Expanded to Deliver

Unsurpassed Performance
Intelligence
Reliability

Boost Accuracy & Productivity

✓ Detailed Dynamic Simulation
✓ Rule-Based Time-Saving Capabilities
✓ Improved Performance
✓ 64-Bit Architecture
Modeling to Operation

Generation, Transmission, Distribution, Industrial, Transportation, & Low Voltage Power Systems

Model
- One-Line Diagram
- Intelligent Geospatial Diagram
- Protection & Coordination
- Control Circuit Schematics
- Logic Diagram
- Underground Cable Raceway
- Cable Pulling
- Substation Grounding

Optimize
- Energy & Power Management
- Distribution Management
- Outage Management
- Intelligent Load Shedding
- Generation Management
- Smart Grid & Microgrid

Operate
- Predictive Simulation
- Event Playback
- Switching Management
- Load Management
- Intelligent Substation Automation

Analyze
- AC & DC Network Analysis
- Arc Flash & Safety Systems
- Protection & Coordination
- Dynamics & Transients
- Renewable Energy
- Equipment Sizing & Capacity
- System Grounding
- Power Quality
- Transmission & Distribution Analysis
- Rail Traction Systems

Monitor
- eSCADA
- Power Management System
- State Estimation & Load Allocation
- Energy Accounting
- Native Communication Protocols
- Desktop, Web & Mobile Platforms
A True 64-Bit Software

Take Advantage of Latest Technologies

- Entire CPU Memory
- Video Card Memory
- Multi-CPU Cores
- View & Analyze Millions of Components
Key Features & Capabilities

- New User-Defined Dynamic Modeling & Simulation Capabilities
- IEC 60092 - Cable Capacity Sizing for Ships & Marine Vessels
- Datablock for Protective Device Settings
- One-Line Diagram Enhancements
- Transient Stability Module
- Enhanced Short Circuit Module
- Expanded Protective Device Libraries
- Multi-Language Edition
Multi-Language Edition

Localized Releases

- English
- Chinese
- Japanese
- Korean
- Russian
- Spanish
- Portuguese
- Italian*
- Turkish*

* Output reports

Arc Flash Labels are available in all Localized Releases including French and German
DataBlock

- Intelligent Protective Device Settings
- Adapt DataBlock Based on Device Model & Functions
- Export to AutoCAD™ DXF Drawing Files
IEC Standard 60092

Electrical Installation for Ships & Marine Vessels

✓ Line conductor sizing
✓ Short-time duty consideration
✓ Selectable Annex B for general installations previous to 2003
✓ Enhanced reports and cable manager
Transient Stability

Enhanced Generator Excitation Systems

Dynamic Modeling for Motor Operated Valve

- Voltage and Frequency Dependent Modeling
- Dynamic Modeling with Voltage Limit Curves
- Voltage Alerts
User-Defined Dynamic Models

Blazing Performance – Up to 50 x Faster

✓ Enhanced Result Visualization with Multi-Scope Support
✓ Enhanced Timer Integration
✓ Enhanced Test Routines with Customizable Test Events
✓ Go-To Blocks for Internal or External UDM Communication
✓ MIMO User-Defined Function Blocks with C# Support
Wind Turbine Generator

- Complex terminal voltage input blocks
- Complex terminal current output blocks
- New Wind Turbine Generator Load Tests
- Math functions with multiple inputs
View & Export Results of Multiple Studies in One Glance

- Compare & Analyze Study Results
- User-Defined Base-Line / Reference
- Easily Identify Over Duty Devices
- Worst-Case Fault Scenarios
Transient Short-Circuit Behavior

- 3-Phase Transient Fault IEC-61363
- User-Defined Fuse Test PF & X/R
- Thermal Withstand Trip, Break & Close Times
Customizable Universal Mapping & Interface

- Excel®
- ESRI ArcGIS®
- Intergraph SmartPlant® Electrical
- AVEVA® Electrical
- EMTP-RV®
- PSCAD® / EMTDC®
Improved Legacy Software Import

Built-in Data Conversion

✓ SKM PowerTools®
✓ PSA EasyPower®
✓ PSS/E® (RAW, SEQ, DYR)
Newly Added Verified & Validated Libraries

✓ Low Voltage Breakers
✓ Multi-Function Relays
✓ Fuses
✓ Reclosers
✓ Cables
**Toolbar Auto-Layout & Reset**

- Automatic Toolbar Layout & Best-Fit based on Screen Resolution
- Customize & Save Analysis Mode Toolbar Buttons
- Reset Toolbar location based on Defaults

Graphical User Interface

- 1920
- 1280
- 1080
- 1024
Analysis Module & Capabilities Enhancements

- Underground Raceway Cable Thermal Analysis
- Dynamic Parameter Estimation & Tuning
- Hexagon SmartPlant Electrical™ - Data Exchange
- Project Merge
- Print Compatibility
System Requirements

**PC Configuration Requirements**

- Microsoft Windows® 10 Pro
- Microsoft Windows® 8 & 8.1 (Standard, Professional)
- Microsoft Windows 7 (Home Premium, Professional, Ultimate) (SP1)
- Microsoft® Server 2012 & 2012 R2 (Standard)
- Microsoft Server 2008 R2 (Standard) (SP1)

**Software Requirements**

- Internet Explorer® 10 or higher (or minimum version level specified by the Operating System)
- Microsoft .NET Framework v3.5 (SP1)
- Microsoft .NET Framework v4.0
- Microsoft .NET Framework v4.5
- Microsoft SQL Server Compact 3.5 (SP2)
- Microsoft Windows Update (KB2670838)
- Microsoft SQL Server 2012 Express LocalDB (x64)
- Microsoft SQL Server 2012 Native Client (x64)
- Microsoft SQL Management Studio 2012 (x64)

**PC Configuration Requirements**

- 64-bit hardware
- USB port
- Ethernet port w/ network access (if network licensing required)
- DVD Drive 10 to 80 GB hard disk space (based on project size, number of buses)
- Min. Monitor display resolution - 1920 X 1080