TRANSMISSION NETWORK MODELING AND MANAGEMENT

PSS®ODMS

PSS®ODMS (Operational Data Management System) is Siemens' comprehensive, CIM-native solution for building, maintaining, and exchanging network models across planning, operations, protection, maintenance, and other utility domains.

SIEMENS

Contents

EXECUTIVE SUMMARY

PSS®ODMS

PSS®ODMS (Operational Data Management System) is Siemens' comprehensive, CIM-native solution for building, maintaining, and exchanging network models across planning, operations, protection, maintenance, and other utility domains. As part of the Gridscale XTM suite, the system provides a unified platform that replaces fragmented modeling processes with a single source of truth that supports long-term studies, operational forecasting, real-time analysis, and historical event reconstruction.

By integrating data from various sources such as planning, EMS/(A)DMS, GIS, asset, protection, SCADA, and historians, PSS®ODMS enables consistent and accurate network modeling throughout the enterprise. Utilities gain a trusted, simulation-ready model that supports digital twin strategies, regulatory compliance, improved operational readiness, and streamlined planning and operations coordination.

Why This Matters

Utilities increasingly face complex operating conditions, higher DER penetration, more stringent regulatory requirements, and tighter margins for modeling accuracy. When network model data across departments becomes inconsistent, study results diverge, operational planning becomes less reliable, and compliance risks rise.

PSS®ODMS addresses these issues by centralizing model data in a native CIM database, maintaining persistent identifiers, ensuring data quality through automated validation, and providing rich analytical tools for real-time, near-term, and historical analysis. This consistency across domains allows utilities to drastically reduce manual and duplicated data manipulation, accelerate case creation, strengthen reliability assessments, and ensure alignment between planning and operations.

Key Benefits and Features

- **Unified Network Model Management** that centralizes and synchronizes models across planning, EMS/(A)DMS, GIS, protection, and asset.
- **Seamless CIM-based integration** with third-party tools and external entities, supporting interoperability and regulatory reporting.
- **Automated data validation and model comparison** for improved data quality and faster model maintenance cycles.
- **Version management, merging, and auditability** ensures end-to-end traceability from historical accuracy to future model evolution.
- **Improved planning to operations coordination** thanks to a single, consistent model across time horizons.
- **Secure and scalable architecture** suitable for utilities of any size and adaptable to evolving IT landscapes.

Key Differentiators

Leadership in CIM and PSS®E data modeling
Siemens is the developer of both PSS®ODMS and PSS®E, which ensures the most precise and reliable CIM/CGMES and PSS®E compatibility. This produces forecast and operational cases that are immediately solvable in PSS®E without corrective engineering effort.

Deep utility modeling expertise
Siemens Grid Software includes many of the original contributors to CIM standards dating back to the late 1990s. This experience is embedded directly into the

product and informs global best practices for model governance and data excellence.

Proven customer success
Siemens has successfully delivered complex network model management programs worldwide since the early 2000s. Customers benefit from predictable implementation, reduced project risk, and an experienced team that understands model governance challenges from both technical and organizational perspectives.

Vendor neutral integration
PSS®ODMS interfaces with any planning, EMS/(A)DMS, GIS, historian, protection or asset tool that supports open standards. Custom adapters and automation tools reusable from past projects also allow utilities to extend or modernize their IT ecosystems without being locked into a vendor.

High data quality and reliable solvability
By developing the analytical engines behind both PSS®ODMS and PSS®E, Siemens ensures that the system consistently produces high-quality cases for operations planning, real-time analysis, and offline studies, reducing cleanup work before use.

Fast deployment with reduced manual modeling effort
PSS®ODMS avoids the need to build models and diagrams from scratch. Automatic diagram generation, auto labeling, built-in diagnostics, and model comparison capabilities reduce engineering effort and significantly lower the cost and duration of deployment.

Lightweight and operationally flexible
The system can run on standard workstations servers, enabling cost-effective deployment for real-time situational awareness, operator training, and simulation activities without a full EMS infrastructure.

Open APIs for automation and integration
Python and .NET APIs allow customers to automate case creation, bulk model actions, system integrations, and workflow orchestration, supporting utility digitalization strategies and reducing manual engineering overhead.

Core Capabilities

- **Centralized Network Model Management** with both node-breaker and bus-branch support, multi-user access, and historical audit trails.
- **Automated Case Creation** in PSS®E and CGMES formats, including integration of outage schedules, forecasts, and EMS snapshots.
- **Real-Time Situational Awareness** with integrated state estimation, contingency analysis, topology processing, and animated visualizations.
- **Offline Study and Event Reconstruction** using real-time or historical SCADA data for operator training, event replay, and model validation.
- **CIM and PSS®E conversion** that supports multiple versions, persistent identifiers, incremental change tracking, and CGMES gold-certified compliance.
- **External Model** via standards compliant data profiles.

Strategic Impact for Utilities

By consolidating planning, operations, and historical analysis into a single, standards-based modeling platform, PSS®ODMS improves data quality, reduces operational risk, accelerates engineering workflows, and strengthens regulatory compliance. The system provides a durable foundation for utility digitalization and grid modernization strategies while reducing long-term IT and integration costs.

Centralized Data Management and Exchange

- Centralized network model management and maintenance
- Exchanging network models with external entities (e.g. neighboring TSOs, ISO/RTOs, coordinators, regulatory, etc.)
- Improving data sharing across multiple systems within your organization (e.g. planning, operations, asset management, protection, GIS, etc.)
- Consistency and persistence on identifier uniqueness.

There is only one physical grid, yet most companies maintain multiple models across departments.

Inconsistencies in model data across different domains result in model inconsistency, inaccuracies, sub-optimal system performance, possible regulatory violations, and excessive manual labor. It also results in a limitation on automation of modeling and case-building workflows and makes it difficult to break out of the vicious cycle where individual engineers have their own ad-hoc methods of assembling the models and cases that they need. These problems can be solved by maintaining a "single source of truth" of the model across the enterprise, i.e. a single platform to coordinate and manage network modeling information across multiple domains.

Problem-Solving Features:

PSS®ODMS is uniquely positioned to satisfy the requirements of a centralized network model management system. It allows companies to centrally manage, visualize, store, synchronize, and exchange their network model data across multiple departments, systems, entities, and time horizons.

PSS®ODMS is one of the first commercially available and truly viable products built upon the CIM standards. PSS®ODMS stores network data in a CIM-native relational database, which can be deployed on Microsoft® SQL Server. With the ability to model and analyze transmission networks down to the node-breaker level detail, combined with historical change tracking and planned future project modeling features, PSS®ODMS fully supports maintenance of a unified operations-and-planning network model. The graphical user interface is the primary tool for creating, deleting, and reconnecting equipment as well as modifying attributes – including the ability to copy/paste equipment.

To facilitate future un-materialized changes in the network, the Project Modeling function supports unlimited multi-phase projects and future alternatives. This provides a collaborative work area to test modifications to the model before committing to the base model.

PSS®ODMS provides a fully integrated topology processing and power-flow module for model validation along with contingency and state estimation analysis functions, and a highly intuitive graphical user interface. The UI provides powerful results visualization, including flow arrow animation, color contouring, and one-line and tabular displays for contingency and state-estimation results.

Since solved snapshot cases from PSS®ODMS can be both manually and automatically exported to PSS®E format and used for planning studies, it provides best-in-class data exchange between CIM/CGMES and PSS®E. To fully achieve this, PSS®ODMS provides a full set of extensions that support the mapping of PSS®E identifier information such as bus numbers, names, areas, owners, and zones.

In addition, the PSS®ODMS database schema can be extended to include custom CIM extensions such as user-defined profiles, classes and fields supported with inclusion of these extensions in viewing and editing within the user-interface and import/export functions. The product also includes comprehensive Python™ and .NET APIs which allow clients to create their own user interface extensions and/or integrate PSS®ODMS with other systems.

More detailed technical features can be found in the "Features Summary" section on pages 17-23 of this brochure.

Benefits:

Improved business process efficiency:

- Reduction in data maintenance costs achieved by establishing a single data repository that can serve models for multiple utility domains – including transmission planning, and operations
- Automate key tasks such as case assembly, data validation, and data submission
- Reduce time required to maintain models, build cases, perform studies, and implement consistent model changes
- Eliminate duplicate effort for network data maintenance and management
- Modeling engineers can work with a consistent and persistent set of modeling data

IT integration cost reduction:

- Utilizes open CIM data formats, which promotes cross-system integration that helps to break the dependency on proprietary data formats
- Provides transparency and governance on internal and external interfaces

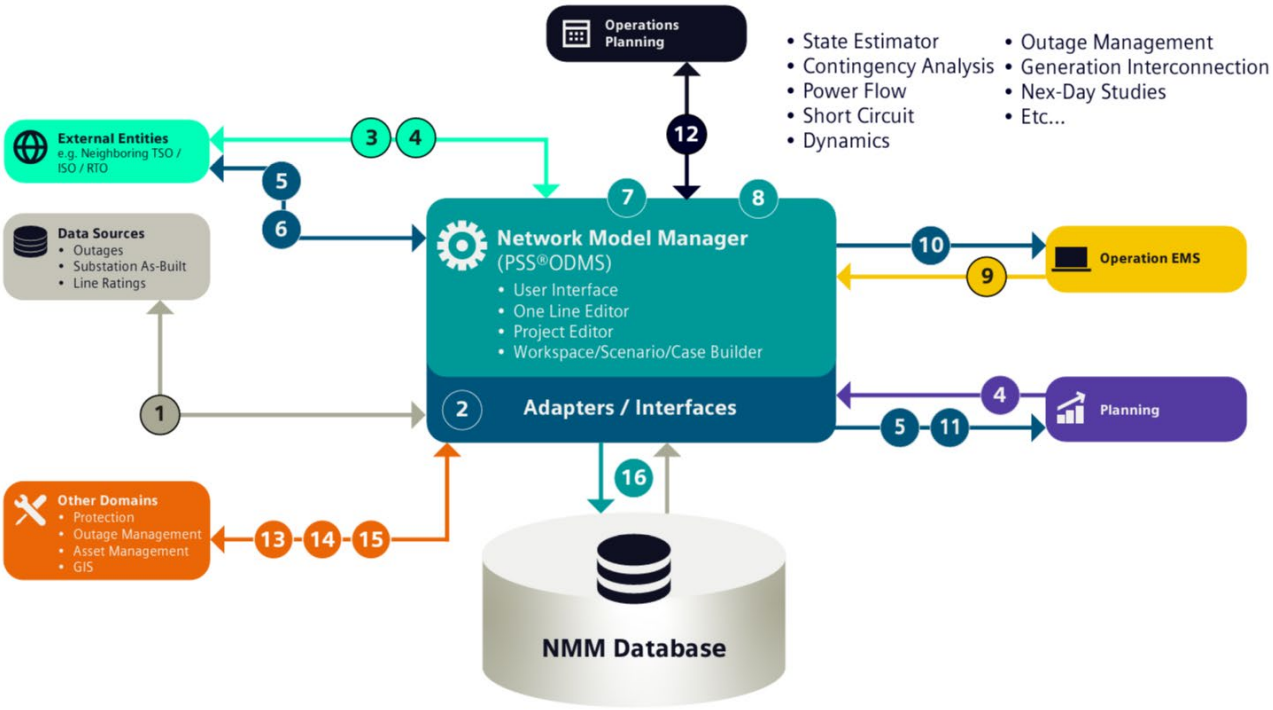
Regulatory benefits:

- Enables compliance with North American (NERC) and European (ENTSO-E CGMES) data modeling and exchange standards
- Full audit capability to track model changes and event re-creation

Other benefits:

- Hedges against aging workforce and silos of information
- Establish a sustainable path to interoperability, data governance, compliance in a world of ever-changing regulatory and cost pressures

The PSS®ODMS Network Model Management (NMM) solution provides a single platform to coordinate and manage network modeling information across operations, operational planning, and long-term planning plus other domains and systems.



1. **Interfaces to enterprise data source:** Achieved through a combination of standard (off-the-shelf) adapters and custom adapters which can be built using PSS®ODMS APIs.
2. **Standard interfaces:** Includes built-in support for CIM/CGMES, as well as PSS®E and PSS®MOD file formats.
3. **Receive external model data from other entities:** Operations staff can receive new external model data/ model authority sets pertaining to neighboring utilities. These models can be imported into the PSS®ODMS system to replace the existing ones. The MRID (Master Resource Identifier) and name attributes can be modified in these model authority sets, based on a name registry, according to the specific requirements of the EMS system.
4. **Import projects from Gridscale X Network Model Manager:** Projects can be imported into the PSS®ODMS directly from Gridscale X Network Model Manager via project (.prj) format.
5. **Export to Gridscale X Network Model Manager:** PSS®ODMS can produce stored projects in .prj format – these can be provided as required to an internal Gridscale X Network Model Manager system, neighboring TSOs or belonging ISO/RTO.
6. **Export model data to external entities:** Your network model/model authority set can be exported to a CIM/XML file based on the IEC 61970-452 Equipment (EQ) profile plus the extensions for use in neighboring utilities EMS systems. In these cases, the MRID (rdf:IDs) and name attributes can be modified, based on a name registry, to meet the requirements of the receiving EMS systems.
7. **Custom adapters:** PSS®ODMS provides APIs that can be used in software built by the customer to extract data directly from the PSS®ODMS NMM model without using any predefined exporters. Siemens PTI also provides engineering services to build custom adapters.
8. **Build projects/scenarios natively**: Users can natively create new projects representing future construction work. The project management area can be used as a 'what-if' environment for planners. Project data can include descriptive information about the projects and artifacts required by the specifications. Also, the extensions needed by all the systems using data from the PSS®ODMS projects may be maintained in this environment throughout their life cycle. If projects are modified, they can be copied, and the version can be incremented to provide an audit trail. The projects can also be converted to Gridscale X Network Model Manager format to pass to other organizations.
9. **Creating EMS snapshots:** The Planning Group receives EMS as-built status to update the base case or study-specific scenarios. Real-time and historical measurement information can also be loaded into PSS®ODMS for online situational awareness and offline scenario-based study via OPC/ICCP protocol.
10. **Update the EMS Model as projects are completed:** Once projects are at the stage where construction is near completion, they may be exported then passed to the model management team for testing and committing. The model can be exported to a CIM/XML file containing all the data needed to update the EMS.
11. **Produce PSS®E .raw files:** PSS®E .raw files can be produced using as-built data vetted from the state estimator to replace the base case in Gridscale X Network Model Manager.
12. **Create and export forecast study cases:** automatic case creation available to operational planners
13. **Export model information:** Export relevant model info to external systems such as outage management system
14. **Export to other systems:** PSS®ODMS can export custom profile-based CIM/XML file to feed other systems as needed.
15. **Export to protection**: PSS®ODMS produces CIM or PSS®E files along with sequence data to update models for protection software (e.g. Gridscale X Advanced Protection Assessment).
16. **Node-breaker and bus-branch models:** Capability in maintaining a model fits for both planning and operations in a single database.

Automated Case Creation for Operational Planning

- Automated case creation for network operational planning studies
- North America: NERC TOP-002, MOD-032/033, TPL-001 compliance (plus other standards and workflows related to operations planning)
- Europe: ENTSO-E CGMES compliance: IGM/CGM process involved in generating solved D-1 (day-ahead), D-2 (two-day-ahead), W-1 (week-ahead), etc. cases in both PSS®E and CGMES format

Operations planners play a vital role within utilities: they study predicted system behavior and "what-if" scenarios on a day-ahead (sometimes intra-day) to week/month-ahead timescale and use that information to help create operational plans for short-term planning. Effective operational planning is not only essential to being prepared for reliable grid operations and responses for unplanned events – it is also enforced in many countries through regulations and standards.

To achieve such tasks, operational planners need to prepare different "what-if" cases which can then be studied using grid simulation software such as PSS®E. The challenge is that building these cases can be a time-consuming and error-prone manual task that involves fusing information from various sources (e.g., outage schedules, generation forecasts, load forecasts, interchange schedules, state estimator snapshots, etc.).

For European TSOs, the problem is even further compounded: European Network Codes require TSOs to produce forecast (e.g. intraday, D-1, D-2, W-1, etc.) cases in a specific format called CGMES – so there is the additional complexity of data massaging. Achieving compliance requires a tool that produces these cases with limited human intervention on manual overhead. Whether you work for a TSO in North America, Europe, or other location, PSS®ODMS solves the case creation problems outlined above by providing effortless, automated, repeatable, consistent and accurate production of solved forecast cases in both PSS®E and CIM/CGMES formats.

Problem-Solving Features:

- Automatically produce solved and validated operational planning cases (e.g. intraday, day-ahead, week-ahead, etc.) in both PSS®E and CIM/CGMES format
- Open APIs to automatically integrate case data from external sources (e.g. outage schedule, load forecast, generation forecast, etc.)
- Vendor-neutral EMS integration captures state estimator/EMS snapshots, which can form the basis for the operational planning study cases

NOTE: If you don't have a State Estimator, PSS®ODMS offers one (see pages 11-12, "PSS®ODMS for Real-Time Situational Awareness")

- Cases can be produced based on a set of configurable variables (e.g. time of the day, load/generation forecast data source, various data formats, etc.)
- Comprehensive/verbose debugging and logging, built-in CGMES validation, PSS®E solution validation, and integrated contingency security assessment, for seamless model validation and security checks.

Benefits:

Improved business process efficiency:

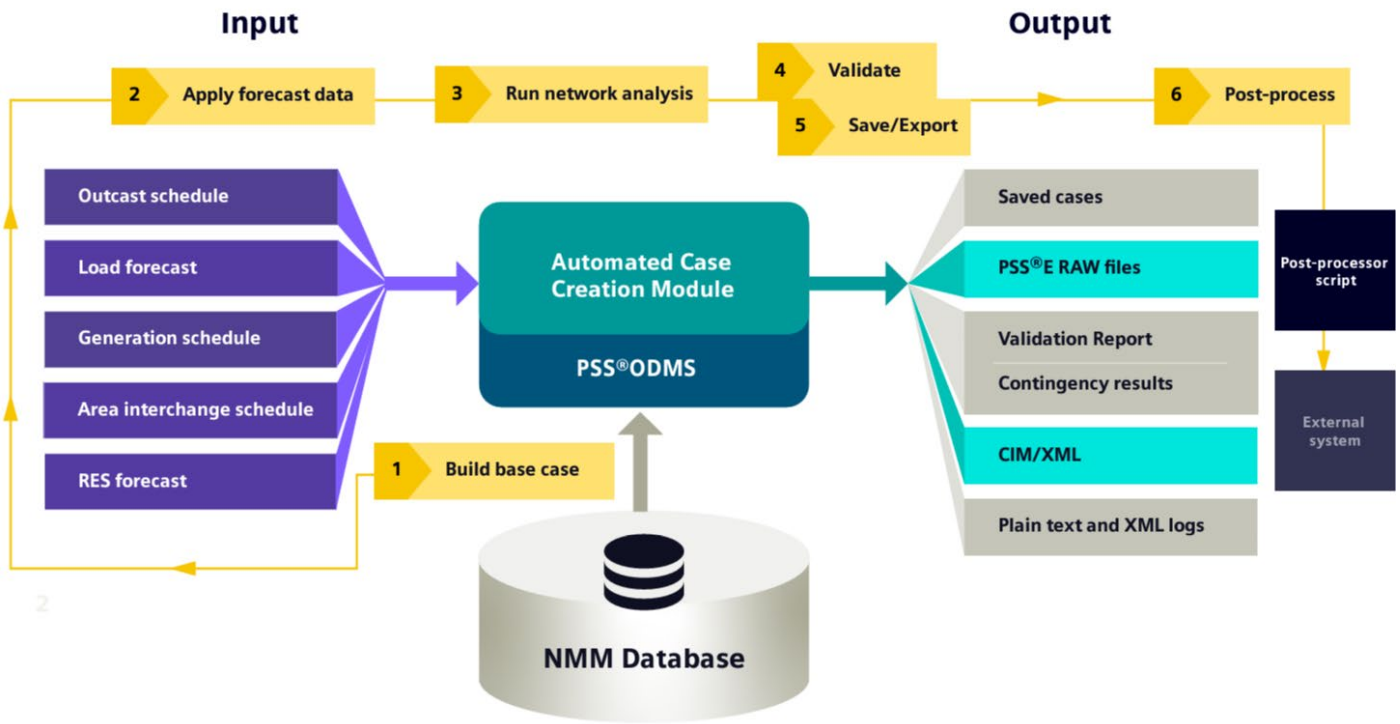
- Automates key tasks such as case assembly and data validation for operations planning
- Reduces time required to build forecast cases and perform operations planning studies
- Automatically validates with instantly solvable PSS®E cases for detailed study which avoids time-consuming validation and debugging

Organizational and IT benefits:

- Promotes automation and helps break organizational silos

Regulatory benefits:

- Enables compliance with North American (NERC) Reliability Standards related to operations planning (e.g. TOP-002, MOD-032/033, TPL-001)
- Enables compliance with ENTSO-E CGMES standards
- Full audit capability for tracking changes, event re-creation, and data validation



General PSS®ODMS CGMES Case Creation workflow example. Other approaches/variations are possible – with PSS®ODMS playing a different role in each. For example, PSS®ODMS Case Creation can be deployed to more thoroughly leverage your existing Case Creation (e.g. UCTE) data/solution.

Real-Time Situational Awareness

- Real-time situational awareness for transmission companies that are too small (or don't want) to deploy a full EMS (or perform a major SCADA upgrade)
- Cost-effective and lightweight deployment for real-time state estimation and contingency analysis with an operator-like interface
- Analyze real-time network conditions in the event of SCADA interruption

Situational awareness of the power grid is critical for secure and reliable system operation. Lack of situational awareness was cited as a contributing cause in many of the major blackouts of the past 25 years. As a result, there is a landscape of regulations, standards, and best practices dedicated to ensuring a proper level of real-time system visibility (for example, NERC TOP-006-2 in North America).

While the exact definition of situational awareness varies by context, it generally refers to some blend of real-time state estimation, contingency analysis, and other analytical functions that allow operators to anticipate, assess, and mitigate real-time issues.

These capabilities are typically only possible by deploying an EMS, or by performing a major SCADA upgrade/replacement to a new vendor that provides these functions (very few do). Neither of these options are attractive nor economically compelling for smaller transmission operators, municipalities or industrial users.

PSS®ODMS provides a lightweight, easy-to-deploy situational awareness solution that works with an existing SCADA system. It is only a small fraction of the deployment and maintenance cost of a full EMS deployment or SCADA replacement.

Problem-solving features:

Fast and accurate analytical functions evaluate system operating conditions in real-time and increase system awareness for improved reliability and security.

- Real-time state estimator and contingency analysis
- Integrate measurements from existing SCADA and Historian through open interfaces (OPC, ICCP or APIs)
- Navigate through results of each contingency with associated protection scheme applied
- Topology processing and power-flow engine enables snapshot cases that can be further studied in PSS®E, automatically invoked at each solution cycle
- Toggle between real-time and offline study modes in one click
- Retrieve archived measurements and build historical cases for study

User interface:

- Intuitive displays for operators, including single substations, geographic overviews, and large-scale 'map board' one-line diagrams
- Powerful graphical results visualization and network navigation
- Custom symbol support with built-in editor
- Simultaneous measurements and results display

- Color-coded and animated flow arrows
- Color contouring by flow or voltage violation
- User-configurable spreadsheet views
- One-click toggle between real-time and study mode

Powerful open .NET and Python™ APIs for automation and custom scripting
Comprehensive and flexible system administration options

Benefits:

- Lightweight, easy-to-deploy situational awareness solution that works with your existing SCADA system (vendor-neutral)
- Improves system reliability at a low cost
- Increases situational awareness
- Improves network reliability with fewer disruptions
- Provides backup situational awareness in the event of a SCADA disruption
- Reduces outage recovery time
- Enables compliance with situational awareness standards/regulations/best practices

PSS®ODMS

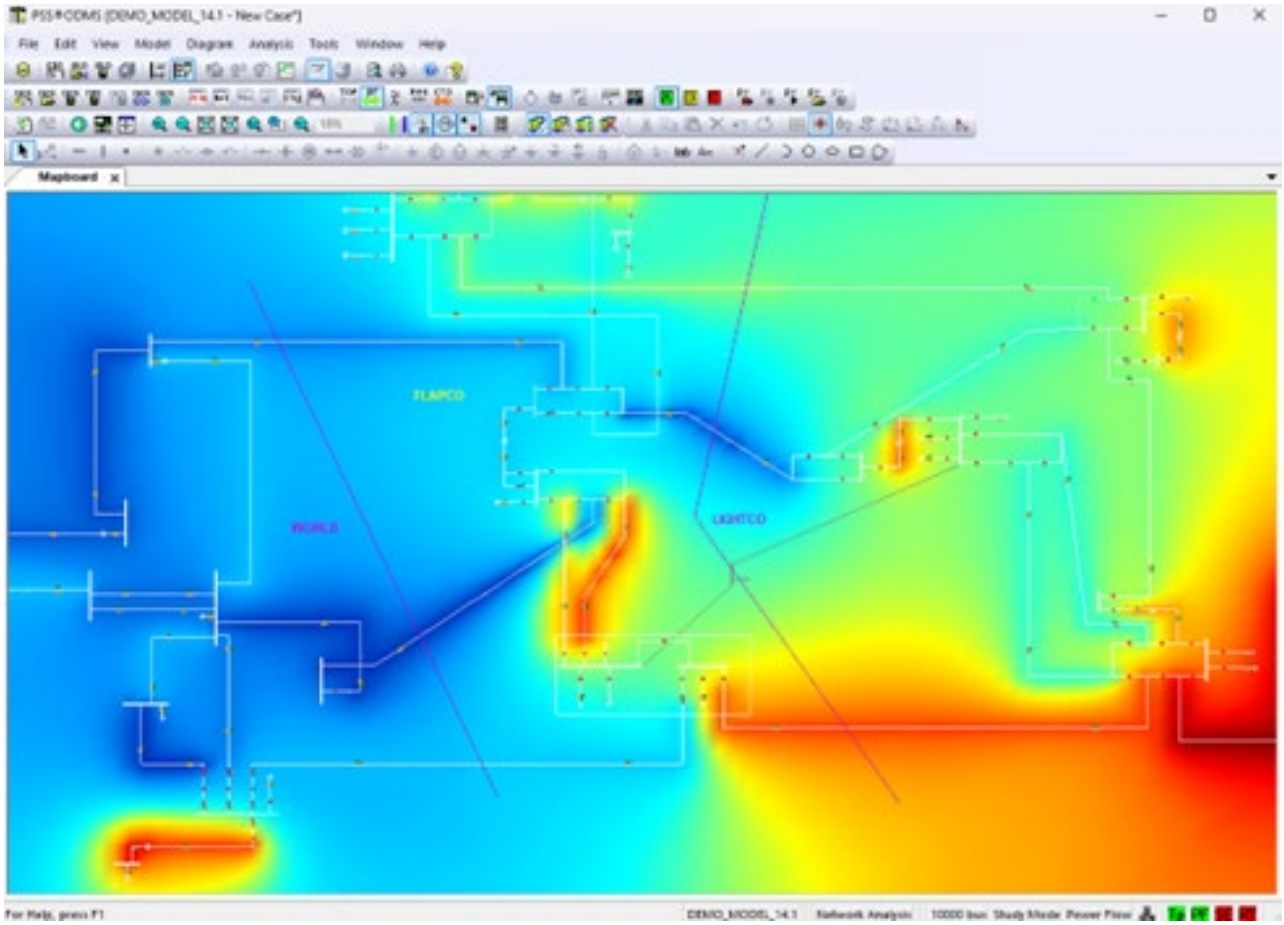
Scenario-based Offline Studies

- Create cases and perform offline study functions based on your real-time operations models/data/scenarios
- Training, model validation, and event re-creation
- Instantly create cases and perform studies around system outages, voltage collapse, cascade scenarios, black-start sequencing, safe switching procedures, load shedding, and remedial action scheme (RAS/SPS) modeling

Utilities perform several workflows that require creating an offline study case that is reflective of a real-world system condition. For example, this is used for operator training purposes, as well as to re-create and study past events/anomalies. It can also be helpful for model validation purposes (e.g., NERC MOD-32/33, TPL-001 in North America). In these scenarios, the user collects input "case" data (e.g. state estimator snapshot, measurement information, outage information, generation data, etc.) and fuses it together to create a model that can be studied using a simulation package.

Unfortunately, the creation of these cases can be an error-prone and time-consuming process. Even when the cases are created, they are sometimes only useful (or accessible) within a particular environment such as the control room/EMS.

PSS®ODMS solves this problem by allowing you to create offline cases based on real-time or historical operational snapshots, and furthermore, provides you with a rich set of analytical functions to study the cases. The cases can also be further exported to PSS®E for advanced analysis. PSS®ODMS is vendor-neutral and works alongside your existing IT landscape/SCADA system through open interfaces. It is a lightweight solution that can be deployed on machines as simple as laptops and can be taken outside of the control room environment.



Visualization of contingencies in PSS®ODMS using color contouring

Problem-solving features:

Retrieves real-time and historical measurement data from your existing SCADA/Historian and produces solved operational snapshot cases (with consistent bus numbering/naming) for offline study.

Cases can be further exported to PSS®E or studied locally within PSS®ODMS via its integrated topology analysis, power flow, contingency analysis and state estimation.

Vendor-neutral integration is achieved via open interfaces (OPC, ICCP or APIs).

User Interface

- Intuitive displays for operators, including substation single-line diagram, geographic overview, and large-scale 'map board' diagram
- Powerful graphical results visualization and network navigation
- Custom symbol support with built-in editor
- Simultaneous measurements-and-results display
- Color-coded and animated flow arrows
- Color contouring by flow or voltage violation
- User-configurable spreadsheet views
- 1-click toggle between real-time and study mode

Powerful open .NET and Python™ APIs
for automation and custom scripting

Comprehensive and flexible system
administration options

Benefits:

- Bridge the gap between operations and planning
- Lightweight, easy-to-deploy solution that works with your existing SCADA and historian system (vendor neutral)
- Save time, reduce errors, and simplify the process of creating operational snapshot/historical cases for offline study
- Enable compliance with model validation standards such as NERC MOD-032/033, TPL-001
- Reduce outage recovery time
- Strengthen your operator training program

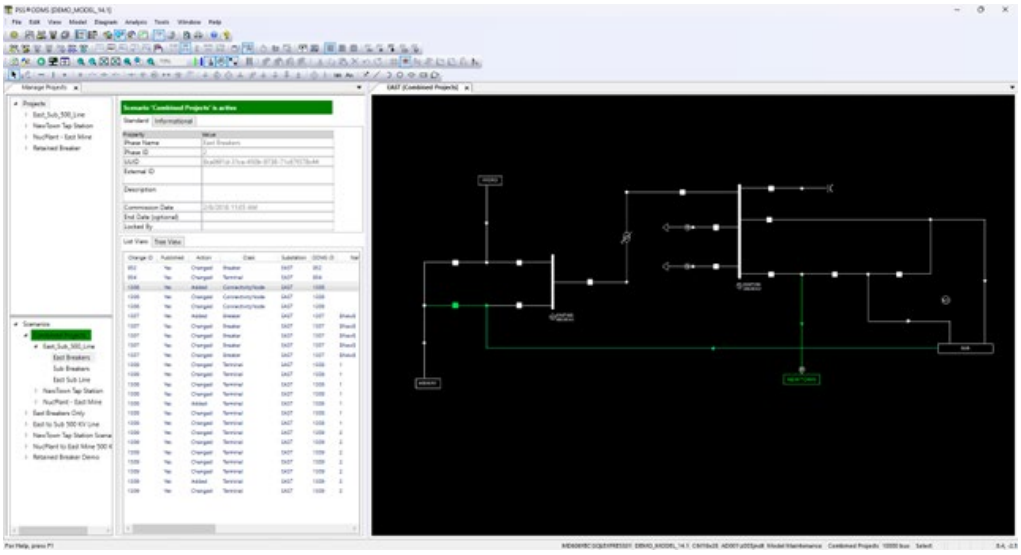
Feature Summary

CIM Compliance

- Native CIM-based network modeling environment
- Consolidated node-breaker/bus-branch modeling
- Conformant with ENTSO-E CGMES, NERC CPSM and EPRI GMDM profiles
- Persistent, globally unique MRIDs (Master Resource Identifier)
- Fully compatible with PSS®E standard data formats with CIM extensions
- Full, partial and incremental CIM/XML import and export capability
- Difference model extraction from side-by-side CIM/XML model comparison
- CIM model validation and CIM version upgrade functions

Project and Scenario

- Multi-phase project modeling for short-term and long-term transmission grid planning
- Interactive model change recording to individual project phases
- Unlimited future scenarios for previewing and validating alternative model configurations
- Scenario study case build, analysis and export to PSS®E
- Historical change tracking with full audit trail of model changes
- Configurable user roles, privileges and groups
- Public APIs for system integration and/or automation



Project and Scenario in PSS®ODMS

PSS®E Compatibility

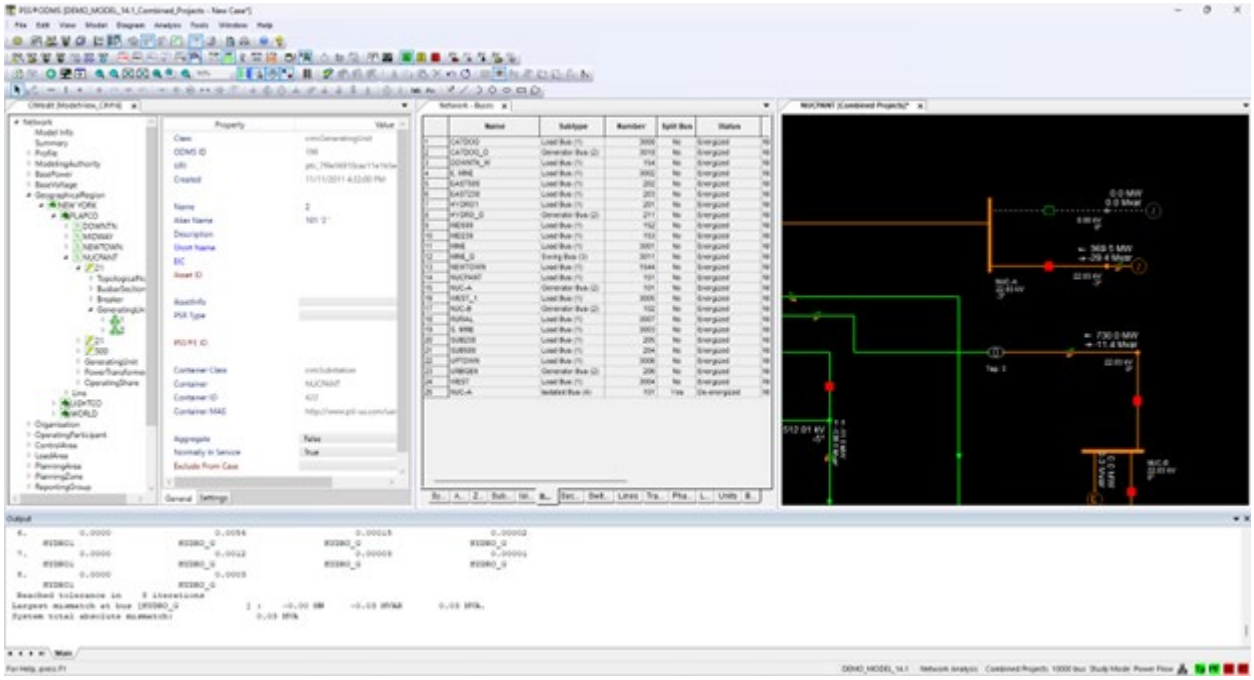
- Import and export network data in RAW and SEQ format
- Import and export dynamic model data in DYR format
- Full preservation and export of all PSS®E identifiers (buses, areas, owners, zones, etc.)
- Import seasonal limit sets and/or profiles from multiple PSS®E RAW files
- Import operational state data from PSS®E RAW files
- Extract incremental model changes from PSS®E RAW/SEQ file comparison
- Import PSS®E project (PRJ) files

Database

- Multi-user relational database implementation supports SQL Server
- SQL Server Express Edition support for standalone workstation deployment
- Model-driven database schema generated from IEC61970 CIM UML
- Support for user-defined database extensions
- Automatic backup server failover capability for high-availability deployments
- Scalable to any transmission network size

User Interface

- Native Windows desktop application with intuitive menus, toolbars and windows
- User-configurable and extensible hierarchical network model interface
- Interactive one-line diagrams that support model maintenance and network analysis tasks
- Tabular network analysis displays, including pre-filtered, sorted limit violation reports
- Scrolling network analysis textual progress window
- Project modeling interface for structured future grid planning
- Model history interface for a detailed audit trail of committed model changes
- Convenient navigational/lookup features



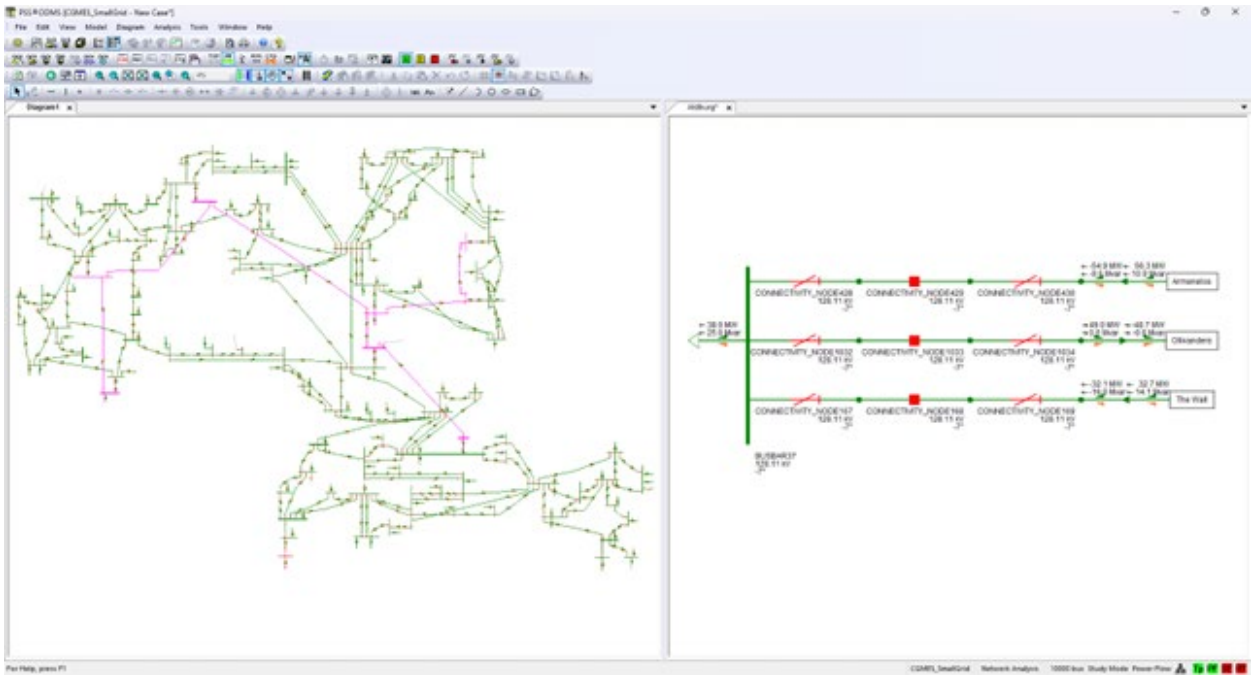
General PSS®ODMS GUI

Diagrams

- Individual substation, system overview, and map board-style one-line diagrams
- Automatic diagram generation with support for geographical coordinates
- Automatic diagram synchronization with network model changes
- Intuitive zooming, panning, and selection features
- Informational graphical object tooltips
- Shared diagram settings including standard voltage level colors
- User-specific display settings, including side-by-side measurements and analysis results
- Color contouring based on percentage of flow/voltage limits or base voltages
- Optionally animated and color-coded flow arrows
- Built-in custom symbol editor
- Standard image file support including embedded images
- Free-form graphical and text annotations
- Printing support including PDF and export in SVG
- Import and export functions compliant with CIM Diagram Layout (DL) profile

Topology Analysis

- Dynamic node-breaker to bus-branch model conversion
- Identification of energized/de-energized islands and buses
- Identification of out-of-service devices
- Individually “retained” switching devices for fixed buses
- Exports snapshot of operations data and equipment status



(Left) Geographical overview diagram; (Right) Substation diagram with power flow results

Power Flow

- Newton-Raphson, fast-decoupled and DC solution algorithms
- Flat-start and non-flat-start solution options
- Convergence tolerance setting
- Maximum solution iterations setting
- Generator var limit checking option
- Automatic transformer and switched shunt control adjustment
- New slack load mismatch distribution method
- Zero-impedance threshold setting

Contingency Analysis

- Fast DC-power-flow-driven N-1 contingency screening and generation
- Full AC power-flow solution for each selected contingency
- Complex user-defined contingencies via Python scripting
- Protection/remedial action schemes via Python scripting
- Supports RAS and SPS post-contingency switching
- Interactive Python script recording for user-defined contingencies
- Contingency analysis overview, summary, and detailed reports
- Unique individual contingency activation feature for system-wide visualization
- Supported in online network analysis and offline study mode
- Fully automatic contingency runs at user-specified periodicity
- Full breaker-to-breaker contingency definitions

Measurement Integration

- OPC DA/UA client interface for real-time measurement input data
- OPC HDA client interface for historical measurement input data
- Compatible with SISCO AX-S4 ICCP

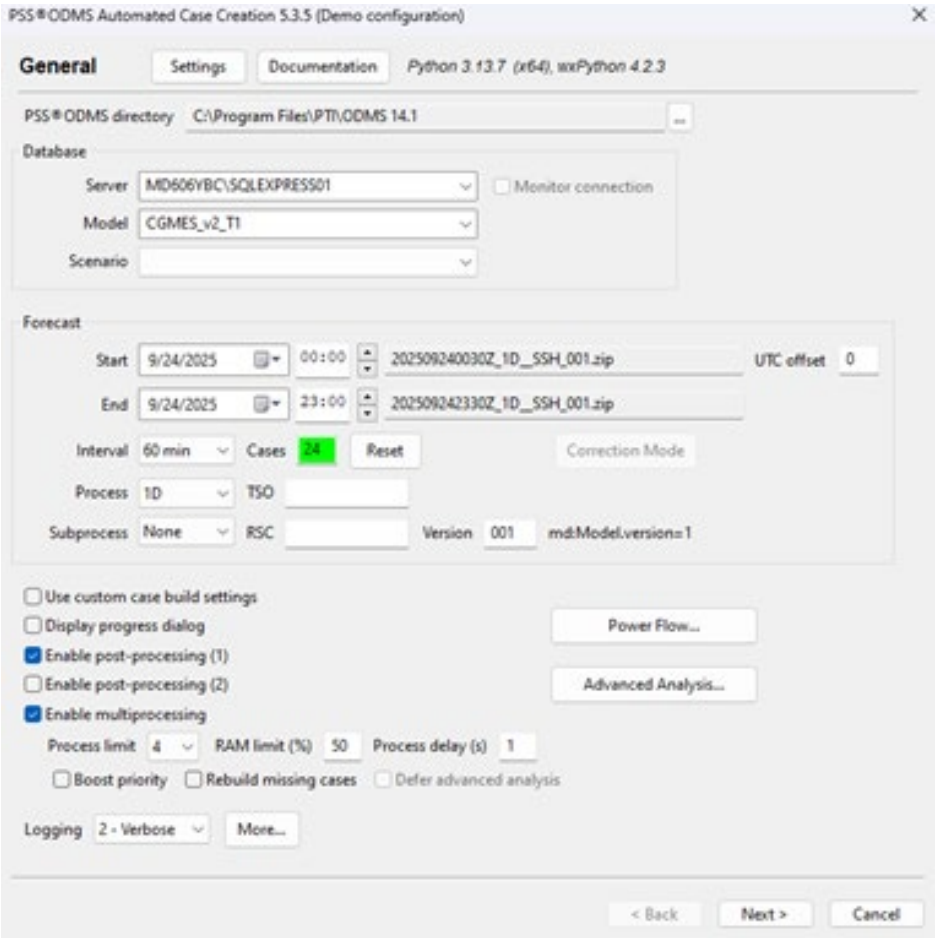
Public APIs

- odmsPy – Python API for program-level automation
- pssoPy – Python API for network analysis functionality
- sliderPy – Python API for graphical data conversion and/or manipulation
- CIMdbNET – .NET API for CIM database model low-level data access
- PMdbNET – .NET API for project modeling functionality

Automated Case Creation

- Builds near-term operational forecast cases for the selected time period (e.g., next day, two days ahead, one week ahead, etc.)
- Imports outage, load, generation and interchange schedule/forecast data via standard and/or custom interfaces

- Integrated power flow and contingency analysis
- Exports solved forecast cases in CIM/XML (CGMES) and PSS®E RAW format
- Saves forecast cases in native binary file format for later troubleshooting
- Detailed plain text and XML logging
- Network analysis HTML reports
- Standalone GUI for selecting custom settings and invoking the process
- Visual feedback while the process is running and at completion
- Multiprocessing support for maximum performance
- Designed for customization, extension and integration via Python



PSS®ODMS Case Creation Module GUI

Product Support

Support and Service Package for PSS®ODMS

- Application support delivered by the dedicated Siemens Customer Service and Success team with direct access to subject matter experts
- Premium access to product updates, enhancements, and new functionality
- Interactive online forums to promote knowledge sharing within the professional user community
- Extensive knowledge database
- High-value technical user conferences with regional focus to increase product roadmap awareness and provide opportunities to meet with Siemens experts and fellow users
- Platform for PSS® Product Suite users to submit, track, and vote on product ideas: https://www.siemens.com/pss-ideas

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