

3rd Annual Conference, Exhibition & Networking Forum



IEC CIM Week 2022

Implementing the Common Information Model to Support the Seamless Integration of Multiple Operational Systems and Flexibility Market Players

5-Day Conference, Exhibition & Networking Forum

Monday 21st to Friday 25th March 2022 | The Lensbury Hotel

Programme Highlights Include:

Strategic Drivers – understanding the regulatory, organisational and business case factors driving the take-up of CIM by utilities, technology suppliers, and system integrators

Implementation Roadmap – establishing a cost-effective roadmap for CIM implementation, validation and certification for internal and external integrations

CIM for Operational Systems – creating a cost-effective CIM profile for use across a wide range of internal operational systems within TSO and DSO organisations

CIM for Flexibility Market – ensuring ease of CIM profile use with a range of external parties and new flexibility market players

CIM Harmonisation – achieving effective CIM interworking with other standards such as IEC 61850 and BIM

CIM Security & Privacy – building in appropriate levels of security and privacy to ensure legal compliance of your data sharing strategy

Event Highlights Include:

Case-Study Programme – hear lessons learnt from 20+ utility implementations of CIM across a wide range of operational systems, flexibility market and critical infrastructure players

Technology Innovation Discussions - understand the CIM integration and verification strategies of key system suppliers committed to supporting interoperability

Roundtable Debates – participate in intimate discussions, where you bring your CIM implementation challenges to the table and benefit from the insights of the entire ecosystem

Solution Zone – the opportunity to technology scout through a focused display of 10+ CIM enabled product and service providers

Facilitated Networking - join the organised onsite networking sessions during refreshment and lunch breaks for direct interaction with participants in an intimate setting

30+ Speakers Including:



Robert Franke
Data Architect
50 Hertz



Jayaprakash Ponraj
Senior Power Network Protection Specialist
TRANSCO



Anna Elgersma
Data Architect
Alliander



Varun Perumalla
Lead Architect Power System
California ISO



Svein Olsen
Enterprise Information Architect
Statnett
IEC TC 57 WGs 13 & 14



Fabien Coutant
Data Governance Project Manager
Enedis



Martin Hviid Nielsen
Digital Advisor,
Energi Norg



Alvaro Marcel Rodriguez
CIM Data Model Senior Specialist
ENTSO-E



Konstantin Gerasimov
Operational Specialist
EPCOR



Gary Ang Chee Kiong
Director
SP Group



Neil Meredith
Lead Solution Architect for Networks
SSE



Daniel Burke
Innovation & Industry Liaison
SSEN



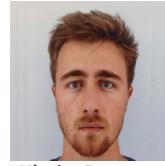
Eduardo Santos
Security & Coordination Engineer
Coreso



Ewan Paton
Control Systems Architect
UK Power Networks



Mohammed Radi
Network Data Modelling Engineer (CIM)
UK Power Networks



Nicolas Buttaro
Performance Data Engineer
EDF Renewables



Miguel Escribano Rodenas
Project Manager, Prediction and Coverage Models
Grupo Red Electrica



Alan McMoran,
Managing Director
Open Grid Systems
IEC TC 57 WGs 13, 14 & 16



Gareth Taylor
Director of the Brunel Interdisciplinary Power Systems
Brunel University London



Olivier Aine,
Standardisation & Interoperability Manager
ENTSO-E

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3rd Annual Conference, Exhibition & Networking Forum

Dear Colleague,

Welcome to the 3rd annual IEC CIM Week 2022 conference, exhibition and networking forum. This year's extended programme draws together utilities, system suppliers and system integrators, for a week-long discussion about the potential of the Common Information Model to support data exchange for internal systems, with external organisations, and new flexibility market players.

Whether you have been studying CIM in theory and are ready to put it into practice, or you have several years of implementation experience behind you, this is the conference that will guide your implementation journey further faster and the community that will support your desired outcomes.

So don't delay! Book your place today and join what is set to be the most technically in-depth and commercially insightful event for the CIM community. The week breaks down into three separately bookable components so you can pick and choose the sections of greatest benefit to you:

Monday 21st March: Fundamentals of CIM Workshop

This in-depth yet comprehensive workshop on the fundamental building blocks of the Common Information Model, will enable you to understand the theory, practical application, and future evolution of the standard in a variety of settings, so that you are fully primed and ready to receive the more complex implementation information that will be imparted in the days that follow.

Tuesday 22nd to Thursday 24th March: Implementation Case-Study Conference & Exhibition

During the course of these three days you will hear from 20+ TSOs and DSOs at the forefront of implementing CIM for a wide range of internal systems, external market players, and other critical infrastructure organisations. You will come away clear on the cost-benefit, able to fine-tune your business plan, ready to re-define your implementation roadmap, and eager to work more collaboratively with your suppliers to integrate CIM for true multi-vendor interoperability.

Friday 25th March: Security & Privacy Seminar

The week wraps up with a deep-dive into the security, privacy and confidentiality issues relating to CIM. In this briefing, CIM project leaders get a thorough overview of the threat landscape and what it means of having open data initiatives, both from an internal integration viewpoint as well as in relation to data exchange with other critical infrastructure organisations and new flexibility market players. You will come away with exponentially greater awareness of the security and privacy concerns, able to understand the language of your cybersecurity colleagues, and primed for more productive and constructive internal and external collaborations, that will lead to greater privacy and confidentiality compliant ways in your increasing data sharing endeavours.

We look forward to welcoming you to The Lensbury Hotel in March 2022.

Kind Regards,



Mandana White
CEO | Smart Grid Forums

Pre-Conference Workshop

Fundamentals of CIM

Monday 21st March 2022

The CIM series of standards are designed to support the integration of a wide range of internal systems, integration of the utility with other critical infrastructure organisations, and with a host of new flexibility market players. Understanding the implementation implications of the series is often a complex, time consuming, and baffling process for those new to the standard.

In this workshop, participants will get the opportunity to break down the essential building blocks of the standard, understand its optimal application within the utility environment, and get to grips with its current vulnerabilities and future evolution. They will be able to apply the knowledge gained to create an efficient implementation plan tailored to the needs of their organisation, identify new sources of CIM continuous learning and development, and evaluate how they may like to participate in working group activity going forward.

Briefing Agenda:

08:30	Welcome Address and Introduction to the Workshop Agenda Gareth Taylor, Head of Department EEE – Brunel University
09:00	Session 1: CIM Implementation Planning <ul style="list-style-type: none">Identifying the key success criteria when developing a utility implementation planEvaluating the successes, setbacks, and final outcome of an actual implementation project
10:00	Session 2: CIM for the Grid – Transmission <ul style="list-style-type: none">Introduction to IEC 61970 for transmission systemsEvolution of Common grid Model Exchange Standard (CGMES)
11:00	Morning Break
11:30	Session 3: CIM for the Grid – Distribution <ul style="list-style-type: none">Introduction to IEC 61968 for DistributionApplying CIM to the fast evolving distribution environment
12:30	Lunch
13:30	Session 4: CIM for Markets <ul style="list-style-type: none">Introduction to IEC 62325 for Energy Market CommunicationsEvolution of the European style market profile (IEC 62325-503)
14:30	Session 5: Continuous CIM Learning & Development <ul style="list-style-type: none">Knowledge transfer and exchangeInteroperability testing
15:30	Afternoon Break
16:00	Session 6: Contributing to CIM Working Group Activities <ul style="list-style-type: none">Introduction to IEC TC57 working groupsOverview of current IEC TC57 working group activities
17:00	Close of Workshop

Workshop Leader:



Prof Gareth Taylor is the Director of the Brunel Interdisciplinary Power Systems (BIPS) research centre and Head of the Department of Electronic and Electrical Engineering at Brunel University London. He has contributed to over 300 research publications and his current research interests include power system operation, smart grids, renewable energy systems, power system information systems and communications.

He was also project coordinator for a 4.2M euro H2020 Energy project (2017-2020/774500) entitled 'Coordination of Transmission and Distribution data eXchanges for renewables integration in the European marketplace through Advanced, Scalable and Secure ICT Systems and Tools' TDX-ASSIST. The consortium included Brunel University London, EDF R&D, ENTSO-e, EIMV, Fraunhofer IEE, Nester R&D, OFFIS, INESC, ELES, EG, REN and EDPD.

Conference Day One: Tuesday 22nd March

08:00	Registration and refreshments	13:30	CIM for Demand Side – utilising CIM extensions to support effective demand side management of distributed energy resources, electrical vehicles, smart buildings and smart cities <ul style="list-style-type: none"> Understanding the regulatory drivers for CIM adoption in the US power grid sector Determining the developments required within the standard to better support DER integration Applying appropriate extensions to address current gaps in the standard for demand side management Understanding the specific requirements of roof top solar and EV charging Managing equipment and connectivity as well as customer accounts and power generation Supporting more accurate wildfire analysis through CIM implementation
08:20	Welcome address from the Chair		
08:30	Energy Transition – examining the drivers for adopting CIM to facilitate extensive data sharing within the utility organisation, inter-utility, and with a range of new market players <ul style="list-style-type: none"> Understanding Ofgem's framework for driving Open Data to support effective data exchange between DNOs and new market players in the UK Evaluating how CIM take-up among utilities is being stimulated to support the Open Data initiative Determining how data quality and availability are being improved as data scope expands Overcoming the challenges of limited supplier support for CIM in the distribution domain Applying lessons learnt from CIM implementation in the transmission domain to ensure effective implementation and certification Clarifying the roadmap and establishing clear milestones and results <p>Alan McMorran, Director - Open Grid Systems, IEC TC 57 WGs 13, 14 & 16 Alex Walmsley, Senior Manager, Energy Systems Transition – Ofgem Florence Silver, Policy Manager – Ofgem</p>	14:15	Michael Covarrubias , VP of Strategy and Solutions - Xtensible Solutions
09:15	Regulatory Drivers – understanding how European regulation is evolving to boost the take-up of CIM by utilities and technology suppliers to strengthen the CIM ecosystem and market foundations <ul style="list-style-type: none"> Evaluating the extent to which current regulation is driving the market for CIM and how this needs to evolve to ensure more rapid take-up by utilities and suppliers alike Examining ENTSO-E's role in ensuring the take-up of CIM in the transmission domain through the Network Code, Grid Model, and Clean Air package Understanding how CIM extensions are being developed to ensure ease of take-up by utilities and suppliers Reviewing the effectiveness of existing tools to support CIM validation and how these must evolve to better support the end-user experience Determining lessons learnt from recent implementations of CIM in the transmission domain and mapping ENTSO-E priorities for CIM in the next 2-3 years <p>Oliver Aine, Standardisation & Interoperability Manager - ENTSO-E</p>	15:00	CIM for Generation Side – utilising CIM extensions to support effective power generation in a more varied and complex generation ecosystem <ul style="list-style-type: none"> Evaluating the suitability of CIM for centralised and distributed generation assets Determining the extent to which maintenance of different generation equipment can be supported by CIM Overcoming the complexities of supporting the maintenance of specific components Establishing a clear view of operational planning and forecasting from the market, operation and device perspective Achieving full lifecycle of generating unit in a digital manner using CIM including long term planning, procurement, engineering design, asset management, operation planning, back office settlement
10:00	Morning refreshments, networking & exhibition	15:30	Svein Olsen , Enterprise Information Architect, - Statnett, IEC TC 57 WGs 13 & 14
10:30	Utility Business Case Panel – clarifying the business case for CIM and determining the immediate and long-term benefits of committing long term investment in support of extensive CIM deployment <ul style="list-style-type: none"> Identifying the key benefits of adopting CIM as compared with other standards and proprietary approaches to data exchange Determining whether to apply CIM in native form or to extend it for better organisational and stakeholder alignment Establishing a strong foundation for CIM excellence through effective knowledge transfer and internal competence building Ensuring the efficient interworking of internal teams to ensure a consistent and effective approach to CIM implementation Working with suppliers to ensure their timely and effective support for CIM at this critical stage of market evolution <p>Paul Tomson, Lead User, DigSilent Power Factory – National Grid ESO (UK) Varun Perumalla, Lead Architect Power Systems - California ISO (USA) Gary Ang Chee Kiong, Director - SP Group (Singapore)</p>	16:15	Implementation Roadmap – turning vision into practical reality through the effective planning of resource, project milestones and goals for CIM within TSO and DSO organisations <ul style="list-style-type: none"> Mapping the drivers for CIM adoption in terms of achieving data accessibility, reliability, interoperability and scalability through the integration of multiple operational and planning systems Understanding the 3 phases of the implementation roadmap and identifying what must be achieved at each stage to ensure successful project completion Overcoming the challenges associated with data consistency as the organisation transitions through digital transformation Adopting a suitable CIM profile that is fit for purpose in a Low Voltage environment and fully supportive of internal and external interoperability Building in system scalability to support future CIM extensions in a timely manner Inputting into standardisation activity to ensure DSO compatibility of future CIM editions <p>Mohammed Radi, Network Data Modelling Engineer (CIM) - UK Power</p>
11:30	CIM-based Network Model Management – solutions that support utilities in embracing and accelerating the next chapter of the grid evolution <ul style="list-style-type: none"> Evaluating the impacts of grid transformation on traditional network modelling and exchange approaches Identifying emergent needs for cross-department, cross-entity seamless model management and exchange Connecting data silos with CIM from different utility departments; Planning, Operations, Protection, external entities Unlocking single source of truth of the network model for various studies purposes; DER integration Reviewing several real-life implementations of CIM-based network model management at utilities Assessing outlook of industry trends and regulatory requirements pushing for standardization (e.g., CGMES 3.0) <p>Yang Feng, Technical Sales Lead for PSS® Network Model Management - Siemens AG</p>	17:00	Specification – overcoming the complexities of specifying CIM in the procurement of new operational systems and components <ul style="list-style-type: none"> Examining the current framework for CIM specification as defined by the standard Identifying the specification gaps in the standard and how these must be addressed to reduce workload, ensure a cost-efficient process and better align utilities, suppliers and system integrators Determining the effectiveness of current workarounds for the specification process and how these can be incorporated into the standardised process Overcoming the challenges of limited use-cases in areas such as building information and asset management Working toward a more robust framework for specification as CIM deployment gains momentum <p>Muhammad Babar, Consultant Digital Grid Operations – DNV, IEC TC 57 WGs 13, 14 & 16</p>
12:15	Lunch, networking & exhibition	18:00	Roundtable Discussions - during this session the audience breaks out into several smaller working groups, each focused on a specific theme that arose during the day's presentations. Each working group will comprise of representatives of the entire CIM community to ensure a well-rounded and holistic discussion.
		18:30	Roundtable Feedback – during this session each working group leader will provide a 5-min summary back to the wider group, highlighting the issues raised, the solutions discussed, and the recommendations made to take the matter to the next level.
		20:30	Networking Evening Reception - time to relax after an intensive day of presentations and discussion! All participants are invited to join this networking reception where you will have the opportunity to enjoy the company of colleagues from across the European Smart Grid community.
			Close of conference day one

Conference Day Two: Wednesday 23rd March

08:00	Registration and refreshments	
08:20	Welcome address from the Chair	
08:30	Multiple CIM Editions – power system analysis model interoperability for DSO flexibility market <ul style="list-style-type: none">Outlining the project scope and objectives and understanding why data from multiple CIM editions must be utilisedEstablishing a framework for the effective integration and translation of model data to achieve version compatibility and interoperabilityDetermining the tools and techniques applied to support ease of integration and translationEvaluating the benefits of utilising CIM in its most generic form and setting timelines for implementing it on this basis <p>Daniel Burke, Innovation and industry Liaison - SSEN Julio Perez-Olvera, Distribution System Engineer - SSEN</p>	
09:00	Naming Convention – navigating the implementation and operational challenges relating to variations in CIM naming conventions within a system of systems <ul style="list-style-type: none">Clarifying the challenges associated with CIM naming conventions and identifying ways these can be overcome for legacy systems and new applicationsOptimising the testing regime to eliminate the adverse impact of naming convention complexitiesApplying best practice offered by ENTSO-E to solidify CIM data exchange despite naming convention inconsistenciesStriking the balance between naming convention restrictions and flexibility to ensure long term effectivenessEnsuring that meta data is effectively validated at its destination <p>Miguel Escribano Ródenas, Project Manager, Prediction and Coverage Models - Grupo Red Eléctrica</p>	
09:45	Morning refreshments, networking & exhibition	
10:15	Supplier Interoperability Panel – utilising the latest CIM testing tools and techniques to ensure effective conformance testing and validation of CIM integration for a variety of operational systems <p>During this session 3-4 representatives of CIM enabled system suppliers and certification services present their approach to CIM integration within next generation operational systems. You will get the opportunity to understand their CIM enabled product development strategy, how they are interpreting the standard, how they will facilitate multi-vendor interoperability, and how they will ensure the effective testing and certification of their products. This is your opportunity to quiz the tech innovators, identify gaps in their strategies, influence the direction of their product development, and gain insights into the CIM enabled systems being released onto the market in the next 2-3 years.</p> <p>Marellie Akoury, Senior Consultant Digital Grid Operations and Innovation Lead - DNV Yang Feng, Technical Sales Lead for PSS® Network Model Management - Siemens AG Tom Berry, System Architect – Schneider Electric, IEC TC 57 WG 10, 13, 14, 17, & 19 Olivier Aine, Standardisation & Interoperability Manager – ENTSO-E</p>	
11:15	CIM for SCADA-EMS Integration – optimising the implementation of CIM in next generation SCADA-EMS systems integrated with a greater range of internal and external systems <ul style="list-style-type: none">Determining the drivers for adopting CIM for data exchange in next generation SCADA-EMS systemsEvaluating the challenges associated with CIM adoption for internal and external data exchange on a streaming platformOvercoming the complexities of migrating CIM to a physical data modelUtilising CIM to achieve platform stability for maintenance purposes as well as flexibility to meet future requirementsConsiderations of RDF and LPG knowledge graph perspectivesImplementing the CIM Stack of MCCS NextGen to ensure the efficient realisation of project goals <p>Robert Franke, Data Architect - 50 Hertz</p>	
12:00	Lunch, networking & exhibition	
13:30	CIM for SCADA-ADMS Integration – leveraging CIM to support the transfer of high-volume distribution data for internal and external purposes <ul style="list-style-type: none">Evaluating the long-term potential of CIM and how it can serve immediate and longer-term utility needsDetermining the extent to which internal adaptations are required to make CIM fit for purpose in the SCADA-ADMS and GIS environmentsOvercoming the challenges associated with CIM middleware for mapping GIS dataDeveloping internal CIM competence to support the wider utilisation of CIM across multiple systems	
14:15		<ul style="list-style-type: none">Simplifying the CIM model to ensure its optimal multi-system application in a multi-user environmentUtilising CIM documentation to ensure effective trouble shootingEstablishing a single user interface for all CIM applications and users <p>Konstantin Gerasimov, Engineer, Grid Technology & Planning - EPCOR</p>
15:00		<p>CIM for Market Integration – evaluating how the DIGIN programme is facilitating effective data exchange across the power system<ul style="list-style-type: none">Examining the extent of market integration being achieved through CIM in NorwayUnderstanding how the national regulator has assisted in facilitating full market alignment with CIMReviewing the benefits of CIM integration for activities ranging from long term planning to daily planningOptimising the use of CIM whilst building strong internal competence for the long termOvercoming the challenges of connecting a large number of legacy systems containing poor quality dataEnsuring the effective integration of production plants for accurate forecastingRemaining on track with climate goals through CIM utilisation as new technologies such as cloud computing enter the energy sector<p>Martin Hviid Nielsen, Digital Advisor - Energi Norge</p></p>
15:30		<p>Afternoon refreshments, networking & exhibition</p>
16:15		<p>Digital Twin – leveraging digital twin technology to support the development and implementation of a common data framework<ul style="list-style-type: none">Understanding how CIM is being utilised together with digital twin technology to drive the integration of planning, performance, protection and analysis processesDeveloping the business case and gaining management approval and investmentEffectively working with suppliers to specify CIM for a multi-system platform including asset management, analysis and SCADAOvercoming the challenges associated with data availability and acquisitionEvaluating alternative ways to migrate the existing asset management environment to include CIM to BIM compatibilityUtilising the CIM profile for a range of systems whilst maximising accuracy and user take-upWorking effectively with digital twin solutions that are yet to mature for power grid applications<p>Jayaprakash Ponraj, Senior Power Network Protection Specialist - Abu Dhabi Transmission & Despatch Company</p></p>
17:00		<p>CIM for Asset Management – supporting the effective collection, analysis and reporting of high volumes of asset performance data across the power grid<ul style="list-style-type: none">Determining the benefits of creating an information model based on CIM and extending it through different standards to achieve high levels of system connectivityCreating a strong foundation for CIM through the addition of tailored elements to ensure effective data exchange with external partiesOvercoming the challenges of translating HV oriented CIM standard for the MV environmentEffectively modelling resistance in new substation bus bar installationsReviewing the appropriateness of working with roles versus functions when applying CIM to asset managementDetermining how the CIM profile can be applied to a wider range of systems and processesEnsuring system independence and user-friendliness to support extensive take-up across the organisation<p>Anna Elgersma, Data Architect - Alliander</p></p>
17:45		<p>CIM for EV Charging – supporting reliable data exchange between multiple systems to ensure effective EV charging<ul style="list-style-type: none">Understanding the role of the OSGP in supporting the advancement of CIMDetermining the range of systems that must interact and exchange data to support reliable EV chargingEstablishing long term organisation commitment to CIM to ensure a reliable foundation for EV chargingOvercoming the initial challenges related to implementing this complex standard for EV chargingLeveraging external training and support to ensure the smooth implementation of CIM<p>Mark Ossell, Senior VP – Networked Energy Services & Board Member – OSGP Alliance</p></p>
18:00		<p>Closing remarks from the Chair</p>
		<p>Close of conference Day Two</p>

Conference Day Three: Thursday 24th March

08:00	Registration and refreshments	
08:20	Welcome address from the Chair	
08:30	<p>CIM for Protection Systems – facilitating the real-time transfer of power system data to ensure high levels of grid protection in a renewables integrated grid environment</p> <ul style="list-style-type: none"> • Examining the drivers for adopting CIM to enable protection of the power system when integrated with green generation • Working effectively with multiple versions of CIM in different systems and tools • Overcoming the challenges of working with low quality distribution level data for load flow • Establishing a single model to simplify the different system views of the world • Working effectively with software vendors on cost effective CIM integration for next generation systems • Demonstrating how CIM will improve ROI and reduce project timescales <p>Ewan Paton, Control Systems Architect - UK Power Networks</p>	
09:15	<p>CIM for Power System Analysis – ensuring the effective collation and utilisation of a range of power system performance data to support effective system planning and future network development</p> <ul style="list-style-type: none"> • Understanding the scope of the TSO cooperation for CIM implementation • Determining the extent to which CIM will enable reliability of voltage control and computation • Overcoming the challenges of adopting new tools as new files are developed • Managing the complexity of connecting multiple streams of information • Measuring the results in terms of cost and time efficiency gains <p>Eduardo Santos, Security & Coordination Engineer - Coreso</p>	
10:00	Morning refreshments, networking & exhibition	
10:30	<p>CIM for Security Analysis – ensuring security of supply through the effective transfer and analysis of multiple sources of power grid data</p> <ul style="list-style-type: none"> • Determining the drivers for adopting CIM for security analysis to manage overloads and voltage issues • Overcoming the challenges of introducing a more detailed and complex modelling procedure through the adoption of CIM • Working around the limitations of network elements that are not yet modelled in CGMES • Implementing effective validation procedures for remedial actions • Mapping out next stages in developing CIM for security analysis in terms of regional requirements, more detailed modelling, interworking with the grid model <p>Svein Olsen, Enterprise Information Architect – Statnett, IEC TC 57 WGs 13 & 14</p>	
11:15	<p>CIM for Smart Meters – utilising CIM for efficient customer data sharing with a broad range of third parties</p> <ul style="list-style-type: none"> • Understanding how new regulation around the sharing of customer data with external parties is driving the development of the CIM profile for the smart meter domain • Evaluating the benefits of adopting CIM as compared with other approaches to data sharing • Analysing feedback from 2 years' experience of CIM-based API for customer data sharing • Overcoming the technical complexities around applying CIM to legacy systems <p>Fabien Coutant, Data Governance Project Manager – Enedis</p>	
12:00	Lunch refreshments, networking & exhibition	
13:30	<p>CIM for Flexibility Markets – optimising the use of CIM to support data exchange for a rapidly growing flexibility market</p> <ul style="list-style-type: none"> • Determining the level of data sharing required as new flexibility players are introduced into the energy market • Understanding how CIM can enable the joining up of disparate data and making it available in an easy to consume format 	<ul style="list-style-type: none"> • Applying appropriate extensions to support data sharing with the wider market both directly and through brokerage platforms • Applying lessons learnt from the Open Data initiative • Ensuring the security and privacy of data being made widely available <p>Neil Meredith, Lead Solution Architect for Networks - SSE</p> <p>CIM & IEC 61850 – achieving CIM harmonisation with IEC 61850 to support the seamless transfer of data across the end-to-end power grid</p> <ul style="list-style-type: none"> • Leveraging CIM and IEC 61850 for renewable asset management leveraging cross-domain and long-term integration • Developing an efficient implementation plan in accordance with a unified, harmonized, flexible data reference model • Specifying a CIM Based data base for renewable power plant asset description based on standardized model-driven engineering including non-CIM extensions for specialized utility needs <p>Cyril Effantin - EDF R&D Nicolas Buttaro, Performance Data Engineer, EDF Renewables</p>

15:00

Afternoon refreshments, networking & exhibition

15:30

CIM & BIM – interworking CIM and BIM to effectively map the energy landscape onto smart construction

- Defining BIM and evaluating the extent to which CIM and BIM will be required to interwork in the next 2-3 years
- Establishing a business case for CIM and BIM interworking
- Determining the type of data that will need to be exchanged with the construction sector
- Examining the level of information detail that will be required by the construction sector
- Managing the complexities of data exchange between multiple parties in the CIM & BIM exchange
- Aligning the procurement, design, and operations processes through CIM & BIM interworking

Tom Berry, System Architect – **Schneider Electric, IEC TC 57 WGs 10, 13, 14, 17 & 19**

16:15

Future CIM Developments – identifying gaps in the CIM standard and prioritising the areas that will be addressed in the immediate and longer term to better support the energy transition

- Evaluating the new developments with CIM18 as well as the status of CIM17
- Updating on new developments on dynamics IEC 61970-302 and IEC 61970-457
- Ensuring generation assets are better aligned with BIM
- Achieving effective asset management for FATs

Chavdar Ivanov, Managing Director – **GridDigit, IEC TC 57 WGs 13, 14, 16 & 19**

Svein Olsen, Project Manager - **Statnett, IEC TC 57 WGs 13 & 14**

Oliver Aine, Standardisation & Interoperability Manager - **ENTSO-E**

17:00

Closing remarks from the Chair

17:15

Close of conference day three



3rd Annual Conference, Exhibition & Networking Forum

Post-Conference Briefing CIM Security & Privacy

Friday 25th March 2022

Data sharing and integration opportunities come with expected security, privacy and confidentiality concerns. With CIM as an enabler of data structuring, standardisation and wide spread data sharing, how do you ensure the most cybersecure and privacy compliant ways of working? In this briefing, CIM project leaders get a thorough overview of the threat landscape and what it means of having open data initiatives, both from an internal integration viewpoint as well as in relation to data exchange with other critical infrastructure organisations and new flexibility market players.

You will come away with exponentially greater awareness of the security and privacy concerns, able to understand the language of your cybersecurity colleagues, and primed for more productive and constructive internal and external collaborations, that will lead to greater privacy and confidentiality compliant ways in your increasing data sharing endeavours.

Briefing Agenda:

08:30	Welcome address and Introduction to the Briefing Agenda Bas Kruimer , Business Director, Digital Grid Operations - DNV
09:00	Session 1: Threat Landscape - understanding how the power grid threat landscape is evolving and the implications for open data initiatives both internally and with external parties
10:00	Session 2: Data Sharing vulnerabilities - evaluating the information security vulnerabilities related to the implementation of structured data
11:00	Morning Break
11:30	Session 3: NIS Directive - converting regulatory guidance into implementation action for structured data exchange using CIM IEC 61970, IEC 61968, and IEC 62325
12:30	Lunch
13:30	Session 4: Applying IEC 62351 to ensure channel security for internal and external data exchange
14:30	Session 5: Building a culture of collaboration that enables IT, OT and Security colleagues to drive open data initiatives in the most security, privacy, and confidentiality compliant ways
15:30	Afternoon Break
16:00	Session 6: Q&A and Practical Group Exercise
17:00	Close of briefing

Briefing Leader:



Bas Kruimer is passionate about Smart Energy & Intelligent Grid Operations with a strong focus on Security. He focuses on operations, automation and security of utility grids and processes addressing strategic & operational challenges and implementation of the energy transition and renewables integration together with their international team of SCADA, Substation/Distribution Automation and Communication experts & consultants.

Sponsorship and Exhibition Opportunities

Would you like the opportunity to raise your brand profile, demonstrate your products and services, and share your expertise with a highly concentrated and influential group of CIM implementation leaders and specialists?

Our in-person exhibition area provides the perfect opportunity for you to do this and more! Capped at 10 booths, we ensure a focused and relevant display of state-of-the-art CIM-enabled products and services for our audience, and maximum visibility and interaction levels for each of our exhibitors.

To find out more contact us at:

Call: +44 (0)20 8057 1700

Email: registration@smartgrid-forums.com



Venue

The Lensbury Club was first formed in 1920 as the sports and social club for employees of the Dutch petroleum giant Shell. The main buildings that occupied the site from 1920 were demolished and the Clubhouse was completed in 1938 which still stands as the heart of the club to this day, benefitting from the prestigious riverside location at Teddington lock.

Under the ownership of London & Regional Hotels and continued investment, the future of The Lensbury has been secured for generations to come. With ambitions to be the best members club in South West London, The Lensbury stays true to its roots as a family club and their rich sport and social traditions that were formed way back in 1920, but with a renewed vision for a thoroughly modern club and facilities, offering an exceptional experience for members and guests alike.

Location & Website:

Broom Road, Teddington, GB TW11 9NU
<https://www.lensbury.com>

Accommodation:

Details to be confirmed soon

Travel Information:

From London Heathrow - 30 minutes drive

From London Gatwick - 50 minutes drive

From London Waterloo - 50 minutes by public transport

Testimonials from Past Events

"Great opportunity to meet, exchange, discuss and develop ideas concerning CIM."

Ruben Haasjes, Data Consultant - **Alliander**

"CIM 2021 was a conference with high quality speakers, cutting edge topics and organized in an excellent way."

Miguel Escribano Rodenas, Engineer - **RED ELECTRICA DE ESPAÑA**

"The CIM Virtual conference was really good to understand what is happening across Europe with the Common Information Model."

It was a great way to hear about lessons from what others have already experienced and the tool sets used."

Dan Noon, Data and Integration Platform Manager - **ENWL**

"Bringing utilities from across the world together to digitally transform our energy systems."

Jakub Sliva, Asset Data Specialist - **Stedin**

"The conference was a good chance for everyone using or investigating CIM, with a good mix of perspectives such as regulators, utilities, system integrators and vendors, with experienced subject domain experts."

Yang Feng, Project Deployment Manager - **Siemens**

Platinum Sponsor



Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2021, the business had around 70,400 employees worldwide.

Siemens AG (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power

Find out more at <https://www.siemens.com/global/en.html>

Exhibitors



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COPA-DATA is an independent software manufacturer that specializes in digitalization for the manufacturing industry and energy sector. Its zenon® software platform enables users worldwide to automate, manage, monitor, integrate and optimize machines, equipment, buildings and power grids. COPA-DATA combines decades of experience in automation with the potential of digital transformation. In this way, the company supports its customers to achieve their objectives more easily, faster and more efficiently. The family-owned business was founded by Thomas Punzenberger in 1987 in Salzburg, Austria. In 2020, with more than 300 employees worldwide, it generated revenue of EUR 54 million. A sales network of international distributors and 13 subsidiaries ensures that the software is marketed worldwide. More than 300 certified partner companies further support end users with the efficient implementation of the software, particularly in the key industries of food & beverage, energy & infrastructure, automotive and pharmaceutical.

Find out more at www.copadata.com

Booking Form



IEC CIM Week 2022

Implementing the Common Information Model to Support the Seamless Integration of Multiple Operational Systems and Flexibility Market Players

5-Day Conference, Exhibition & Networking Forum
Monday 21st to Friday 25th March 2022 | The Lensbury Hotel

To find out how you can participate as a Delegate, Exhibitor or Sponsor:

Call: +44 (0)20 8057 1700

Email: registration@smartgrid-forums.com

Visit: www.smartgrid-forums.com/iec-cim-week

Venue: <https://www.lensbury.com>

Delegate Pricing & Discounts

	Very Early Bird Rate Until Friday 17th December 2021	Early Bird Rate Until Friday 28th January 2022	Standard Rate After Friday 28th February 2022
5-Day Delegate - Conference + Fundamentals + Security Briefing	£3,695 + VAT @ 20% = £4,434	£4,095 + VAT @ 20% = £4,914	£4,495 + VAT @ 20% = £5,394
4-Day Delegate - Conference + Fundamentals Workshop	£2,895 + VAT @ 20% = £3,474	£3,195 + VAT @ 20% = £3,834	£3,495 + VAT @ 20% = £4,194
4-Day Delegate - Conference + Security Briefing	£2,895 + VAT @ 20% = £3,474	£3,195 + VAT @ 20% = £3,834	£3,495 + VAT @ 20% = £4,194
3-Day Delegate - Main Conference	£2,195 + VAT @ 20% = £2,634	£2,395 + VAT @ 20% = £2,874	£2,595 + VAT @ 20% = £3,114
1-Day Delegate - Fundamentals Workshop	£795 + VAT @ 20% = £954	£895 + VAT @ 20% = £1,074	£995 + VAT @ 20% = £1,194
1-Day Delegate - Security Briefing	£795 + VAT @ 20% = £954	£895 + VAT @ 20% = £1,074	£995 + VAT @ 20% = £1,194
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Terms & Conditions

Payment: for both in-person and virtual event delegate bookings, payment must be made at the time of booking, by credit card or paypal, or within 7 days by invoice and bank transfer, to guarantee your place. For sponsor and exhibitor bookings, the client will be invoiced 100% of the package fee on signature, and this fee must be settled by bank transfer within 7 days or before the first day of the event, whichever falls soonest.

Participant Inclusions: the delegate, exhibitor and sponsor fee for both in-person and virtual events covers attendance of the conference sessions, access to the exhibition area, and receipt of the speaker presentation materials. For in-person events this fee also covers provision of lunch and refreshments during the course of the conference and networking reception. This fee does not cover the cost of flights, hotel rooms, room service or evening meals.

Participant Restrictions: two or more delegates may not 'share' a place at the conference, separate bookings must be made for each delegate. The exhibitor and sponsor benefit structure detailed in the associated order form may not be sub-divided, shared or distributed with any firm other than the signatory of the order form and therefore excludes but is not limited to partners, affiliates, clients, suppliers and associates. Using the conference as a platform to promote competing events is strictly forbidden, and failure to observe this clause will result in attendees being removed from the event without any entitlement to refunded fees or incurred expenses.

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Event Alterations: it may be necessary for us to make alterations to the content, speakers, timing, venue, format or date of the event as compared with the original programme.

Fortuitous Events: Smart Grid Forums Ltd shall assume no liability whatsoever if an event is altered, re-scheduled, postponed or cancelled due to a fortuitous event, unforeseen occurrence or any other event that renders performance of this event inadvisable, illegal, impracticable or impossible. For the purposes of this clause, a fortuitous event shall include, but shall not be limited to: an Act of God; government restriction and/or regulations; war or apparent act of war, terrorism or apparent act of terrorism; civil disorder, and/or riots; curtailment, suspension, and/or restriction or transportation facilities/means of transportation; or any other emergency.

Data Protection: Smart Grid Forums Ltd gathers personal data in accordance with EU GDPR 2016 and we may use this to contact you by post, email, telephone, fax, sms to tell you about other products and services. We may also share your data with carefully selected third parties offering complementary products and services. If you do not wish to receive information about other Smart Grid Forums Ltd events or products from selected third parties, please write to use at: registration@smartgrid-forums.com

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