

General Information

This update can exclusively be used for the **PSS®SINCAL Platform 22.0**, 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** (fon +43 699 12364435, e-mail sincal.support.it@siemens.com).

Additions/Corrections Update 5 (March 31, 2026)

This update contains all the additions of the previous updates and on top of that the following error corrections and additions.

PSS SINCAL User Interface

- Tabular View
 - Correction of an error in records for network elements with standard types in the tabular view.
- Diagrams
 - Automatically updates the open diagram view when creating diagrams for protection devices from the network graphic via the pop-up menu.
 - Fixed a program error that occurred when attempting to display the input data for a network element that had already been deleted.
- Graphic View
 - Extended annotations in the network graphic for the variable serial element. The input data for the short circuit condition can now also be displayed.
 - Fixed an error that occurred when copying element switching times.
 - Fixed an issue with resizing polylines.
 - Consideration of the WebMercator projection in geographical views when calculating the area of polygons.
- Set Input Status
 - Advanced feature for converters: the "Equivalent Converter" attribute is now available.
- PDM Import and Export
 - Enhancement when creating protection devices in the "Substation & Bay" module when multiple settings are available.
 - The MRID for protection devices was not created correctly in conjunction with variants.
 - Extended export of settings in the "ProtPickup" and "ProtDIRelais" tables using a common function (Func_ID).

PSS SINCAL Electrical Networks

- **Power Flow (PF)**
The fixed setting for the separate reverse control did not work correctly in certain cases. This issue has been resolved.
- **Resupply**
Enhancements and corrections for processing switches in the calculation module for feeder-based resupply.
- **Protection Coordination (OC/SZ)**
 - Fixed an issue where reclosers did not always trip correctly.
 - Directional final time for UI pickup: If the directional final time was shorter than the non-directional final time and the error was detected in the backward direction, the directional final time might still trigger.
- **Protection Devices**
There have been changes to the final times of the protection devices. For SIPROTEC5 devices, there are no longer separate final times for the available pickups. SIPROTEC3 devices and PDX devices, on the other hand, now have separate final times. To enable these changes, you must use the new protection device database included in the update.
- **Switches**
Fixed an issue in the input dialog for the switch. The button to enable the input fields for optimization was not available.
- **Harmonics (OB)**
Current and voltage sources in a serial DC element were not considered.
- **CIM Import/Export**
 - Correction and improvement of the input data determination for synchronous machines from CGMES 2.4.15 and CGMES 3.0.
 - Fixed an issue that occurred when exporting a converter to CGMES 2.4.15 and CGMES 3.0, which caused the extended sin: attributes to be exported incorrectly.

PSS SINCAL Automation

- **Calculation Methods**
Correction to the API function GetResultFile() for feeder tracing. When saving results, the file number is always appended with the active variant, but the API function returned the file name without the variant ID.

Additions/Corrections Update 4 (February 26, 2026)

This update contains all the additions of the previous updates and on top of that the following error corrections and additions.

PSS SINCAL Electrical Networks

- **Short Circuit (SC)**
 - The short-circuit contribution of the converter could not be deactivated when calculated

- according to "VDE 0102/2016 - IEC 60909/2016."
- Correction of a problem with dynamic voltage support in the case of unbalanced faults. The contribution in the counter system was not considered correctly.
 - Protection Simulation (OC/SZ)
 - Correction of a problem with the switch response time. If a switching time was specified and an impedance pickup without an end time, then the impedance pickup (6A) always tripped with the switching time.
 - Correction of a problem in determining the fault clearing time for parallel lines.
 - Pickup at DI Protection Devices
 - SPRECON-E-P DD6 has a split mode for current and UI pickup, as both can only be deactivated or activated together. SIPROTEC 5 devices now have completely separate final times for all three pickup types.
 - Impedance pickup MiCom P44X and GRL100: The minimum impedance pickup current was used, even though the parameter could no longer be entered. It could only be changed via the tabular view.
 - A problem with current pickup in MICOM P43 has been corrected. Non-directional current pickup is also taken into account if no end time (t8) is specified.
 - Load Assignment (LA)
 - Fixed a bug in determining the available results in the result dialog box, which prevented the menu item from being enabled in the pop-up menu of the load.
 - For loads that are not included in the load assignment, the load assignment data source was also incorrectly entered as the result.
 - During automation, some start parameters were overwritten by the calculation settings, even though these should not be used.
 - Correction in determining the power in the case of multiple assignment of loads in meshes.
 - Measuring Device
Correction of an error when processing the time series profile with the input format "I and $\cos\varphi$ ".
 - Load
For loads with load input formats P and Q, the profiles "S and $\cos\varphi$ " and "f and $\cos\varphi$ " are no longer supported.
 - Coupling Data for Lines
Fixed an issue where ".cpl" and ".leika" files with empty names could not be created.
 - Load Allocation
In conjunction with the Newton-Raphson power flow calculation, this function could cause some connection points to incorrectly return no results because the power flow did not converge. This issue has been resolved.
 - Importing Protection Device Settings (PDM)
Extension for importing pickup settings (ProtPickup).

Additions/Corrections Update 3 (January 30, 2026)

This update contains all the additions of the previous updates and on top of that the following error corrections and additions.

PSS SINCAL User Interface

- Dialog box for Measurement Data and Load
Improved display in the dialog box for values with the input format “Pi and Qi.”

PSS SINCAL Electrical Networks

- Harmonics (OB)
An error in the generation of harmonic diagrams with node level values has been corrected. The appropriate value corresponding to the node results was not always stored in the signal database.
- Dynamics (ST, EMT)
Correction of an error in the identification of the signal output of all machine variables of an ASM, which resulted in the signals not being correctly available in the signal browser.
- PDM Import
Import master resources when new protection devices are created in the network model.

PSS SINCAL Pipe Networks

- Pressure-dependent Consumption Reduction
Improvement of pressure-dependent pressure consumption reduction in poorly converging networks.

Additions/Corrections Update 2 (December 22, 2025)

This update contains all the additions of the previous updates and on top of that the following error corrections and additions.

PSS SINCAL User Interface

- PSS NETOMAC Log Result View
Correction of a program crash when a line in the LOG exceeded the length of 256 characters.
- Include Network Models
An error when synchronizing results in open Include network models has been corrected. This could cause active evaluations to lead to a program crash if the database was still locked.
- Network State
An error when importing a network state XML file with MRID identification has been corrected. This caused network elements to be identified incorrectly and no data to be transferred.
- Highlight
Improved highlighting of transformers when only the terminals are highlighted.
- Evaluations
Correction of an error in the feeder evaluation, which meant that the name was not updated and an old, incorrect name was displayed in the evaluation list.

PSS SINCAL Electrical Networks

- Load Assignment (LA)
The power flow calculation using the "Unbalanced (MGN)" and "Flat Start" methods in combination with operating points and control elements in the network could lead to errors. This problem has been fixed.
- Distance Protection Devices
The final times for impedance pickup have been added back.
 - No final times:
SIPROTEC 4, SIPROTEC 5, EASERGY P3, MiCOM P44x;
 - Final times divided by current pickup:
MiCOM P43x, PD532, PD551, PD552, SPRECON, SIPROTEC 3, REL670/RED670, REF630;
 - All other types of protection devices have their own final times for phase and ground.
- Distance Protection Devices
If the final time is 0.0 s but a proper time has been entered, the protection device has triggered incorrectly with the end time instead of the stages.
- Switch
A problem with the processing of switching actions has been fixed. If switches with individual phases had switched off all phases, they could not be switched back on again. This could occur, for example, during contingency analysis or resupply.
- Protection Documentation
Correction of an error in the layout of the network graphic in the protection documentation, which meant that the set length was no longer used for branch elements.
- Resupply with Feeder Tracing
The feeder tracing in the re-supply module is incorrect. Now, the calculation module determines the same feeders as in the user interface.
- Thermal Destruction Analysis (TDA)
Nodes with $ip_{max} > 0.0$ were included in the analysis, even if Ik_{max} was 0.0.
- Network Stress Test (NST)
Correction of an incorrect error message when starting the calculation module.
- Static Network Reduction (NR)
When static network reduction was performed with logging enabled, false errors were logged. However, these had no impact on the result.

Additions/Corrections Update 1 (November 28, 2025)

This update contains the following error corrections and additions.

PSS SINCAL User Interface

- Geographical Positions at Nodes
Correction of an error when saving the automatically determined geographical position (latitude and longitude) for newly created nodes.

- Routes
Correction of an error in the length calculation for the Route element.
- Tabular View
 - Correction of a captioning problem with some attributes in external databases (e.g., ResultElement_ID).
 - Correction of an error, which sometimes caused all fields to be displayed as read-only.
- Print
Correction of an error when printing highlights. These were displayed in a reduced size in the upper left corner of the printout.
- Excel Import
Enhancement of the import function to also support the old XLSX format, in which texts (strings) are stored in a different form.
- Fit In
Correction of an error when opening the Fit In dialog box, which meant that some of the controls for defining the reference coordinates were only activated by changing the selection in Projection.
- Evaluation
Correction of an error in the resupply evaluation in combination with the highlight option. The colors were not correctly assigned to the resupply results.

PSS SINCAL Electrical Networks

- Line
Correction of an error when updating the type when using line segments.
- Power Flow (PF)
Correction of an error when applying the coincidence factor to feeder-based areas and when using the substation model.
- Load Assignment (LA)
Correction of an error when applying symmetrical or single-phase results as input data (factor), which caused the input format to switch to Pi/Qi instead of storing the values using the factors fP and fQ.
- Load Balancing (LB)
An error in the calculation module has been corrected, which caused the PI equivalent circuits of network elements to be partially incorrect, which could lead to suboptimal results.
- Time Series (LP)
Correction of an error in time series calculation in connection with Newton-Raphson power flow and the load factor.
- Protection Routes
Correction of an error in the display of zone details for multiple selections in the result browser. Previously, the tripping time of the zone from the first device was displayed. However, this can vary from device to device and should therefore not be displayed.
- Setting Value Calculation (DI)

Correction of error E 3370 in the distance protection setting value calculation.

- **Distance Protection Devices**
New operating modes for UI pickup are now available for the SIP4, SIP5, SPRECON, and Schneider P43x series of protective devices.
- **Arc Flash (AFH)**
Fixed a bug that occurred when protection devices were installed directly on network elements such as serial reactors.
- **Dynamic Simulation (ST/EMT)**
 - The generation of the NET file has been adjusted: If the line simulation is used with the H model (homogeneous line) without all the necessary requirements being met, a standard line is now generated automatically.
 - **Machine Controller**
Automatic definition of the variable #MBASE before calling the machine controller with the rated power of the machine.
- **CIM Import**
Correction of an incorrectness when importing CIM files with a geographic view. The projection in the current view was always set to "Generic" instead of "WebMercator".

PSS SINCAL Automation

- **Calculation Methods**
Correction of an error when retrieving calculation results via the API. Depending on the table and query, no matching results were returned.

PSS NETOMAC

- **Graphical Model Editor (GMB)**
Correction of incorrect help link when editing blocks in the Parameter dialog boxes.