



# CYBER SECURITY FOR CRITICAL MANUFACTURING | EUROPE MANUSEC

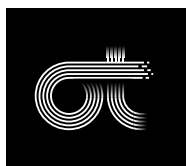
europa.manusecevent.com  
4th - 5th February 2020  
MUNICH, Germany  
Sofitel Hotel Munich Bayerpost

## EVENT OVERVIEW:

#ManuSec Europe is an intimate and exclusive platform for IT and OT security leaders from Europe's manufacturing industry to exchange in-depth cybersecurity knowledge. Senior cybersecurity professionals share first-hand insights through real-life case studies, panel debates, and keynote presentations, while bringing forth questions and challenges to be discussed over roundtables and dynamic networking breaks.

This is your annual opportunity to build cross-departmental cybersecurity partnerships, benchmark your company's digital maturity against peers, and participate in the discussions shaping European manufacturers' cybersecurity landscape in 2020 and beyond.

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## WHY NOW?

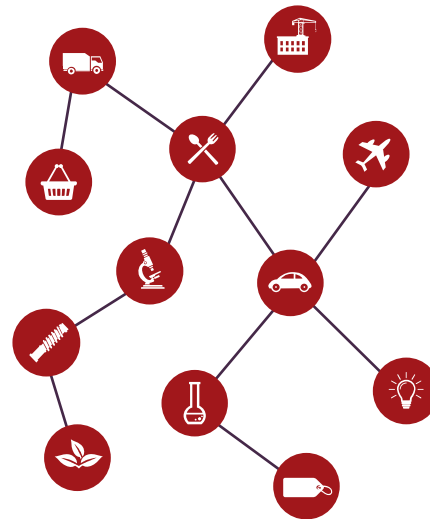
With the convergence of industrial control systems and enterprise infrastructure, and legacy equipment being connected through the Industrial Internet of Things, cyber security is a top-of-the-list priority.

To properly face cyber risk in the digital age, organisations must fully engage at all levels, to collaborate and establish best practice policies to ensure safety is maintained on the factory floor, prevent production halts from occurring and protect intellectual property from being stolen.

## NETWORK WITH

### JOB TITLES:

- CISO's
- CIO's
- Heads of Automation & Process Control
- Heads of Operational Security
- Directors of Information Security & Privacy
- Heads of Network Infrastructure
- Heads of IT Security
- Directors of Risk & Compliance
- Information Security Managers
- Senior Engineers
- SCADA / ICS Engineers



### INDUSTRIES:

- Automotive
- Food & Beverage
- Energy
- Pharmaceutical
- Chemical
- Electronics
- Machinery
- Agriculture
- FMCG

## LEARNING OBJECTIVES

- Create synergies with IT and OT leaders
- Gain industry-wide perspective on how cyber risk is changing due to the spread of automation on the shop floor
- Find tools and resources for mapping your attack surface
- Learn how to address supply chain vulnerabilities
- Share best practices on incident response and recovery plans

## STEERING COMMITTEE

**Dr. Bernd Bieker**  
Program Lead OT Cyber Security  
*Novartis*

**Jesus Molina**  
Director of Business Development  
*Waterfall Security*

**Ofer Shaked**  
Co-Founder & CTO  
*SCADAfence*

**Eric Ten Bos**  
Global Lead OT/IoT/IIoT Cyber Security  
*Thales*

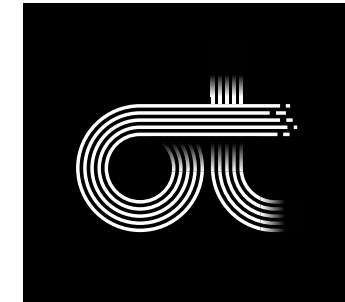
**Carlos Olave Rojo**  
Automation Engineer - Industrial OT Cyber Security  
*Food Packaging Company*

**Adam Wedgbury**  
Cyber Security OT Innovation Lead  
*Airbus*

**Christian Koch**  
Senior Manager GRC & IoT/OT  
*NTT Ltd.*

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**CLAROTY**  
Clarity for OT Networks

**Clarity's** mission is to protect industrial control networks from cyber-attacks; ensuring the safe and reliable operation of the world most critical infrastructures. Clarity enables customers to enjoy the substantial benefits of increasingly networked control systems without compromising operational resiliency, personnel safety or the security of core assets. The Clarity Platform is an integrated suite of cybersecurity products, providing unmatched threat protection, detection and response.

**VISIT:** [www.claroty.com](http://www.claroty.com)

### Hosting Sponsor:



**Irdeto** is the world leader in digital platform security, protecting platforms and applications for video entertainment, video games, connected transport and IoT connected industries. Irdeto's solutions and services enable customers to protect their revenue, create new offerings and fight cybercrime. With 50 years of expertise in security, Irdeto's software security technology and cyberservices protect over 5 billion devices and applications for some of the world's best-known brands.

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## SPONSORS

### Presenting Sponsors:



Security is a division of **NTT Ltd.**, a global technology services company bringing together the expertise of leaders in the field, including NTT Communications, Dimension Data, and NTT Security. The Security division helps clients create a digital business that is secure by design. With unsurpassed threat intelligence, we help you to predict, detect, and respond to cyberthreats, while supporting business innovation and managing risk of real-world vulnerabilities found in 375 production ICS networks worldwide.



**CyberX** provides the most widely-deployed industrial cybersecurity platform for reducing ICS risk. Supporting all OT vendors and seamlessly integrating with existing IT security tools, CyberX's platform combines a deep understanding of industrial protocols, devices and applications with ICS-specific asset discovery, continuous real-time monitoring and incident forensics, risk and vulnerability management and threat intelligence. CyberX recently published the first-ever "Global ICS & IIoT Risk Report," a DBIR-like analysis of real-world vulnerabilities found in 375 production ICS networks worldwide.



**Rhebo** is the only company providing cybersecurity as well as stability for industrial control systems (ICS) in industrial and critical infrastructure companies. The solutions monitor all communication within the ICS, and reliably report attacks, vulnerabilities as well as technical error states. Thus, Rhebo increases resilience and reliability to safeguard the digital transformation.



**SCADAfence** helps companies with large-scale operational technology (OT) networks embrace the benefits of industrial IoT by reducing cyber risks and mitigating operational threats. Our non-intrusive platform provides full coverage of large-scale networks, offering best-in-class detection accuracy, asset discovery and user experience.



Powered by machine learning and AI-algorithms, **Darktrace's** Immune System learns an organization's 'pattern of life' and detects vulnerabilities and threats against ICS and OT as a self-learning system that is vendor and protocol agnostic and continually adapts to evolving real-time activities of operational environments, including SCADA and IIoT.

### Platform Sponsor:



**Radiflow** is a leading provider of cyber security for critical infrastructure networks. The Radiflow solution provides operators with visibility and control of their OT network; including both non-intrusive Industrial IDS to monitor real-time networks and security gateways to secure access to devices in critical zones.

## SPONSORS

### Associate Sponsor:



With a portfolio of products and technologies providing IoT- and SDN-enabled solutions for customers in manufacturing, government, education and critical infrastructure, **Allied Telesis** is the smarter choice. Its Envigilant™ managed services division delivers customized, state-of-the-art IoT solutions at the edge, empowering innovation, improving process agility, and helping build a competitive advantage for customers globally.

### Focus Group Sponsors:



**Thales** is a global technology leader shaping the world of tomorrow today. The Group provides solutions, services & products to customers in the aeronautics, space, transport, digital identity & security, & defence markets. With 80,000 employees in 68 countries, Thales generated sales of €19 bil in 2018 (pro-forma basis incl. Gemalto). Thales is investing in particular in digital innovations – connectivity, Big Data, artificial intelligence & cybersecurity – technologies that support businesses, organisations & governments in their decisive moments.



**Unisys** is a global IT company providing industry-focused solutions integrated with leading-edge security to clients across all sectors. These include advanced data analytics, cloud and infrastructure services, application services and application/server software. **SightLine** provide Global IT monitoring and manufacturing analytics solutions across individual and multiple production facilities, allowing manufacturers to analyze massive volumes of machine data from Industrial IoT devices, smart sensors and ERP systems.

### Dinner Sponsor:



**Nozomi Networks** is revolutionizing Industrial Control System (ICS) cybersecurity with the most comprehensive platform for real-time cybersecurity and operational visibility. Since 2013 the company has innovated the use of machine learning and artificial intelligence to meet the unique challenges of critical infrastructure operations. Deployed in the world's largest industrial installations, Nozomi Networks delivers network visualization and monitoring, cybersecurity incident and process anomaly detection, asset management and vulnerability assessment.

### Roundtable & Drinks Sponsor:



In a world with more data, more users, and more services, there's more to protect. Meanwhile, cyberthreats are constantly evolving, getting smarter and more sophisticated. What's the answer? The traditional approach has been to bolt on the latest threat protection product in the hope that adding to the patchwork of security solutions does the trick. It's time to put cybersecurity above everything. With our integrated portfolio and industry-leading threat intelligence, **Cisco** gives you the scope, scale, and capabilities to keep up with the complexity and volume of threats. Putting security above everything helps you innovate while keeping your assets safe. Cisco prioritizes security in all that we do. Only with Cisco can you attain effective network security to face tomorrow's evolving threats.

### Roundtable Sponsor:



**Forescout Technologies** is the leader in device visibility and control. Our unified security platform enables enterprises and government agencies to gain complete situational awareness of their extended enterprise environments and orchestrate actions to reduce cyber and operational risk. Forescout products deploy quickly with agentless, 100-percent real-time discovery and classification, as well as continuous posture assessment.



## SPEAKERS


**Petri Ala Annala**  
CISO  
Nobia



**Ali Baccouche**  
Information Security & Data  
Protection Officer EMEA  
Texas Instruments



**Ilan Barda**  
CEO  
Radiflow



**Elad Ben-Meir**  
CEO  
SCADAfence




**Niels-Axel Berthelsen**  
Director of Business Development,  
Connected Manufacturing  
Irdeto



**Dr. Bernd Bieker**  
Programme Lead OT  
Cyber Security  
Novartis Business Services



**Eric ten Bos**  
Global Lead OT/IloT Cyber Security  
Thales



**Leonardo Casubolo**  
Director Global IT  
Infrastructure & Security  
Burckhardt  
Compression AG



**David van Crout**  
Senior Director Europe  
Claroty



**Peter Dornheim**  
Head of IT Security  
Festo



**Jakub Duch**  
Executive Officer, Vice-President  
International Sales  
Allied Telesis



**Alexander Giehl**  
Security Expert  
Fraunhofer AISEC



**John Hales**  
Security Consultant  
Unisys



**Ricardo Hormann**  
Industrial Security Manager  
Volkswagen




**Michael von der Horst**  
Managing Director Cyber  
Security Germany  
Cisco




**Christian Koch**  
Senior Manager GRC & IoT  
NTT Ltd.



**Thomas Kuhn**  
CISO  
S.Oliver



**Roberto Lopez**  
Automation Lead Global Supply –  
ICS Cybersecurity Programme –  
Madrid Site Representative  
Pfizer



## SPEAKERS

**Trish McGill**  
Sr. SME Cyber Security  
Confidential

**Prof. Dr.-Ing. Dominik Merli**  
Head of Institute HSA\_innos  
Augsburg University of Applied Sciences




**Klaus Mochalski**  
CEO & Co-Founder  
Rhebo



**Jesper Nilsson**  
Business Development Director -  
DACH Region  
CyberX



**Thomas Nowey**  
CISO  
Krones



**Mark Ruble**  
Senior Manager Information  
Security Cyber Defense  
P&G



**Dana Samaroo**  
IT Supervisor  
Caribbean Gas  
Chemical Ltd.




**Marvin Schlieker**  
Production IT Security Manager  
ZF



**Marco Tagliaferro**  
Senior IT Security Manager  
Avon



**Yui Tateno**  
R&D Pharma OT Security  
GSK



**Andrew Tsonchev**  
Director of Technology  
Darktrace Industrial



**Stefan Wenigmann**  
CISO  
Bucher Industries



**Brandon Witte**  
CEO  
Sightline



**Speaker TBC**  
Senior Expert  
ForeScout



**Speaker TBC**  
Senior Expert  
KPMG

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# CONFERENCE DAY ONE

## TUESDAY 4th FEBRUARY 2020

08:00  REGISTRATION

08:45  OPENING ADDRESS FROM THE CHAIR:  
**Stefan Wenigmann**, CISO, **Bucher Industries**

### OPENING PANEL

09:00 **Managing Cyber Risks in the Age of Smart Production**

- How have the proliferation of automation on the shop floor and the convergence of IT and OT changed your cyber risk profile?
- How are you ensuring key security and risk considerations are prioritised over the productivity potential of new digital technologies?
- What measures are you putting in place to prevent new technologies from becoming conduits for security threats? How are you assessing and then mitigating the risks they bring?

Moderator: Jakub Duch, Executive Officer, Vice-President International Sales, Allied Telesis

- Leonardo Casubolo, Director Global IT Infrastructure and Security, Burckhardt Compression
- Dr. Bernd Bieker, Program Lead OT Cyber Security, Novartis
- Mavin Schlieker, Production IT Security Manager, ZF
- Josef Kriegsmair, IT Security Centre Manager, MTU Aero Engines (TBC)

### OFFICIAL KEYNOTE

09:40 **Protecting Productivity: Walk Through One Company's Journey as they Embraced Digital Modernisation & The Risks Involved**

- Considerations when exploring how to smoothly & securely transition plant assets and process controls into the modernised future
- What controls & safety considerations give the greatest gains when seeking to protect productivity, increase security and decrease cyber risk
- Success criteria and field experience on how to measure your organisation's journey

- David van Crout, Senior Director Europe, Claroty

10:20  NETWORKING BREAK & BUSINESS CARD EXCHANGE

### PRESENTATION

11:00 **Top 3 Use Cases for Automated OT Asset Discovery & Management**

This session discusses 3 real-life use cases where automated OT asset management was employed and the results. Specifically:

- How these organisations understood and controlled the cyber security resilience of ICS assets
- How they improved incident response, shortened resolution time, ensured operations continuity
- How these profiles organisations found a new level of compliance with industry regulations

- Senior Expert, Darktrace Industrial

### PRESENTATION

11:30 **Bringing IT and OT Together by Using Intrusion Detection Systems and Asset Management**

Key points we will discuss during this live interview:

- Setting up an awareness campaign and promoting interdepartmental synergies
- IT/OT emergency exercises
- Different approaches for different stakeholders

- Ricardo Hormann, Industrial Security Manager, Volkswagen

### PRESENTATION

12:00 **IT and OT Security Aligned - A Story from the 'Manufacturing' Trenches**

- The Convergence of IT and OT
- Industrial Cyber Attack Components
- Case Study - Largest Manufacturing Company in Europe

- Elad Ben-Meir, CEO, SCADAfence

12:30  SEATED LUNCH  
HOSTED BY:



### CASE STUDY

13:30 **Protecting Manufacturing Sites from Cyber Attacks - Insights from Procter & Gamble**

Operational Technology and manufacturing sites present a unique challenge for security teams. Failing to take proactive security measures can cripple operations and cause major financial losses – as recently shown by the Norsk Hydro attack. In this session, Mark Ruble, the Senior Manager Information Security Cyber Defense at P&G will discuss these challenges as well as innovative ways to detect and mitigate today's complex cyber attacks.

- Mark Ruble, Senior Manager Information Security Cyber Defense, P&G

### PLATFORM

14:00 **Threat Intelligence - Hype or Hope?**

- Challenges and benefits of collecting the data needed to detect threats
- Immediate value and risks posed by a shared threat intelligence model
- Advantages of applying advanced machine learning to specific problems

- Ilan Barda, CEO, Radiflow

### CASE STUDY

14:20 **Cyber Securing One of Our Spanish Sites**

- How we have restructured the plant's architecture
- Industrial network segmentation
- Next steps ahead: how we are developing an OT security plan and implementing hardening processes

- Roberto López Martínez-Santos, Automation Lead Pfizer Global Supply - ICS Cyber Security Programme - Madrid Site Representative, Pfizer

### PRESENTATION

15:00 **A Data-Driven Analysis of Hidden Vulnerabilities in IIoT & ICS Networks**

- The results of our "2019 Global ICS & IIoT Risk Report," a data-driven analysis of real-world network traffic captured from more than 850 production ICS networks worldwide
- Four steps towards protecting your "crown-jewel" assets, based on INL's risk-based CCE methodology

- Jesper Nilsson, Business Development Director – DACH Region, CyberX

15:30  NETWORKING BREAK

### PRESENTATION

16:00 **Industrial Security Use Case: PoC in Networked Productions. From Concept to Implementation of Cyber Security and Process Stability**

Where should manufacturers start to implement industrial security according to IEC 62443 and ISO 27000? How can you quickly and comprehensively identify threats to the ICS and determine sound mitigation measures? Find out how you can implement a meaningful PoC for your industrial security strategy within a few weeks to identify the relevant actions.

- Klaus Mochalski, CEO & Co-Founder, Rhebo

### ROUNDTABLES

16:30 **Delegates will split into 5 working groups, each making up a roundtable, to discuss a specific issue and exchange ideas and experiences related to it. A moderator will be facilitating the discussion at every table.**

T1: Leonardo Casubolo, Director Global IT Infrastructure and Security, Burckhardt Compression

T2: Ali Baccouche, Regional Information Security & Data Privacy Officer EMEA, Texas Instruments

T3: Michael von der Horst, Managing Director Cyber Security Germany, Cisco

T4: Senior Expert, Forescout

T5: Senior Expert, KPMG

17:15  CLOSING REMARKS BY:  
**Stefan Wenigmann**, CISO, **Bucher Industries**

17:20  EVALUATION FORMS

17:30  NETWORKING DRINKS  
HOSTED BY:



19:00  DINNER HOSTED BY:  
(RSVP only)





# CONFERENCE DAY TWO

## WEDNESDAY 5th FEBRUARY 2020

08:15  REGISTRATION

08:45  OPENING ADDRESS FROM THE CHAIR:  
**Stefan Wenigmann**, CISO, **Bucher Industries**

### OPENING PANEL

09:00 **Building a Roadmap to a Secure Manufacturing Supply Chain**

- Understanding the risks. How can we as manufacturers adequately assess and quantify the risks we are exposed to through our suppliers? How are increased interconnectivity and interoperability shifting the paradigm?
- Getting mitigation right. How can we ensure security measures and mitigations are proportionate, effective and responsive?
- Establishing control. How can we raise security awareness within our supply chain and ensure our suppliers adhere to their security contractual responsibilities?
- Containing damages. Once one supplier's defences have been breached, how can we prevent attackers from compromising the entire supply chain?

Moderator: Prof. Dr.-Ing. Dominik Merli, Head of Institute HSA\_innos, Augsburg University of Applied Sciences

- Stefan Wenigmann, CISO, Bucher Industries
- David van Croust, Senior Director Europe, Claroty
- Marco Tagliaferro, Senior IT Security Manager, Avon
- Thomas Kuhn, CISO, S.Oliver
- Trish McGill, Sr. SME Cyber Security, Confidential

### PRESENTATION

09:40 **To Protect your IP, You Must Think Like a Hacker**

In this session, we will take you through a discussion on how hackers think about their targets, what they look for, and how your product security requirements can combat them. Starting with the maturing of the Secure Software Development Lifecycle, delving deeper on software protection, and highlighting where advances in software protection are headed, Niels will demonstrate how your software businesses would significantly benefit from the protection of the key algorithms and critical data advancing your IIoT ecosystems.

- Niels-Axel Berthelsen, Director of Business Development, Connected Manufacturing, Irdeto

10:10  NETWORKING BREAK

### PRESENTATION

10:50 **Exploring the Paradigm of a Calibrated Risk Probability Assessment**

- Petri Ala Annala, CISO, Nobia

### PRESENTATION

11:20 **Securing the Path to Digital Manufacturing**

- Protecting intellectual property, plant assets, and production integrity with converged-access security technologies
- Transforming diverse manufacturing processes into a unified and highly secure communication system that links infrastructure, machines, and people
- Unifying security implementations for IT and OT environments

- Christian Koch, Senior Manager GRC & IoT/OT, NTT Ltd.

### FOCUS GROUPS

Choose 1 of 2 Discussions:

11:50 **1. A Guide to a Systematic and Viable Patching Strategy for OT Systems**

- Helping key stakeholders understand what patching is and why it is worthy of funding
- Addressing cost/benefit analysis and feasibility
- Best practices when developing a well-structured patch strategy and when putting it to test

- Dana Samaroo, IT Supervisor, Caribbean Gas Chemical Ltd.

### 2. Insights on Privacy-Preserving Architecture in the Field of Industrial Optimisation

Industry 4.0 with its interconnected devices can benefit from optimisation strategies for industrial automation. Effective optimisation strategies are built on large amounts of data from different sources. When retrieving data from companies, privacy challenges for the protection of intellectual property need to be addressed. In this talk, we present the results from an ongoing research project for a privacy-preserving architecture in the field of industrial optimisation.

- Alexander Giehl, Security Expert, Fraunhofer AISEC

12:30  SEATED LUNCH  
HOSTED BY: **irdeto**

### FOCUS GROUPS

Choose 1 of 2 Discussions:

13:30 **1. Leveraging Secure, Real-time Data Predictive Analytics to React to Threats in your Network**

- Improve your production lifecycle by reacting to live data
- Encrypt the data in motion across untrusted networks
- Respond quickly to isolate threats in your environment

- Brandon Witte, CEO, SightLine & John Hales, Security Consultant, Unisys

**2. Bringing OT in an IT SOC**

In this session we will talk you through the journey of merging OT threat detection in an IT SOC, focusing specifically on how to address technology, human resources and accountability.

- Eric ten Bos, Global Lead OT/IIoT Cyber Security, Thales

### CASE STUDY

14:10 **Insights into a Cyber Security Culture Which Grows through Collaboration between IT and OT Cyber Security Projects**

- Peter Dornheim, Head of IT Security, Festo

### PRESENTATION

14:40 **Manufacturing in R&D: Learning from the Rest of R&D OT**

R&D OT environment is wide and diverse. Historically and presently these areas have been treated very differently. However with IT-OT convergence there are synergies and we can learn from each area. Specifically in this presentation we discuss the R&D OT challenges that are starting to emerge in the manufacturing areas.

- Yui Tateno, R&D Pharma OT Security, GSK

### GROUP DISCUSSION

15:10 **The First 48 Hours After an OT Security Incident**

- What steps can we take to accelerate the triage process?
- Once the nature and impact of the incident have been assessed, what post-incident procedures should be adopted?
- How can the business continuity plan effectively be implemented?
- What lessons have you learned in crisis management scenarios?

Moderator: Thomas Nowey, CISO, Kronos

15:50  CLOSING REMARKS & EVALUATION FORMS BY:  
**Stefan Wenigmann**, CISO, **Bucher Industries**

16:00 **END OF SUMMIT**



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## Upcoming Events:

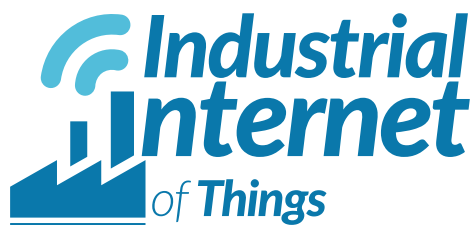


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