

General Information

This update can be used exclusively for the **PSS®SINCAL Platform 22.5**, not for other product versions!

Procedure for Installation

- Close all running PSS SINCAL Platform applications.
- Decompress the Zip archive.
- Start the installation using AutoRun.exe or Sincal\SincalSetup.exe. The setup automatically detects the existing PSS SINCAL Platform installation and updates all components.

If you have any questions, please contact **PSS SINCAL Platform Support** (phone +43 699 12364435, e-mail sincal.support.it@siemens.com).

Additions/Corrections Update 3 (July 30, 2026)

PSS SINCAL User Interface

- Application Examples
Fixed a bug that caused the help to be unavailable or inaccessible for some examples.
- Variants
Fixed a bug that occurred when defining a new base variant using the Variants dialog box. The subvariants were not deleted even though the option was enabled.
- Update Graphics
Fixed a bug that occurred when updating the topology display in the network browser. The issue occurred when only network elements without graphical information were displayed and nodes had been dragged into the network view.
- Lines
Fixed an issue where warnings generated during the update of line data from line segments were incorrectly treated as errors, preventing the update from being completed. Line data can now be updated even when warnings are present.

PSS SINCAL Electrical Networks

- Protection Analysis (PSA)
Correction of an error that occurred when creating protection routes if the protection device on the transformer is intended to protect a busbar but the terminal is open.
- CIM-Export (CGMES 2.4.15, CGMES 3.0)
Fixed a bug in the export of the sin: extensions, which caused the information to be exported to all files rather than just the main file of the cim: object.
- Protection Simulation (OC, SZ)
The calculation of impedance for SIPROTEC-5 devices in the input data has been corrected. As a result, the impedance pickup is now calculated based on the correct values.

PSS NETOMAC

- XMAC Models
Improved support for large XMAC models.

PSS SINCAL Automation

- Database Manager
Fixed an issue with setting parameters via the API in the Database Manager.

Additions/Corrections Update 2 (June 30, 2026)

This update includes all additions from previous updates, along with the following error corrections and new additions.

PSS SINCAL User Interface

- Network Browser – Feeder
Additional check for incorrect or incomplete data regarding the feeder if it could not be assigned to a starting station.
- Dialog Protection Device – Pickup
Correction of the available selection options in the “Pickup” tab for SIPROTEC 5 protection devices.
- Multi-User Master Database
Fixed a bug related to deleting users.

PSS SINCAL Electrical Networks

- Power Flow (PF)
Power Limit: Correction of the sign convention to ensure the correct assignment of inductive and capacitive behavior.
- Short Circuit (SC)
 - In specific unbalanced network configurations involving converters, short-circuit current calculations yielded values that were too high at all nodes. Calculations performed for a single node, however, were correct.
 - Correction of an error in considering dynamic voltage support during a short circuit. This error could have caused the current of the elements participating in voltage support to be insufficiently reduced according to the network voltage.
- Time Series Calculation (LP)
Correction of an error causing the shunt reactor tap position to be overwritten during time series calculations.
- Load Balancing (LB)
 - Correction of an error in the network tracing process when identifying unbalanced feeders. In certain network configurations, not all feeders were taken into account.
 - Correction of an error in the unbalanced (RST) power flow method when used with single-phase loads. Calculations could only be performed using the unbalanced (MGN) method.

- **Resupply**
Correction of an bug when saving the resupply group results (not supplied consumers, not supplied power).
- **Protection Simulation (OC, SZ)**
An error in the calculation of the tripping time has been fixed. The idle time is now correctly considered even in the case of ground faults.
- **CIM Export**
Correction of the sign when exporting P/Q data from converters.

Additions/Corrections Update 1 (May 29, 2026)

This update includes the following error corrections and new additions.

PSS SINCAL User Interface

- **Updating the Switch Symbols**
Fixed an issue where the switch symbols (open/closed) in the network view failed to update when multiple views were used.
- **Create Graphics**
A problem with the "Create Graphics" function in the network browser has been fixed. Missing graphic elements were not generated when the "Create Missing Nodes" option was enabled.

PSS SINCAL Electrical Networks

- **CIM Import**
Fixed an error that occurred when processing the OperationalLimits of the line (lth) if it had a different number of limits per terminal.
- **Multiple Calculation**
An error related to defining multiple calculations in conjunction with the protection simulation has been corrected. The parameters for initiating the calculation method had not been set correctly.
- **Resupply**
With the updates to the feeder tracing algorithm in version 22.5, switches originating from virtual substations (bus-branch approach) are no longer available for Resupply when operating in "Feeder Based" mode.
- **Protection Simulation (OC, SZ)**
 - Correction of a tripping error that occurs when two separate distance protection settings (for phase and ground) have been assigned to a protection device.
 - A bug related to differential protection on transformers connected directly to switches or connections has been fixed. The bug caused the differential protection to trip every time.
- **Protection Device REL670**
Correction of the impedance pickup. The rotation of the load cut out based on the type of error was not implemented correctly.
- **Load Container**
Load containers with unbalanced customer data were not always considered correctly.

- Fault Ride-Through (FRT)
Fixed an issue with selecting the start element in the FRT start dialog box that prevented network elements from being displayed in the browser dialog box.

PSS SINCAL Application Examples

- Example NMM
The SINX network models included in this example have been updated to reflect all adjustments made in version 22.5.
- Example CA
Virtual stations have been removed from this example to support the correct behavior of the Resupply module in **"Feeder Based"** mode.