

5th Evolution Take of Wireless Communication Networks (TAKE-5)

WORKSHOP

Workshop to present the Espoo 5G test network which is now available to test functionality and features of future 5G networks. In the workshop TAKE5 partners will describe their initial views on the 5G networks covering; i) Networking virtualization and cloud technologies, ii) RAN cloudification, iii) Services that require network responsiveness and end user experience, iv) Cybersecurity, end to end security and trust in 5G, v) Innovation and new business opportunities.

TAKE5 project is part of cooperation with other national projects linked together through [5GTNF](#) project.

PROGRAM:

– 9:30-9:50 Registration

– 9:50-10:00 TAKE5 Welcome (AALTO)

– 10:00-10:15 Opening “Making 5G a commercial reality” (Nokia/Kimmo Kettunen)

– 10:15-10:35 “Virtual Function based 5G core” (Nokia/Hannu Flinck)

– **10:35-10:55 “5G radio access – status and selected challenges5 (Ericsson, Johan Torsner)**

– 10:55-11:15 “Mobility Challenges in Urban 5G Networks” (Huawei, Kari Leppanen)

– 11:15-11:35 “Programmable SDN Controller for 5G Mobile Backhaul Network Optimization” (Coriant, Janne Karvonen)

– 11:35-12:15 Lunch

– 12:15-12:30 Demos introduction

– 12:30-13:30 Demos walk through

AALTO: cloud EPC with SDN mobile backhaul

VTT: Joint 5G testbed for end-user services

Nokia: 5G – Wi-Fi radio Aggregation

UH: Off-the-Shelf Software Defined Wi-Fi Access Points

AALTO: NB-IOT

AALTO: Security CES-Realm GW

– 13:30-14:00 CES and 5G@II (AALTO, Raimo Kantola)

– 14:00-14:20 “Joint 5G testbed for end-user services” (VTT, Sami Ruponen and Seppo Horsmanheimo)

– 14:20-14:40 “5G Networks – Device Localization, Mobility Management and RAN Perspectives” (TUT, Mikko Valkama)

– 14:40-15:00 “Wireless Home Network Management Using SDN” (UH, Seppo Hätönen)

– 15:00 Closing



NOKIA



ERICSSON



HUAWEI



VTT



UNIVERSITY OF HELSINKI



EFORE
ENERGY FOR ELECTRONICS



TAMPERE
UNIVERSITY OF
TECHNOLOGY

EXFO Coriant

Lunch:

