North America Hybrid PSS® User Group Meeting 2022
Agenda Guidebook

View the schedule, detailed agenda, and register for the sessions you wish to attend!
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Join the PSS® Community for deep-dive presentations, demonstrations, user presentations, panel discussion, networking, and live Q&A.

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UGM Part 1: Virtual Schedule At a Glance

Date	Time	Sessions and Topics (with Breaks)	Learn More and register
Day 1 Tuesday, June 21, 2022	10:00 AM – 4:30 PM (EDT) 9:00 AM – 3:30 PM (CDT) 7:00 AM – 1:30 PM (PDT)	**PSS®E Session** • Roadmap and PSS®E Cloud Introduction and Demonstration • PSS®E Core Enhancements and Dynamic Updates • The new Time Series Flow Add-on Module and Harmonics Add-on Module	→ View detailed agenda → Register
Day 2 Wednesday, June 22, 2022	10:00 AM – 1:30 PM (EDT) 9:00 AM – 12:30 PM (CDT) 7:00 AM – 10:30 PM (PDT)	**PSS® Network Model Management Session** • What's new in the PSS®ODMS 13.0 & PSS®MOD 12.0 • Node breaker migration & short-circuit modeling in PSS®MOD • Deep-dive into PSS®E synchronization with CIM	→ View detailed agenda → Register
Day 2 - Continued Wednesday, June 22, 2022	02:00 PM – 4:30 PM (EDT) 01:00 PM – 3:30 PM (CDT) 11:00 AM – 1:30 PM (PDT)	**PSS®SINCAL Session** • What's in PSS®SINCAL18.0 and 18.5 • New Thermal Destruction Analysis Module (TDA) • Meter Data in Time Series Simulation 👤📍 Guest presentation: Is your distribution power grid infrastructure ready for the proliferation of the EV Charging Stations? Vahraz Zamani at Siemens PTI	→ View detailed agenda → Register

Part 1 (Virtual)

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UGM Part 2: In-Person Schedule At a Glance

Date	Time	Sessions (With Breaks)	Learn more and register
Day 0 - Monday, June 27, 2022	6:00 PM – 8:00 PM (EDT)	**Welcome Reception** • Join us for this interactive, informal networking event at the hotel	→ View detailed agenda → Register
Day 1 Tuesday, June 28, 2022	8:30 AM – 5:00 PM (EDT)	**Entire PSS® Product Portfolio Sessions (Day 1)** • Registration & welcome to the PSS® User Group Meeting • Speed Networking: Meet your fellow peers • Recap of the Virtual Session (part 1) • What's new in the PSS® Portfolio • PSS®E Renewables Workshop and Discussion 👤📍 User Presentation: Coordinated Design of Master Power Plant Controllers (MPPCs) in Renewable / Hybrid Plants with Different OEM Controls 👤📍 User Presentation and Discussion: Node Breaker Migration • Moderated Session: The impacts on transmission from distribution based on renewables and vice versa • User Forum with the Product Experts: Topic Breakout Groups	→ View detailed agenda → Register
	6:00 PM – 9:00 PM (EDT)	**Complimentary Special Event** • Enjoy a relaxing night out on the town with the PSS® Community	
Day 2 Wednesday, June 29, 2022	8:30 AM – 5:00 PM (EDT)	**Entire PSS® Product Portfolio Sessions (Day 2)** • Pre-event coffee + networking • Open discussion: Short Circuit Data • Network Data Validation 👤📍 CIM Case Study and Why to use CIM as an in-house standard? • Presentation and Discussion: Cloud for unlocking new grid planning use cases • Networking & Discussion with Peers • Users Choice: Deep Dive Voted Topics and Open Discussion	→ View detailed agenda → Register

Part 2 (In-person)

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Meet the Siemens PSS® Team

Dominic Kohler
Head of Product Management for PSS®

Amar Patel
PSS®E Product Manager

Feng Dong
Senior Engineer

Joe Hood
Senior Engineer

Greg Mahlum
Senior Engineer

Krishnat Patil
Senior Engineer

Jay Senthil
Senior Engineer

Derek Lane
Cloud Simulation Expert

Kristin Short
Senior Engineer

Cameron Schermerhorn
Senior Engineer

Martin Mangold
PSS®ODMS/ PSS ® MOD Product Manager

Mike Ward
Senior Engineer

Ravi Mantha
Senior Engineer

Aaron Schlanser
Senior Engineer

Connie Li
Software Developer

Mathias Ramold
PSS®SINCAL Product Manager

Christian Grosskinsky
PSS®SINCAL Product Owner

Kaspar Hitzelberger
PSS®SINCAL Product Owner

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Meet the PSS® Guest and User Presenters! 👤📍

PSS®SINCAL - Virtual Session

Vahraz Zamani
Portfolio Consulting Manager at Siemens PTI

PSS®E Virtual UGM

John Skeath
Engineer II, BPS Security and Grid Transformation at North American Electric Reliability Corporation (NERC)

PSS®E In-person UGM

Tamojit Chakraborty
Senior Engineer at Electric Power Engineers (EPE)

PSS®E In-person UGM

Eric Meier
Supervisor - Model Administration at ERCOT

PSS® In-person UGM

Nan Xue
Research Scientist at Siemens Technology

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Agenda: Virtual Event – Part 1

At a glance view

- Tuesday, June 21: PSS®E Session from
  10 AM - 4:30 PM EDT / 9 AM - 3:30 PM CDT / 7 AM - 1:30 PM PDT

- Wednesday, June 22: PSS® Network Model Management and PSS®SINCAL Sessions from
  10 AM - 4:30 PM EDT / 9 AM - 3:30 PM CDT / 7 AM - 1:30 PM PDT

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Virtual Event (Day 1): PSS®E Session
Tuesday, June 21, 2022

Start time	End time	Topic and Abstracts	Speakers
10:00 AM (EDT) | 9:00 AM (CDT) | 7:00 AM (PDT)	10:30 AM (EDT) | 9:30 AM (CDT) | 7:30 AM (PDT)	**Welcome and PSS®E Team Introduction** **User Presenter:** **NERC Keynote Introduction** The changing grid landscape warrants an investigation into software improvements to capture the variety of new opportunities. Further, grid reliability needs to be maintained throughout each step of this transition. Software improvements we will hear today make this a possibility	• PSS®E Team John Skeath, Engineer II, BPS Security and Grid Transformation, at North American Electric Reliability Corporation (NERC)
10:30 AM (EDT) | 9:30 AM (CDT) | 7:30 AM (PDT)	11:00 AM (EDT) | 10:00 AM (CDT) | 8:00 AM (PDT)	**PSS®E Roadmap and PSS®E Cloud Introduction and Demonstration** During this session, you will hear about the upcoming roadmap and learn how you can unlock three industry-critical use cases with PSS®E Cloud scalable computation power, secure collaboration, and flexible remote working.	• Amar Patel, PSS®E Product Manager • Derek Lane, Cloud Simulation Expert
11:00 AM (EDT) | 10:00 AM (CDT) | 8:00 AM (PDT)	12:00 PM (EDT) | 11:00 AM (CDT) | 9:00 AM (PDT)	**PSS®E Core Enhancements and deep dive** During this session, you will learn about the highlights of the most recent developments to the PSS®E Core Functionality (up to v35.4) and look at what is upcoming (v36.0).	• Amar Patel, PSS®E Product Manager • Joseph Hood, Senior Engineer • Gregory Mahlum, Senior Engineer • Kristin Short, Senior Engineer
12:00 PM (EDT) | 11:00 AM (CDT) | 9:00 AM (PDT)	12:30 PM (EDT) | 11:30 AM (CDT) | 9:30 AM (PDT)	Break Time	
12:30 PM (EDT) | 11:30 AM (CDT) | 9:30 AM (PDT)	1:30 PM (EDT) | 12:30 PM (CDT) | 10:30 AM (PDT)	**PSS®E Time Series Flow Add-on Module** During this session, we will take a deep-dive into the new Time Series Power Flow module. This new module automates the analysis of consecutive calculations which consider multiple time-points.	• Joseph Hood, Senior Engineer • Feng Dong, Senior Engineer

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Virtual Event (Day 1): PSS®E Session - continued
Tuesday, June 21, 2022

Start time	End time	Topic and Abstracts	Speakers
1:30 PM (EDT) | 12:30 PM (CDT) | 10:30 AM (PDT)	2:30 PM (EDT) | 1:30 PM (CDT) | 11:30 AM (PDT)	**PSS®E Harmonics Add-on Module** During this session, we will take a deep-dive into the new Harmonics module. With this new module, you can easily determine and compare harmonics distortion levels to industry standards.	• Krishnat Patil, Senior Engineer • Gregory Mahlum, Senior Engineer
2:30 PM (EDT) | 1:30 PM (CDT) | 11:30 AM (PDT)	3:00 PM (EDT) | 2:00 PM (CDT) | 12:00 PM (PDT)	Break Time	
3:00 PM (EDT) | 2:00 PM (CDT) | 12:00 PM (PDT)	4:00 PM (EDT) | 3:00 PM (CDT) | 1:00 PM (PDT)	**PSS®E Dynamics Updates** During this session, you will learn about the latest developments with the Dynamics module.	• Jay Senthil, Senior Engineer • Oguzhan Ustundag, Senior Engineer
4:00 PM (EDT) | 3:00 PM (CDT) | 1:00 PM (PDT)	4:30 PM (EDT) | 3:30 PM (CDT) | 1:30 PM (PDT)	**Open Q&A / User Forum** We will close the day with an open discussion led our users. Thank you for joining!	

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Virtual Event (Day 2): PSS® Network Model Management
Wednesday, June 22, 2022

Start time	End time	Topic and Abstracts	Speakers
10:00 AM (EDT) | 9:00 AM (CDT) | 7:00 AM (PDT)	10:10 AM (EDT) | 9:10 AM (CDT) | 7:10 AM (PDT)	**Welcome and PSS® Network Model Management Team Introduction**	
10:10 AM (EDT) | 9:10 AM (CDT) | 7:10 AM (PDT)	11:00 AM (EDT) | 10:00 AM (CDT) | 8:00 AM (PDT)	**PSS®MOD 12.0 release highlights and updates** This session will focus on the latest MOD release. This is the newest version of PSS®MOD with some additional functionalities we are going to demonstrate in this session	• Mike Ward, Senior Engineer • Ravi Mantha, Senior Engineer • Aaron Schlanser, Senior Engineer • Martin Mangold, PSS® NMM Product Manager
11:00 AM (EDT) | 10:00 AM (CDT) | 8:00 AM (PDT)	11:30 AM (EDT) | 10:30 AM (CDT) | 8:30 AM (PDT)	**Workflow to migrate from Bus Branch model to Node Breaker** During this session, we are going to present the intendent workflow of how to migrate from bus branch to node breaker and how to maintain a node breaker model using PSS®MOD	• Speakers continued.
11:30 AM (EDT) | 10:30 AM (CDT) | 8:30 AM (PDT)	12:00 PM (EDT) | 11:00 AM (CDT) | 9:00 AM (PDT)	**How to use short circuit modelling in PSS®MOD** This part will focus on the short circuit modelling using PSS®MOD. Siemens will present how to use MOD File Builder and PSS®MOD to manage short-circuit information in the MOD workflow.	• Speakers continued.

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Virtual Event (Day 2): PSS® Network Model Management – continued
Wednesday, June 22, 2022

Start time	End time	Topic and Abstracts	Speakers
12:00 PM (EDT) | 11:00 AM (CDT) | 9:00 AM (PDT)	12:30 PM (EDT) | 11:30 AM (CDT) | 9:30 AM (PDT)	Break Time	
12:30 PM (EDT) | 11:30 AM (CDT) | 9:30 AM (PDT)	1:00 PM (EDT) | 12:00 PM (CDT) | 10:00 AM (PDT)	**PSS®ODMS 13.0 release highlights** During this session you will learn the latest and greatest enhancements from the release 13.0. This will also give a brief introduction into the latest IEC CIM standard	• Martin Mangold, PSS® NMM Product Manager • Connie Li, Software Developer
1:00 PM (EDT) | 12:00 PM (CDT) | 10:00 AM (PDT)	1:30 PM (EDT) | 12:30 PM (CDT) | 10:30 AM (PDT)	**Deep-dive: PSS®E synchronization with CIM** In this deep-dive, we will focus on the interoperability between PSS®ODMS and PSS®E to synchronize a planning model with the operation model; incl. Some real life examples.	• Martin Mangold, PSS® NMM Product Manager • Connie Li, Software Developer
1:30 PM (EDT) | 12:30 PM (CDT) | 10:30 AM (PDT)	2:00 PM (EDT) | 1:30 PM (CDT) | 11:30 AM (PDT)	Break Time	

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Virtual Event (Day 2): PSS®SINCAL Sessions
Wednesday, June 22, 2022

PSS®UGM

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Start time	End time	Topic and Abstracts	Speakers
2:00 PM (EDT) | 1:00 PM (CDT) | 11:00 AM (PDT)	2:55 PM (EDT) | 1:55 PM (CDT) | 11:55 PM (PDT)	**What's new? Highlights in PSS®SINCAL version 18.0 and 18.5** Welcome and introduction from the PSS®SINCAL team. During this session, you will hear an overview of the major changes, improvements and new functionalities of the current and the previous release 18.0 & 18.5.	• Mathias Ramold, PSS®SINCAL Product Manager
2:55 PM (EDT) | 1:55 PM (CDT) | 11:55 AM (PDT)	3:20 PM (EDT) | 2:20 PM (CDT) | 12:20 PM (PDT)	**New Thermal Destruction Analysis Module (TDA)** Fully automated thermal destruction analysis based on short-circuit calculations for the network planner or based on the protection concept including the highly detailed setting parameters for the protection engineer. The PSS®SINCAL team will provide an introduction and a demo of this module and its key features.	• Christian Grosskinsky, PSS®SINCAL Product Owner
3:20 PM (EDT) | 2:20 PM (CDT) | 12:20 PM (PDT)	3:45 PM (EDT) | 2:45 PM (CDT) | 12:45 PM (PDT)	**Meter data in Time Series simulation** The aligned toolchain of modules allows the leverage of time series data (e.g. meter or forecast data, switching states) in grid simulation for planning and operational planning tasks. The PSS®SINCAL team will provide an introduction and a deep-dive into the use case of integrating meter data into simulation, result visualization and how to reduce technical losses.	• Kaspar Hitzelberger, PSS®SINCAL Product Owner
3:45 PM (EDT) | 2:45 PM (CDT) | 12:45 PM (PDT)	4:30 PM (EDT) | 2:30 PM (CDT) | 1:30 PM (PDT)	**Guest presenter: Is your distribution power grid infrastructure ready for the proliferation of the EV Charging Stations?** In this session, the impact of the EV charging stations' proliferation on distribution systems will be investigated. Practical solution platforms will be proposed to identify the bottlenecks of the distribution feeders to host appropriate levels of new coming EV charging stations. The result of the real-world case will be presented and discussed.	Vahraz Zamani, Siemens PTI, Portfolio Consulting Manager
4:30 PM (EDT) | 3:30 PM (CDT) | 1:30 PM (PDT)		**Closing of PSS® Network Model Management and PSS®SINCAL Sessions**	

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Agenda: In-person Event – Part 2

At a glance view

- Monday, June 27: Welcome Reception from 6 PM - 8 PM EDT
- Tuesday, June 28: Full PSS® Product Portfolio Sessions (Day 1) from 8:30 AM - 5 PM EDT
- Tuesday, June 28 (evening): Special Event from 6 PM - 9 PM EDT
- Wednesday, June 29: Full PSS® Product Portfolio Sessions (Day 2) from 8:30 AM - 5 PM EDT

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In-Person Event: Day 1
Monday, June 27, 2022 & Tuesday, June 28, 2022

Monday, June 27, 2022

Start Time (EDT)	End Time (EDT)	Join us at the welcome reception in the Breeze Way (main floor)
6:00 PM	8:00 PM	**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.

Tuesday, June 28, 2022

Start time (EDT)	End time (EDT)	Join us for the following sessions in the Z Ocean Meeting Room (main floor)	Speakers
8:30 AM	9:00 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	9:30 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 instore for the next two days, hear about the results of the user voted UGM topics and more.	• Dominic Kohler, Head of Product Management for Power System Simulation Suite and PSS® Team • PSS® Team
9:30 AM	10:00 AM	**Speed Networking: Meet your fellow peers** Take a few minutes to meet new fellow PSS® Users.	Audience Participation
10:00 AM	10:30 AM	**Virtual Session Recap & Discussion** During the virtual session, we deep-dive into many of the new and upcoming enhancements for PSS®E, PSS® NMM, and PSS®SINCAL. Join this session to get a short recap and ask open questions to the PSS® team.	• Amar Patel, PSS®E Product Manager • Martin Mangold PSS® NMM Product Manager • Mathias Ramold, PSS®SINCAL Product Manager
10:30 AM	11:10 AM	**What's new in the PSS® Portfolio** Overview of the latest developments across the PSS® Portfolio.	• Dominic Kohler, Head of Product Management for Power System Simulation Suite
11:00 AM	11:30 AM	Morning Coffee Break	

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In-Person Event: Day 1 - Continued
Tuesday, June 28, 2022

Start time (EDT)	End time (EDT)	Join us for the following sessions in the Z Ocean Meeting Room (main floor)	Speakers
11:30 AM	12:30 PM	**PSS®E Renewables Workshop and Discussion** In this session, we will take a deep dive into all things PSS®E renewables in power flow, short circuit and dynamics including hands-on look at your just released Harmonics and Time Series Power Flow module. Users will have an opportunity to share their thoughts, experiences, and feedback about the industry trends and needs that they see.	• Krishnat Patil, Senior Engineer • Jay Senthil, Senior Engineer • Feng Dong, Senior Engineer
12:30 PM	1:30 PM	Lunch Break	
1:30 PM	2:00 PM	**User Presentation:** **Coordinated Design of Master Power Plant Controllers (MPPCs) in Renewable / Hybrid Plants with Different OEM Controls** This presentation will focus on design and control strategies for Master Power Plant Controllers (MPPC) for hybrid plants. User written dynamic models have been developed the represent the site-specific dynamic response for such plants where models have been tuned to meet grid code requirements. This will include examples of renewable plants across several parts of North America and Australia. This presentation will also focus on benchmarking generic models to OEM user defined models and importance of dedicating time to understand the differences between simulation plots across RMS and EMT platforms.	Tamojit Chakraborty, Senior Engineer at Electric Power Engineers (EPE)
2:00 PM	3:00 PM	**PSS®E Renewables Workshop and Discussion (cont)**	Speakers Continued
3:00 PM	3:30 PM	Afternoon Coffee Break	

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In-Person Event: Day 1 - Continued
Tuesday, June 28, 2022

Start time (EDT)	End time (EDT)	Join us for the following sessions in the Z Ocean Meeting Room (main floor)	Speakers
3:30 PM	4:00 PM	**User Presentation and Discussion: Node Breaker Migration** Learn about ERCOTs experience with the node breaker migration of PSS®E Models. This session will then become an open discussion.	Eric Meier, Supervisor, Model Administration, ERCOT
4:00 PM	4:30 PM	**Moderated Session: The impacts on transmission from distribution based on renewables and vice versa** This moderated session will start with a short interview of the PSS® team and their perspective on the impacts DERs are causing on both the transmission and distribution systems alike. The discussion will then be opened for the audience to voice their opinion and state requirements.	• Amar Patel, PSS®E Product Manager • Martin Mangold PSS® NMM Product Manager • Mathias Ramold, PSS®SINCAL Product Manager
4:30 PM	5:00 PM	**User Forum with the Product Experts: Topic Breakout Groups** During this session, you will get a chance to breakout into groups with the PSS® expert of your choice. Openly discuss the focus topic with your fellow users and the PSS® expert including; challenges, wishes, and question, etc.	Audience Participation
		Join us for a Complimentary Networking Event Outside of the Hotel	
6:00 PM	9:00 PM *end time is subject to change	**Special Event** Enjoy a relaxing night while networking with the PSS® Community. Join us for a group event outside of the hotel. Transportation will be provided. Stay tuned for more information.	N/A

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In-Person Event: Day 2
Wednesday, June 29, 2022

Register Now

Start time (EDT)	End time (EDT)	Join us for the following sessions in the Z Ocean Meeting Room (main floor)	Speakers
8:30 AM	9:00 AM	**Pre-event 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	10:00 AM	**Open discussion: Short Circuit Data** During this interactive session we will discuss short circuit simulation, data handling, and additional information. You will also get a chance to ask questions and share your experience.	• Krishnat Patil, Senior Engineer • Mike Ward, Senior Engineer • Speakers To be Announced
10:00 AM	11:00 AM	**Network Data Validation** During this session, you will view and discuss how static network data can be validated. We will discuss a validation framework example and how rules can be manipulated.	• Martin Mangold PSS® NMM Product Manager • Mike Ward, Senior Engineer
11:00 AM	11:30 AM	Morning Coffee Break	
11:30 AM	12:00 PM	**CIM Case Study** Learn about a real implementation of CIM at one large transmission utilities. You will hear about challenges, implementation process, used software, IT infrastructure and gained benefits out of that implementation.	• Martin Mangold PSS® NMM Product Manager
12:00 PM	12:30 PM	**Why to use CIM as an in-house standard?** In this session we are going to discuss how CIM helps utilities to maintain a common model for multiple domains within a utility and what use cases are being enabled.	• Martin Mangold PSS® NMM Product Manager
12:30 PM	1:30 PM	Lunch Break	

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In-Person Event: Day 2 - Continued
Wednesday, June 29, 2022

Register Now

Start time	End time	Join us for the following sessions in the Z Ocean Meeting Room (main floor)	Speakers
1:30 PM	2:00 PM	**Presentation and Discussion: Cloud for unlocking new grid planning use cases** Hear a variety of perspectives on Cloud for Grid Planning. During this session, we will share a recap of the PSS®E Cloud virtual session and discuss your requirements.	• Amar Patel, PSS®E Product Manager
2:00 PM	2:30 PM	**Guest presentation: Dynamic Performance Optimization for N-1 Secure Operation of Hawai`i Island's Power Systems with 100% Inverter-based Resources** In this presentation, we give an overview of our innovation project with HECO addressing the N-1 security problem of operating a power system with 100% inverter-based resources. We will show the results of this technology on Hawai`i big island system and demonstrate how to leverage Siemens commercial tools to help utilities and operators mitigate the operational challenges with up to 100% inverter-based resources. Presentation is attached.	Nan Xue, Research Scientist at Siemens Technology
2:30 PM	3:00 PM	**Networking & Discussion with Peers** Take a few minutes to discuss learnings and insights with your fellow peers.	• Audience Participation
3:00 PM	3:30 PM	Afternoon Coffee Break	
3:30 PM	5:00 PM	**Users Choice: Deep Dive Voted Topics 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. In addition, prior to the conference, you will get a chance to vote on the topics you are most interested in learning about at the UGM Any topics not covered throughout the event, will be covered here.	• Audience Participation • Entire PSS® Team

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Have a question?

> **Visit the new PSS® User Group Meeting website for more information:**

www.siemens.com/pss-ugm

> **Contact us!**

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