

Posters & Demos

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OSL Chair, University of Patras



13/11/2024





Welcome

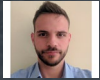
- Showcase the usage of Open Source software within Standardization for Smart Network and Services
- Investigate synergies between OSS and standardization
- Offer end-to-end open solutions based on OSS

Overview of Demos

- 19 Demos Showcasing the usage of Open Source Software
- ETSI Software Development Groups (SDGs) solutions:
 - OpenSourceMANO – OSM
 - TeraFlow SDN - TFS
 - OpenCAPIF – OCF
 - OpenSlice – OSL
- OAI, prplWare, Open5GS, Free5GC
- EU Funded projects:
 - ACROSS, PRIVATEER, INCODE, Sunrise, ImagineB5G, NANCY, FIDAL, HEXA-X-II, ADROIT 6G
- Organizations:
 - Ubitech, Eurecom, Univ of Patras, UCM, Uni of W Macedonia, PSC-Eu, Nemergent, Demokritos, 5G-MAG, Telefonica, Optare, Fraunhofer, CTTC, Huawei, FS-com, Nextworks

Stands

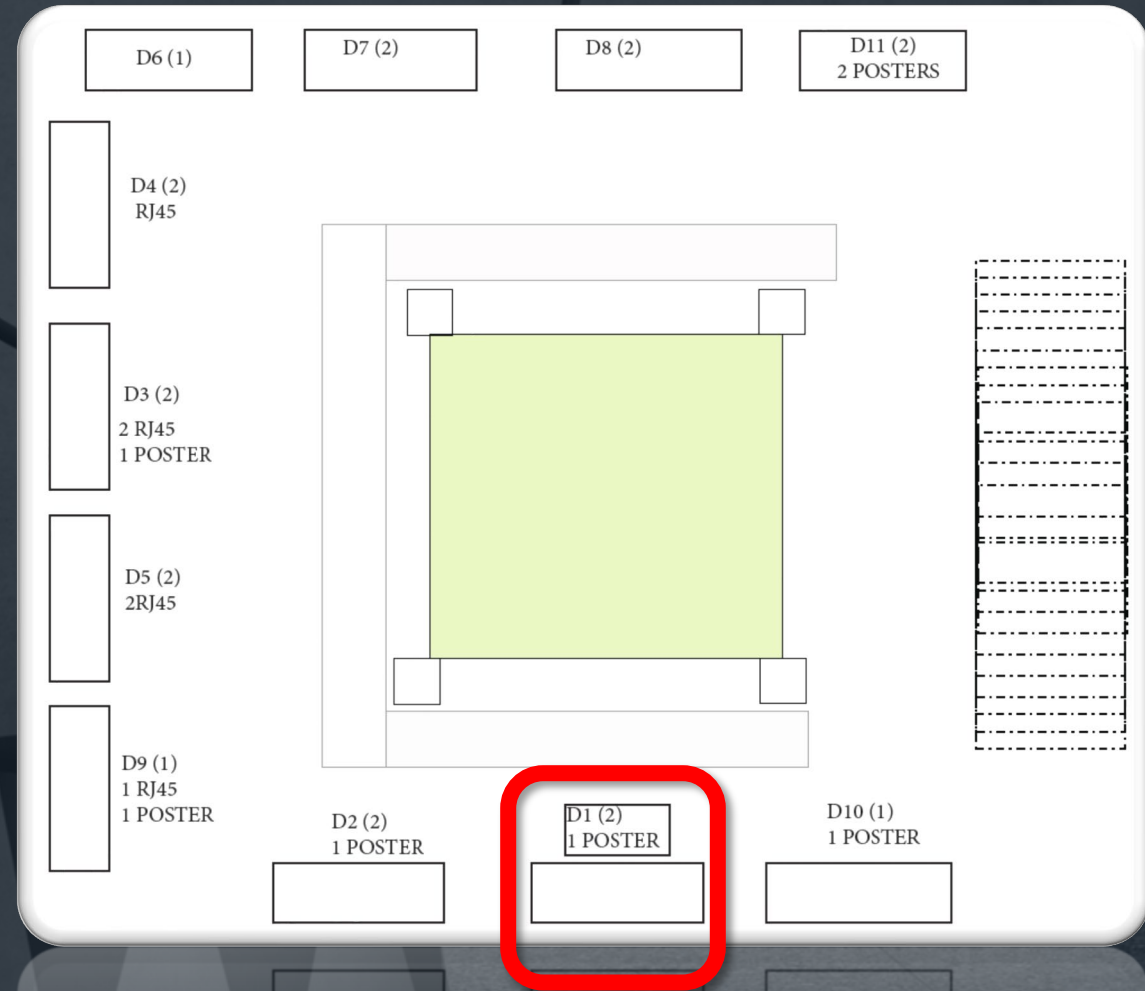
Stand D1



Open Source for Telco-Cloud: An ETSI SDG-based solution to facilitate zero-touch, multi-slice 5G deployments across the cloud-edge continuum.
Presented by Kostis Trantzas, University of Patras



Demonstrating Synergies between ETSI SDG OSL and LF Sylva
Presented by Cristos Tranoris, University of Patras



Stands

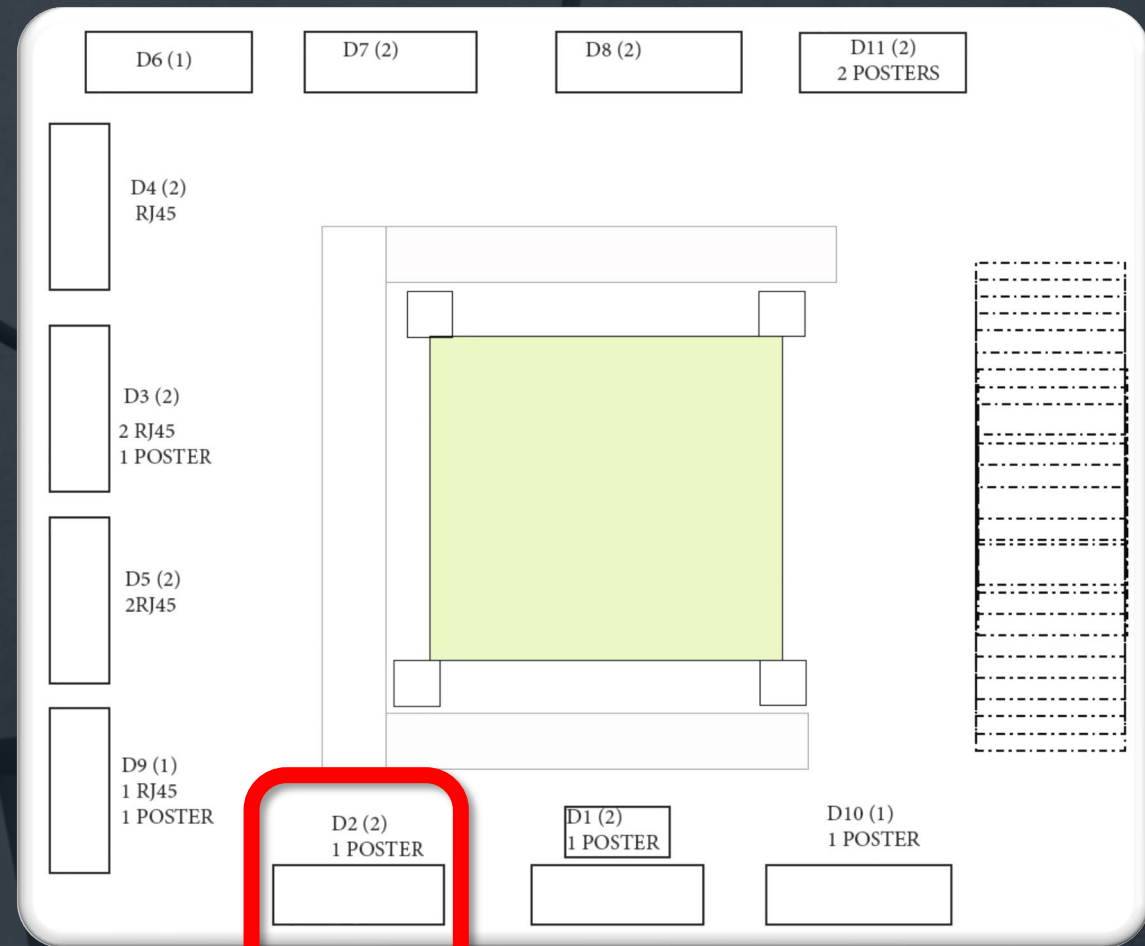
Stand D2



**Joint End-to-End Service and Resource
Orchestration with Built-In Telemetry Services**
Presented by Alexandros Valantis, Ubitech



**Multi-dimensional Trust estimation for Trust-aware
Slicing and Orchestration**
*Presented by Jesús Angel Alonso, Universidad
Complutense de Madrid*



Stands

Stand D3



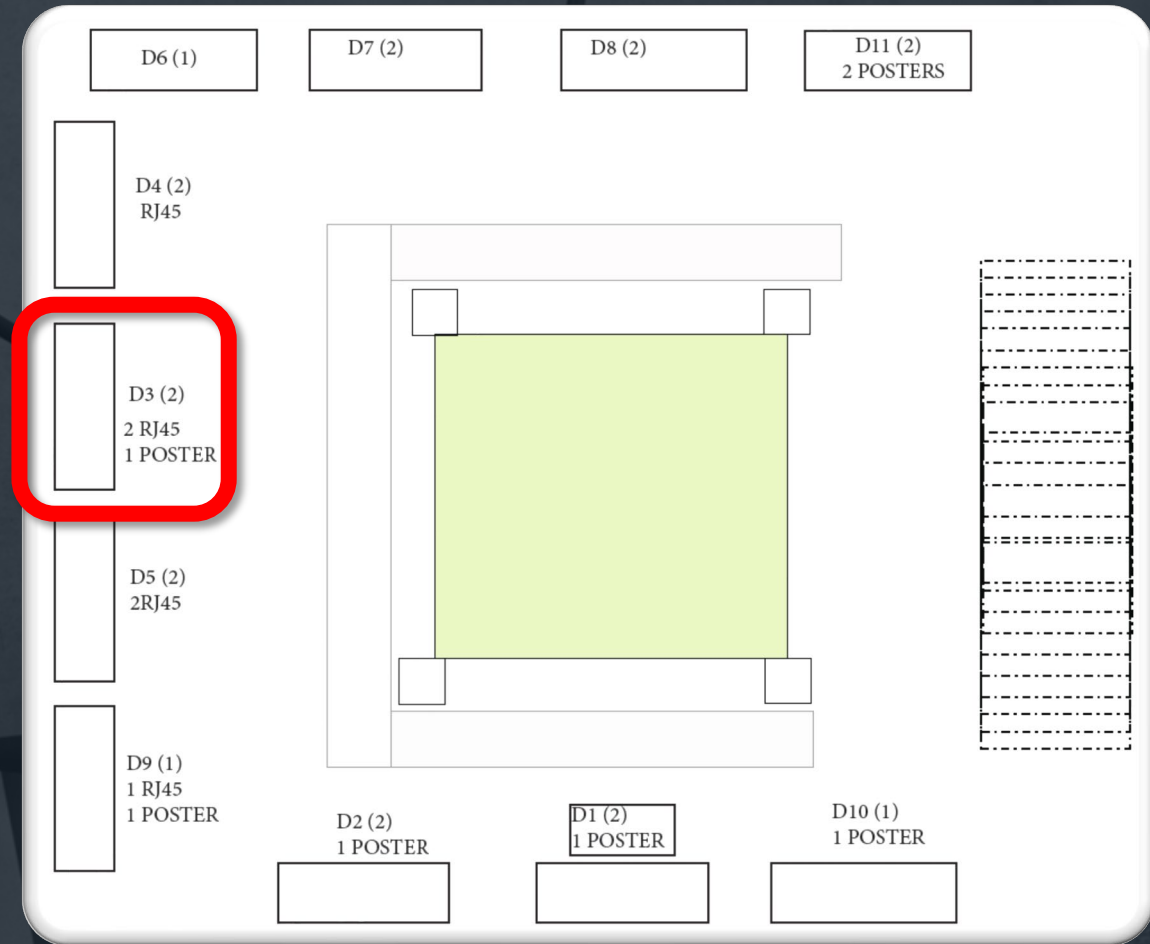
O-RAN-Based 5G Testbed for Public-Private Operator Communication

Presented by Dimitrios Pliatsios, University of Western Macedonia



CAPIF Integration with OAI Network Exposure Function

Presented by Giulio Carota, Eurecom



Stands

Stand D4

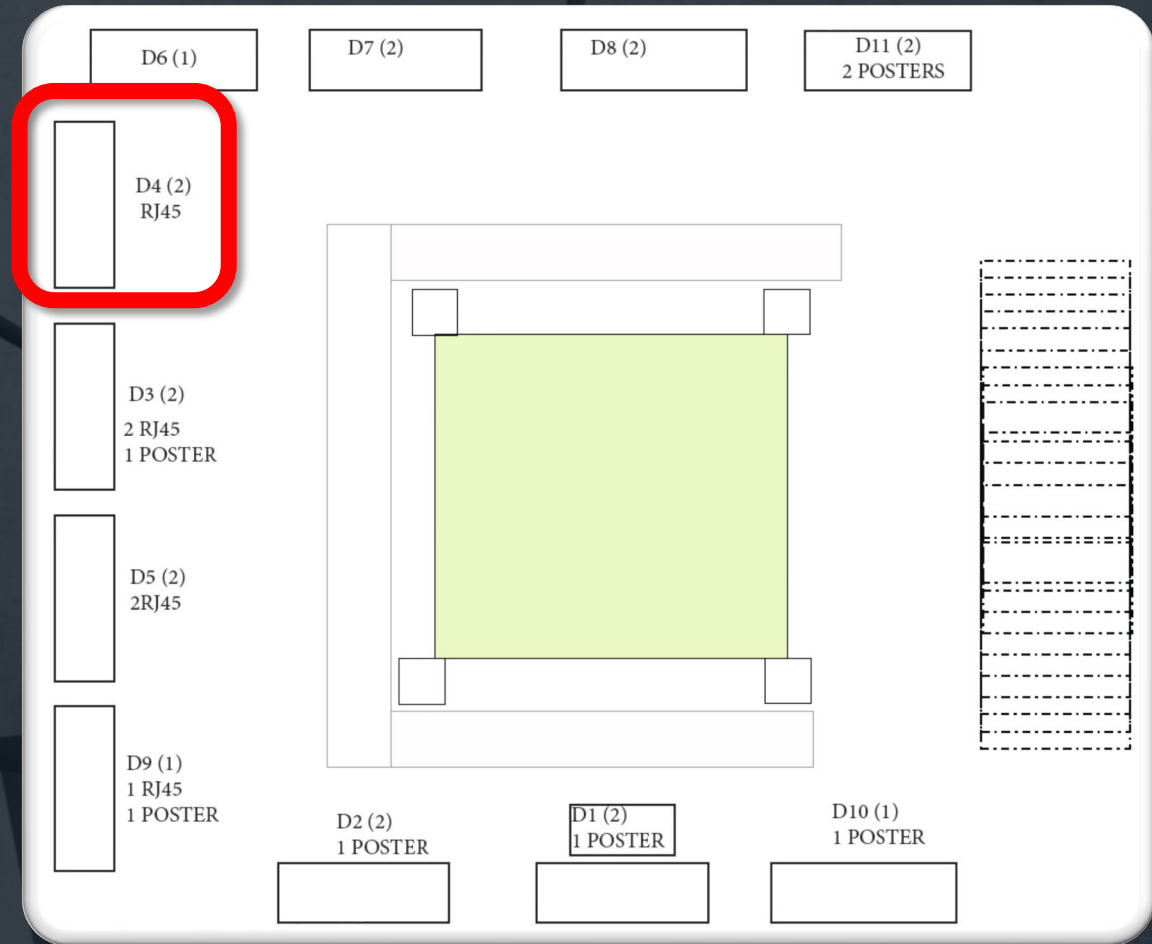
**SEAL Exposure and Operation through OpenCAPIF -
A Mission Critical Approach**

*Presented by Iván González Muriel, Nemergent
Solutions*



**OpenSlice as an Enabler of the FIDAL
Experimentation Framework**

Presented by Vasileios Katopodis, Ubitech



Stands

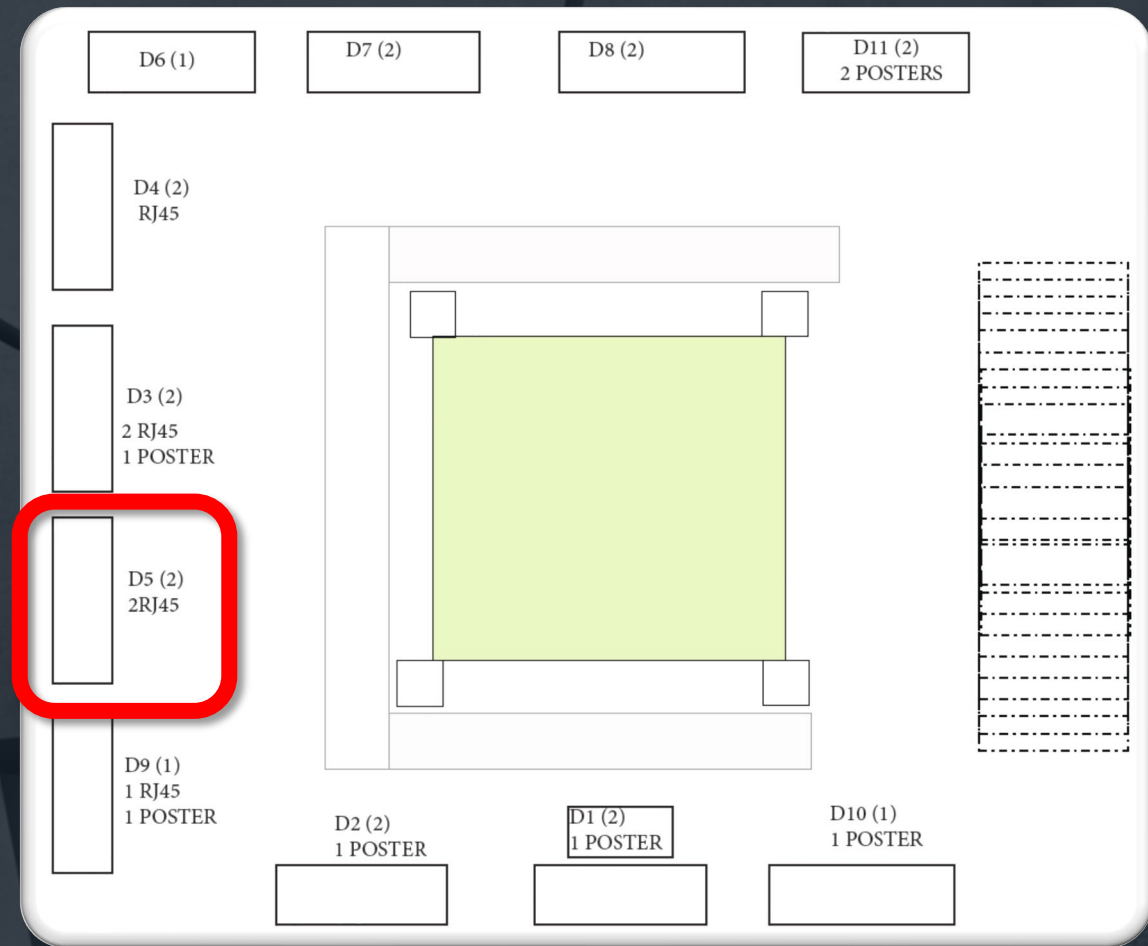
Stand D5

NEF and OpenCAPIF: Securing Exposed B5G Network Capabilities to Third-Party Apps

Presented by Dimitris Fragkos, Demokritos

Open-CAPIF integration in IoT-Edge-Cloud Continuum Meta Operating System

Presented by Andreas Sakellariopoulos, Demokritos



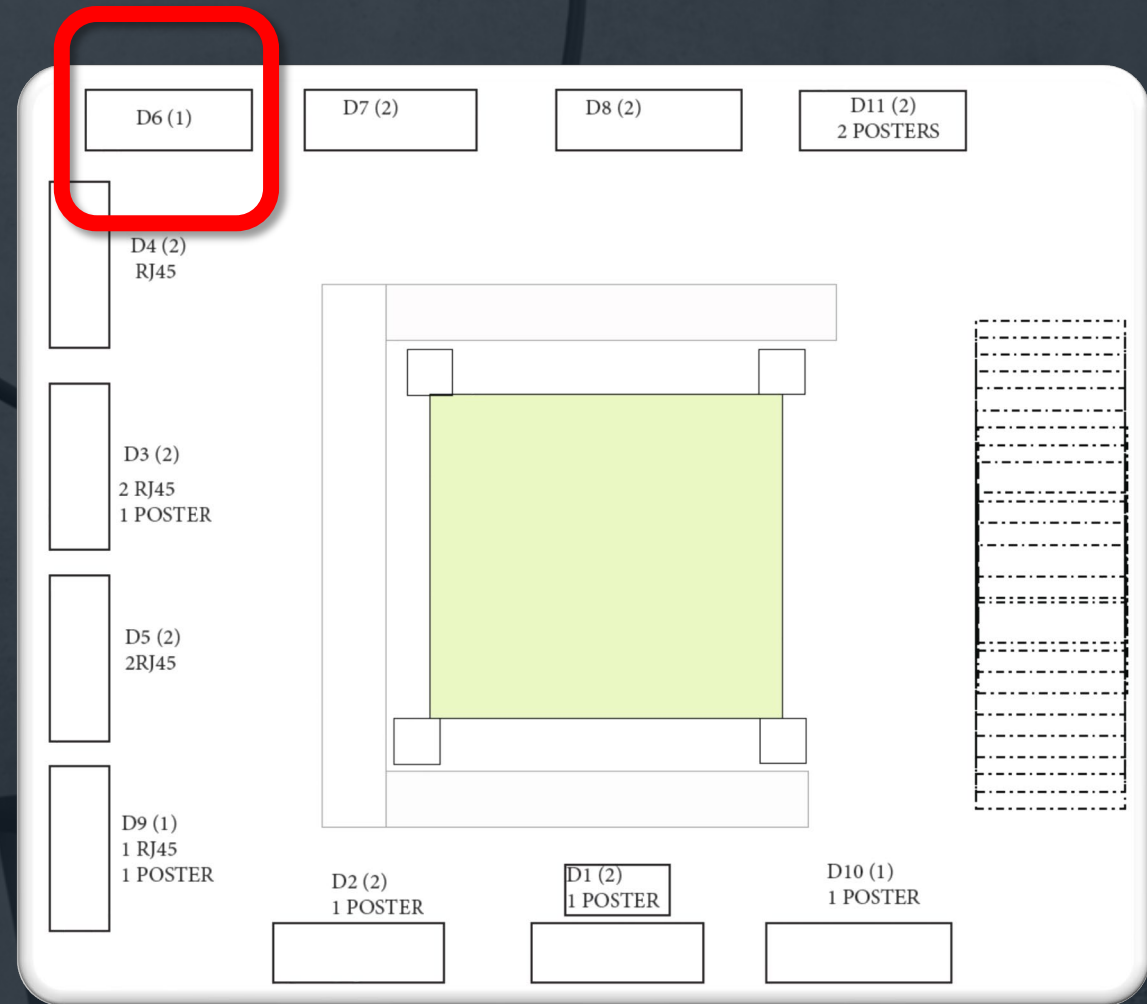
Stands

Stand D6



Open Standards & Open Source: Transforming Streaming and Immersive Media with 5G-MAG Reference Tools

Presented by Jordi Joan Gimenez, 5G-MAG



Stands

Stand D7

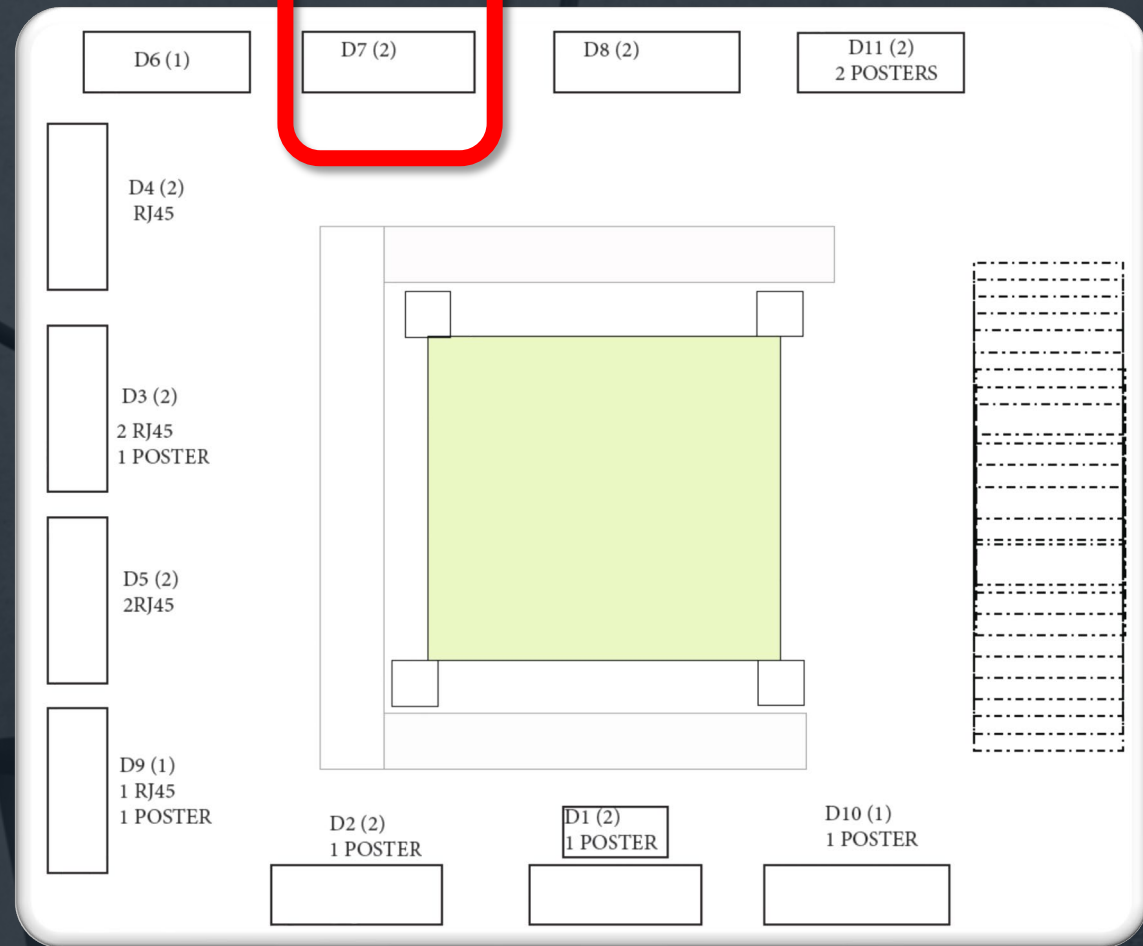
Implementation of Ordered Proof of Transit (OPoT) for traffic flow path verification in the TeraflowSDN ecosystem

Presented by Javier Velázquez Martínez, Telefonica



Multilayer Slicing Control in IP over Optical Networks Using TeraFlow SDN

Presented by Pablo Armingol Robles, Telefonica



Stands

Stand D8



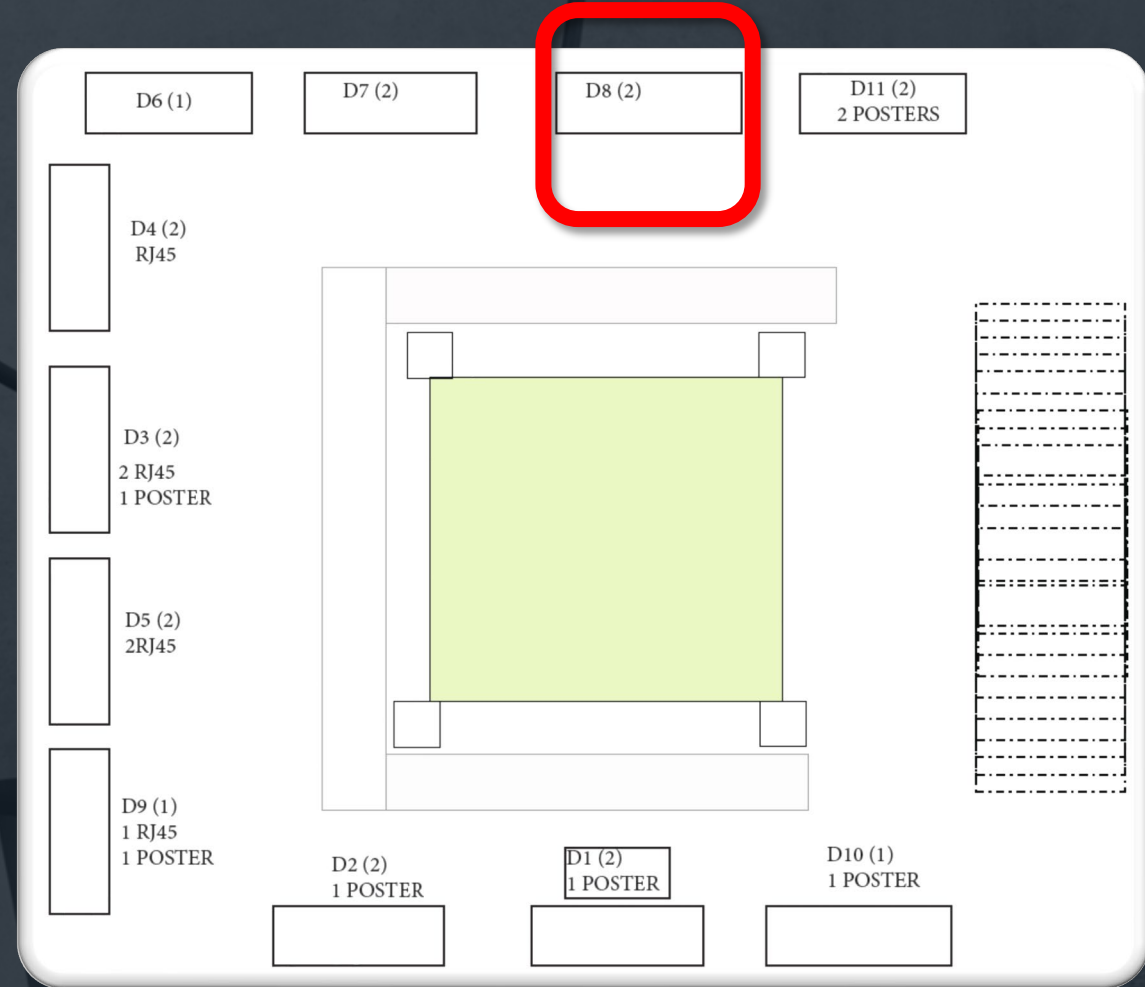
Integrating Quantum Key Distribution (QKD) with TeraFlowSDN

Presented by Alberto González Barneo, Optare Solutions



Autonomous Link-Capacity Adjustment using TeraFlowSDN Controller in a Disaggregated Optical Network Testbed

Presented by Behnam Shariati, Fraunhofer HHI



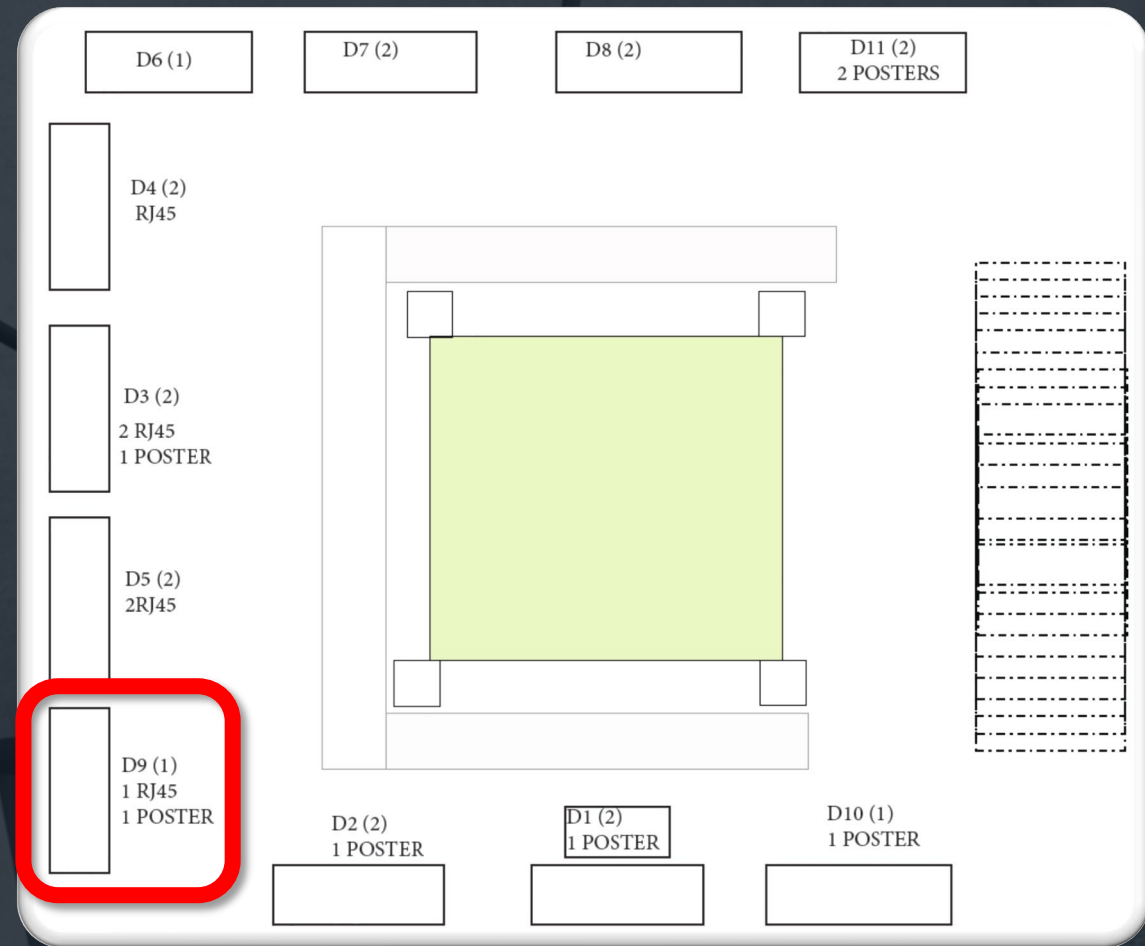
Stands

Stand D9



**Network Resource Allocation for Gaming Using
MEC API and TeraFlowSDN**

Presented by Shayan Hajipour, CTTC

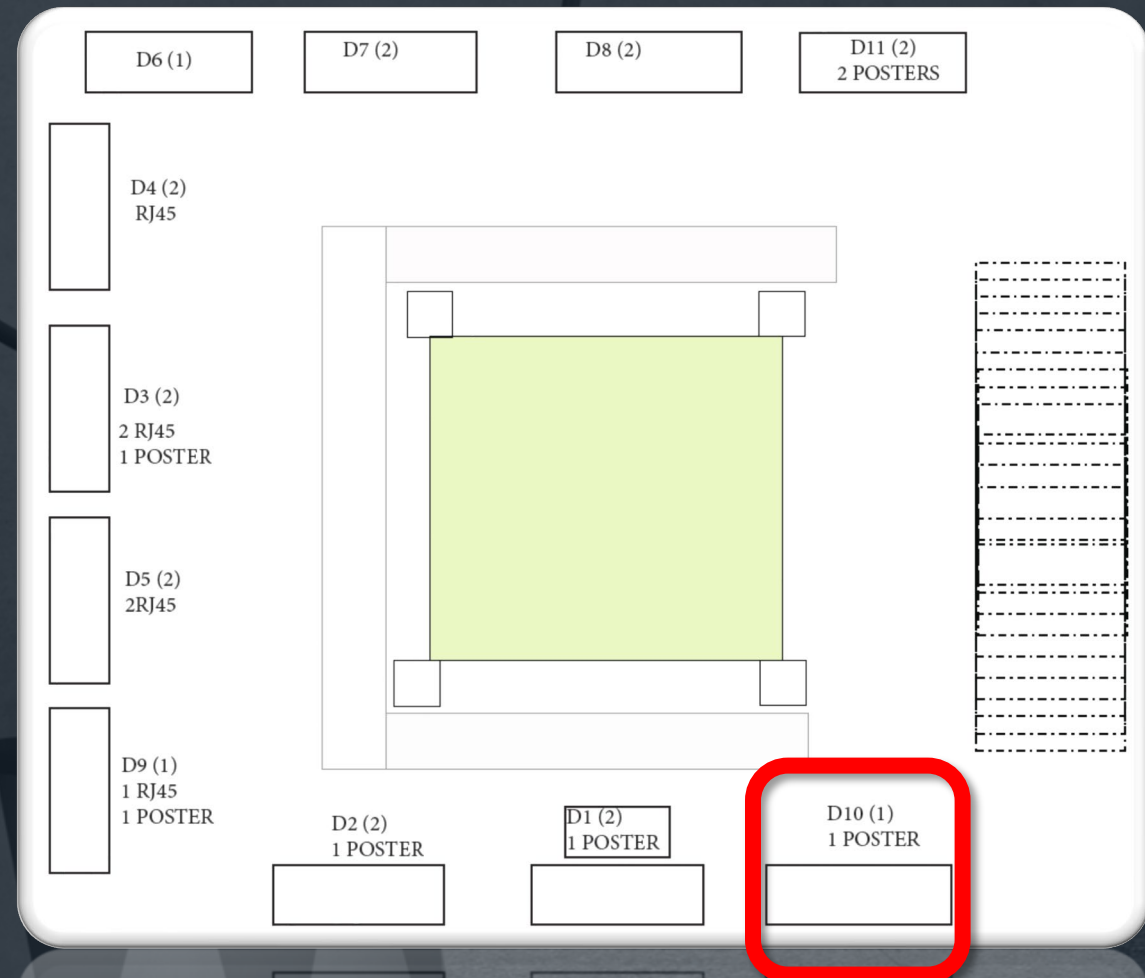


Stands

Stand D10

**Enabling Cloud AR/VR Gaming Services by an
Open-Source and Standards-Based Network-as-a-
Service Platform for Control and Management of
Optical Networks**

Presented by Hesam Rahimi, Huawei



Stands

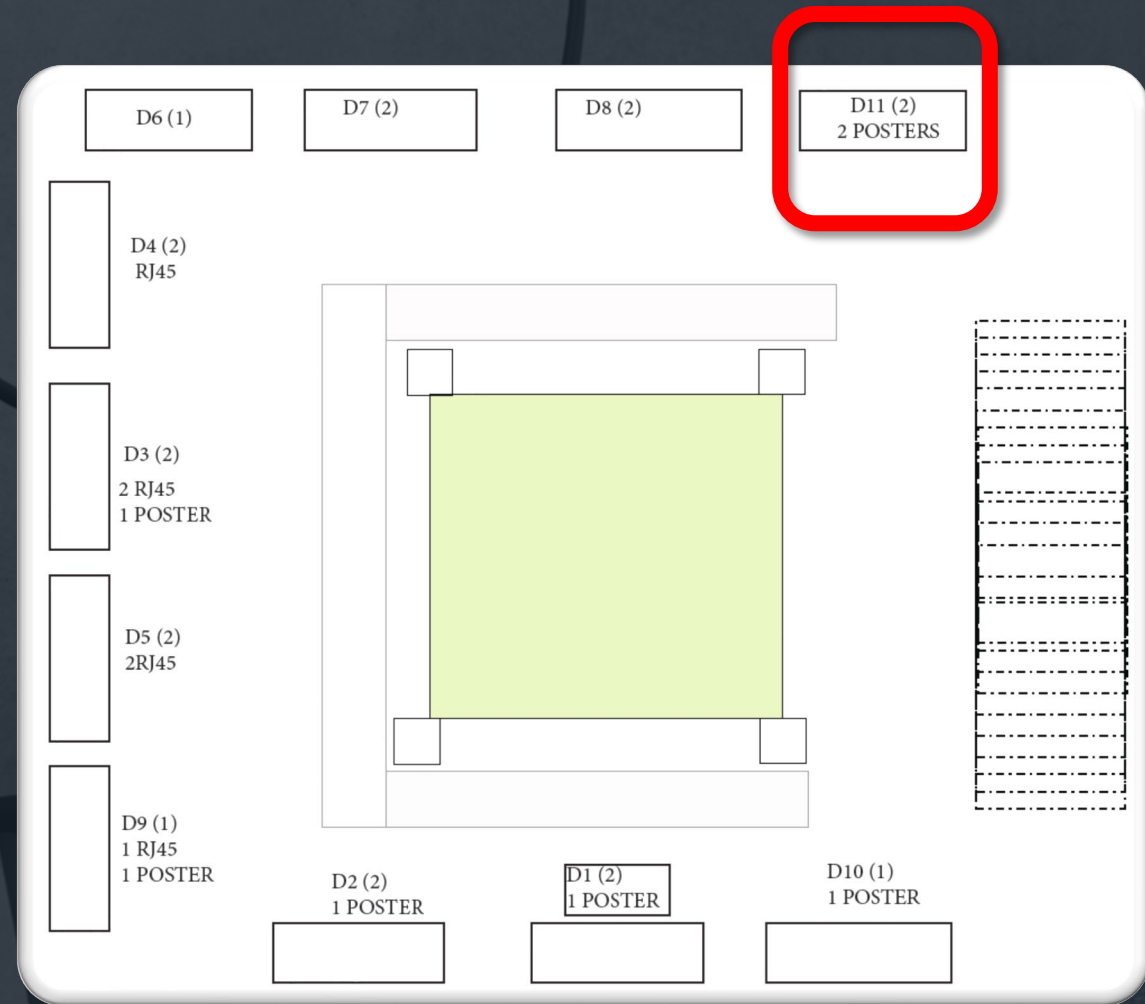
Stand D11



MLOps and zero-touch predictive closed loops for network slice performance optimization
Presented by Giacomo Bernini, Nextworks



API driven MEC Sandbox and Edge Native Connector Feature
Presented by Yann Garcia, FSCOM



Overview of Posters

13 posters presenting architectures and solutions with OSS

EU Projects: ACROSS, RIGOUROUS UNICO 6G-OPENSEC-SECURITY, UNICO 6G-OPENSEC-TRUST, FLEX-SCALE, FIDAL, ORIGAMI, ETHER, VERGE

Using: TFS, OSM, OSL, OCF, F5G/ZSM, CAMARA, prplWare, Open5GS, Free5GC, OAI, Kubernetes, Prometheus, Thanos, Grafana

Posters

OpenCAPIF Deployment and Integration in FIDAL's Use Case on Haptic Sensing

Presented by [Pelayo Torres Alonso](#), Telefonica

Closed Loop Automation Platform for Intelligent Security Operations with TeraFlowSDN and OSM

Presented by [Allen Abishek](#), CTTC

RIGOUROUS - Human-Centric Service Onboarding with OPENSlice

Presented by [Rafael Direito](#), Instituto de Telecomunicações de Aveiro, PT

F5G & ZSM PoC: F5G-advanced access and transport network with autonomous service management enabling End-to-end CAMARA QoD Services for Cloud AR/VR Gaming

Presented by [Lluís Gifre](#), CTTC, ES

Multi-Domain Security and Trust Orchestration Leveraging TeraFlowSDN and Open Source MANO

Presented by [Shayan Hajipour](#), CTTC, ES

ZSM-Based Automation for Dynamic Configuration and Monitoring of Packet and Optical Network Layers

Presented by [Nikos Psaromanolakis](#), Ubitech

A Service-Mesh Platform for the Mobile Network Core

Presented by [Dimitris Tsolkas](#), Fogus, GR

Closed-Loop AI/ML Orchestration: Crafting the Next-Gen of Cloud Services with NearbyOne

Presented by [Michail Dalgitsis](#), Nearby Computing

Implementation of a Deep Reinforcement Learning Solution for Radio Access Network Slicing in an Edge-enabled Beyond 5G Architecture

Presented by [Oriol Sallent](#), Universitat Politècnica de Catalunya

prplWare: Open Source Broadband Router Software Solutions

Presented by [Wouter Cloetens](#), prpl

Appropriate Tunneling Protocol in 5G

Presented by [Bilal Ghani](#), Telecom SudParis

Joint End-to-End Service and Resource Orchestration with Built-In Telemetry Services

Presented by [Alexandros Valadasis](#), Ubitech

Experimenting Mission-Critical and UAV Applications over an Open 5G and Edge Testbed

Presented by [Christian Grasso](#), University of Catania, IT

Posters & Demos

Wednesday 13 November

10:20 - 11:00: Coffee Break, Posters & Demos Visit

12:40 - 14:00: Lunch, Posters & Demos Visit

15:30 - 16:00: Coffee Break, Posters & Demos Visit

Thursday 14 November

10:30 - 11:00: Coffee Break, Posters & Demos Visit

12:45 - 14:00: Lunch, Posters & Demos Visit



Enjoy your Coffee Break!

While visiting our demos and posters!

