 7.1 32-bits (not 64-bits) must be installed to execute a macro on SEE Electrical Expert V4R2
- ✓ (4.40 A).
- ✓ The text or attribute edition can be made into every project languages, only if the user has the module "Translation" on his license.
- ✓ If the user has not the module "Translation", he can consult every languages of the project, but he can mondify only the "main" language.
- ✓ On project created on V4R2, the hyperlinks are automatically generated. You have to click on the keys "Ctrl +Alt" or "Alt Gr" to display the hyperlinks and execute a double-click to open it. For the projects created on a previous version, the migration process doesn't create the hyperlinks. To have the hyperlinks on projects migrated, you have to execute these processes: rebuilt the cross reference, generate again the part list and the table of contents.

H.4. SYSTEM REQUIREMENTS

H.4.1. ADVISED SYSTEM CONFIGURATION

For mono-user mode

- Microsoft Windows SEVEN Home Premium, Professional, Ultimate, Enterprise
- i3 class processor, 2GHz
- Ram: 4 Gb
- 500 Mo of free disk space required for the installation
- Install an operating System 64 bits on a computer 64 bits
- Graphic Card: 1280 x 1024

For multi-user mode (Concurrent Engineering)

For the Server
- Microsoft Windows Server 2008 R2 x64 or newer
- Microsoft SQL Server 2008 R2 (PROFESSIONAL version strongly recommended; EXPRESS EDITION version possible, but with limitations)
- i7 class processor, 3GHz
- Ram: 12 Gb (+ 1Gb by client)
- 200 Gb of free disk space required for the installation
- LAN (Network card): 1Gb

For the Client
- Microsoft Windows 7 x64
- i3 class processor, 2GHz3 class processor, 2GHz
- Ram: 4 Gb
- 500 Mo of free disk space required for the installation
- Network card: 1Gb
- Graphic Card: 1280 x 1024

H.4.2. WINDOWS 8

SEE Electrical Expert V4R2 supports Windows 8 and 8.1 (except version RT for mobile devices)

H.4.3. COMPATIBILITY WITH VIRTUAL SOLUTIONS: CITRIX, MICROSOFT APP-V, VMWARE

SEE project Manager and SEE Electrical Expert are compatible with virtual solutions: Citrix, Microsoft App-V, VMWare.

H.4.3.a. VMWARE OR MICROSOFT APP-V

No compatibility problems with these two virtual solutions.

H.4.3.b.   CITRIX

For CITRIX, here are the recommendations from experience acquired by some customers.
- ✓ Minimum Configuration
- ✓ Recommended Configuration

H.4.3.c.   ADVISE SYSTEM CONFIGURATION (CITRIX SERVERS HOSTING CLIENTS)

Minimum Configuration
- ✓ Windows Server 2008 (64 bits)
- ✓ Processor: 2 GHz
- ✓ RAM: 4GB + 2GB by client
- ✓ Required disk space: 2GB
- ✓ Graphic card: 1024 x 768 – 256 colors, 128 MB RAM
- ✓ Network Adapters (100 Mega bits/s)

Recommended Configuration
- ✓ Windows Server 2008 R2 (64 bits)
- ✓ Processor 3,6 GHz dual core
- ✓ RAM: 8 GB + 4GB by client (means 48 GB for 10 users)
- ✓ Required disk space: 30 GB
- ✓ Graphic card: NVDIA, 512 MB RAM
- ✓ Network Adapters (1 Giga bits/s, or more)

H.4.3.d.   REGISTRY KEY

For each installation, you must reset the CITRIX client profiles. Indeed, to take into account the modifications in the HKLM registry keys, you must log on with a blank profile to update it. Else, risk is that the CITRIX profile not reseted is not updated.
Check if the CITRIX profiles don't contain a printer mapping or network disk not accessible. Indeed, when connecting to the CITRIX server or when using an application, the printer will be searched on the company network. In this case, your computer monitor will be "frozen" during long minutes. But this problem is not a software issue.

H.4.3.e.   DISK SPACE

Avoid the sharing of dedicated disk spaces to users. A mapping on "C:\" has to be created for each user.

H.4.3.f. GRAPHIC CARD

According to the CITRIX server settings, some pixels or display orders will be provide to the client computer. We recommend to use a pixel transfer rather than display orders which are not correctly used by all graphic cards.

H.4.3.g. COMPUTER ARCHITECTURE

Give priority to a 64 bit version of CITRIX server. The standby mode of the CITRIX client requires some re-connection repeated of the CITRIX server. For that, we recommend to set the standby mode with an optimal value as one hour instead of ten minutes.

I CHANGES AND ENHANCEMENTS MADE IN SEE ELECTRICAL EXPERT V4R2 (4.40/H)

March 2015

I.1. FIXED COMPARE TO V4R2 (4.40/E)

About PLC
- ✓ Upgrade to Unity v8.1
- ✓ Export a importation template in a txt file
- ✓ Impossibility to download a equipment code by SeeWebCatalog when it's a Hasp protection: Fixed
- ✓ Importation/exportation Unity configuration type Micro Basic (Modicom 340)
- ✓ Hide 'Configuration exportation'.'Telemecanique / Unity'.'Exportation in Unity format'.'Unity Channels Files(*.stu)'
- ✓ Improve the PLC importation from Unity STU files.

I.2. REQUIREMENT

I.2.1. SYSTEM REQUIREMENTS

Advised system configuration:

For mono-user mode

- ▪ Microsoft Windows XP Complete Edition, Business, Entreprise.
- ▪ Microsoft Windows SEVEN Home Premium, Professional, Ultimate, Enterprise.
- ▪ Processeur Core 2 Duo.
- ▪ Ram:
- ▪ Operating System 32 bits: 3 Gb.
- ▪ Operating System 64 bits: 4 Gb.
- ▪ 500 Mo of free disk space required for the installation
- ▪ Install an operating System 64 bits on a computer 64 bits
- ▪ Graphic Card: 1280 x 1024

For multi-user mode (Concurrent Engineering)

Different for the server and for the client

For the Server
- Computer and Operating System 64 bits
- Microsoft SQL Server 2008 R2 (PROFESSIONAL version strongly recommended; EXPRESS EDITION version possible, but with limitations)
- Processor 4GHZ multi core (Quad core)
- Ram: 12 Gb (+ 1Gb by client)
- 200 Gb of free disk space required for the installation
- Network card: 1Gb

For the client
- Processor 4GHZ multi core (Quad core)
- Ram: 4 Gb
- 30 Gb of free disk space required for the installation
- Network card: 1Gb
- Graphic Card: 1280 x 1024