

SECURITY NEEDS FOR IoT ON 5G MOBILE NETWORKS



Speaker

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Affiliation

**Telenor Norway
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Where

Zoom

Abstract

5G networks are in these days rolled out all over the world but the primary offer is still Enhanced Mobile Broadband providing high data rates to smartphones. Actually, the ultimate goal of 5G is to support billion of IoT devices used in the different verticals such as smart home, smart city, ehealth, smart agricultures, etc. in an efficient and sustainable way. Consequently it is crucial to provide adequate protection both innumerable IoT devices and the underlying 5G network because their fault may cause serious damages to the society including the loss of life. Although security in 5G is manifold stronger than 4G it is still not sufficient and mostly focused on protecting the 5G network itself but not the IoT applications and their devices. This talk will present the research activities at the Secure 5G4IoT lab aiming at improving 5G IoT verticals and their devices.

Short bio

Prof. Dr. Thanh van Do obtained his MSc in Electronic and Computer Sciences from the Norwegian University of Science and Technology and his PhD in Informatics from the University of Oslo. In 1991 he joined Ericsson R&D Department in Oslo after 7 years of R&D at Norsk Data, a minicomputer manufacturer in Oslo. In 2000 he joined Telenor R&D and has been working with a variety fields such as distributed computing, mobile service personalisation, mobile commerce, privacy and security. He is now at the Telenor Research and in charge of Cyber security, Identity Management and SIM research activities. He has been project leader of multiple EU research projects and member of multiple conference technical committees. He is also professor at the Department of Computer Science at the Oslo Metropolitan University. He is author of over 250 publications at international conferences and journals. He is also inventor of 22 patents.