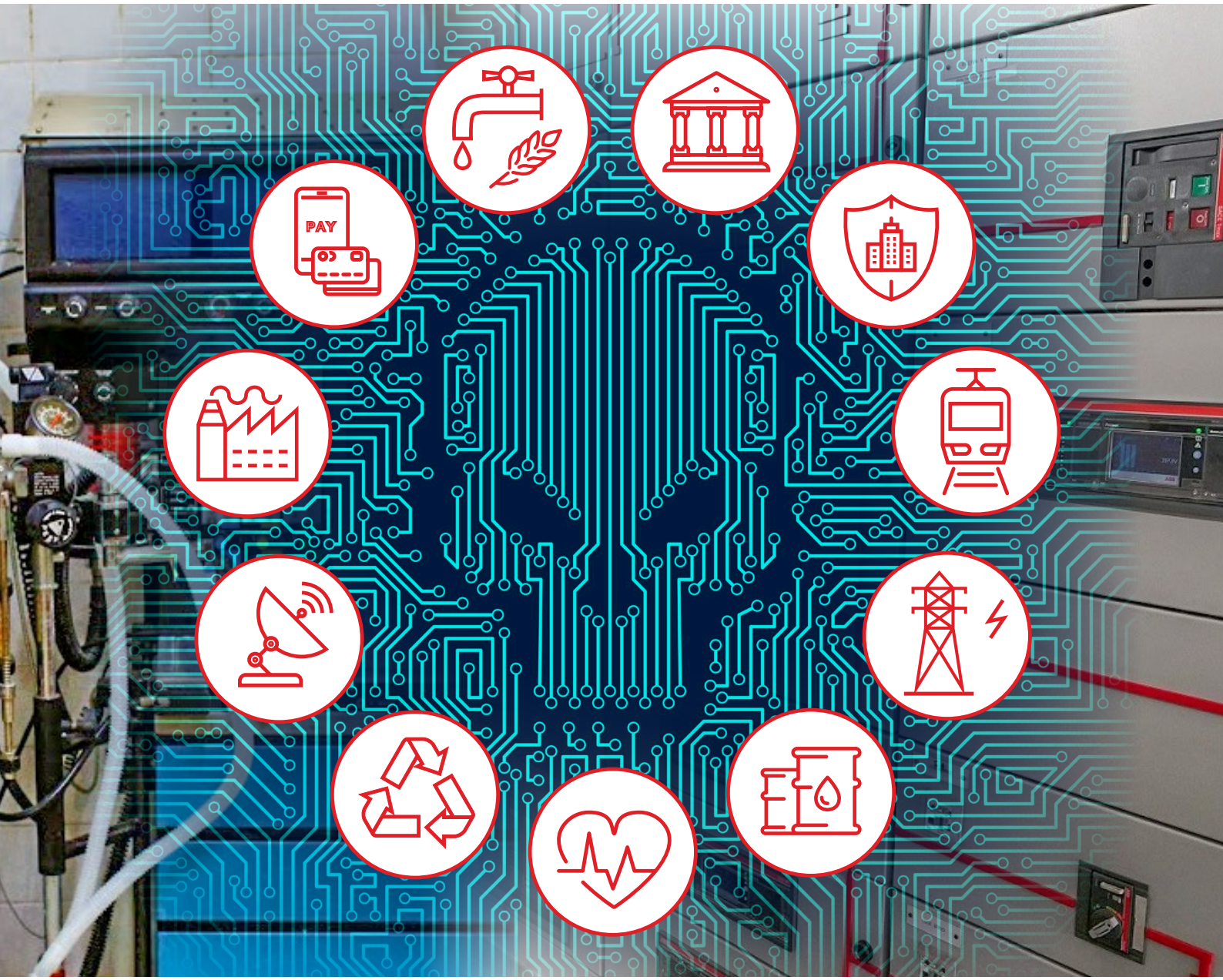
SWISS **OT-IT CYBER SECURITY** FORUM



Critical Infrastructures:
Are Our OT Devices Secure?

Securing networks with old and non-patchable devices or other insecure black boxes: Strategies, concepts, and implementation in context of critical infrastructure like e. g. hospitals and energy sector

7th Forum, September 13, 2022, 12:00-20:00
In-Person, Die Mobiliar, Bundesgasse 35, 3001 Berne

SWISS OT-IT CYBER SECURITY FORUM

Mission

Why should you attend?

The Swiss OT-IT Cyber Security Forum Series is a sequence of events which takes place three times per year, with the strategic goal to unify OT and IT decision makers. The main objective is achieving significant advances in security.

Background:

Historically, the two communitities had completely different set-ups:

- IT used to follow the speed of technology evolvement, with product cycles of about three years and extremely fast fixing of faults and errors: short reaction time of less than one hour is common practice by today.
- OT used to create solutions in the mechanical space with life cycles reaching from 25 to 70 years, with little maintenance on average every 3-5 years.
  In the past few years the use of IT in OT installation has been increasing dramatically and OT is now fully integrated in cyber-space. Therefore, the need to connect the two communitities is now more important than ever before in order to address the mutually dependent topics including security issues.

Design of the forum:

- 3 meetings per year
- 2-3 talks from industry leaders delivered in English
- Several roundtables lasting 1 hour
  in D, F and E at every meeting

Participation fee:

- CHF 360 per event, alternatively CHF 960 for three events (one year)
- Participation by invitation only. Proposal for inviting additional key persons mail to:
  bmhaemmerli@OT-IT-CyberSecurityForum.ch

Content:

The content will be coordinated by Prof. Dr. Bernhard M. Haemmerli, Hochschule Luzern, and will be created by the organizing committee.

Organizing Committee:

Drives the process for the meetings with delegates, sponsors and selected partners.

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Critical Infrastructures: **Are Our OT Devices Secure?**

Securing networks with old and non-patchable devices or other insecure black boxes: Strategies, concepts, and implementation in context of critical infrastructure like e. g. hospitals and energy sector

Insecure devices need micro segmentation as narrow as the functionality allows. In addition, the analysis and monitoring of network streams should be another line of defense: automated search for unusual behavior and anomalies with advanced machine learning and artificial intelligence methods may reveal additional malicious activities.

In this context, we will discuss key issues and share experiences of networks with old and non-patchable devices and insecure black boxes with the goal to have a clear view on this challenge. Such devices remain operational for twenty to thirty years, often with no security measures, and no patch mechanism. While advanced security experts start to demand quantum-safe cryptography for being life-time secure, the OT device integration is lagging and still fights with basic security issues. The following questions are relevant:

- How to identify all OT asset concerned that must be secured?
- Strategies for securing these types of devices, including future research ideas
- How to learn from advanced solutions (energy sector) and performing the right level of monitoring.

Keynotes:

The challenge of networks with old devices and two strategic views on mastering the challenge.
Erik Dinkel, CISO USZ and Michel Buri, CISO Hopital VS

Advanced security and monitoring solutions from the energy sector: what can we learn?
Rénald Marmet, Expert OT Systems bei BKW Hydro
Innovative and new products for better OT-Security
Tim Blazytko,co-founder emproof, OT-Security expert

Roundtables:

Roundtable 1
Identify asset, life cycles, risks and need for action, including re-procurement for healing the overall situation, and reducing the risks to the acceptable level.

Roundtable 2
How to address the challenge to enhance the OT cyber security stepwise to reach a more secure status? Successful planning and implementation examples, learning from experience.

Date: Tuesday, September 13, 2022
Time: 12:00 h - 20:00 h
Place: Die Mobiliar, Bundesgasse 35, 3001 Berne, close to Bern SBB main station

7th Swiss OT-IT Cyber Security Forum

Sept. 13, 12.00 – 17:30h
respective with social activity and dinner 20:00h

Agenda

In-Person Meeting, Die Mobiliar, Bundesgasse 35, 3001 Berne
on participants special request, online attendance may be made possible

12:00	Lunch
12:45:	Networking amongst participants
13:15	Welcome note by Mobiliar and Prof. Bernhard Hämmerli
13:30	**The challenge of networks with old devices and two strategic views on mastering the challenge.** Erik Dinkel, CISO USZ and Michel Buri, CISO Hopital VS
14:00	Roundtable 1: **Identify asset, life cycles, risks and need for action, including re-pro curement for healing the overall situation, and reducing the risks to an acceptable level**
14:55	Exchange between groups
15:10	Break
15:40	**Advanced security and monitoring solutions from the energy sector: what can we learn?** Rénald Marmet, Expert OT Systems bei BKW Hydro **Innovative and new products for better OT-Security** Tim Blazytko, co-founder emproof, OT-Security expert
16:20	RoundTable 2: **How to address the challenge to enhance the OT cyber security stepwise to reach a more secure status? Successful planning and implementation examples, learning from experience**
17:05	Exchange between groups
17:20	Warp up and information on next meeting
17:30	Social activity at SBB main station Berne, if possible with OT security visits
19:00	Dinner at Della Casa, Schauplatzgasse 16, 3011 Bern, 1. Stock
20:00	End of Meeting

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Improving OT security: Architecture, zoning, secure identity (IAM), privileged access (PAM), secured remote access (RAS), and other measures.

OT security personnel is challenged by rapidly increasing internet connections of OT installations. Core topic: Which measures are quick wins, and/or easy to install? Which measures are to most effective ones? And in this debate, we will focus on all options, including personnel and organizational issues. As the takeaway we want to elaborate a large variety of options, with examples of proven approaches.

Date:	Thursday, March 02, 2023, 12:00-20:30h
Place:	Hitachi Energy Baden
Speakers:	TBA
Roundtable 1:	Organizational measures: How is technology enabled to its full security power?
Roundtable 2:	Technology for better Security: a debate on options and performance of measures?

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Supply chain necessity against the background of the divide in NATO and Russia / Asia block. What does this mean for OT and IT security, and which actions must be taken?

Core topic: The security requests to suppliers are the same, as we have ourself: Software testing and verification (even formal?) and an integrated monitoring of the software supply chain. Furthermore, living and consequently applying a Coordinate Vulnerability Disclosure Process (CVD) is essential. We refine, and debate, how to speed up these requests.

Date:	Thursday, June 22, 2023, 12:00-20:30h
Place:	TBD
Speakers:	TBA
Roundtable 1:	What are the challenges around the suppliers of the opposite block and is an escape from supplier issues feasible, and desirable?
Roundtable 2:	Discussing potential solutions: With which actions the security can be maintained at high level, and are multi block solutions good enough?

SWISS **OT-IT CYBER SECURITY** FORUM

Registration

Register by replying to the invitation email with all your details – or by filling out this form and sending through a scan or alternatively through a smartphone picture.
Send this completed form to: info@OT-IT-CyberSecurityForum.ch

Online participation will be available on your special request to the organizer.

☐ Three consecutive forums for CHF 960.–
3 Forums: Forum 7 (09.09.2022), Forum 8 (02.03.2022), and Forum 9 (20.06.2023)

☐ 7th OT-IT Cyber Security Forum, Sept. 13, 2022 for CHF 360.– (single event)

☐ I register for dinner at Restaurant Della Casa in Bern (Sept. 13, 2022, 19h) (sponsored)

First Name ..... Last Name .....

Organisation .....

Job Title .....

Street / No. ..... ZIP / City .....

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Please add instructions for invoice, needing an offer etc.:

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