

Building power grid cyber-resilience through the application of IEC 62443 across the OT asset base

5-Day Conference, Exhibition & Networking Forum
Monday 13th to Friday 17th June 2022 | Edinburgh, UK

Programme Highlights Include:

Regulation – understanding how the regulatory environment is evolving to drive the take-up of IEC 62443 in conjunction with ISO 27001 to meet the cybersecurity demands of power grid OT infrastructure

Business Case – creating a compelling business case to secure long-term investment in IEC 62443 expertise, application and infrastructure development

Framework – breaking down the standard and understanding its components and application for power grid operators, product and solution suppliers, and system integrators

Application – optimising the application of IEC 62443 to key domains such as the substation, control centre, smart meter infrastructure, IIOT, supply chain and more

Testing – developing a rigorous testing regime to ensure ease of certification for IEC 62443 enabled products, solutions and system installations

Upskilling – defining an effective internal training programme to upskill established and new technical staff with IEC 62443 skills and competence

Event Highlights Include:

Case-Study Programme – hear lessons learnt from 20+ utility implementations of IEC 62443 in TSO and DSO organisations across Europe and beyond

Technology Innovation Discussions – understand the IEC 62443 implementation strategies of solution providers and systems integrators

Roundtable Debates – participate in intimate discussions, where you bring your IEC 62443 challenges to the table and benefit from the insights of the whole ecosystem

Solution Zone – technology scout through a focused display of 10+ IEC 62443 enabled product and service providers

Facilitated Networking - join the networking evening reception where you will meet with IEC 62443 leads from across the European utility sector in a relaxed and informal setting

30+ Speakers Including:



Gabriel Faifman
Co-convenor- TC65 WG10
Global Cybersecurity
Architect – Schneider



Jón Elías Þráinsson
CISO
Landsnet



Michael Knuchel
Head of SAS
Engineering
Swissgrid



Michael Ebner
CISO
ENBW



Siv Hilde Houmb
Senior Advisor
Statnett



Tahir Saleem
OT Cybersecurity
Manager
DEWA



Sampo Turunen
Specialist
Secondary Systems
Fingrid Oyj



Deniz Tugcu
Senior OT Cybersecurity
Specialist
Vattenfall



James Cole
Secondary Systems
Manager
Evoenergy



Jan Munkejord
Author & Philosopher
within IACS
Equinor



Cevn Vibert
Senior Cyber
Compliance Manager
Ofgem



Frances Cleveland
Convener
TC57 WG15



Pedro Marin Fernandes
IEC National Committee
Expert Member
TC65 WG10



Samuel Ubido
Information Security Manager,
Operational Technology,
Power Sector, Department of
Computer Science
University of Oxford



Janne Hagen
Special Advisor
Contingency Planning
NVE



Carlos Montes Portela
ISA/IEC-62443 Certified
Trainer
Dicarma Coaching,
Training & Consulting



Pierre Kobes
Consultant for
Industrial Cybersecurity
Dr. Kobes Consulting



Andre Ristaino
Managing Director
ISA



Jens Wiesner
Head of Section
BSI



Christopher Thompson
Enterprise Architect
Operational Technology
SGN

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Conference, Exhibition & Networking Forum

Dear Colleague,

Welcome to the premier IEC 62443 Week 2022 conference, exhibition and networking forum. This series of standards provides power grid operators with a robust framework to manage and mitigate security vulnerabilities in industrial control systems. Implementing IEC 62443 is now everyone's responsibility and must be fully understood and embraced by power grid operators, technology suppliers and system integrators alike, to realise its full benefits.

This week-long event provides power grid cybersecurity leaders with a thorough exploration of IEC 62443 concepts, frameworks and controls with an accurate representation of cybersecurity risk to the operations. This well-balanced programme combines a fundamentals of IEC 62443 workshop, with a utility-driven implementation main conference, and a future focused offensive cybersecurity briefing on day five.

By the end of the week, power grid cybersecurity leaders will be equipped and prepared to adopt IEC 62443 as part of their broader security management system, to work more collaboratively, systematically and cost effectively to minimise their security risks, and to strengthen the defence posture with a more proactive cybersecurity approach.

Monday 13th June – Fundamentals of IEC 62443 Workshop

The week begins with this comprehensive yet in-depth workshop on the fundamental building blocks of IEC 62443. Whether you are new to the subject matter or experienced and in need of a refresher, this is your opportunity to gain all the foundational knowledge you need to make sense of the case-study reviews that follow during the main conference.

Tuesday 14th to Thursday 16th June – Implementation Case-Study Conference & Exhibition

During the 3-day conference and exhibition, grid operators, solution providers and system integrators explore IEC 62443 concepts, frameworks and controls with an accurate representation of the cybersecurity risk to their operations. Case-study reviews are shared of recent applications of the standard in conjunction with ISO 27001 in a wide range of power grid environments.

Friday 17th June – Offensive Cybersecurity Briefing

On the final day of the event this leading-edge briefing provides new insights into how the standard can be leveraged to safely drive offensive cybersecurity strategies in the OT environment.

We look forward to welcoming you to Edinburgh in the UK, in June 2022!

Kind Regards,

Mandana White
CEO | Smart Grid Forums

Workshop Leaders:



Carlos Montes Portela
OT Security Manager & ISA/IEC-62443 Subject Matter Expert & Certified Trainer
Dicarma Coaching, Training & Consulting

Carlos has over 25 years of experience in different roles within the power grid sector: software engineer, technical and functional designer, IT architect, EAI/SOA architect, team leader, senior smart grid innovator and senior OT security officer. Currently, Carlos is an independent coach, trainer and consultant on cybersecurity related topics. As a TOGAF, CISSP and CISM certified OT Security Manager, Carlos is currently contracted by a Dutch DSO where he is responsible for OT ISO-27001 and ISA/IEC-62443 based ISMS. Carlos is a Certified Trainer and Subject Matter Experts for the ISA/IEC62443 training program. Carlos received a B.Sc. degree in Software Engineering and a M.Sc. degree in Business Process Management and IT (cum laude). His master thesis focused on the design space of the ICT architecture of the Smart Grid taking into account security and privacy issues.



Gabriel Faifman
Co-Convener **TC65 WG10**
Global Cybersecurity Architect – **Schneider Electric**

Gabriel Faifman is a highly qualified individual with diverse experience as Director, Manager and Senior Consultant in Information Systems and Network Security on multiple projects within Schneider Electric. He also serves as an expert for the TC65 working group on the IEC 62443-2-4 international standards project. Previously he has held similar positions at GE, Wurldtech, BC Hydro, YVR (Vancouver International Airport), France Telecom, BellSouth, Deloitte & Touche, and Coca Cola Company. Gabriel excels at communication by acting as liaison between the user community and Engineering staff to ensure that products, systems and business processes are adapted to customers' requirement. He speaks multiple languages including English, Spanish, and Portuguese. Gabriel specialises in: Overall Cyber-Security, Audit, Governance Model, System integration, OT, SOA Security, Microservices & IIoT Secure Architecture.

Pre-Conference Workshop

Fundamentals of IEC 62443

Monday 13th June 2022

Workshop Format:

This one-day practical workshop provides both experienced power grid cybersecurity practitioners and those who are new to the profession with an efficient way to learn about the fundamental building blocks of the IEC 62443 series of standards. Participants will obtain knowledge of how the standard can best be applied to the power grid environment. The day starts with an overview of concepts, terminology and models, and goes on to review the application of the different parts of the standard. Through discussions the participants will learn on how IEC 62443 can be used at different stages of the lifecycle of Industrial and Automation Control Systems (IACS) and how knowledge applies to the power grid. The day wraps up with an analysis of how IEC 62443 can be leveraged to strengthen risk management and defence in depth strategies.

The programme consists of a series of speaker-led presentations, group problem solving exercises and discussions, and frequent Q&As. Participation is limited to 30 individuals, to ensure a hands-on interactive learning experience.

Workshop Agenda:

08:30	Welcome address and introduction to the Workshop
	Session 1: Concept – understanding the ISA/IEC 62443-1-1 terminology, concepts and models <ul style="list-style-type: none">Introduction to cybersecurity for Industrial Automation and Control Systems (IACS)Trends in cybersecurity and analysis of cybersecurity incidents in the power grid domainBreaking down the framework and understanding how the concepts and models apply to the power grid environment
10:00	Session 2: Utility Application – establishing an industrial automation and control system security programme (CSMS) <ul style="list-style-type: none">Understanding your risk profile, how it is evolving, and how best to apply IEC 62443 in your environmentDeveloping a CSMS programme that gains management buy-in and can be easily mobilised across the workforce and organisationManaging cybersecurity lifecycles and patch management programmes
11:00	Morning refreshments and networking
11:30	Session 3: Risk Analysis (part 1) – implementing a defence in depth approach to power grid cybersecurity within the framework of IEC 62443 <ul style="list-style-type: none">Usage of IEC-62443 for risk assessment following a step-by-step approach provided in part IEC-62443-3-2Interworking the cybersecurity strategy for IT and OT assetsDetermining the optimal layers of security for different parts of the gridBalancing segmentation and security with operational efficiency
12:30	Lunch and networking
13:30	Session 4: Risk Analysis (part 2) – implementing a defence in depth approach to power grid cybersecurity within the framework of IEC 62443 <ul style="list-style-type: none">Usage of IEC-62443 for risk assessments following a step-by-step approach provided in part IEC-62443-3-2Interworking the cybersecurity strategy for IT and OT assetsDetermining the optimal layers of security for different parts of the gridBalancing segmentation and security with operational efficiency
14:30	Session 5: Supplier Application – developing products and systems that are secure by design through the optimal application of IEC 62443 <ul style="list-style-type: none">Understanding the implications of IEC 62443 for suppliers of power grid products and systemsWorking with lifecycle and patch management constraints of the power grid environmentEnsuring ease of IEC 62443 certification for products and systems
15:30	Afternoon refreshments and networking
16:00	Session 6: System Integrator Application – leveraging IEC 62443 to achieve seamless integration of new products and systems and ease the quality assurance process <ul style="list-style-type: none">Understanding the implications of IEC 62443 for systems integratorsWorking seamlessly with power grid operators and technology suppliers to ensure the seamless interworking of the standardAchieving best practice in system validation to achieve certification
17:00	Close of Workshop

Conference Day One: Tuesday 14th June

08:00	Registration and refreshments	13:30	Evolving Standard – Securing the development of an increasingly diversified and interconnected energy network with IEC 62443 <ul style="list-style-type: none">· Determining what the assignment of horizontality means for the standard and its application in the power grid· How will the interworking of IEC 62443 as a horizontal OT standard, and ISO 27000 as a horizontal IT standard help to shape the future of grid security?· Reviewing the technical report on IIOT and results of the gap analysis· Clarifying which grid-specific developments to sections of the standard are on the roadmap of TC65 WG10· Reporting on the development of rules to establish energy sector specific profiles and an update on individual profile development· Creating a common language between OT and IT and enabling the evolution of a smarter more sustainable energy grid Gabriel Faifman, Co-convenor - TC65 WG10
08:20	Welcome address from the Chair	14:15	ISO 27001 - Implementing IEC 62443 in an ISO 27001/2 series-oriented organisation to achieve measurable, technical security in the OT environment <ul style="list-style-type: none">· Clarifying the benefits of IEC 62443 implementation over ISO 27001 in the OT environment to help drive adoption· Determining how regulatory support for IEC 62443 must evolve to help drive adoption· Matching IACS specific requirements in IEC 62443 to 27001/2 based ISMS to achieve common controls where possible· Overcoming challenges related to antivirus incompatibility, patching disruption and network traffic impacts on safety controls· Achieving secure remote access to OT assets and a holistic defence-in-depth strategy to protect operational assets Pierre Kobes, Consultant for Industrial Cybersecurity – Dr. Kobes Consulting
08:30	Energy Transition - Adopting a forward-looking OT cybersecurity posture to enable energy system change at speed and scale <ul style="list-style-type: none">· Adopting IEC 62443 to provide structure for widespread technology uptake and increased connectivity across the grid driven by the move to dependence on microservices supporting the transition to clean energy· Understanding the ramifications of simple, connected IIOT devices being implemented on large scale platforms and the increased use of APIs and containers· How does the sector need to redefine OT product lifecycles to bring concepts of agility, modularisation and easily changeable hardware and software into the OT space? What will the implications for OEMs, Integrators and Operators be?· Reviewing how the standard will need to evolve to keep up with the pace of change· Reducing security complexity to effect more rapid organisational and substantive energy system change Cevn Vibert, Senior Cyber Compliance Manager - Ofgem	15:00	Afternoon refreshments, networking & exhibition
09:15	Threat Landscape - Understanding the evolving threat landscape and mapping to IEC 62443 defined security levels to effectively mitigate threats using a risk-based approach <ul style="list-style-type: none">· Obtaining a true picture of the APT and cyber-criminal threat landscape· Establishing a realistic baseline for designing and building achievable and appropriate system security levels, based on the maturity of your security organisation· Prioritising threat mitigation based on the probability and impact of an attack· Overcoming practical limitations in OT systems of securing above level 2· Optimising your security posture to accurately address the varying levels of threat Andy Bochman, Senior Grid Strategist, Defender - Idaho National Laboratory	15:30	Risk Assessment - Enabling business continuity and organisational change through effective security risk management and governance based on IEC 62443-3-2 Security risk assessment for system and solution design <ul style="list-style-type: none">· Raising the level of understanding to align the protection of operational environments to threats, impacts, appetite for risk and budgets within your organisation· Enabling change owners to conduct risk assessments in an IT/OT converged environment· Establishing the link between governance processes and audit controls· Ensuring the rigour of testing and certification processes beyond the scope of the standard· Creating a coherent strategy to achieve tangible, measurable technical security Michael Knuchel, Head of SAS Engineering - Swissgrid
10:00	Implementing IEC 62443 – Establishing clear, practical roadmaps for power utilities using the standard <ul style="list-style-type: none">· Identifying equipment, stakeholders, priorities and gaps to take into consideration for a smooth and cost-effective implementation process· Protecting IEC 62443 sites with hardware-enforced measures able to withstand increasingly capable attacks· Detecting anomalies, vulnerabilities and attacks in progress promptly and accurately· Integrating insights, protection and response plans into comprehensive, compliant solutions· Overcoming the challenges of gaining Board approval for IEC 62443 investment and implementation Andrew Ginter, VP Industrial Security - Waterfall Security	16:15	Security Lifecycle - Applying IEC 62443-4-1 Secure Development Lifecycle (SDLC) requirements to achieve a sustainable full-lifecycle approach to security engineering <ul style="list-style-type: none">· Determining how operators can apply specific standards documents to each phase within the security lifecycle· Tracking controls, embedding them into day-to-day monitoring, and building them into a continuous audit· Defining IACS principal roles and responsibilities· Mapping with complimentary ISO 27000 approaches· Conducting risk assessment prior to any system changes on a continuous basis to identify gaps, show traceability, and prove effective risk mitigation· Ensuring the ongoing continuous security of products and systems in a traceable, and sustainable manner Samuel Ubido, Information Security Manager, Operational Technology, Power Sector, Department of Computer Science - University of Oxford, UK
10:45	Morning refreshments, networking & exhibition	17:00	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 cybersecurity community to ensure a well-rounded and holistic discussion. Key issues raised, and solutions proposed will be collated for
11:15	Utility Panel: Cyber Security Management System (CSMS) - Establishing a framework for a cybersecurity management system with IEC 62443-2 to define policies, procedures, and guidelines for operators <ul style="list-style-type: none">· Using IEC 62443 as an umbrella for harmonising relevant standards with Governance, Risk and Compliance (GRC) within your organisation· Deciding on the most appropriate combination of standards for organisational requirements as defined in the appendix of IEC 62443 including ISO 27001, NIST, NERC CIP and CAF· Taking the time to adequately assess the entire organisational picture of people, process and technology to get a holistic view of risk· Assigning roles, responsibilities, and accountability for cyber risk within the organisation· Aligning the protection of your operational environment to threats, impacts, risk appetite, and budget Jón Elías Þráinsson, CISO - Landsnet Michael Ebner, CISO - ENBW Santitos Garcia Zamora, High Voltage Substation Project Engineering - ENEL Distribution Peru	18:30	Networking Reception - time to relax and unwind 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 technical community.
12:00	Lunch, networking & exhibition	20:30	Close of conference day one

Conference Day Two: Wednesday 15th June

08:00	Registration and refreshments		
08:20	Welcome back from the Chair		
08:30	Access Control - Applying IEC 62443 alongside IEC 62351 to manage the risk brought about by increased data exchange and the evolution of distributed microservices <ul style="list-style-type: none">· Enabling increased data exchange between distributed renewables assets, EVs and secondary substations using IEC 62443 defence in depth in conjunction with IEC 62351· Understanding the complimentary application of IEC 62351 and IEC 62443 in managing access control and OT resource permissions· Evolving the 62443-4-2 definition of "component" to reflect the architecture of modern cyber-physical systems and match with appropriate levels of cybersecurity· Obtaining a holistic view of risk to move from asset level attack path modelling to a systems approach in an increasingly decentralised network· Establishing a common language between diverse stakeholders to facilitate a holistic approach to OT cybersecurity Frances Cleveland , President – TC57 WG15 Gabriel Faifman , Co-convenor – TC65 WG10	14:15	<ul style="list-style-type: none">· Establishing permissions, authentication, passive monitoring and accountability for vendors and operators with zero trust principles· Assessing the effectiveness of the standard in defining how conduits between zones can be protected to ensure that lateral movement is restricted· Overcoming complexity to improve your security posture and developing a playbook for segregating and protecting critical assets Siv Hilde Houmb , Senior Advisor - Statnett
09:15	Supply Chain – Utilising IEC 62443 2-1 and 2-4 as part of a strategy to manage increased complexity in supply chain security <ul style="list-style-type: none">· Utilising IEC 62443 help to manage the increasingly complex mesh of relationships, contracts and privileges brought about by cloud, analytics, SOC, maintenance and system development outsourcing trends and remote access· Taking a collaborative approach to developing vendor specifications is facilitating achievable and consistent product security, and the impact of horizontality of the standard· Identifying the current limitations of the standard, and how it could evolve to help better manage challenges such as supply chain traceability and 3rd party access management· Complimenting the work of regulators on 62443 supply chain security and applying it in conjunction with other relevant standards such as NIST and NERC CIP part 13 as part of a robust supply chain security posture· Developing a holistic understanding of supply chain risk, and how standards can help to define an effective risk mitigation strategy in line with the realities of an expanding attack surface Pedro Marin Fernandes , IEC National Committee Expert Member – TC65 WG10	14:15	Substation Security Profile – Defining substation specific security requirements to facilitate IEC 62443 implementations <ul style="list-style-type: none">· Establishing a cybersecurity programme for critical systems to manage the complexities of IEC 62443 implementation in the substation environment· Understanding business as usual with current controls to establish a baseline against which to assess risk when approaching security enhancements· Engaging the entire supply chain and considering operator, integrator, and vendor requirements to develop a system of systems view of substation security· Developing secure remote access controls to manage increased remote operation and maintenance· Creating a practical roadmap for 62443 configurations in the substation Tahir Saleem , OT Cybersecurity Manager - DEWA
10:00	Morning refreshments, networking & exhibition		
10:30	Minimising Risk – Addressing cybersecurity risks through the application of IEC 62443 in conjunction with other standards <ul style="list-style-type: none">· Evaluating the current threat landscape and understanding how it is changing in terms of targeted, nation state, next level knowledge attacks· Leveraging IEC 62443 in conjunction with other standards and guidelines to more accurately map the risk profile and determine the appropriate focus for cybersecurity investment· Approaching zero risk requires OT domain expertise that meets the attacker's domain expertise· Identifying and prioritising the most critical systems to secure and ensuring state of the art prevention, detection, response and recovery procedures to minimise risk· Extending IEC 62443 to address electric utility domain requirements to ensure a strong security posture using a zero-trust approach Ameen Hamdon , President – SUBNET Solutions	15:30	Afternoon refreshments, networking & exhibition
11:15	Technology Innovation Panel – Adopting IEC 62443 across a wider range of power grid industrial automation control systems <p>During this session 3-4 power grid system and cybersecurity suppliers explain how they are adopting IEC 62443 into their product suite. This is your opportunity to benchmark compliant suppliers, query their product development strategies, and gain new insights to help you plan your own system development with state-of-the-art IEC 62443 enabled products and systems in mind.</p> Mark Clemens , Connectivity Architect & Security Strategist – COPADATA Jérôme Arnaud , Head of Product Management - Rhebo Adam Gauci , Cybersecurity Marketing Director - Schneider Electric Rick Kaun , VP Solutions - Verve Industrial	15:00	Orchestration – Achieving IEC 62443 compliance through effective cybersecurity orchestration <ul style="list-style-type: none">· Mapping the emerging power grid cybersecurity product and infrastructure ecosystem in the context of the new threat landscape· Defining the concept of orchestration and understanding how it can reduce cost and complexity through a cybersecurity mesh architecture· Evaluating the orchestration platform functionality and determining optimal integration strategies for existing and new customers· Developing an effective playbook to ensure time and cost-efficient recovery and response to major incidents· Measuring the impact of cybersecurity orchestration on risk reduction, operational efficiency as well as financial bottom-line results Antoine D'Haussy , Head of OT Practice, EMEA - Fortinet
12:00	Lunch, networking & exhibition		
13:30	Zones and Conduits - Applying IEC 62443 to design and implement standardised security zoning architecture in a geographically dispersed grid <ul style="list-style-type: none">· Developing a systems view of multiple multi-layered and diverse systems to identify critical assets and establish acceptable levels of risk· Creating a common understanding of the meaning of zones and conduits among enterprise architects, business service owners, technicians, and engineers, and establishing a centralised team to determine the right governance and blueprints for critical sites	16:15	Secondary Systems – Overcoming complexity with a balanced approach to secondary systems cybersecurity in the substation environment <ul style="list-style-type: none">· Conducting feasibility assessments to clearly prioritise practically achievable security management practices· Developing practical strategies to overcome specific challenges around remote access, patching management and legacy systems· Implementing the correct security controls to ensure the cyber resilience and security of secondary systems without degrading or disrupting performance with reference to IEC 62443 parts 3 and 4-2· Developing a recommended practice report on cybersecurity of protection devices with a consortium of Nordic TSOs· Managing increased complexity to ensure secure, reliable operation and regulatory compliance Sampo Turunen , Specialist Secondary Systems - Fingrid Oyj
		17:00	Certification and Testing – Understanding the current scope of testing and certification of components, products, and systems based on IEC 62443 and the improvements required to fully meet the needs of utilities, system integrators and suppliers <ul style="list-style-type: none">· Understanding how IEC 62443 product certification is successfully enabling a collaborative approach to security and the challenges that still remain for suppliers, integrators and operators· Extending certification to cover component security, and the applicability of the IEC 62443 series of standards and certifications to commercial off-the-shelf (COTS), IIoT components, and gateways· Integrating product certification into a security scheme and addressing issues with configuration at security level 2 and above· Managing additional pen testing requirements outside of certification and feeding back new assessment requirements· Instilling confidence in all stakeholders, simplifying specifications and go-to-market strategy, and providing assurance of system resilience Andre Ristaino , Managing Director - ISA Dr. Maarten Hoeve , Director of Technology - ENCS
		17:45	Close of conference Day Two

Conference Day Three: Thursday 16th June

08:00 **Registration and refreshments**

08:20 **Welcome address from the Chair**

08:30 **Functional Security – Creating simple, functional IACS cybersecurity controls to align with utility end-user needs**

- Refining the set of requirements informed by the end user perspective to empower non-IT stakeholders on the potential of the IEC 62443 series
- Thoroughly incorporating functional threats and risk factors into 3-2 risk assessment
- Finding the correct balance around simplicity and security in user authentication where availability is a priority
- Preventing disruption by taking operational realities into consideration when using a 2-3 approach to patch management
- Mitigating the problem of a shortage of cybersecurity skills and enabling safety, reliability, and security

Deniz Tugcu, Senior OT Cyber Security Specialist - **Vattenfall**

09:15 **Smart Metering – Securing electronic access points and perimeters to mitigate threats from smart-metering infrastructure vulnerabilities**

- Applying IEC 62443 to the unique challenges of smart metering cyber security involving bi-directional communication between the consumer and the grid and insecure grid connected devices
- Mitigating low visibility of and ease of ingress to smart metering infrastructure in people's homes, public and private clouds by monitoring and defending entry points and conduits
- Leveraging 2-3 system security requirements to understand the risk to your systems and inform your perimeter defence strategy accordingly
- Understanding the interplay with other standards such as NIST, ISO 27001/2 and NERC CIP to holistically address smart-meter security risk
- Facilitating efficiency, measurability, and sustainability of energy consumption while protecting critical

Jon Wells, Chairman Committee - **OSGP Alliance**

10:00 **Morning refreshments, networking & exhibition**

10:30 **Regulatory Panel – To what extent is regulation driving IEC 62443 adoption and does it go far enough in doing so?**

- Identifying the benefits of IEC 62443 as a means of achieving compliance to OT cybersecurity regulation
- Is IEC 62443 on a trajectory to gaining similar recognition as an OT standard to that of ISO 27001 as an IT standard for critical infrastructure?
- Addressing challenges around differing national approaches to regulating the security of supranational infrastructure
- What lessons can be learned from the impact of developments in NERC CIP and other recent US regulation of energy sector security?
- Understanding how IEC 62443 may be leveraged by asset owners to manage increased levels of accountability under the NIS 2 Directive and gain visibility on regulators' view of the standard

Cevn Vibert, Senior Cyber Compliance Manager - **Ofgem**
Janne Hagen, Special Advisor Contingency Planning - **NVE**
Jens Wiesner, Head of Section - **BSI**

12:00 **Lunch refreshments, networking & exhibition**

13:30 **IIOT Security – Utilising IEC 62443 to overcome the additional security complexities introduced by the large-scale deployment of IIOT and Edge devices**

- Adopting and adapting methodologies in 4-2, 2-4, and 3-3 to meet the specific requirements of securing IIOT components and systems
- Future proofing security and operability by adopting new hardware architecture and software defined everything (SDx)
- Reconsidering the appropriateness of security levels when applying the standard to securing systems incorporating several levels of the Purdue model
- Managing and reducing the complexity brought about by varying protocols in IoT devices and APIs running in the cloud or at the grid edge
- Considerations given to 62443 guidance in development of NCSC and industry guidelines for securing IIOT.

Mo Javadi, Co-Founder and COO - **delatflare**
Christopher Thompson, Enterprise Architect, Operational Technology – **SGN**

14:15

Aligning Safety and Security – Developing a common barrier model with IEC 62443 and IEC 61508/11 to drive interoperability across the industry 4.0 value chain

- Conducting a 5-year research project to develop new knowledge, methods and guidance to secure industrial control and safety systems against cyberattacks
- Understanding the application of barrier management principles for functional safety and cybersecurity in the oil and gas sector to assess applicability to smart grid use cases
- Assessing the viability of the development of digital twins of control systems and safety instrumented systems
- Maturing towards international standards to achieve digital twin interoperability
- Facilitating the modernization of IACS to meet the requirements of the changing energy system and drive interoperability

Jan Munkejord, Author & Philosopher within IACS - **Equinor**

15:00

Afternoon refreshments, networking & exhibition

15:30

Remote access – Implementing IEC 62443 to manage the risk brought about by increased remote access

- Understanding Part 2-4: Security programme requirements for IACS service providers to manage remote access of contractors and third parties
- Ensuring you have the right architecture and segmentation in place to prevent lateral movement within your systems
- Implementing role-based and multi-factor authentication and session monitoring for employees as well as external providers based on zero trust principles
- Meeting the foundational requirement for data to be handled, encrypted, and secured with IPSEC based on IEC 62443 implementation guidance
- Enabling remote operation and maintenance and demonstrating clear value to the business

James Cole, Secondary Systems Manager - **Evoenergy**

16:15

Skills and Training – Accelerating development of the OT cybersecurity workforce as an industry to develop a suitably qualified OT cybersecurity workforce

- Leveraging IEC 62443 as a bridge between people with distinct IT and OT skillsets using real implementable models governing technology, people, and process
- Enabling change by raising cyber awareness in an ageing operational workforce
- Managing the complexity of IT/OT converged environments when training new engineers
- How can the industry focus its resources to extend and revitalise OT cybersecurity training and apprenticeship schemes to equip the next generation in line with the evolution of the energy sector?
- Ensuring that your organisation retains the deep body of operational knowledge needed to maintain critical infrastructure while adapting to the new reality of a hyper-connected OT environment

Samuel Ubido, Information Security Manager, Operational Technology - **Uniper**

Michael Knuchel, Head of SAS Engineering - **Swissgrid**
Janne Hagen, Special Advisor Contingency Planning - **NVE**

17:00

Close of conference day three

Testimonials from Past Events

“Smart Grid Forums is on the leading edge of grid security.”
Don Miller, Chief Technology Evangelist - **Network Perception**

“This was a great opportunity to learn about the IEC 62443 concepts, controls and framework.”
Anja Ivanovska, Info Sec Specialist - **EVN**

“A refreshing insight and different angle on cyberthreats and possible measures for the OT domain.”
Bas Mulder, Technologist OT - **TenneT**

“Useful and dynamic format to go quickly through a number of topics.”
Mait Sagarra, Cybersecurity services - **Naturgy**

“The overall presentation and subject matter discussed was awesome. I have enjoyed the in-depth insightful discussion of the presenters thoroughly.”
Aninda Chatterjee, Project Engineer - **Siemens**

Conference, Exhibition & Networking Forum

Post-Conference Briefing Offensive Cybersecurity Briefing

Friday 17th June 2022

Briefing Format:

This one-day briefing provides a comprehensive introduction to the opportunities and challenges posed by offensive cybersecurity strategies for the power grid. The day begins with a deep-dive into how the threat landscape is evolving and the tactics, techniques and procedures being employed by cybercriminals and nation state actors specifically targeting the power grid. We explore the application of the Mitra Att@ck framework, the different detection tools and techniques, and the optimal interworking of red and blue teams to maximise awareness and speed up response.

The programme consists of a series of speaker-led presentations, group problem solving exercises, practical simulations, and frequent Q&As. Participation is limited to 30 individuals, to ensure a practical and interactive learning environment.

Briefing Agenda:

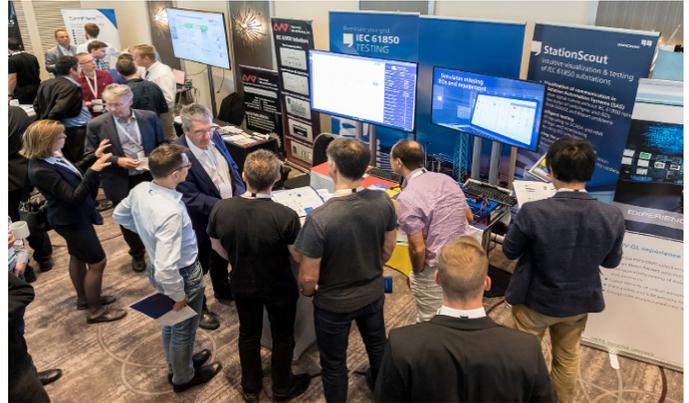
08:30	Welcome address and introduction to the Briefing
	Session 1: Threat Landscape – understanding how the threat landscape is evolving and the risk posed to a rapidly changing power grid environment <ul style="list-style-type: none">Identifying the key cyber criminal and nation state groups currently disrupting and degrading the power gridEvaluating their tactics, techniques and procedures and how these are likely to develop in the near futureDetermining the mix of defensive and offensive cybersecurity strategies required to get ahead and stay ahead of the threat
10:00	Session 2: Utility Case-Study – successfully applying offensive cybersecurity techniques to the OT environment <ul style="list-style-type: none">Determining the regulatory, organisational, operational drivers for employing offensive cybersecurity strategiesSelecting the offensive tools and techniques that will deliver the best return on effort and investmentManaging the application of offensive techniques to minimise risk to operations
11:00	Morning refreshments and networking
11:30	Session 3: Mitre Att@ck – demystifying the framework and optimising its application in the power grid <ul style="list-style-type: none">Understanding the fundamental building blocks of the Mitre Att@ck frameworkLeveraging the framework to understand how different adversary groups are likely to move through the power grid environmentUtilising the database to develop threat models and methodologies to effectively guard the power grid and its ecosystem
12:30	Lunch and networking
13:30	Session 4: Threat Detection – utilising detection tools and techniques to identify legitimate events, correlate alerts across complex attack chains and speed up threat response <ul style="list-style-type: none">Carrying out a thorough risk assessment to ensure the optimal choice of detection tools and techniques against your risk profileExamining the range of detection tools available on the market and fit for purpose for the power gridApplying sophisticated detection techniques that accurately break down the vulnerability and map the attack path
14:30	Session 5: Team set-up – Red-team, Blue-team, Purple-team <ul style="list-style-type: none">Understanding the distinct roles and responsibilities of each teamIdentifying the vulnerabilities that are most likely to be exploited by adversariesDeveloping an action plan that effectively interworks the teams and stimulates effective thought processes
15:30	Afternoon refreshments and networking
16:00	Session 6: Practical Exercise – during this session the groups splits into several smaller groups in order to solve a problem arising from the day's presentations and discussions. This will be followed by a simulation exercise and the day will be concluded with a thorough Q&A session.
17:00	Close of Briefing

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Venue

Radisson Blu Hotel, Edinburgh City Centre

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Location & website

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<https://www.radissonhotels.com/en-us/hotels/radisson-blu-edinburgh>

Accommodation

Email: reservations.edinburgh@radissonblu.com
Telephone: +44 131 557 9797

Briefing Leader:



Phil Tonkin
Senior Director of Strategy
Dragos

Phil Tonkin has worked in the Energy sector for 23 years, starting in the Electricity Transmission sector as a substation engineer. During his career Phil has worked in Electricity Transmission, Distribution & Generation, Gas Transmission, Distribution and Storage as well as in IT. Phil joined Dragos as Senior Director of Strategy in January 2022, before which he led the OT Security Program at National Grid for the UK and US for 5 years. He is a keen contributor to advance cyber security and resilience in the energy sector.

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Rhebo develops and markets OT and IIoT cybersecurity for the energy sector, critical infrastructure and manufacturing companies. The company provides cross-locational cybersecurity, intrusion detection and visibility in industrial automated networks (ICS) from the initial cyber risk analysis to cybersecurity operation through OT monitoring with threat & intrusion detection. Since 2021, Rhebo is part of the Landis+Gyr AG, a leading global provider of integrated energy management solutions for the energy industry with around 5,000 employees in over 30 countries worldwide. Rhebo is a partner of the Alliance for Cyber Security of the Federal Office for Information Security (BSI) as well as the Teletrust - IT Security Association Germany. The company was awarded the »IT Security Made in Germany« and »Cybersecurity Made In Europe« labels for its strict data protection and data security policies.

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Verve Industrial Protection has ensured reliable and secure industrial control systems for nearly 30 years. It's principal offering, the Verve Security Center, is a unique, vendor-agnostic OT endpoint management platform that provides IT-OT asset inventory, vulnerability management, and the ability to remediate threats and vulnerabilities from its orchestration platform. Verve Industrial's Design-4-Defense professional services support clients in ensuring their OT environments are designed and operated in a secure manner.

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DNV is an independent assurance and risk management provider, operating in more than 100 countries. Through its broad experience and deep expertise DNV advances safety and sustainable performance, sets industry standards, and inspires and invents solutions. DNV combines specialist sector knowledge of with engineering expertise and information system best practice to keep critical infrastructure projects and operations confidently cyber secure. It provides many of the world's most successful and forward-thinking companies with clear and practical advice to uncover their cyber risks, build a powerful force of defence against threats, recover from attacks, and unite stakeholders behind cyber security programmes that everyone can believe in.

Find out more at: dnv.com/cybersecurity



Founded in 2007, the ISASecure Program's mission is to provide the highest level of assurance possible for the cybersecurity of automation control systems. The ISASecure Program has been conducting certifications on automation and control systems since 2011 through its network of ISO/IEC 17065 accredited certification bodies. Founders and key supporters of ISASecure® include BP, Chevron, ExxonMobil, Saudi Aramco, Shell, Honeywell, Johnson Controls, Schneider Electric, Yokogawa, Siemens, exida, TUV Rheinland, CSSC, FM Approvals, Synopsys, DNV-GL, Applied Risk, Trust CB, Security Compass, SGS Espanola de Control, BYHON, TUV SUD, WisePlant HQ, and Bureau Veritas.

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Dragos has a global mission: to safeguard civilization from those trying to disrupt the industrial infrastructure we depend on every day. The practitioners who founded Dragos were drawn to this mission through decades of government and private sector experience. Dragos codifies the knowledge of our cybersecurity experts into an integrated software platform that provides customers critical visibility into ICS and OT networks so that threats are identified and can be addressed before they become significant events. Our solutions protect organizations across a range of industries including electric, oil and gas, manufacturing, and mining, and protect mission critical networks including ICS/OT and emerging applications such as the Industrial Internet of Things (IIOT). Dragos is privately held and headquartered in the Washington, DC area with a regional presence around the world, including Canada, Australia, New Zealand, Europe, and the Middle East.

Find out more at: www.dragos.com

Strategic Partner:



The IEC (International Electrotechnical Commission) brings together 173 countries and 20 000 experts who cooperate on the global IEC platform to ensure that products work everywhere safely with each other. The IEC is the world's leading organization that prepares and publishes globally relevant international standards for the whole energy chain, including all electrical, electronic and related technologies, devices and systems. The IEC administers four conformity assessment systems that certify that components, equipment and systems used in homes, offices, healthcare facilities, public spaces, transportation, manufacturing, explosive environments and energy generation are safe, energy efficient and perform to the required standards. IEC work covers a vast range of technologies: power generation (including all renewable energy sources), transmission, distribution, smart grid & smart cities, batteries, home appliances, office and medical equipment, all public and private transportation, semiconductors, fibre optics, nanotechnology, multimedia, information technology, and more.

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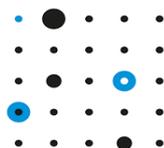
The OSGP Alliance is the global non-profit association dedicated to promoting the adoption of the Open Smart Grid Protocol (OSGP) and infrastructure for smart grid applications towards a future proof modern smart grid. With a key focus on security, smart metering, smart grid, grid analytics, distribution network management and smart cities our members, including utilities, hardware manufacturers, service providers and system integrators, all share a common goal and vision: promoting open standards for energy demand side management, smart grid and smart metering systems.

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Global Smart Energy Federation (GSEF) established in 2010 and formerly known as Global Smart Grid Federation (GSGF), is a global stakeholder organization of national smart grid associations, forward-looking utilities, and think tanks from around the globe working in the domains of energy transition and clean transportation. By linking the major public-private stakeholders and initiatives of participating countries, the federation shares practices, identifies barriers and solutions, fosters innovation, and addresses key technology standards and policy issues. The activities of GSEF help our member organizations and their member utilities in their energy transition and grid modernization initiatives that enhance access to affordable clean energy and increase the security, flexibility and resiliency of the power system while reducing the emissions. GSEF has 16 member countries including India, Indonesia, Mexico, Malaysia, Thailand, Mozambique, South Africa, Botswana, Saint Lucia, USA, Japan, France, South Korea. European Distribution System Operators (E.DSO), an organization promoted by European Commission; and several think-thanks of global repute in also a member of GSEF.

Find out more at: www.globalsmartenergy.org



The European Network for Cyber Security (ENCS) is a non-profit membership organisation that brings together critical infrastructure stakeholders and security experts to deploy secure European critical energy grids and infrastructure. Founded in 2012, ENCS has dedicated researchers and test specialists who work with members and partners on applied research, defining technical security requirements, component and end-to-end testing, as well as education & training. ENCS uses its network in academia, government and business to provide cyber security solutions and counsel dedicated to the needs of national Distribution System Operators (DSO), Transport System Operators (TSOs) and regulators.

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