Besides improved data management functionality, management of model variations and operational scenarios combined with any time-state of the model. The independent Operational libraries organize operational scenarios and can be tools for managing time-stamped model variations.

Stamping mechanisms of PowerFactory and the corresponding and other system events. This is possible using the new time-event years considering all network expansions, planned outages a PowerFactory V14 model may span a period of months or even years.

The idea of a “model” extends into the dimension of time.

PowerFactory V14 perfectly supports teams working on the same power system model. The introduction of Master Project Management, Project Versioning and Project Deriving along with Project Compare- and Merge tools, make concurrent model building and data entry very easy.

A PowerFactory V14 model may span a period of months or even years considering all network expansions, planned outages and other system events. This is possible using the new time-stamping mechanisms of PowerFactory and the corresponding tools for managing time-stamped model variations.

PowerFactory V14 continues with the successful concepts of the PowerFactory software while adding powerful features improving the business processes of network planners, network operators, consultants and researchers.

Some of the highlights are:

- Ultra-fast and accurate analysis algorithms
- Powerful graphical capabilities
- Highly efficient data management
- Some important developments are:
- Simulation models with unrestricted flexibility
- Continuous simulation over time or steps
- Various libraries with models and libraries
- PowerFactory V14 comes with new algorithms, models and graphical capabilities. Some important developments are:
- DigSILENT GmbH

DigSILENT GmbH

DigSILENT GmbH is a consulting and software company providing engineering services in the field of electrical power systems for transmission, distribution, generation and industrial plants.

DigSILENT GmbH was founded in 1995 and is a fully independent, privately owned company, located in Gomaringen-Füllungen, Germany, where the main offices have been in operation since early 2002. DIGSILENT continued expansion by establishing offices in Australia, South Africa, Italy and Chile, thereby facilitating improved and efficient support for its expanding customer base.

DigSILENT has a strong presence in many countries such as Mexico, Malaysia, UK, Spain, Saudi Arabia, China, Brazil, Peru, Argentina, Iran and Switzerland. DigSILENT versions and software installations have been conducted in more than 170 countries.

DigSILENT PowerFactory

DigSILENT PowerFactory is a flexible performance recording and monitoring system that serves practically and efficiently with the special requirements for system test implementation, system performance optimization and the documentation and verification of connection characteristics. Numerous Monitoring Systems installed at various grid locations can be integrated to a Wide-Area-Measurement-System (WAMS). The PowerFactory Monitor fully integrates with the PowerFactory software.

If you have any questions or need further assistance, please don't hesitate to contact us.

E-mail: mail@digsilent.de
Internet: www.digsilent.de

PowerFactory offers a complete suite of functions for studying large interconnected power systems integrating new technologies, for power generation and transmission, such as wind generation, virtual power plants, HVDC/VSC or FACTS. The fast and robust load flow algorithm can be applied to any AC or DC network topology. It uses highly accurate models including various types of MHD and finite-rotor induction machines. PowerFactory features can be applied to improve the security, stability and economics of complex power transmission systems.

Typically required functions include:

- Voltage drop and cable loading analysis
- Stability and EMT analysis
- Generator protection and crowbar modelling
- Voltage drop and extreme variations in equipment loading. Various analysis and filter design options.
- Observability and bad data checking
- Observation and failure effects analysis
- Power flow analysis
- Connectivity analysis
- Maintenance schedules
- Double earth faults
- Common mode failures
- Line, transformer, generator, busbar and circuit breaker failures
- Fast and accurate state enumeration

PowerFactory Applications

POWER TRANSMISSION

DiSgILENT has set standards and trends in power system modelling, analysis and simulation for more than 20 years. The proven basic functionality of PowerFactory is combined with advanced features and capabilities such as:

- Event-based post-fault actions
- Fault case management
- AC or DC load flow analysis
- Sensitivity analysis
- AC and DC load flow algorithms
- PowerFactory Applications
- Power System Analysis Software
- DigSILENT

DISTRIBUTED GENERATION

Industrial power systems supplying refineries, paper-mills, car factories or other plants with high power quality requirements benefit from high precision PowerFactory load flow algorithms, short circuit calculation features, diode modelling, harmonics analysis and filter design options.

Other relevant functions include:

- Motor starting, voltage sag analysis and plant re-acceleration
- Stability analysis and electromagnetic transients

WIND GENERATION

Complex studies for the integration of wind generation into distribution and transmission networks are becoming increasingly important. PowerFactory, the de facto standard in wind generation modeling, combines extensive modeling capabilities with advanced solution algorithms, providing the analyst with tools to make sure that the full range of studies required to ensure grid connection and grid impacts analysis. The modeling capabilities of PowerFactory allow the inclusion of complex control dynamics, new generation technologies like blade control and wind turbulence.

Other important aspects are:

- Detailed wind turbine models
- Turbine Park models
- Wind farming and wind farm model
- Dynamic wind farm model
- Wind turbine and wind farm models
- Wind turbine and wind farm models
- Idealized modeling of large wind parks

DIgSILENT Power Factory System Analysis Software

DIGSILENT uses standards and trends in power system modelling, analysis and simulation for more than 20 years. The proven basic functionality of PowerFactory is combined with advanced features and capabilities such as:

- Multi-phase load flow
- Voltage drop analysis
- Branch loading calculation
daily load curves
- Modelling of distributed generation and virtual power plants, reliability analysis, short circuit analysis (IEC 60909, ANSI C37 and multiple offers a large variety of functions, such as multi-phase load flow analysis, short circuit calculation features, diode modelling, harmonics analysis and filter design options.

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DIGSILENT Power System Analysis Software

**DigSILENT** has set standards and trends in power system modeling, analysis and simulation for more than 20 years. The proven power tool of choice across industries and research institutions, its capabilities in modeling large scale power systems, transmission, distribution and industrial networks make it an indispensable tool for analyzing and planning for the impact of distributed generation.

### PowerFactory Applications

**Power Transmission**
- Provides a complete suite of functions for analyzing large interconnected power systems.
- Supports technologies such as single-wire earth return.
- Features include: notch filters, harmonic, unbalanced load analysis.
- Typical required functions include: short circuit analysis, load flow/contingency analysis.

**Distributed Generation**
- Supports Distributed generation and Virtual Power Plants.
- Modeling of distributed generation and ASSET simulation.
- Features include: fast and robust analysis.

**Wind Generation**
- Supports modeling of wind generation and interconnection of large wind parks.
- Features include: wind turbines and wind models.

### Other Relevant Functions Include:
- Voltage drop analysis, branch loading calculation, daily load curves.
- Modelling of distributed generation and Virtual Power Plants.
- Fault of supply and optimize distribution networks.
- PowerFactory is the ideal tool for analyzing the impact of distributed generation.

### DigSILENT PowerFactory Features

**Basic Functionality**
- Data Importation and Access
- Control System and Hybrid Systems Modeling
- Event-based post-fault actions
- Fast contingency screening
- Sensitivity analysis
- Secondary and primary control
- Contingency Analysis
- Stability analysis and electromagnetic transients

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PowerFactory offers a complete suite of functions for studying large interconnected power systems integrating new technologies, for power generation and transmission such as wind generation, virtual power plants, HVDC/VSC or FACTS. The fast and robust load flow algorithm can be applied to any AC or DC network topology. It uses highly accurate models including various types of MWO and HVDC controllers. PowerFactory functions can be applied to improve the security, stability and economics of complex power transmission systems.

Typically required functions include:
- Load Flow/Contingency analysis/DY
- Voltage stability analyses, also for very large networks
- Detailed components, including current and voltage dependent models
- Internal Energy Management System

POWER DISTRIBUTION
Different phasing technologies, such as single-wire earth return, two-phase, three-phase or classical three-phase line, are required for a new or multi-phase distribution system modelling. PowerFactory provides the most comprehensive modeling features for studying all kinds of phasing technologies, meshed or radial topologies and radial supply systems connected to public distribution systems. In order to reduce network unbalances, important quality of supply and optimal distribution networks. PowerFactory offers a large variety of functions, such as multi-phase load flow analysis, short circuit analysis (IEEE 39 node, ANSI 37 and multiple fault analysis), harmonic analysis, transient simulation and reliability assessment. Other standard features include the modeling of distributed generation and virtual power plants, voltage drop analysis, branch loading calculation, daily load curve and the consideration of LV load diversity. This is complemented by an easy-to-use protection coordination wizard.

PowerFactory Applications

POWERTRANSMISSION
Industrial power systems supplying refineries, paper-mills, car factories or other plants with high power quality requirements benefit from high precision PowerFactory load flow algorithms, short circuit calculation features, 4-wire modeling, harmonics analysis and filter design options.

DISTRIBUTED GENERATION
Generation at distribution levels defines entirely new challenges for distribution planning engineers due to reverse power flows, voltage drops and extreme variations in equipment loading. Various generation technologies are possible, such as asynchronous and synchronous cogeneration units, Photovoltaic, wind turbines, fuel cells and micro turbines. Typical studies include steady-state and dynamic analyses, taking into consideration time-varing connected or unconnected energy sources.

PowerFactory is the ideal tool for analyzing the impact of distributed generation over the network. It combines classic distribution system analysis functions such as voltage drop calculation, unbalanced load, fault and generation modeling, selective analysis, etc. with the power of a highly detailed analysis tool featuring dynamic simulation functions and stability analysis. Full support is available for developing and analyzing the impact of virtual power plants and new control techniques on distribution networks.

WIND GENERATION
Complex studies for the integration of wind generation into distribution and transmission networks are becoming increasingly important. PowerFactory, the de facto standard in wind generation modeling, combines extensive modeling capabilities with advanced solution algorithms, providing the analyst with tools to understand the full range of studies required for grid connection and grid impact analyses. The modeling capabilities of PowerFactory allow the inclusion of complex control dynamics, new generation technologies, blade control and wind turbulence.

PowerFactory offers a comprehensive range of functions for analyzing and designing wind farms, including:
- Detailed wind turbine models
- Generator control interaction diagrams
- Wind turbine and yaw model
- Wind farm database and panel model
- Load flow calculation of large wind parks

Other relevant functions include:
- Motor starting, voltage sag analysis and plant reacceleration
- Optimization of generation and voltage control
- Stability analysis and electromagnetic transients

PowerFactory Features

Basic functionality:
- Data Integration and Access
- Interface to SCADA/Energy Management systems

Solution algorithms:
- Fluid analysis
- Transmission line analysis
- Distribution line analysis
- Grid losses

Solution capabilities:
- Voltage stability
- Stability Function
- Dynamic Simulation

Integrations:
- Interfaces to SCADA/Energy Management Systems
- Integrated modelling of large wind parks
- Converter driven synchronous machine models (CDSG)
- Converted wind turbine models
- Interconnection and grid impact analysis

Stability Functions:
- Synchronism with StationWare
- AC optimization (interior point method)
- OHL parameter calculation
- Multiple fault analysis

Other important aspects are:
- Multi-phasing
- Harmonic analysis
- Fault analysis
- Stability analysis
- Load flow analysis

Conclusion:
PowerFactory is the de-facto standard in wind generation modeling, combining extensive modeling capabilities with advanced solution algorithms, providing the analyst with tools to understand the full range of studies required for grid connection and grid impact analyses.
Besides improved data management functionality, management of model variations and operational scenarios combined with any time-state of the model. The independent Operational libraries organize operational scenarios and can be scheduled up to years considering all network expansions, planned outages, and other system events. This is possible using the new time-sequences, provides quick access to relay manuals, and integrates with PowerFactory software, allowing for powerful and easy-to-use settings co-ordination studies.

DIGISILENT Consulting
DIGISILENT offers a consult with experts of various disciplines relevant for performing consulting services, research activities, user training, educational programs and software developments. Highly specialized expertise is available in many fields of electrical engineering applicable to liberalized power markets and the latest developments in power generation technologies such as wind power and dispersed generation.

DIGISILENT has provided expert consulting services to several prominent wind grid integration studies.

Power Factory is a reliable central protection settings database and management system for the complete power system substations data, based on latest IEC technology, centralized stores and records all settings in a central database, allows modeling of relevant certified sequences, provides quick access to relay manuals, and integrates with manufacturer specific relay settings software, and integrates with PowerFactory software, allowing for powerful and easy-to-use settings co-ordination studies.

DIGISILENT PowerFactory
DIGISILENT develops the leading integrated power system analysis software PowerFactory, which covers the full range of functionality from standard features to highly sophisticated and advanced applications including wind power, dispersed generation, real-time simulation and efficient operation monitoring for system testing and supervision. For wind power applications, PowerFactory has become the industry’s de facto standard tool, due to PowerFactory models and algorithms providing very high accuracy and performance.

DIGISILENT has been the leading supplier of innovative and reliable software solutions for the complete power system analysis application to engineers in many countries such as China, India, South America, and other regions. DIGISILENT has a strong presence in many countries and regions and continues to expand its global reach. DIGISILENT PowerFactory is the power industry’s de facto standard for wind power applications, and has become the industry’s de facto standard tool, due to PowerFactory models and algorithms providing very high accuracy and performance.

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The idea of a "model" extends into the dimension of time. Model changes are definitely history.

The new "Roll Back" function allows the retrieval of any past management, Project Versioning and Project Deriving along same power system model. The introduction of Master Project PowerFactory V14 perfectly supports teams working on the same power system model. The introduction of Master Project PowerFactory V14 perfectly supports teams working on the same power system model. The introduction of Master Project PowerFactory V14 perfectly supports teams working on the same power system model. The introduction of Master Project PowerFactory V14 perfectly supports teams working on the same power system model. The introduction of Master Project PowerFactory V14 perfectly supports teams working on the same power system model. The introduction of Master Project PowerFactory V14 perfectly supports teams working on the same power system model. The introduction of Master Project PowerFactory V14 perfectly supports teams working on the same power system model. 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