



Service Territory: Finland, Nordics  
Ownership: Public limited company  
Scope of Services: Transmission System Operator  
Project Duration: 48 months

## Strategy / Results / Value

- Common view of the current and future grid throughout Fingrid's matrix organization
- Single source for power system information
- New opportunities for efficient digitalization of business processes
- New potential for high-tech analytics

## Challenges and Drivers:

- Custom built solution had reached its technical limits
- Existing tools within Fingrid were getting out of date
- No longer easily adapted to all the changing requirements in their business environment

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## Technical solution

### PSS®ODMS

- Integration Hub - Interfaces to other applications
- Model Repository
  - CIM data-warehouse - grid topology, asset and operational data
  - Model management and integration platform
  - Grid modeling and design

### PSS®E for Network Analysis

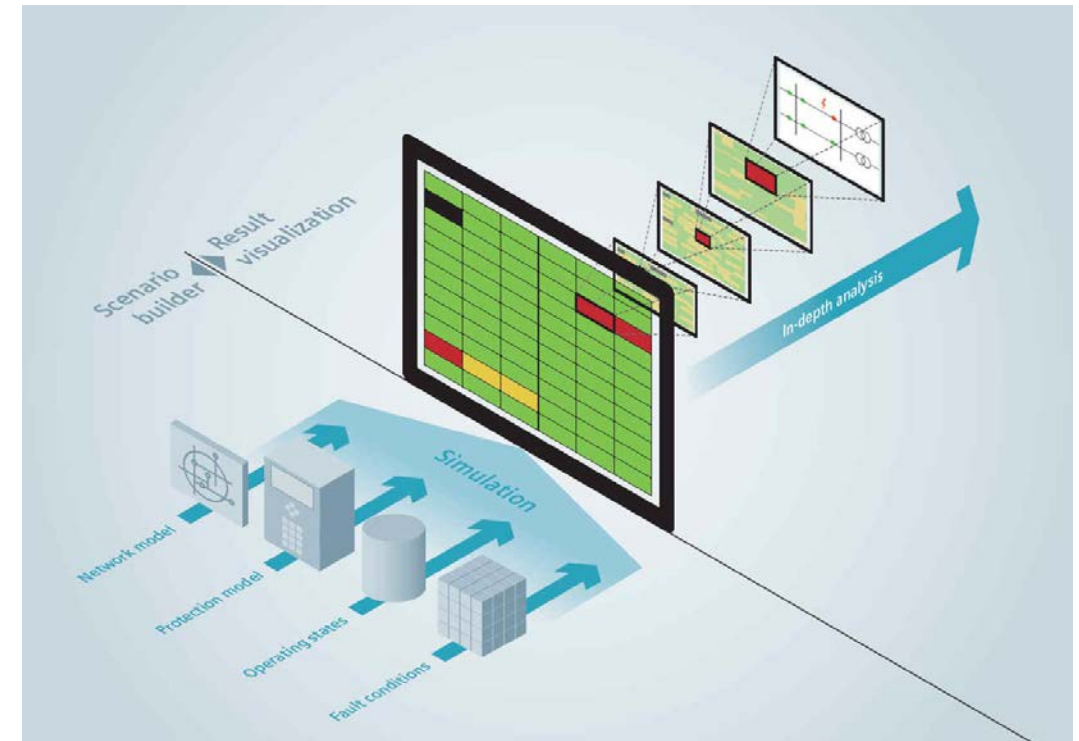
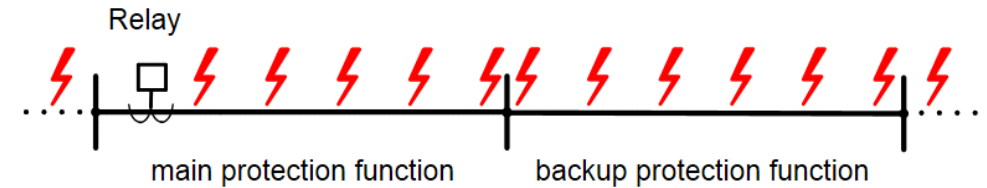
- What if scenarios
- Impact & trend analyses

**Customizations** for the unique technical or business process requirements:

- PSS®ODMS-LTJ interface (Python™)
- Custom Python scripts for PSS®E

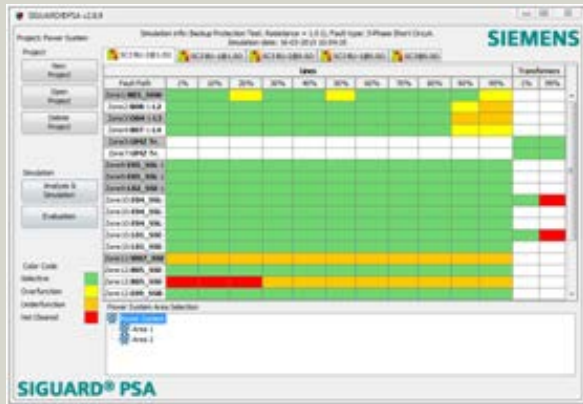
### Engineering Services

- Architectural design for custom interfaces
- Solution Maintenance and Support (M&S)

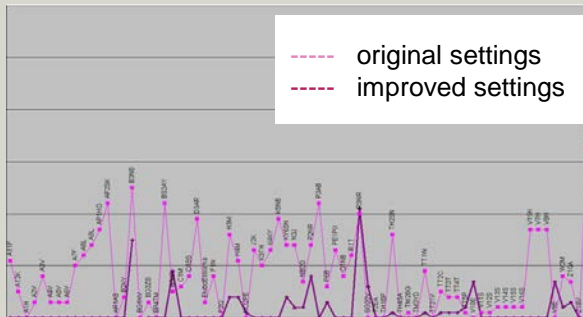


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Protection system performance assessment



Number of line outages for 3-phase faults



## CIM-based model management improves efficiency...

- Experienced vendor in deploying model management solutions worldwide
- Trusted CIM knowledge
- Creation of common database model containing power system data
- PSS®ODMS-PSS®E Compatibility
- Extended APIs integration enables automated calculations and processing