



About the Project:

The overall objective of the EU-funded efforts on “India-EU Cooperation on ICT-Related Standardisation, Policy and Legislation” (2015 – 2023) is to promote closer alignment between India and Europe with regard to the production and use of ICT standards and to harmonise the exchange of statistical data, thereby facilitating trade, increasing interoperability and the ease of doing business for companies, and adding additional weight to European and Indian ICT standardisation efforts at the global level. The Project is in partnership with the Indian telecom SDO, TSDSI and the European ICT SDO, ETSI.

Key activities undertaken under the project include organisation of webinars, conferences/workshops, experts' visits from Europe, participation of Indian experts in standard meetings, tutorials and hackathons, etc.

Project Knowledge Sharing Webinars

The Project has organised 32 webinars in its Knowledge Series since its inception. They have seen participants from all over the world. The below 5 webinars were organised from Feb 2021 to Feb 2022.



1. Webinar # 28 – (February, 2021) VLC and Internet of Radio Light

by: **John Cosmas, Professor of Multimedia Systems in the College of Engineering, Design and Physical Sciences at Brunel University London**

Link to his presentation:

<https://www.youtube.com/watch?v=5fyHBRrZkE&t=344s>

by **Anand Srivastava, Professor in ECE department, IIT Delhi**

Link to his presentation:

<https://www.youtube.com/watch?v=ulBznSCueRM&t=391s>



With 5G and 5GB communication systems expected to deal with enormous advances compared to the existing 4G communication system and where there are a lot of important and common issues related to service quality including high capacities, massive connectivity, low latency, high security, low-energy consumption, high quality of experience, and reliable connectivity, there is a general agreement that the RF spectrum will not be sufficient for future-proof wireless communication. Therefore, in recent years, there has been a significantly increased interest from academia and industry to exploit optical spectrum using optical wireless communication (OWC) technologies and there is a wide range of OWC technologies, as a result of the many use cases they can serve. OWC, along with many other wireless technologies, is a promising candidate for serving the demands of 5G and 5GB communication systems.

The webinar presented how OWC technologies, such as visible light communication, light fidelity, optical camera communication, and free-space optics communication, will be an effective complementary solution for the successful deployment of 5G and 5GB systems.

Recording is available here:

<https://www.youtube.com/watch?v=8E8GKGqWBWE&t=25s>

2. Webinar # 29 – (June, 2021) “OpenAirInterface: Democratizing innovation in the 5G era”

by: **Florian Kaltenberger, Assistant Professor, EURECOM**

This webinar covered the current OAI state-of-the-art of the development, the OAI community and development process, as well as the OAI public license and its usage by academia and industry.

OpenAirInterface (OAI) is an open-source project that implements the 3rd Generation Partnership Project (3GPP) technology on general purpose x86 computing hardware and Off-The-Shelf (COTS) Software Defined Radio (SDR) cards like the Universal Software Radio Peripheral (USRP). It makes it possible to deploy and operate a 4G Long-Term Evolution (LTE) network today and 5G New Radio (NR) networks at a very low cost. Moreover, the open-source code can be adapted to different use cases and deployment and new functionality can be implemented, making it an ideal platform for both industrial and academic research. The OAI Software Alliance (OSA) is a non-profit consortium fostering a community of industrial as well as research contributors. It also developed the OAI public license which is an open source license that allows contributors to implement their own patented technology without having to relinquish their intellectual property rights. This new clause is in agreement with the Fair, Reasonable And Non-Discriminatory (FRAND) clause found in 3GPP.

Recording is available here:

<https://www.youtube.com/watch?v=juYvwoJno-k>



3. Webinar # 30 – (January, 2022) “oneM2M Risk/Benefit analysis”



by: **Andreas Neubacher, Head of IOT Standards Development, Magenta / Deutsche Telekom Austria**

The webinar dealt with the challenges of the IoT business and the obstacles to overcome, in order to create a lively and flourishing ecosystem.

It addressed the risk of “proprietary” IoT solutions and the problem of companies not finding the right path through the jungle of existing Standards, leading sometimes to “reinvent the wheel”. It also at the same time outlined the benefits of oneM2M to enable a stable and robust ecosystem, enabling different partners to cooperate commonly on solutions.

Recording is available here:

<https://www.youtube.com/watch?v=56jpZB83sts&t=611s>

4. Webinar # 31 – (January, 2022) oneM2M “Smart Lift private sector use case”



by: **Mr Enrico Scarrone, who is currently the Chairman of the Steering Committee of oneM2M (representing ETSI), and Chairman of ETSI TC smartM2M and is the Standardization Manager in charge of the coordination for IoT/M2M standardization in the TIM Group.**

by: **Marco Cogliati is a senior designer of lift systems as well as Director of Research Design & User Experience of Tre-E S.c.r.l., Managing Director of Tre-Engine S.r.l. and referent in the Italian UNI CT019 Technical Committee.**

The discussions explored the most different aspects of cybersecurity and standardisation in the lift sector and how standardisation and monitoring in the digital era can support the integration of the so-called “smart lifts”, taking into due consideration the most recent developments of the market in the Internet of Things age. The presentations highlighted how standardisation is evolving and adapting to the latest developments in the digital market, which is constantly changing and updating itself.

Recording is available here:

<https://www.indiaeu-ictstandards.in/webinars/>

You tube link:

https://www.youtube.com/watch?v=0pZl_jch1hM

5. Webinar # 32 – (February, 2022) oneM2M “Smart Home/Smart Building private sector use case”



by: **Mr. Sushil Kumar, Deputy Director General (IOT) in Telecommunication Engineering Centre (TEC) Government of India**

by: **Sebastien Bolle, R&D Project Director, Orange, France.**

This webinar presented the benefit of open standards like oneM2M to address the concerns and opportunities related to services like Smart Home and Smart Building require open standards for interoperability to manage the fleets of devices and to solve the “silos” concern they are still being faced and on opportunities through the rise of technologies like Artificial Intelligence, Edge Computing and even Digital Twins. These were illustrated by a Smart Building use case to focus on interoperability assets of oneM2M and how the use case was implemented in a demonstrator showcased in ETSI IoT Week.

Recording is available here:

<https://www.youtube.com/watch?v=0MiFHxvxbvM&t=2042s>

Other Information

For all other information, inclusive oneM2M MOOC and events supported,
Please visit our website: <https://www.IndiaEU-ICTStandards.in>

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