

## electrical engineering streamlined

### Full collaborative management of electrical engineering data

SMARTELECTRE, a collaborative platform integrating ELECTRE and ENOVIA SmarTeam, is the innovative tool developed by ELSYS to implement a powerful and effective PLM solution specially tailored to electromechanical products and electrical engineering wiring.

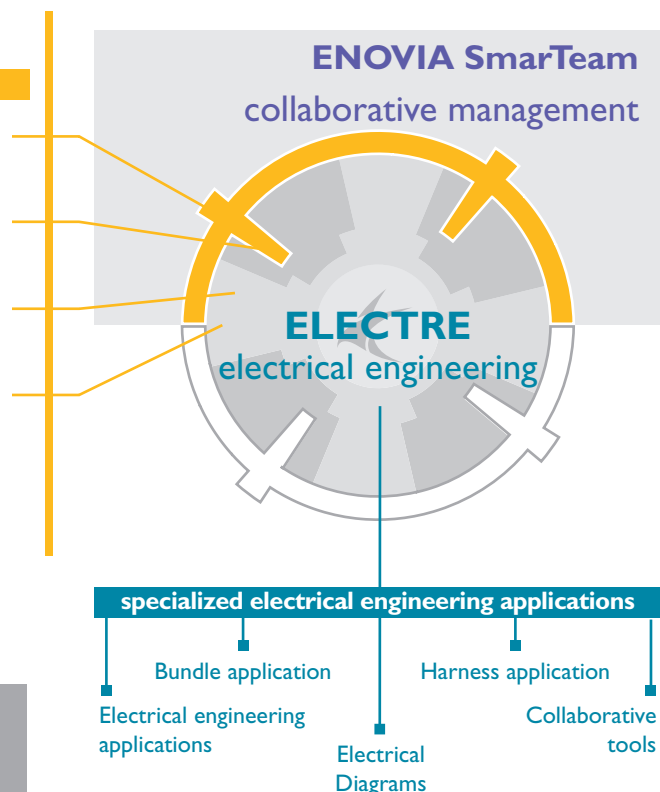
Implementing a PLM solution enables companies to manage, share and exchange their product information in their own design departments and with subcontractors, suppliers and partners. Full integration of electrical data in a company's Product Data Management (PDM) system ensures the quality and efficacy needed to reach the technical and economic

goals set for products. This integration also satisfies the key management needs of electrical engineering projects. By taking these goals fully into account, SMARTELECTRE enables companies to constantly improve both their vital processes and their competitiveness –quality, costs and lead times– and adds its robust knowledgeware to the collaborative management of technical data by ENOVIA SmarTeam.

#### SMARTELECTRE

##### electrical engineering data management

- **ELECTRE environment management**  
Electrical attributes – Interoperability – Libraries
- **Electrical project management**  
Concurrent engineering – Security – Update management
- **Lifecycle management**  
Electrical PLM – Workflow
- **ELECTRE and CATIA model integrity management**  
Consistency management – Change management



#### Impact

- Shorter time-to-market for products through concurrent electromechanical engineering.
- Consistent propagation of electrical engineering data and maximal security for projects both inside and outside the company.
- Unified, seamless environment for electrical and mechanical design boosts product competitiveness.

**from data management to electrical PLM integration**

## From electrical engineering data management to end-to-end electrical PLM integration

### MANAGEMENT OF ELECTRE ENVIRONMENT

Within ENOVIA SmarTeam, SMARTELECTRE offers flexible and intelligent handling of the electrical engineering data generated by ELECTRE, thereby simplifying the work of users, ensuring data security and optimizing operational management.

- Permanent multi-user interoperability between ELECTRE and ENOVIA SmarTeam to guarantee data consistency regardless of source,
- Automatic two-way synchronization of ELECTRE and ENOVIA SmarTeam management attributes: versions, revisions, etc.
- Configurable integration of SMARTELECTRE into the existing PLM environment in accordance with the database model defined by the company: classes, rights, etc.
- Validation process executed outside of ELECTRE, automatically updating title block information in order to reduce license occupancy rates,
- Tree structures displayed inside ENOVIA SmarTeam,
- ELECTRE library management: symbols, characteristics and databases.

### CONCURRENT ENGINEERING APPLIED TO ELECTRICAL PROJECT MANAGEMENT

Thanks to SMARTELECTRE, engineers and managers create and manage their electrical engineering projects according to the company's rules, choosing the most appropriate approach, with maximum flexibility and security.

- CAD-centric vision of projects via ELECTRE or PDM-centric vision via ENOVIA SmarTeam,
- Project loading and saving from either ELECTRE or ENOVIA SmarTeam,
- Secure collaborative work by simultaneous users in a single project,
- Real-time management of versions, revisions and updates, so users always work on current data and projects,
- New projects initiated by instantiating folios from other projects,

## Highlights

Electrical wiring design industries get a powerful management solution, tailored to their business and offering all the advantages of collaborative work (cPDM).

Accurate streamlined integration of products, combining the outstanding capabilities of ENOVIA SmarTeam and of SMARTELECTRE.

A single PLM tool for companies, maximizing the return on the cost of ownership and minimizing implementation costs.

Easy-to-use open solution, readily adapted to different industrial environments and types of project.

### LIFECYCLE MANAGEMENT

By integrating electrical engineering data into the SmarTeam ENOVIA database, SMARTELECTRE offers everyone involved in a project, at every step of product definition, the advantages of a single electrical engineering repository, thereby making their work safer and more efficient.

- Management of lifecycle information specific to the electrical industry: projects, folios, production documentation, etc.
- Full traceability of project history,
- Access, from ELECTRE, to the all ENOVIA SmarTeam lifecycle management and workflow capabilities.

### INTEGRITY OF ELECTRE AND CATIA V5 MODELS

When ELECTRE and CATIA are used simultaneously, SMARTELECTRE guarantees the integrity of the electrical engineering model in the database.

- Permanent synchronization and consistency check between the CATIA and ELECTRE applications: versions, revisions, etc.
- Engineering change management for both ELECTRE and CATIA V5 data models.