



Consortium

11 partners (5 countries)

Project Coordinator

Dr. Klaus-Michael KOCH
coordination@certmils.eu

Technical Leader

Torsten VOEGLER
torsten.voegler@sysgo.com

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Compositional security certification for medium- to high-assurance COTS-based systems in environments with emerging threats

Message from the Coordinator

2020 is almost over. What a “special” year for all of us! Fortunately, in certMILS we work in cybersecurity, which is mostly virtual anyways. Even so, we would have preferred to meet physically once in a while to take a look at the implementation of our three pilots (subway, railway and smart grid) in real-life. Despite the difficult circumstances, our partners made a lot of progress this year which we, as the coordinator, are very proud of.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731456.



Project Progress/Highlights

2020 saw some progress concerning the evaluation and certification of our three project pilots, but also some delays caused by the global COVID-19 crisis.

Partner Schneider Electric from Spain together with the testing and certification company Dekra completed the evaluation of the smart grid pilot according to IEC 62443-4-1 and 4-2 and they are currently analysing the certification possibilities.

Our project's railway pilot is on track as well. After carrying out one of the first IEC 62443-4-1 certifications worldwide in 2019, EZU started to work on the assessment for Thales Austria according to IEC 62443-4-2. They expect the certification process to be finished by the end of this year.

Partner EZU is responsible for the certification according to IEC 62443-4-1 and IEC 62443-4-2 of the subway pilot coordinated by Q-media, which experienced some internal delays due to COVID-19. The documents for the certification are currently under preparation and the certification is on target for the first half of 2021.



If you want to

- **learn more on the MILS Community,**
- **participate in it,**
- **be informed about its status,**

then send an e-mail to community@mils.community or subscribe to the MILS mailing list mils@lists.technikon.com

The MILS mailing list is a public mailing list for discussions of Multiple Independent Levels of Security (MILS) architectural approach for security and safety, MILS components, MILS implementations, MILS research, MILS use-cases, real-time separation kernels, MILS evaluation and certification, MILS testing and vulnerability, and analysis of MILS systems.

Past and ongoing dissemination activities

Podcasts and Video

Due to the cancellation of most events because of COVID-19 - the certMILS consortium has started to use other channels to spread the word about their progress in the field of cybersecurity. For example, we recorded two podcast episodes with project collaborators from University of Rostock, Thales Austria and Sysgo. These episodes are part of a greater

podcast series called "EUAVATION: Spotlight on European Innovation" hosted by Technikon and available on all major podcast platforms. Another big success has been our 100 seconds project video, which aims at explaining certMILS to a broader audience. Visit our **project website** where you'll find all material in one place...and if you like it, share it!



Watch our video on **Vimeo!**



Listen to our Podcasts on **the EUVATION Channel!**



Virtual events and Publications

certMILS partners participated in several virtual events and workshops organized by standardization groups worldwide (e.g. CCUF, IEC 62443, railway's prTS 50701 and the ENISA ad hoc Working Group on the SOG-IS MRA successor certification scheme) and in important conferences in the field, for example the **International Common Criteria Conference** or the **European Safety and Reliability Conference**, where partner, Q-media presented a paper entitled "**Certification Cycles of Train Cyber Gateway**".

We are currently working on two conference papers. In one, we report on compositional architectures and certification in certMILS and in the other, we make a comparison between Common Criteria and IEC 62443 certification. The papers will be available on the project website once they are accepted.