

Conference on Shaping a globally secure Industrie 4.0 Ecosystem

Enabling international interoperable security policies

Agenda (all times CET)

Day 1 – Trustworthiness and the way towards interoperability
27th January 2021

Moderation: Ina Karabasz

11:00 a.m.-11:05 a.m.	Welcome and Introduction
11:05 a.m.-11:15 a.m.	Welcome Note from the Federal Ministry for Economic Affairs and Energy, Germany – Elisabeth Winkelmeier-Becker (Parliamentary State Secretary)
11:15 a.m.-11:30 a.m.	Welcome Note from the European Commission – Max Lemke (Head of Unit E.4 for Internet of Things) Session on “Trustworthiness” – Trustworthiness for secure supply chains within a framework of international standards.
11:30 a.m.-11:50 a.m.	Dr. Wolfgang Klasen (Siemens / Plattform Industrie 4.0): Achieving Trustworthiness of Secure Supply Chains for Industrie 4.0
11:50 a.m.-12:10 a.m.	Vyacheslav Zolotnikov (Kaspersky ICS CERT): Approaching industrial IoT trustworthiness in international standards and guidelines
12:10 a.m.-12:30 a.m.	Ayaji Furukawa (Toshiba Corporation / RRI): The Role of Trustworthiness in secure supply chain for connected industries
12:30 a.m.-12:45 a.m.	Q&A Session
12:45 a.m.-01:15 p.m.	Prof. Dr. Georg Borges (Institute for Legal Informatics, Saarland University) and Benjamin Korth (Fraunhofer Institute for Material Flow and Logistics IML): Towards the automation of trustworthiness: Basic concepts and practical demonstration from the „Industry 4.0 Legal Testbed”
01:15 p.m.-01:45 p.m.	Break

	Session on “Interoperability” – How to make the concept of ‘trust’ interoperable and which standardization approaches will lead to interoperability?
01:45 p.m.-02:05 p.m.	Dr.-Ing. Lutz Jänicke (Phoenix Contact / Plattform Industrie 4.0): Secure retrieval of CAE data
02:05 p.m.-02:25 p.m.	Jens Mehrfeld (BSI): Trust infrastructures for Industrie 4.0 – Requirements, solutions, and challenges
02:25 p.m.-02:45 p.m.	Torsten Förder (Beckhoff Automation): Standardizing a Generic Trust Anchor API for Industrial IoT Devices
02:45 p.m.-03:00 p.m.	Q&A Session
03:00 p.m.-03:15 p.m.	Recap Panel

Day 2 – Policy approaches, Digital Sovereignty, and the role of GAIA-X
28th January 2021

Moderation: Ina Karabasz

11:00 a.m.-11:05 a.m.	Welcome and Introduction
11:05 a.m.-11:30 a.m.	Keynote Interview with Dr. Thomas Koenen (Head of Department Digitalisation and Innovation, BDI)
11:30 a.m.-12:15 a.m.	Panel discussion: “Policy approaches: How do authorities respond to the challenges of industrial internet security?” Participants: <ul style="list-style-type: none">• Dr Apostolos Malatras – European Union Agency for Cybersecurity (ENISA)• Dr. Sandro Mari – Ministry of Economic Development, DG for Communications Technologies and Information Security - High Institute for ICT• Koji Nakao – National center of Incident readiness and Strategy for Cybersecurity (NISC)• Arne Schönbohm – Federal Office for Information Security (BSI)
12:15 a.m.-12:30 a.m.	Q&A Session
12:30 a.m.-01:00 p.m.	Break Session on “Digital Sovereignty and the role of GAIA-X” – International data spaces, requirements for data sovereignty and Cyber Security in the Republic of Korea. Spotlight: GAIA-X.

01:00 p.m.-01:25 p.m.	Prof. Keunhee Han (Korea University, Graduate School of Information Security): Manufacturing Security in Korea – An Overview
01:25 p.m.-01:50 p.m.	Dr. Thomas Usländer (Fraunhofer IOSB): International Data Spaces tailored to Industrie 4.0 - How to Address the Requirements for Data Sovereignty
01:50 p.m.-02:15 p.m.	Hubert Tardieu (interim CEO GAIA-X AISBL): The role of GAIA-X for achieving Digital Sovereignty
02:15 p.m.-02:30 p.m.	Q&A Session
02:30 p.m.-02:45 p.m.	Recap Panel “What has been achieved and what’s going to be ‘next big thing?’”

Day 3 – Paper session and transfer to SMEs via demonstrators
29th January 2021

Moderation: Michael Jochem,
Robert Bosch GmbH / Plattform Industrie 4.0

11:00 a.m.-11:05 a.m.	Welcome and Introduction Paper session covering the topics ‘Agile Regulations’, ‘Industrie 4.0 Architectures’, ‘Asset Administration Shell’ and ‘Trustworthiness’
11:05 a.m.-11:20 a.m.	Dr. Antonis Michalas (University of Westminster / Lund University): Factory Belt: Secure and Trusted Industry 4.0 Architectures
11:20 a.m.-11:35 a.m.	Andre Bröring (OWL University of Applied Sciences and Arts): Secure Asset Administration Shell exchange with Distributed Ledger Technology
11:35 a.m.-11:50 a.m.	Dr. Jürgen Neises (Fujitsu Technology Solutions GmbH): Trustworthiness as facilitator of Policy and Access Management in Supply Chains
11:50 a.m.-12:05 a.m.	Dr. Jed Horner (Standards Australia): Building cyber resilience through agile regulation – standards as enablers
12:05 a.m.-12:15 a.m.	Q&A Session
12:15 a.m.-12:45 a.m.	Break Demonstrator session discussing practical implementation approaches
12:45 a.m.-01:05 p.m.	Tianzhe Yu (ifak): Implementing certificate-based authentication on application level
01.05 p.m.-01:25 p.m.	Nils Herzberg (SAP): Open Industry 4.0 Alliance - Putting the secure Industry 4.0 into reality

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| 01:25 p.m.-01:45 p.m. | Prof Dr Ir Egbert-Jan Sol (TNO Industry): Cyber secure factory floor -
The technology for a tightly locked firewall with only OPC-UA access is
there, but educate and train your OT-people |
| 01:45 p.m.-02:05 p.m. | Friedrich Volz (Fraunhofer IOSB): Sharing of Asset Administration Shells
with the International Data Spaces Connector |
| 02:05 p.m.-02:30 p.m. | Q&A Session |
| 02:30 p.m.-02:45 p.m. | Closing Remarks |