

General Information

This update can exclusively be used for the **PSS®SINCAL Platform 11.5**. It can't be used with other product versions!

Procedure for Installation with Update Wizard

- Close all running PSS SINCAL Platform applications
- Decompress the Zip archive
- Starting the Update Wizard. It automatically detects the existing PSS SINCAL Platform installation and updates all components.

Procedure for Manual Installation with Update Files

Attention: Administrator rights are necessary to supply the update!

- Close all running PSS SINCAL Platform applications
- Decompress the Zip archive
- Copy the directories/files into PSS SINCAL Platform installation directory
- Start the program PSS Tool and then press the button "Register" in the tab "Administration"

If you have further questions, please contact the **PSS SINCAL Support** (phone +43 699 12364435, e-mail sincal@simtec.cc).

Additions/Corrections Update 6 (October 27, 2015)

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

- Background maps
Fixed of bug when saving the settings for background maps in the SIN file.

Electrical Networks

- Load flow
Fixed of bug when continuous control was enabled at calculation settings.
Improved BOSL implementation for GNE- and REMOTE input parameters.
Improved implementation for variable shunt element connected between two phases.
- Harmonics
Correction of a bug which caused duplicated results in the database.
Multiple harmonic resonance networks are supported now, when these networks have a fixed impedance.
- Dynamics
Limits of generators be considered correctly if they are specified in the tab Controller.
Improved fault definition. The voltage maximum is now determined with time delay to the zero crossing.

- Protection coordination
Improved error messages for misconfigured differential protection devices.
- PSSE Import
Correction of processing extended load data.

Pipe Networks

- Stationary calculation
Improvement of pressure-dependent reduction of consumption.

PSS NETOMAC

- G_MAX and G_MIN block
Fixed of a bug when calculating the maximum voltage.
- Alteration of the frequency
Fixed of a bug when processing this disturbance criteria.
- INPUT block type 30000
Correction of some processing errors.
- List output
Fixed of bug in the output of machine data in the LST file.
- Dynamic network reduction
Correction of a bug which could cause that the network reduction was not successful.
Ground current elimination for differential protection devices.
- Input data output
Correction for two winding transformers which are modeled with Q lines.
- Frequency response
Better processing of calculation parameters.

Additions/Corrections Update 5 (September 30, 2015)

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

Electrical Networks

- Load flow
Better voltage depended reactive power control for unbalanced DC-Infeeder.
- Protection documentation
Save the graphic attributes for legends in the diagram view.
Fixed of a bug in separating a line with coupling data.
Correction of the tripping time at I²t tripping, if it is slower than the associated instantaneous tripping time.
- Verify connection conditions
Fixed of a bug when considering harmonics data.
- Dynamic simulation
Fixed of bug in connection of XMAC models with stabilizer inputs.

- Reliability
Fixed of a bug, when switchable network elements were connected to an isolated node.
- Network graphic
Correction of an error when displaying substation texts.

PSS NETOMAC

- DTF import
Extended import of multiplication factors if the "German TSO" option is enabled.
- Transformers
Improved handling of phase rotation definition for vector groups.
Improved controller tap adjustment with target voltage.
- Asynchronous Machines
Fixed of bug for machines with variable rotor circles (VARROT) in conjunction with SOURCE controllers.
- INPUT block
Fixed of bug reading of signal values from external data files.
- New XMAC models
While using multiple XMAC models processing errors could occur in the calculation core.
- PSSE import
Improved import of induction machine data from the DYR file (type IT = 2).

Additions/Corrections Update 4 (August 27, 2015)

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

Electrical Networks

- Load flow
Better capacitor und shunt reactor control when detecting reverse active power flow.
- Dynamics
Better active power definition for asynchronous machines.
- Protection Coordination
Improved display of protection coordination results in tabular view.
Minor fixes in protection documentation diagrams.

PSS NETOMAC

- Voltage profile
Complete output of load flow results in the log file and in the tabular view.
- Load flow results
Improved result processing, if G types are grouped at one node.
- DTF import
Fixed of a bug when importing from compensation reactors and capacitors, if the "German TSO" option was activated.

Additions/Corrections Update 3 (July 31, 2015)

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

- Automation
Correction of the automation function CopyAddSymbol(). If protection devices with voltage transformers are copied, the node of the target terminal is assigned to the voltage transformer.

Electrical Networks

- Protection coordination
Correction for determination of disconnection times.
Correct treatment of fault packets and fault sequence in protection coordination based on stability simulation.
Correction at determination of angle rotation for load voltage.
- Unbalanced load flow
Using a higher minimum impedance for cables/connectors in the component based load flow to achieve better convergence.
Enhancement for control of phase-ground voltage with a D0 autotransformer.
- DINIS import
Improved import of switching positions.
- PSS E integration
Fixed of a bug in determining the path variable for PSS E.
Better representation of the PSS E logfiles in the PSS SINCAL user interface.
- Operating Points
Fixed a bug when two operating point series have been assigned to a network element. It has been considered incorrectly only one operating point series.
- Reliability
Fixed behavior for load reduction at overload.
- PV curves
Correction of a bug which prevented the generation of diagrams.
- Short circuit
The calculation of the surge current with the "Ratio R/X at fault location $R/X < 0.3$ " option was changed in this way that the condition is checked only for topologically connected subnetworks.

PSS NETOMAC

- Text editor
Shortcuts for "Comment selection" can now be defined again.

- Model editor
 - Correction of a wrong error message when data file specifications were used in blocks.
 - Fixed a bug when processing INPUT blocks with data files.
 - Correction at the INT block. Initial value was incorrectly assigned.
 - Correction at the blocks ROTATE, AA/RI and RI/AA. Output imaginary did not properly work.
 - Correction at the SOURCE block, phase specification was wrong.
 - Corrections for processing of all remote block like RVMAG, RVANG, ...
- PSSE Import
 - Correction of a wrong error message when processing machine controllers from the DYR file.
 - Correction of a program termination due to a format error when importing RAW files.
 - Improved processing of bus numbers > 99.999.
 - Voltages of disabled buses are not written to the SV file.
- Line model
 - Corrections for line/cable modelling at dynamics simulation.

Additions/Corrections Update 2 (June 29, 2015)

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

PSS SINICAL User Interface

- Database update
 - Fixed of a bug when updating links to other views.
- Background images
 - Fixed of bug when changing the position of the background image.
- Message window
 - Fixed of problem with tooltips for very long message texts.
- Supplementary graphics objects
 - Bugfixes in storing legend and text field attributes in the database.

Electrical Networks

- Load flow
 - Fixed of a bug in optimal determination of Nodal Loss Transmission factors.
- CIM 16
 - Various improvements at import and export: Capacitors with variable controller step size, synchronous machine data, controller simulation of transformers, support of model sets.
- Verify connection conditions
 - Fixed of a bug in considering DC-infeeders.
- Optimal branching
 - Improvement in consideration of switches with the "fixed" status. This status was not included in optimization with branches at all terminals.
- Contingency analysis
 - Fixed of bug at PV generators at the same node.
 - Fixed of bug in consideration of autotransformers.
 - Correct providing of results at terminals.

- Fixed of bug in consideration of establishment date and shutdown date.
- Short circuit
Correction at matrix construction for short circuit with phase data.
- Dynamics simulation
Fixed of bug in consideration of models that were stored in directories with special characters.

PSS NETOMAC

- Model editor
Improved model processing with VARLIM blocks (sorting).
Correction of graphic display for ITER blocks.
Correction at Remote inputs.
Correction at FORMAT block, output to user defined file was not possible.
Correction at CONTROLLER block, controller name could not be defined.
- BOSL
Advanced search paths for PSS NETOMAC models.
- PSSE Import
Fixed of a bug when importing fixed shunts. Names were incorrectly stored in the SV file.
- DVG Import
Enhanced import of boundary injections (BI). The short circuit power S_k is now also taken into account.
- Simulation
Fixed of a bug in negative-phase sequence infeeders.
- Variant calculation
Better numbering of XRES files, this is now analogous to the RES files.
Correction when using the ABORT controller in the variant calculation. Now the current calculation or the complete variant processing can be selectively aborted with the controller.
- Machine convergence
All non-convergent machines in the network can be disabled with a new control switch. To do this, in the program control line 4 of the CTL file in column 16, there must be entered '1'.

Additions/Corrections Update 1 (May 26, 2015)

This update contains the following error corrections and additions.

User Interface

- Routes
Fixed of a bug when editing routes in the network graphic.

Electrical Networks

- Load flow
Improved performance in networks with many connectors.
- Arc flash
Correction of translation errors in the labels in Spanish and Chinese.

- **Motor start-up**
Advanced results for networks with connections.
- **Contingency analysis**
Improved pre-analysis to identify isolated subnetworks.
Correction of problems in processing of malfunctions with re-supply measurements.
Correct consideration of shutdowns in recalculating malfunction scenarios.
- **Dynamics simulation**
Fixed of bug in handling NZD files.
Improvement in signal plotting at current and voltage transformers.
- **DINIS import**
Fixed of a bug when importing from transformer data.
Improved import of lines with line segments and standard types.

PSS NETOMAC

- **Model editor**
Debug menus are disabled, if no project is opened.
Enhanced test environment for PSS E.
- **Load flow**
Configuration files are opened now always in ReadOnly mode.
- **Global variables**
Improved handling of the same global variables, which are multiple defined. Now that definition of the variable is used, which is "closest" to the place of use.
- **External DLLs from Salford**
Adjusted calling conventions for the connection of Salford DLLs.
- **Diakoptics**
Fixed of a bug when simultaneously using BOSL and Diakoptics models.
- **NEVA**
Fixed of a bug in licensing when using network licenses.
- **Charts**
Fixed of a bug when displaying negative values from CSV files.