



3rd Training on Standardization and Workshop on Testbeds and Visible Light Communications

Date: 6th-8th June 2022

Place: Instituto de Telecomunicações, Aveiro, Portugal

6th June

Afternoon – Workshop on Testbeds and Visible Light Communications

Virtualized and open 4G and 5G networks – tutorial and demo of ORAN based networks.

Part1 (1h) Virtualized 4G and 5G demo

- Overview on vRAN deployment
- Protocol stack - split options
- O-RAN splits example
- eNodeB and gNodeB protocol stacks and split options
- Physical and logical elements in cell-free paradigm
- B5G software concept (Cell-free implications)
- Communication requirements for proving the concept
- Software (eNodeB) demo setup
- Connection and messaging of eNodeB protocol stacks
- Q/A

Part2 (1,5h) ORAN part1

- Understanding of traditional RAN and Open RAN
- Overview on O-RAN ALLIANCE
- Working group and specifications of O-RAN
- Overall O-RAN architecture
- O-RAN specified interfaces and functionalities.

Part3 (1,5h) ORAN part2

- O-RAN radio intelligent controller (RIC)
- Specifications and functionalities of RIC
- Protocol stack - split options
- Deployment options of O-RAN architecture component

- Q/A

7th June

Morning – 3rd Training on Standardization

Lectures (part 1)

Lectures (part 2)

Afternoon – 3rd Training on Standardization

Practical aspects of standardization (part 1)

Practical aspects of standardization (part 2)

8th June

Morning - Workshop on Testbeds and Visible Light Communications

Invited Lecture – Talk on VLC by Marcos Katz, University of Oulu, Finland (TBC)

Talk on "Emerging Applications of VLC" by Maximo Morales Cespedes, UC#M, Spain

Talk on VLC from It-Aveiro (Atílio or Adão will contact Nero, TBC)

Afternoon – Infrastructures and Platforms from Instituto de Telecomunicações

ORCIP - Optical Radio Convergence Infrastructure for Communications and Power

Delivering - Talk and visit to the Laboratories

CLOSING OF THE THREE DAYS EVENT