



OT – IT – Cloud: How to handle cloud and multi-cloud securely?

Fact is that cloud migration has been foreseen from suppliers, as an unavoidable given. Therefore, we examine security.

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 communities had completely different set-ups:

- IT used to follow the speed of technology evolution, 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 communities 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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First, we know that many experts do not like the cloud, and think they have better control on their infrastructure, if the equipment is local, and locally managed. However, reflecting which options you have for crises management and recovery, then it does not look good for local installation. External experts only can, mostly supplier can help. Therefore, it is an error to believe, that ownership leads to better control.

Second, we observe, that the security teams of cloud services are by far more experienced and provide a very high base level security, which is very difficult to bring into local installations. When we compare Swisscom with Google, the scale of security is obvious: Swisscom has about 500 experts in SOC, Google around 5000. The question who provides more security is easily answered.

Third, the cloud shift is dictated by the suppliers: Smart Meter suppliers, Honeywell, Siemens, Schneider Electric and many others deliver devices, which report by default into the cloud and give the customer access to their data in the cloud. This means that customers have an easy access to their data and have many options to process their data. And in addition – many security challenges are already resolved, in the cloud.

We have to identify remain security issues which the customers must still care for, and how the shared responsibility is designed. Some of the tasks are contractual, some in security management, but also some are in technology.

Discussion points on these issues are:

- Which security level provides the cloud.
- How to coordinate security in multi-cloud environments.
- How to design an overall security on-prem to cloud, which is really waterproof.

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Keynotes:

Essential issues for OT driven organizations when transitioning to the cloud

Nabil Mghazzi Chaa, OT Cybersecurity Expert, Kudelski

Securing the Future: The Role of Cloud Services in Advancing On-Premise IT Security

André van Schalkwyk, CISO Straumann adn Yuecel Karabulut, Principal Security Solutions Architect, Amazon Web Services

Roundtables:

Roundtable 1: Cloud and cloud security: what does it mean for OT and IT?

Roundtable 2: OT single and multi-cloud: how to provide security and resilience?

Date: March 7, 2024

Time: 12:00 h - 20:30 h

Location: Amazon Web Services, Marstrasse 2 – 2. Stock, 8002 Zürich

Train: 5 min from Train station Enge, 10 minutes by tram from main station

Parking: <https://maps.app.goo.gl/tA9HCpHHti8BhBMX6> (max 4h)

<https://maps.app.goo.gl/nmmRJVyWWTERYEKdA> (max 12h)

<https://maps.app.goo.gl/cRoZqKBFfM28h1TL6> (12h max, but few places only)

11th Swiss OT-IT Cyber Security Forum

March 7, 12.00 – 17:30

social activity and dinner end at 20:30

Agenda

In-Person Meeting: Amazon Web Services Zürich

Marstrasse 2 – 2. Stock, 8002 Zürich

On participants special request, online attendance will be provided.

12:00 Lunch at AWS

12:45: Networking amongst participants

13:15 Welcome note by AWS and Prof. Bernhard Hämmerli

13:30 Essential issues for OT driven organizations when transitioning to the cloud

Nabil Mgezzi Chaa, OT Cybersecurity Expert, Kudelski

14:00 Roundtable 1:

Cloud and cloud security: what does it mean for OT and IT?

14:55 Exchange between groups

15:10 Break

15:40 Securing the Future: The Role of Cloud Services in Advancing On-Premise IT Security

André van Schalkwyk, CISO Straumann and Yuecel Karabulut, Principal Security Solutions Architect, Amazon Web Services

16:10 Roundtable 2:

OT single and multi-cloud: how to provide security and resilience?

16:55 Exchange between groups

17:10 Warp up and information on next meeting

17:30 Workshop “connecting IoT securely to cloud” as social activity
AWS provides for each participants sensors, and with good guidance
(in group or alone) we can connect securely to internet. Very good experience!

19:15 Invited Dinner at Hotelfachshule, Seestrasse 141, Zürich

20:30 End of the meeting

Swiss OT-IT Cyber Security Forum 12

Real incidents: What we can learn from them?

Does our own organization need to be affected by incidents, or can we learn from the incidents of others? For learning from the incidents of other organizations, we need to know those incidents in detail, and we need to know about the learning process which was triggered in the other organization. The grand challenge is how to learn from incidents better than we do today.

Date: Thursday, June TBD, 2024, 12:00-20:30h

Location: Greater Zurich area, final answer pending

Speakers: TBD

Roundtable 1: Incident sharing: How do you share, and how do you receive information on incidents: What are the improvements we should aim for?

Roundtable 2: A new culture for learning from incidents: How to implement it within our company?

Swiss OT-IT Cyber Security Forum 13

Dear Participants,

Do to an error (only single choice in mentimeter, instead of multiple choice, we cannot find out, what your interest for this Forum is. We will offer a bunch of topics, on which you can select, what you like.

Date: Thursday, September 13, 2024, 12:00-20:30h TBD

Place: (Bern Area)

Speakers: TBD

Roundtable 1: TBD

Roundtable 2: TBD

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 latest one week before the event.

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- Three consecutive forums for CHF 960.-
Forum 11 (07.03.2024), Forum 12 (20.06.2024), and Forum 13 (13.09.2024),
 - 11th OT-IT Cyber Security Forum, March 7, 2024 only, at the price of CHF 360.-
 - I Register for AWS social activity (IoT Workschop)
 - I Register for the sponsored Dinner 19:00-20:30 at Restaurant **“Hotelfachschule”**

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First Name Last Name

Organisation

Job Title

Street / No. ZIP / City

Phone Cellphone

Email

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

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