

## **Boost Simulation Accuracy & Productivity**

#### **ETAP 16.1 Release - Major Enhancements & Features**

ETAP 16.1 Model-Driven Power System Design & Operations Software expands on immersive system modeling and comprehensive simulation capabilities.

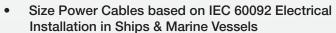
#### **Multi-Language Edition - Localized**

- English
- Korean
- Spanish

- Chinese
- Russian
- Italian\*
- Japanese
  Portuguese
- Turkish\*

\*Output Reports

## Cable Capacity Sizing - IEC 60092



- Line Conductor Sizing
- Consider Short-Time Duty
- Selectable Annex B for General Installations
- Enhanced Reports and Cable Manager

# **Datablock**

- New Intelligent Device Settings Datablock
- Auto-update Device Functions & Settings
- Export One-Lines and Datablocks to AutoCAD™ (DXF) Drawing Files

## System Elements

- Motor Operated Valve Dynamic Voltage Limits
- Enhanced Overhead Line Impedance Calculations
- Enhanced IEC Fuse Ratings

## **Short Circuit**

- Export Short Circuit Analyzer Results to MS Excel
- User-Defined Fuse Test PF and X/R for Short-Circuit Duty Evaluation

#### **User-Defined Dynamic Models - UDM**



- Blazing performance up to 50 X faster
- Over 50 New UDM Models
  - » IEEE 421.5 Exciters
  - » IEEE 421.5 PSS, UEL and OEL
  - » WECC Approved Exciters and Governors
  - » Energy Storage Models
- Math functions with Multiple Inputs
- Go-To blocks for Internal and External Connections
- C# Scripting using MIMO Function Blocks

#### Wind Turbine Generator



- New Control Block Test Routines
- New Complex Terminal Voltage Input Blocks
- Complex Terminal Current Output Blocks

# Transient Stability



- Consider MOV Dynamic Voltage Limits
- Enhanced Generator Excitation Systems

## **Expanded Engineering Libraries**



- Verified & Validated Libraries Included with Release
- Download Verified Libraries from ETAP HelpDesk

## **Enhanced Modules**

- Data Exchange (DataX)
- Underground Raceway Thermal Analysis
- Dynamic Parameter Estimation & Tuning (DPET)