

2019 European PSS® User Group Meeting  
Agenda at a glance | Tuesday, June 4, 2019



**PSS® Plenary Session**  
Meet us in the Europe A room

Time	Presentation Title	Speaker
8:00 am	Registration, coffees, and pastries	
9:30 am	Welcome and introduction	
9:45 am	<b>What's new in the PSS® Portfolio</b> Overview of new developments, features and news in PSS® suite.	Thomas Bopp, PSS® Portfolio and solutions manager, Siemens PTI
10:30 am	Break – split into separate tracks	

**PSS®E / PSS®ODMS Session**  
Meet us in the Europe A room

Time	Presentation Title	Speaker
11:00 am	<b>PSS®E core product enhancements</b> Learn about the latest features implemented into PSS®E and view live demonstrations.	Amar Patel, Product Manager for PSS®E, Siemens PTI Joe Hood and Greg Mahlum, Senior engineers, Siemens PTI
12:00 pm	Lunch at the Atlas Hall	
1:00 pm	<b>PSS®E core product enhancements - continued</b>	
2:30 pm	Break	
3:00 pm	<b>PSS®E core product enhancements - continued</b>	
3:30 pm	<b>Open interactive discussion on the PSS®E core product enhancements</b>	Speakers and audience
4:00 pm	<b>Scalable model management solutions for PSS®E</b> Learn how you can utilize different solutions for PSS®E to achieve your various model management needs. During this presentation, you will hear about extending the capabilities of PSS®E with add-on modules, PSS®ODMS, and PSS®MOD.	Martin Mangold, Product Manager for PSS®ODMS and PSS®MOD, Siemens PTI
4:30 pm	<b>What's new and upcoming in PSS®ODMS</b> Learn about the latest features implemented into PSS®ODMS and view live demonstrations.	Martin Mangold, Product Manager for PSS®ODMS and PSS®MOD, Siemens PTI
5:00 pm	Session end	

**PSS® Welcome Reception**  
Meet us in the Europe B room

5:30 pm – 8:00 pm	Network with peers and PSS® engineers, enjoy complimentary beverages and hors d'oeuvres, and view informal demonstrations: PSS®E, PSS®SINCAL, PSS®ODMS, and more
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**PSS®SINCAL Platform Session**  
 Meet us in the Cosmos room

Time	Presentation Title	Speaker
11:00 am	<b>Welcome the participants of the 10th PSS®SINCAL Platform European User Group Meeting</b>	Ulrike Sachs, Product Manager for PSS®SINCAL, Siemens PTI
11:15 am	<b>Round table discussion and participant introduction</b>	Audience
12:00 pm	Lunch at the Atlas Hall	
1:00 pm	<b>New features in PSS®SINCAL Version 15.0</b> Learn about the latest features implemented into PSS®SINCAL V14.0 and view live demonstrations	Ulrike Sachs, Product Manager for PSS®SINCAL, Siemens PTI
2:30 pm	Break	
3:00 pm	<b>New features in PSS®SINCAL Version 15.5</b> Learn about the latest features implemented into PSS®SINCAL V14.5 and view live demonstrations	Ulrike Sachs, Product Manager for PSS®SINCAL, Siemens PTI
5:00 pm	Session end	

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**PSS®E / PSS®ODMS Session**  
 Meet us in the Europe A room

Time	Presentation Title	Speaker
8:00 am	Coffee & pastries	
9:00 am	<b>Future of PSS®E contingency</b> Learn about the most recent and upcoming developments to re-vamp contingencies and remedial action schemes in PSS®E.	Joe Hood, Senior engineer, Siemens PTI
10:00 am	<b>Dynamic model validation by using PSS®E and Python Automation</b> <i>The presentation shows the usage of PSS®E and python automation for the validation of PSS®E dynamic models. The validation concerns hydro and thermal units and their modelling for power system studies, and will be based actual field tests carried out on speed governors and AVRs of several units. The python automation scripts created, allows to automatically:</i> <ul style="list-style-type: none"> <li>• import generators data and test recordings from test files;</li> <li>• update a template static and dynamic model based on the imported data;</li> <li>• align the generator working point to the initial test condition;</li> <li>• detect from the recordings the step changes applied to the speed or to the voltage reference during the field tests;</li> <li>• run a dynamic simulation reproducing the real test, based on the step changes previously detected</li> <li>• plot with matplotlib a comparison of the real recordings VS the simulation results</li> <li>• in order to support the tuning process, plot with matplotlib a sensitivity analysis on up to two dynamic model's parameters at the same time</li> </ul>	Matteo Barbieri, Consultant, CESI
10:30 am	Break	
11:00 am	<b>MUST Add-on Module</b> Learn about the newest PSS®E module (formerly known as PSS®MUST) for transfer analysis studies including a new advanced SCED for corrective and preventive calculations	Joe Hood, Senior engineer, Siemens PTI

**PSS®E / PSS®ODMS Session**  
 Meet us in the Europe A room

Time	Presentation Title	Speaker
11:30 am	<b>Case example: Fingrid workflow using Elvis system</b> Fingrids Elvis system connects Asset Management, Location data, Planning tools and Simulation software all in one interconnected system. This digital twin of Fingrid system is replacing separately updated databases and spreadsheets to truly incorporate big data. This presentation gives general overview of the system and highlights workflow of keeping network model updated, including Siemens PTI products PSS®ODMS, PSS®E and PSS®CAPE.	Juho Tuominen, Power System Planning Specialist, Fingrid
12:00 pm	Lunch at the Atlas Hall	
1:00 pm	<b>Project-Lifecycle within PSS®ODMS</b> (import project from PSS®E & enrichment the model, model processing through different states, committing, historical tracking)	Sam Phillipson, Solution Architect, Siemens PTI
2:30 pm	Break	
3:00 pm	<b>An introduction to PSS®CAPE TS-Link</b> Get an introduction to the newest PSS® Portfolio product, PSS®CAPE (previously known as Electrocon's CAPE) and it's TS-Link module. This unique simulation tool integrates PSS®CAPE's protection data with the PSS®E time-domain transient stability program.	Dr. Ce Zheng, PSS®CAPE principle engineer, Siemens PTI
3:30 pm	<b>PSS®E UI/UX Revamp</b> Come see the revamping of the PSS®E interface to a more modern look-and-feel.	Greg Mahlum, Senior engineer, Siemens PTI
4:00 pm	<b>PSS® User Forum</b> Led by our customers, the user forum gives you the opportunity to ask any questions you have about the products or presented topics and provide your feedback. This informal discussion will close out the 2019 PSS® User Group Meeting	Speakers and Audience
5:00 pm	Session end	

**Athens Bus Tour and Dinner**  
 Meet us in the hotel lobby

5:30 pm – 9:45 pm	Enjoy a relaxing time traveling the Athens City while networking amongst PSS® Community. You'll see all the city's highlights and attractions there are to see – the last stop will be the Manhmanh restaurant to enjoy a Greek cuisine buffet with a modern twist! Transportation will be provided – all you need to do is join.	
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**PSS@SINCAL Platform Session**  
 Meet us in the Cosmos room

Time	Presentation Title	Speaker
8:00 am	Coffee and pastries	
8:30 am	Introduction	
8:30 am	<p><b>Automated frequency response calculations for wind farms using PSS@SINCAL</b>                      Calculation of frequency and phase responses for a large number of operating scenarios and an extended frequency range; multi-core calculation via Python-automated PSS@SINCAL engines; Graphical analysis with Python library matplotlib; Significant savings in time and resources</p>	Dr. Christian Blug, Siemens PTI
9:15 am	<p><b>Selected features for the Protection Simulation</b>                      Learn about select features for Protection Simulation</p>	Ulrike Sachs, Product Manager for PSS@SINCAL, Siemens PTI
10:00 am	<p><b>Example for an Arc Flash Study within PSS@SINCAL</b>                      Learn about the need, the concept and the studies were completed using PSS@SINCAL</p>	Turhan Turker, Siemens Turkey
10:30 am	Break	
11:00 pm	<p><b>The new Arc Flash Standards (IEEE 1584 and NFPA 70E)</b>                      Both standards IEEE 1584 and NFPA 70E have been updated and published in 2018. Within this presentation, you will learn about the implementation and handling of these standards in PSS@SINCAL V15.5.</p>	Mathias Ramold, Project Management Expert, Siemens PTI
12:00 pm	Lunch at the Atlas Hall	
1:00 pm	<p><b>Standard Interfaces to PSS@SINCAL</b>                      Since nowadays the IT systems of an electrical supplier are complex, it is necessary to connect the systems with each-other. PSS@SINCAL standard GIS interfaces help to establish this connection. The installation pack of the latest PSS@SINCAL contains 3 ready-to-use standard GIS interfaces (MIF, ESRI Shape and ESRI ArcMap interface).</p> <p>SincalLib.WEB is a WEB based solution for sharing PSS database and functions with authorized users on intranet or internet. The live presentation will show how the user can load PSS database by address, visualize the loaded network by using base maps (OSM, BING), query object properties by clicking, create additional loads / infeeders, and run Load Flow or Hosting Capacity calculation using SincalLib.WEB.</p>	Robert Vuleta, Managing Director, L&Mark

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**2019 European PSS® User Group Meeting**  
 Agenda at a glance | Wednesday, June 5, 2019



**PSS®SINCAL Platform Session**  
 Meet us in the Cosmos room

Time	Presentation Title	Speaker
1:30 pm	<b>Integrating GIS with Power System Planning</b> Learn how about the latest updates around the integration of Bentley OpenUtilities products and PSS®SINCAL.	Theo van de Ven, Business Development Manager at Bentley (Netherlands)
2:00 pm	<b>New developments around the SINCAL®SPY</b> See a small pilot project.	Sven Koch, Siemens PTI Aleksandr Poluektov, Siemens Russia
2:30 pm	Break	
3:00 pm	<b>New developments and customer “Wish List”</b>	Ulrike Sachs, Product Manager for PSS®SINCAL, Siemens PTI
4:00 pm	<b>Open questions about PSS®SINCAL Platform</b>	Audience and speakers
5:00 pm	<b>Closing of the PSS®SINCAL Platform European UGM</b>	
5:00 pm	Session end	

**Athens Bus Tour and Dinner**  
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5:30 pm – 9:45 pm	Enjoy a relaxing time traveling the Athens City while networking amongst PSS® Community. You’ll see all the city’s highlights and attractions there are to see – the last stop will be the Manhmanh restaurant to enjoy a Greek cuisine buffet with a modern twist! Transportation will be provided – all you need to do is join.
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PSS®SINCAL Platform Workshops Meet us in the Mezzo room		PSS®E / PSS®ODMS Workshops Meet us in the Cosmos room
Time	Workshop Names and Speakers	Workshop Names and Speaker
8:00 am	Check in, coffee and pastries	Check in, coffee and pastries
8:30 am	<p><b>PSS®SINCAL Harmonics Add-on Module Workshop</b>                      Each participant will learn how to work with the enhanced tools for the Harmonics, including resonance networks and network state scans.                      Attendees will learn about the theoretical background and receive instructions how to use these modules in their daily work. Feel free to come to the workshop with any questions you may have related to this topic.</p> <p><b>Workshop leader</b>                      Ulrike Sachs, Product Manager for PSS®SINCAL, Siemens PTI</p> <p><b>Workshop requirements</b>                      Bring your company laptop with PSS®SINCAL V15.5 installed. To request a temporary file, contact katja.audring@siemens.com</p>	<p><b>PSS®ODMS CGMES Interactive Technical Workshop</b>                      This workshop will include an open forum for detailed discussion and demonstrations best practices and issues related to CGMES model assembly and data exchange using PSS®ODMS, geared towards TYNDP and CGM workflows. Attendees will participate in live interactive software demonstrations.</p> <p><b>Workshop leader</b>                      Sam Phillipson, Solution Architect, Siemens PTI &amp; Martin Mangold, Product Manager for PSS®ODMS and PSS®MOD, Siemens PTI</p> <p><b>Workshop requirements</b>                      Bring your company laptop with PSS®ODMS pre-installed along with data and any desired supporting materials for topics of interest/discussion</p>
10:00 am	Break	Break
10:30 am	<b>Continued</b>	<b>Continued</b>
12:00 pm	Lunch at the Atlas Hall	Lunch at the Atlas Hall
1:00 pm	<p><b>PSS®SINCAL Automation Add-on Modules Workshop</b>                      Introduction to PSS®SINCAL environment:                      • Data model in Data Base, libraries, etc.                      • Various data structures for exchange                      Integration of PSS®SINCAL components:                      • Technical concept                      • Introduction to COM-Servers and available                      • Functions of PSS®SINCAL                      GUI Automation:                      • Activate and update the network model                      • Automation of specific workflows in the GUI                      Simulation Automation:                      • External control of PSS®SINCAL                      • development of external simulation workflow</p> <p><b>Workshop Leader</b>                      Sven Koch, Siemens PTI</p> <p><b>Workshop requirements</b>                      See above.</p>	<p><b>How to take advantage of new and advanced features of PSS®E:</b>                      This interactive workshop will provide an in-depth view and demos of some of the latest features including:</p> <ul style="list-style-type: none"> <li>• Diagram enhancements such as background map visualization, substation diagrams and advance features in diagrams.</li> <li>• Building models for more accurate powerflow using substation node-breaker details</li> <li>• Contingency analysis updates for grid code compliance and taking advantage of a node-breaker model</li> </ul> <p><b>Workshop leader</b>                      Joe Hood, Senior engineer, Siemens PTI, and Greg Mahlum, Senior engineer, Siemens PTI</p> <p><b>Workshop requirements</b>                      Bring your company laptop with PSS®E 34.5 or higher installed. To request a trial license, contact danelle.desormeaux@siemens.com</p>
2:30 pm	Break	Break
3:00 pm	<b>Continued</b>	<b>Continued</b>
5:00 pm	Session end	Session end