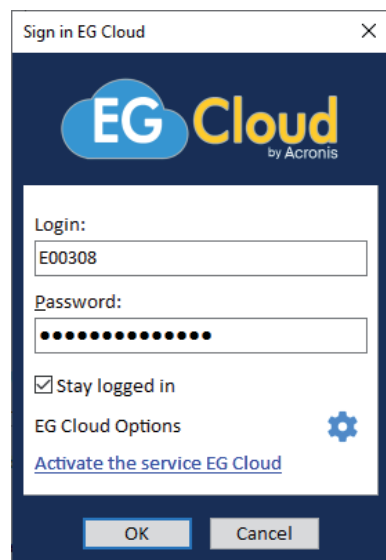


Software for electrical and photovoltaic engineering



- Cloud space manager created on Acronis infrastructure located in Europe (Frankfurt - Germany).
- Upload and download project files to the cloud from all Electro Graphics applications, web browsers or Acronis Cyber Files mobile apps.

project files from the Acronis mobile app, with insertion of annotations.

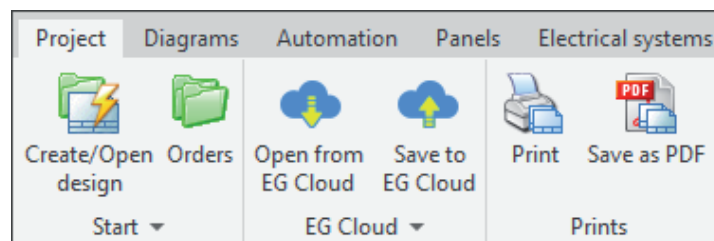
- Management of previous revision states following subsequent uploads of the same project files.
- Sending public or protected sharing links of files saved in the cloud, therefore without external disclosure of information (as an alternative to sending via WeTransfer, for example).
- The cloud space made available is linked to the type of product and the maintenance contract.

CADElet, iDEA, Eplus - Electrical CAD

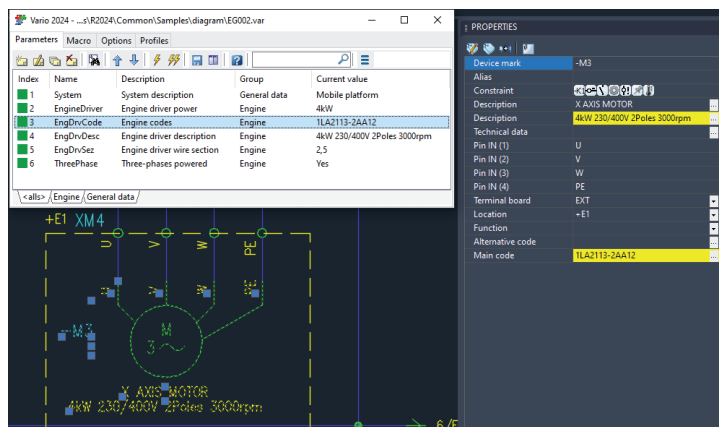
- CADElet supports AutoCAD 2024.
- New Autodesk OEM 2024 CAD engine for Eplus and iDEA.
- Insertion of intelligent and automated generic blocks, with interpretation of previously made use situations.
- Generation of the PDF file of the scheme with the possibility of searching for texts with non-True Type fonts (shx type).
- Job management with creation of operator-defined folders for saving the various project files.
- Saving and downloading project data in EG cloud, with the possibility of generating sharing links with other operators.
- Direct recovery in the CAD environment of annota-

tions made with the Acronis mobile app, on PDF files saved in the cloud, for the management of so-called "collaborative modifications".

- Management of workset files, such as complete containers of project files (dwg + schema data), for optimal data passage to PDM systems or the cloud.



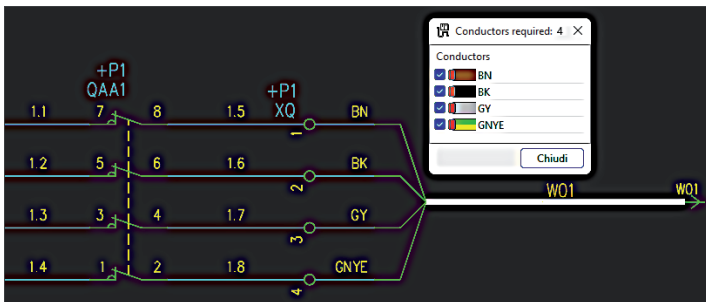
- Possibility of interfacing with PDM Autodesk Vault through a direct connector (optional), with saving and downloading of schema and associated PDF files.
- Possibility of using Microsoft's SQL Server database to manage data archives (materials, cables, terminal blocks, etc.) associated with the creation of diagrams.
- Management of global system parameters and specific scheme parameters with definition of any variables derived from them.
- Generation of relationships and formulas between parameters with use of the result in the variables.
- Using parameters or calculated variables in parametric macroblocks and attributes.
- Possibility of using parameters and variables in the management of sections and wire data.



- Various: integration and use of the parameters defined in order to influence the options and profiles that can be obtained.
- Fast builder: thread color management in parametric macroblocks.
- PLC: operand re-aggregation functionality in order to optimize the cards used.
- Recall and use on the functional diagrams of the cables already defined on the planimetric, with import of the physical and product properties.
- Possibility of managing variants on shared auxiliary macroblocks, useful for optimal management of similar circuits.
- Improvements on automatic generation of single-line diagrams, automatic updating of tables and automatic generation of PDF files.
- Generation and use of bookmarks in PDF files generated from schemas.

Wiring

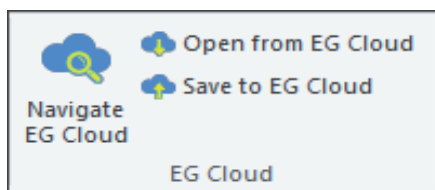
- Wire representation on cable diagram, typically pre-wired, with core development and attestation on connected components.



- Revision of the interface with the management of height and text font set in Windows, particularly useful in the presence of HiDPI and 4K monitors.

Bill of Materials - Tabula

- Integration of user-definable data into the materials database with recovery of the same in the various reports.
- Possibility of using Microsoft SQL Server databases for archive management.
- Saving and downloading project data in EG cloud, with the possibility of generating sharing links with other operators.
- Management of bookmarks in calculation documents generated in PDF.



- Interfacing with PDM Autodesk Vault, with exchange of personal data and export of lists (optional).

Number	Quantità	Title (Item,CO)	Ubicazione	Revision	State (Historical)
EG002	-	-	-	-	-
UBIC002	1 Each	1 Quadro	+Q1	A	Work in Progress
UBIC003	1 Each	2 Cassette sensori 1	+SC1	A	Work in Progress
Z79681	3 Each	10 Mors.passante per 3 conduttori grigio	+SC1	A	Work in Progress
XCKL115	1 Each	41 FINECORSÀ XCKL115 leva a rullo termoplastico1N...	+SC1	A	Work in Progress
XSIM18DA210	1 Each	46 Sensore di prossimità XSIM18DA210, induttivo, a...	+SC1	A	Work in Progress
UBIC004	1 Each	3 Cassette sensori 2	+SC2	A	Work in Progress
UBIC005	1 Each	4 Cassette sensori 3	+SC3	A	Work in Progress
UBIC006	1 Each	5 Cassette sensori 4	+SC4	A	Work in Progress
UBIC001	1 Each	6	<int>	A	Work in Progress

- Revision of the interface with the management of height and text font set in Windows, particularly useful in the presence of HiDPI and 4K monitors.

Ampère line - Electrical grid calculation

- Review and improvements in project configurations with identification and direct editing of the units involved.
- Management of multiple configurations with real-time project recalculation.
- Correlation between project documentation and chosen configuration, with printouts of documents with data from multiple configurations, to evaluate electrical parameters in different operating situations.
- Extension to the calculation of IT system failures also according to CEI 64-8 par. 413.1.5.4.
- New details in the verification of indirect contacts, due to the effect of isolation transformers and in IT systems.
- Complete calculation of minimum DC fault currents according to IEC 61660-1, considering maximum impedances, minimum voltages and minimum current model for batteries and rectifiers.
- Review of the direct current calculation model with sigma coefficients according to IEC 61660-1, for

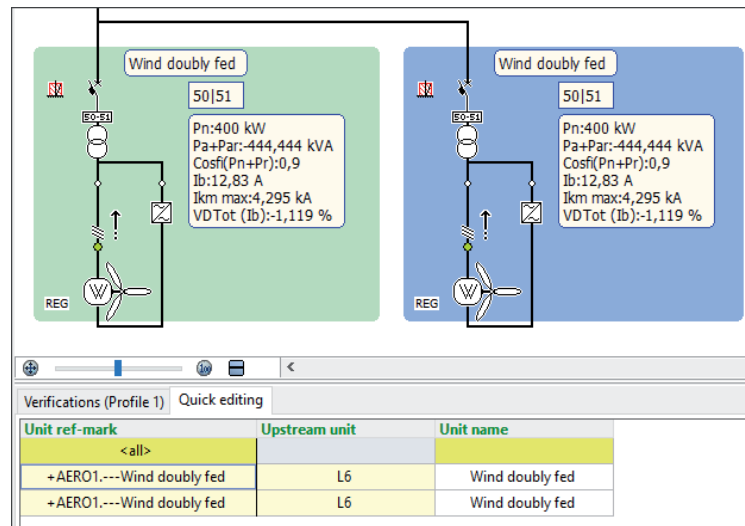
Unit ref-mark	Active	Distribution system
Main project		
+CABIN.Q-Int. MV Line20	<input checked="" type="checkbox"/>	Medium
+CABIN.Q-Input 11,5kV	<input checked="" type="checkbox"/>	Medium
+CABIN.Q-Gen. Int. Line20	<input checked="" type="checkbox"/>	TN-S
+CABIN.Q-Input 20kV	<input checked="" type="checkbox"/>	Medium
+CABIN.Q-Int. MV Backup	<input type="checkbox"/>	Medium
+CABIN.Q-Int. LV Backup	<input type="checkbox"/>	TN-S

- both maximum and minimum fault currents, to take into account the actual contribution of each source.

- Saving the project in the EG cloud and sharing the documentation.
- Addition of summaries, by area and panel, in the bookmarks of the attachments and the technical file saved in PDF.
- Revision of the interface with the management of height and text font set in Windows, particularly useful in the presence of HiDPI and 4K monitors.

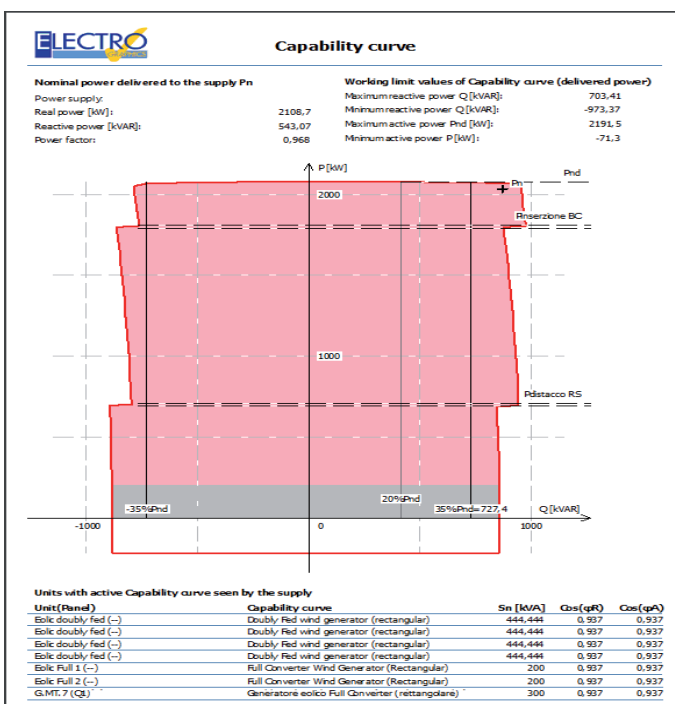
- ELink - Update to Revit 2024 and new cable routing rules.
- Extension and updating of the device archive.

- New **Ampère Evolution** for extended electricity networks with distributed generation focused on RES networks with photovoltaic and wind generation.
 - Management of longitudinal, resistive and inductive network elements.
 - Management of transversal, capacitive and network elements.
 - Reactive power compensation via capacitor banks and shunt reactors.
 - Modeling of the wind generator (normal, doubly fed, full size converter).
 - Guided creation of a photovoltaic generator (inverter, modules, field panels and direct current lines).
 - Calculation of the real Capability curve taking into account network effects, according to Terna indications.



Solergo - Photovoltaic engineering

- Estimation of installable power from 3D layout.
- Management of hybrid inverters with dedicated storage systems and cataloging of any approval certificates.
- New ways to manage system configurations for energy communities and condominiums.
- Review of the technical and economic documentation produced according to regulatory evolution.
- Saving the project in the EG cloud and sharing the documentation.
- Revision of the interface with the management of height and text font set in Windows, particularly useful in the presence of HiDPI and 4K monitors.
- Extension and updating of module, inverter and storage system databases.



Properties

Converter: Electricals Inverter grid-connected Storage system Material

Enter the characteristics of the compatible storage system

Charging efficiency: 94,6 %

Rated voltage: 48 V

Min. voltage: 42 V

Max. voltage: 58 V

Maximum discharge
 Maximum charge

Compatible storage systems:

Manufacturer	Mark	Connectable u...	Compli
ZCS AZZURRO	ZCS-WECO HESU5K3LV	5	Dich
ZCS AZZURRO	ZCS-WECO HESU4K4	5	Dich
ZCS AZZURRO	LV ZSX5000	4	Dich

Buttons: Add, Edit, Erase, Preview, Add to favorite, OK, Cancel