WP2: Exploitation and Standardization

Ruka Winter School 10.-12.2.2025

Time	Monday 10.2.2025	Tuesday 11.2.2025	Wednesday 12.2.2025
8:00	*breakfast*	*breakfast*	*breakfast*
9:00	**Opening** DELTA and USWA intro	**lecture 1'30" (FHG)** Dependable Communication, realtime mesh and its enablers	**lecture 1' Riku Jäntti, Aalto** Advancing DECT NR+ for Industrial IoT: Custom Hardware, SDR Implementations, and Backscatter Integration
9:30	**lecture 1' Alexander Pyattaev (TAU)** Mesh networks	10:00	**0' 30" Demo session / exercises** Practical work with HW: - "First IoT Network" – Wirepas demo - Low Latency Audio and Video Transmission with DECT NR+
10:30	*coffee*	*coffee*	*Coffee*
10:45	**lecture 1'15" (Wirepas)** DECT NR+ Technology details	**lecture 1'15" Frank von Schoettler (SEW Eurodrive)** Modeling of industrial environments	**lecture 1'15" Demo session/ exercises** Practical work with HW: - "First IoT Network" – Wirepas demo - Low Latency Audio and Video Transmission with DECT NR+
12:00	*Lunch and skiing break*	*Lunch and skiing break*	*Lunch and skiing break*
15:30	*coffee*	*coffee*	*Coffee*
16:00	**lecture 1'30" (Wirepas)** DECT-2020 NR part 1	**lecture 1'30" Endika Llaguna (FonLabs)** Physical layer performance of DECT 2020 NR+ in factory automation / DECT 2020 NR+ MAC layer simulations for URLLC in industry	**lecture 1'30" Demo session/ exercises** Practical work with HW: - "First IoT Network" – Wirepas demo - Low Latency Audio and Video Transmission with DECT NR+
17:30	*break*	*break*	*Break*
17:45	**lecture 1'15" (Wirepas)** DECT-2020 NR part 2	**lecture 1'15" Rafael Pires (VTT)** Energy QoS monitoring	**lecture 45" Demo session/ exercises** Practical work with HW: - "First IoT Network" – Wirepas demo - Low Latency Audio and Video Transmission with DECT NR+
19:00	*end of program*	*end of program*	*end of program*
19:30	Dinner at RukaPizzeria	Dinner at Royal Ruka	Dinner at t.b.d.