



Melbourne, Australia | 13-16 February 2023

2023 Oceania PSS® User Group Meeting

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The annual in-person Oceania PSS® User Group Meeting is happening! Mark your calendars for the opportunity to learn, network, and share with the PSS® Community for the first time in almost three years.

Why attend?

Whether you are a PSS® novice or an experienced user, the UGM will provide you with in-depth knowledge to enhance your everyday work. Over the course of the event, you will have the opportunity to:

- Learn about new & upcoming product enhancements
- Partake in product deep dives and complimentary workshops covering the most relevant topics
- Discuss your questions and product requirements directly with the product developers
- Discover best practices from fellow product users
- Network with peers during two complimentary networking events

Attendee Feedback from the last in person UGM in 2019

*"I enjoyed meeting **other users and exchanging knowledge**"*

*"It was a great platform to **learn about the latest software improvements**, and see how PSS®E is solving user challenges"*

*"The whole conference was **relevant and informative**" -*

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Agenda

February 13	6:00 PM – 9:00 PM	Welcome Reception, and Registration
February 14	8:30 AM – 10:30 AM 11:00 AM – 5:00 PM 11:00 AM – 5:00 PM 6:00 PM – 9:00 PM	Plenary Session PSS®E Track PSS®SINCAL Track Special Event
February 15	8:30 AM – 12:30 PM 1:30 PM – 5:00 PM 8:30 AM – 12:30 PM 1:30 PM – 5:00 PM	PSS®E Track – cont'd PSS®E Workshop 1 (Renewables) PSS®SINCAL Track – cont'd PSS®SINCAL Workshop 1 (Protection)
February 16	8:30 AM – 12:30 PM 1:30 PM – 5:00 PM 8:30 AM – 12:30 PM 1:30 PM – 3:30 PM 3:30 PM – 5:00 PM	PSS®E Track – cont'd PSS®E Workshop 2 (Load Modeling) PSS®SINCAL Track – cont'd PSS®SINCAL Workshop 2 (TDA Module) PSS®SINCAL Workshop 3 (Revisited Contingency Analysis Module)

February 13 | 6:00 PM – 9:00 PM | Meet us in the Lake 2/3/4 Room

Welcome Reception and Registration		
6:00 PM	9:00 PM <small>*end time is subject to change</small>	Welcome Reception Join us at this interactive yet informal event and get an opportunity to meet and greet your fellow users and PSS® Product Team at the hotel.

February 14 | 8:00 AM – 10:30 AM | Meet us in the Lake 2/3/4 Room

PSS® Plenary Session

Time	Abstract	Speakers
8:00 AM	Registration, coffee and networking Get a chance to roam around with a cup of coffee and connect with your fellow users before starting of the event.	
9:00 AM	Welcome and Introduction to PSS® User Group Meeting Welcome back to meet the PSS® team and community in-person! During this session, you will learn what is in store for the next two days, meet the PSS® team and more.	Jose Moreira, Head of Grid Software, Australia
9:30 AM	Speed Networking: Meet your fellow peers Take a few minutes to meet new fellow PSS® Users.	Audience Participation
10:00 AM	What's new in the PSS® Portfolio Don't miss this exciting session! You will get to learn about the latest development around the PSS® Portfolio, including the introduction to our Grid Software design principles.	Jose Moreira, Head of Grid Software, Australia
10:30 AM	Morning Coffee Break and split into dedicated PSS® Sessions	

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PSS®E Track

Time	Abstract	Speakers
11:00 AM	PSS®E Core Enhancements and Deep Dives Learn about the most recent development highlights to the PSS®E Core Functionality (up to v35.4) including RAWX, Node-Breaker, Contingency Analysis and Plotting. Also have a look at what is upcoming (v36.0). View demonstrations and discuss.	Amar Patel, Product Manager Greg Mahlum, Senior Engineer Jay Senthil, Senior Engineer
12:30 PM	Lunch	
1:30 PM	PSS®E Core Enhancements and Deep Dives (con't)	
2:30 PM	PSS®E Automation and Scripting Learn about best practices for PSS®E automation and scripting including commonly asked questions.	Amar Patel, Product Manager Greg Mahlum, Senior Engineer Jay Senthil, Senior Engineer
3:00 PM	Afternoon Coffee Break	
3:30 PM	New Time Series Power Flow Add-on Module Deep-dive into the new Time Series Power Flow module. This new module automates the analysis of consecutive calculations which consider multiple time-points.	Amar Patel, Product Manager Greg Mahlum, Senior Engineer Jay Senthil, Senior Engineer
4:15 PM	New Harmonics Add-on Module Deep-dive into the new Harmonics module. With this new module, you can easily determine and compare harmonics distortion levels to industry standards.	Amar Patel, Product Manager Greg Mahlum, Senior Engineer Jay Senthil, Senior Engineer
5:00 PM	End of Day 1	
Evening Dinner		
6:00 PM	9:00 PM *end time is subject to change	Join us for a night of networking Enjoy a relaxing Dinner while networking with the PSS® Community.

February 15 | 8:30 AM – 5:00 PM | Meet us in the Lake 2/3/4 Room

PSS®E Track / Workshop

Time	Abstract	Speakers
8:30 AM	Registration, coffee and networking Get a chance to roam around with a cup of coffee and connect with your fellow users before starting of the event.	
9:00 AM	PSS®E Dynamics Updates During this session, you will learn about the latest developments with the Dynamics module.	Amar Patel, Product Manager Greg Mahlum, Senior Engineer Jay Senthil, Senior Engineer
10:00 AM	PSS®E v36 series Preview: Future of UDM During this session, we will take a deep-dive into the future of user defined dynamics models .	Amar Patel, Product Manager Greg Mahlum, Senior Engineer Jay Senthil, Senior Engineer
10:30 AM	Morning Coffee Break	
11:00 AM	User Presentation by TNB Power system dynamic could be more complex compared with steady state in terms of execution and result analysis. PSS®E dynamic tool pack is developed based on Phyton to expedite and ease the dynamic simulation execution, result screening against limits and visualization.	Maryam Farhana binti Zaina Senior Engineer of TNB, Malaysia Wong Yow Kee Senior Engineer of TNB, Malaysia
11:45 AM	User Presentation by University of Queensland In this presentation, we will present two parts of our PSSE simulation activities, teaching and research. In the teaching part, we will present our experience on integrating PSSE and Python automation into our undergraduate and master courses – ELEC4310 Power Systems Analysis and ELEC7313 Renewable Energy Integration. We will show how we are integrating PSSE and Python to our teaching in these two courses and demonstrate the teaching modules developed for these courses. In general, students have provided positive feedback regarding the usage of PSSE as it is an industry software and it increases the job-readiness for students. In the research part, we will present the PSSE study we performed for a current Advance Queensland project regarding powering Queensland to 50% renewables in 2030.	Dr Phuong Nguyen, Postdoctoral researcher at University of Queensland
12:30 PM	Lunch	
1:30 PM	Renewables - Complimentary Workshop 1 In this session, we will take a deep dive into all things PSS®E renewables in power flow, short circuits and dynamics including modeling, use cases, and demonstrations. Users will have an opportunity to share their thoughts, experiences, and feedback about the industry trends and anticipated product development needs.	Amar Patel, Product Manager Greg Mahlum, Senior Engineer Jay Senthil, Senior Engineer
3:00 PM	Afternoon Coffee Break	
3:30 PM	Workshop 1 continued	
5:00 PM	End of Day 2	

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PSS®E Track / Workshop

Time	Abstract	Speakers
8:30 AM	Registration, coffee and networking Get a chance to roam around with a cup of coffee and connect with your fellow users before starting of the event.	
9:00 AM	PSS®E v36 series Preview: User Experience During this session, we will provide a sneak peak at some user experience updates including study projects, the updater program, data model updates and the metamodel.	Amar Patel, Product Manager Greg Mahlum, Senior Engineer Jay Senthil, Senior Engineer
10:30 AM	Morning Coffee Break	
11:00 AM	PSS®E Users Choice: Q&A and Open Discussion Join us as we close out the event with an open forum and feedback session. This is your chance to bring up your most pressing questions to the PSS® Team. Any topics not covered throughout the event, will be covered here.	All and PSS®E team
12:30 PM	Lunch	
1:30 PM	Load Modeling - Complimentary Workshop 2 In this session, we will take a deep dive into power flow and dynamic modeling of loads in PSS®E. We will discuss the different load models starting from the most basic (ZIP) model to the most recent (composite load) model in PSS®E. We will also share with you the industry requirements for modularizing the various components of the composite load model and where PSS®E is on this next major round of development effort.	Amar Patel, Product Manager Greg Mahlum, Senior Engineer Jay Senthil, Senior Engineer
3:00 PM	Afternoon Coffee Break	
3:30 PM	Workshop 2 continued	
5:00 PM	End of Day 3	

February 14 | 11:00 AM – 5:00 PM | Meet us in the Park Room

PSS®SINCAL Track

Time	Abstract	Speakers
11:00 AM	Welcome and PSS®SINCAL Team Introduction Introduction of users and PSS®SINCAL product team. Let us know your expectations.	Mathias Ramold PSS®SINCAL Product Manager and Team
11:30 AM	What's new in PSS®SINCAL version 18.5 and 19.0 During this session, the product team provides an overview of the major changes, presents and demonstrates improvements and new functionalities of the current and the previous release.	Mathias Ramold PSS®SINCAL Product Manager
12:30 PM	Lunch	
1:30 PM	Continue: What's new in PSS®SINCAL version 18.5 and 19.0 The product team presents and demonstrates further improvements and new functionalities of the current and the previous release.	Mathias Ramold PSS®SINCAL Product Manager
3:00 PM	Afternoon Coffee Break	
3:30 PM	New Thermal Destruction Analysis Module (TDA) Get an introduction and demonstration to the new module and its key features. The module enables network planners to fully automate thermal destruction analysis based on short-circuit calculations or, for the protection engineer, based on the protection concept including the highly detailed setting parameters.	Christian Grosskinsky PSS®SINCAL Product Owner
4:15 PM	Power Quality Analysis Capability in PSS®SINCAL as per AEMO Requirements (NER Clause: S5.2.5.2)	Hemant Parkash & Yugal Kishore Siemens PTI Consulting, Australia
5:00 PM	End of Day 1	



Evening Dinner		
6:00 PM	9:00 PM *end time is subject to change	Join us for a night of networking Enjoy a relaxing Dinner while networking with the PSS® Community.

February 15 | 8:30 AM – 5:00 PM | Meet us in the Park Room

PSS®SINCAL Track / Workshop



Time	Abstract	Speakers
8:30 AM	Registration, Coffee and Networking Get a chance to roam around with a cup of coffee and connect with your fellow users before starting of the event.	
9:00 AM	Extensions in the Protection Functions In this session, we will have a look at the new developments and extensions of protection functionality in versions 19.0 and 18.5.	Christian Grosskinsky PSS®SINCAL Product Owner
10:30 PM	Morning Coffee Break	
11:00 AM	Dynamic Voltage Support Converters do neither behave like synchronous generators nor like constant current source during short circuits in electrical grids. PSS®SINCAL offers a voltage depending short circuit current contribution of converter driven plants (incl. live demonstration)	Christian Grosskinsky PSS®SINCAL Product Owner
11:45 AM	Calculating realistic Distribution Loss Factors (DLFs) with PSS®SINCAL Older DLF calculation methodologies were designed before large numbers of renewable energy connections. Two way network flows now mean that time series calculations are required to adequately model DLFs. This presentation shows why this is necessary, and demonstrates how realistic DLF values can be calculated in PSS®SINCAL.	Craig Owens Technical Director, Energy Mott MacDonald
12:30 PM	Lunch	
1:30 PM	Protection - Complimentary Workshop 1 This workshop will introduce protection within PSS®SINCAL. Starting from how to insert a protection device, over creation of grading diagram to protection simulation and closing with protection security assessment. <i>Technical Requirements</i> To actively participate please bring your laptop with PSS®SINCAL version 19.0 installed. We will work with Xplore license (already included in version 19.0). In case you do not have 19.0 installer, please request installer from support.sincal.it@siemens.com (only by active M&S contract) or request Xplore trial from website (1 week before).	Christian Grosskinsky PSS®SINCAL Product Owner
3:00 PM	Afternoon Coffee Break	
3:30 PM	Workshop 1 continued	
5:00 PM	End of Day 2	

February 16 | 8:30 AM – 5:00 PM | Meet us in the Park Room

PSS®SINCAL Track / Workshop

Time	Abstract	Speakers
8:30 AM	Registration, Coffee and Networking Get a chance to roam around with a cup of coffee and connect with your fellow users before starting of the event.	
9:00 AM	Meter Data in Time Series Simulation Learn how to leverage time series data (e.g. meter or forecast data, switching states) in grid simulation for planning and operational planning tasks. Deep-dive into the use case of integrating meter data into simulation, result visualization, and how to reduce technical losses.	Mathias Ramold PSS®SINCAL Product Manager
10:00 AM	Preview: Revisited and Enhanced Module Optimal Branching We would like to present you the revisited module Optimal Branching (Release in 19.5) with its new workflow and algorithm. Get a preview and feel free to provide us feedback.	Christian Grosskinsky PSS®SINCAL Product Owner
10:30 AM	Morning Coffee Break	
11:00 AM	PSS® Ideas Portal and PSS®SINCAL Xplore Learn about the PSS® Ideas Portal and how can you use it to influence future developments. In addition, learn about PSS®SINCAL Xplore and how you can leverage it!	Mathias Ramold PSS®SINCAL Product Manager
11:30 AM	Users Choice: Q&A and Open Discussion Join us as we close out the event sessions with an open forum and feedback session. This is your chance to bring up your most pressing questions to the PSS® Team. Any topics not covered throughout the event, will be covered here.	All and PSS®SINCAL Team
12:30 PM	Lunch	
1:30 PM	TDA module - Complimentary Workshop 2 In order to check the short circuit capability of the equipment in the network we set a new standard with the thermal destruction analysis. We will introduce you this highly automated approach step by step in this workshop. <i>Technical Requirements</i> To actively participate please bring your laptop with PSS®SINCAL version 19.0 installed. We will work with Xplore license (already included in version 19.0). In case you do not have 19.0 installer, please request installer from support.sincal.it@siemens.com (only by active M&S contract) or request Xplore trial from website (1 week before).	Christian Grosskinsky PSS®SINCAL Product Owner
3:00 PM	Afternoon Coffee Break	
3:30 PM	Revisited Contingency Analysis Module - Complimentary Workshop 3 We would like to present you the new designed workflow for addressing the future functional requirements for contingency analysis (Release in 19.5) and resupply in your grid planning and operational planning processes. <i>Technical Requirements</i> To actively participate please bring your laptop with PSS®SINCAL version 19.0 installed. We will work with Xplore license (already included in version 19.0). In case you do not have 19.0 installer, please request installer from support.sincal.it@siemens.com (only by active M&S contract) or request Xplore trial from website (1 week before).	Mathias Ramold PSS®SINCAL Product Manager
5:00 PM	End of Day 3	

Have a question?

➤ **Visit the PSS® User Group Meeting website for more information:**
www.siemens.com/pss-ugm

➤ **Questions or Comments? Email us!**
Cheryl.Rocheleau@siemens.com