EXEL S.R.L. is the Italian market leader software house for the electrical design, since 1990.

With Progetto INTEGRA, Exel offers an instrument which meets the needs of those who want a better organization in Design, Realization and Verification of electrical installations.

Progetto INTEGRA is a software for electrical design in medium and low voltage, indispensable for doing all measurements and verifications of existing electrical plants too. A highly flexible system that can be sized according to the needs of the user as it allows different solutions but always perfectly integrated. The type of user of the program can vary from small to large design studies, technical offices of the municipalities, large organizations in the industrial and/or oil sector, etc... After 25 years in business, in the Italian market there are about 5,000 users, 2,000 of which are supported by EXEL technical service.

In 2003 the Italian branch of SIEMENS has commissioned EXEL a brand software called "Sienergy Integra", derived from the multi-brand software "Progetto Integra". In these 12 years about 20,000 installations are reached on Italian territory.
PROGETTO INTEGRA

It is a multi-brand software for electrical wirings designing and checking. It manages:

• Low/Medium Voltage
• Direct current
• Generators
• UPS
• Photovoltaic systems
ELECTRICAL WIRING (1/4)

• It is a module for the design and management of TT, TN-S, TN-C, IT systems;

• Possibility of managing UPS systems, Back-up Generators in network commutation and Co-generators in parallel with the grid;

• Possibility of managing new cables provided for in Regulation CPR UE 305/2011.

• Check of the switchboards overtemperature, according to CEI EN 61439;

• Archive management (Data Base) of protection devices, cables, accessories, metal enclosures, transformers and bus-bar, totally opened to add, modify and implement technical and economic data. (More than 400.000 items already available);

• Economic data display of all equipment in the electrical system (protection devices, cables, metal enclosures etc.) divided by Project, Power supply, Switchboard and Outgoing-feeder, with real time updates of the overall costs of the plant; possibility to assess economic differences making a brand change;
ELECTRICAL WIRING (2/4)

• Possibility to assess economic differences making a brand change;

• Realization and automatic printing of single line drawings in dwg format, through an Autocad interface or our graphic dwg compatible engine “ExelCAD”. Printable technical data and graphic symbols are freely customizable;

• Economic data display of all equipment in the electrical system (protection devices, cables, metal enclosures etc.) divided by Project, Power supply, Switchgear and Outgoing-feeder, with real time updates of the overall costs of the plant;

• Realization and automatic printing of calculation tables and check in Microsoft Word environment, with the possibility to customize documents with desired calculation variables.
• Calculation of harmonic currents contribution on conductors in function of harmonic distortion (THDI%) and its impact on feeders current carrying capacity. Assessment of indirect contacts protection starting from calculated and/or measured fault impedance, touch voltage calculation.

• Finished project automatic analysis, useful to highlight system deficiencies and to provide technical-regulatory suggestions;

• Realization and printing of calculation tables and checks in Microsoft Excel format, with the possibility to customize documents with desired calculation variables.
ELECTRICAL WIRING (4/4)

- Instantaneous Recalculation
- Alarms
- Warning
Medium Voltage – Photovoltaic – SPD

- **Medium Voltage:** Option module for design, check, coordination of conductors and protection devices concerning the medium voltage, according to current regulations and Standards. Possibility of checking the coordination of MV/LV protections.

- **Photovoltaic:** Calculations for dimensioning, checking and coordinating feeders and relating protection devices of photovoltaic systems, with a database of solar panels, inverters and cables, freely implementable.

- **SPD:** Calculations on protections against overvoltages through Surge Protection Devices (SPD) accompanied by a database with all technical features.
CALCULATOR
It is a module for the management of Price lists and Archives containing equipment, cables, metal enclosures and accessories of all major brands, with more than 400,000 available components. It manages a series of unlimited tree structures composed of chapters and subchapters, containing prices and price analysis, completely extensible and customizable. It manages print data in various formats without limits or constraints.

<table>
<thead>
<tr>
<th>BRAND</th>
<th>N° EQUIPMENT</th>
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<tr>
<td>ABB</td>
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<td>AEG</td>
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<td>Bticino</td>
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<td>Photovoltaic panels</td>
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<td><strong>Total</strong></td>
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DATA BASE (2/3)
DATA BASE (3/3)
SWITCHBOARDS

- This module allows you to realize the composition of switchboards metal enclosures, completed with all accessories.
- It can produce the front panel graphic work for all the major manufacturers.
AUXILIARY DIAGRAMS

• Realization and automatic printing of single line drawings in dwg format, through an Autocad interface or our graphic engine “ExelCAD”.

• Printable technical data and graphic symbols are freely customizable.
INTERNAL GRAPHIC ENGINE - EXELCAD

• It allows the opening, saving and printing of dwg files.
• It is compatible with dwg files of Autocad latest versions.
• It allows the automatic printing of previously created dwg files, the assembly of different dwg in one single file and the layout management.
COMPUTATION AND ESTIMATION

• Module for cost estimates management, estimative metric calculation, estimates, applications with reference to a linked Data base.

• Direct printing, generation of data files in ASCII format, in “RTF” format, in “MS Word” format, in “MS Excel” format.

• Customer component: Customers and Jobs management and production of related documents

• CAD drawings: It allows the analysis of files in dwg format. It can read drawing files and produce an automatic metric calculation, as a result of the association between blocks and one or more data bases.
idee nella corrente

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