

O-RAN and ONAP

How the OSNL is supporting truly open networking

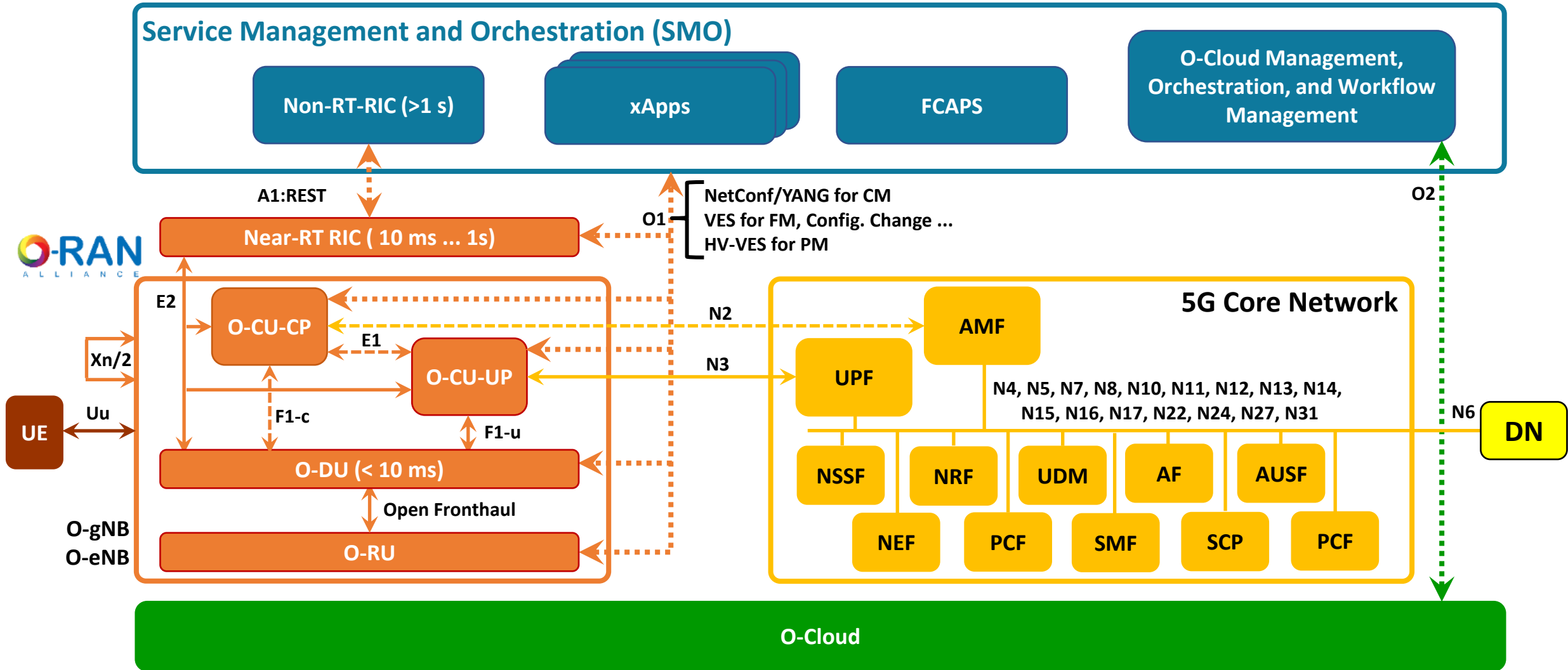
3 December 2020



OPEN SDN & NFV LAB

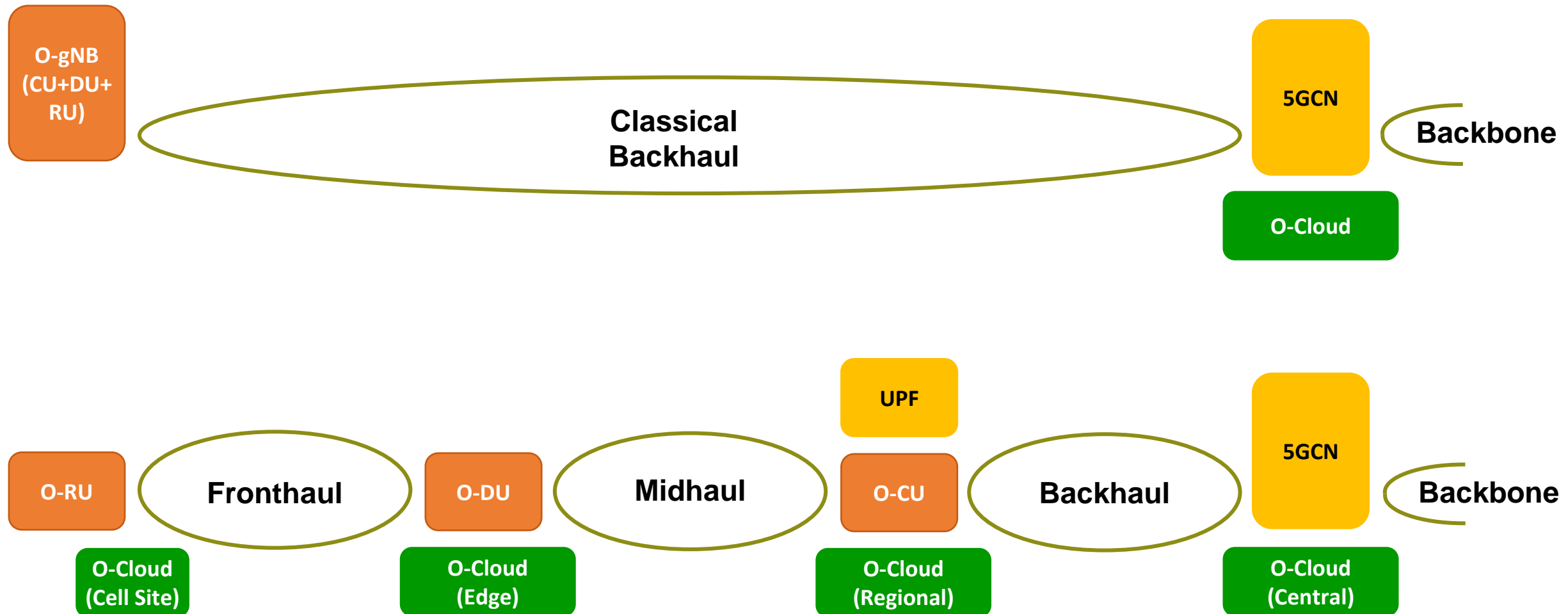
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O-RAN Architecture



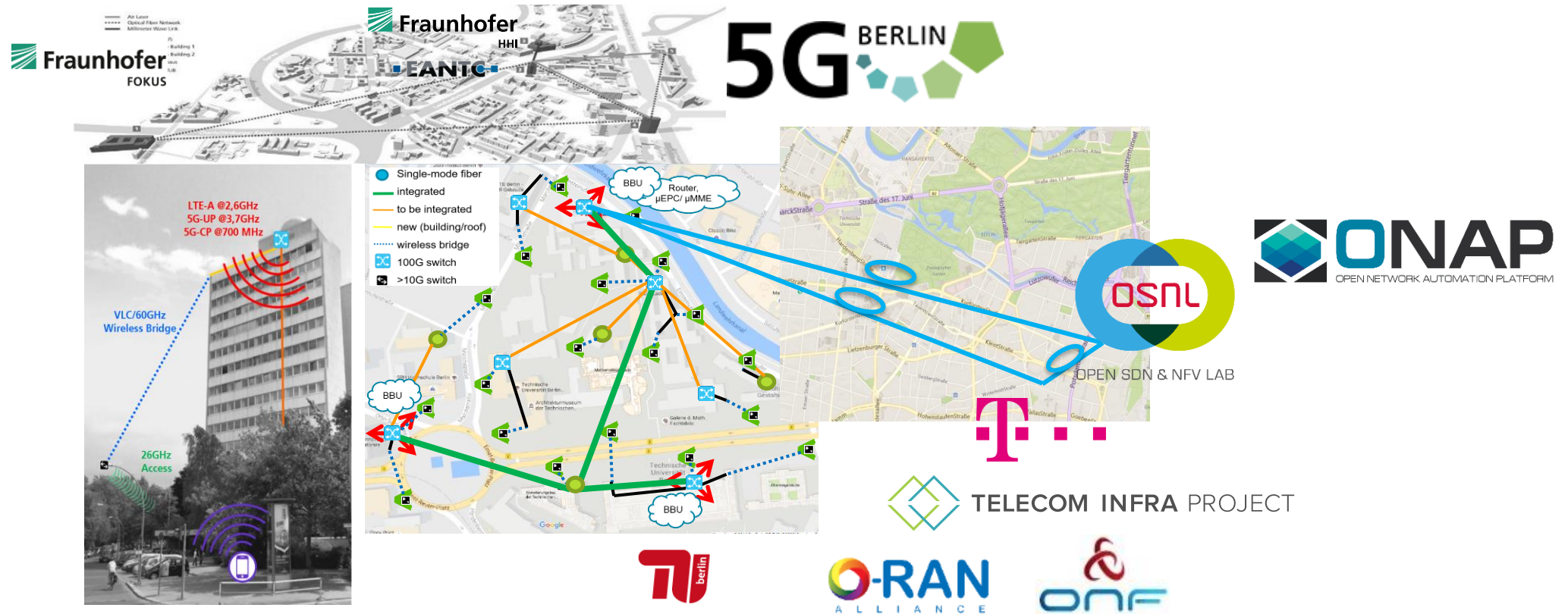
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xHaul Topologies



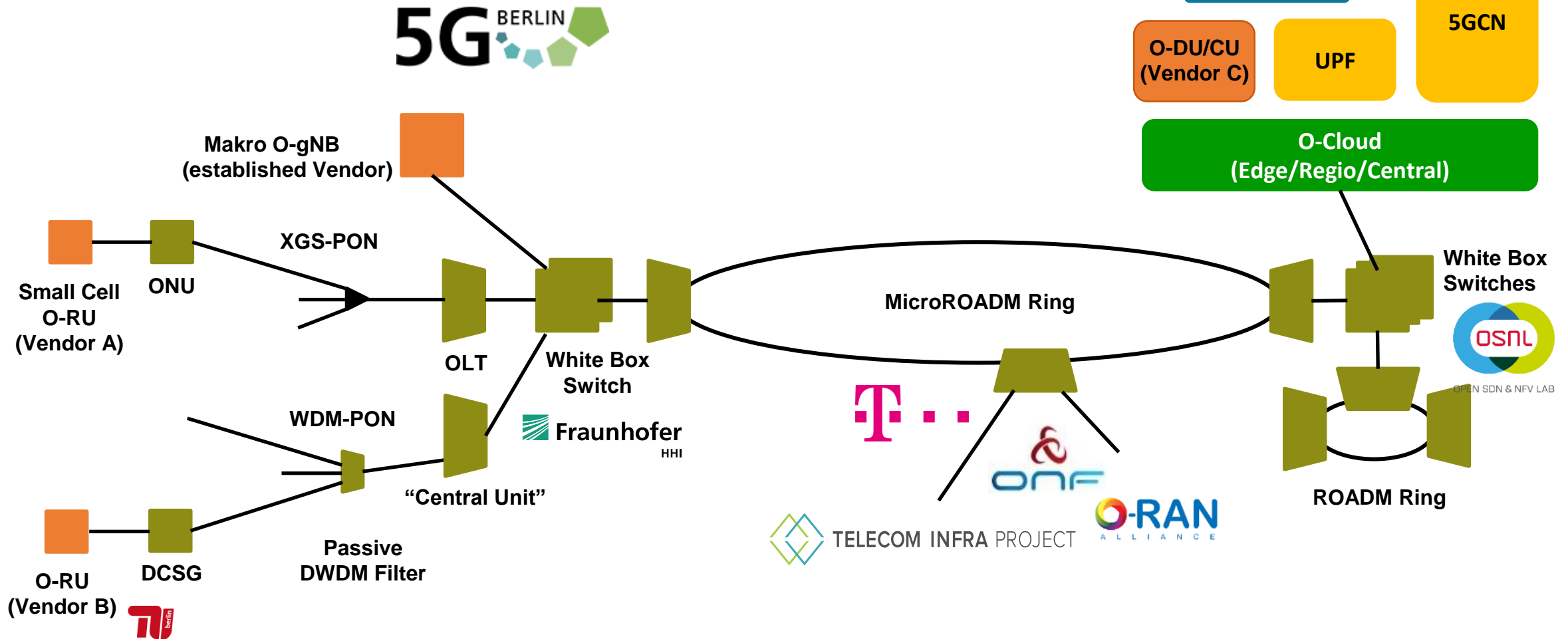
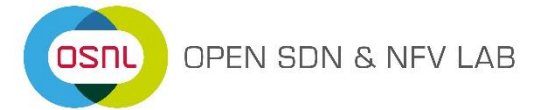
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Integration of 5G Berlin, TIP / OTIC / ONF and the OSNL



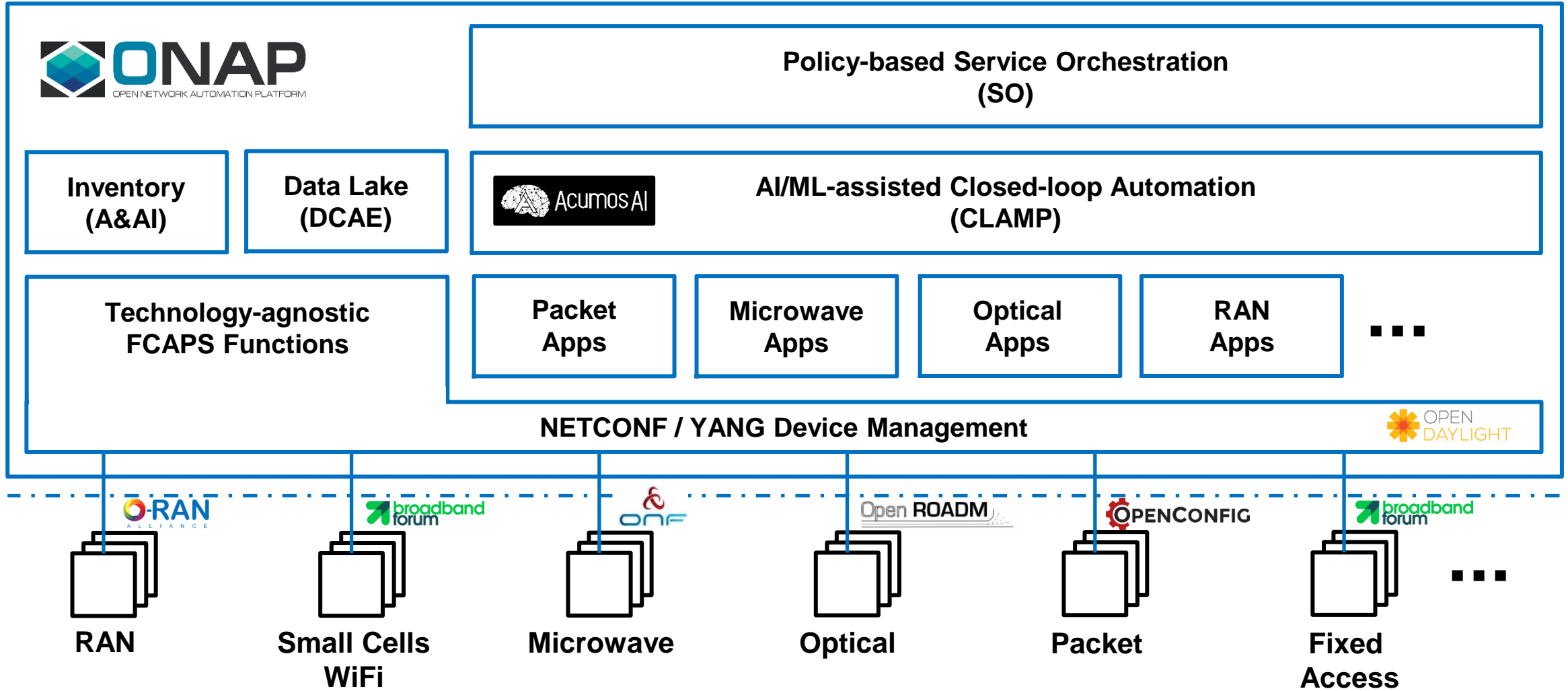
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Connecting 5G Berlin, OTIC / TIP / ONF, and the OSNL



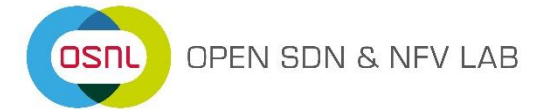
Open Network Automation Platform (ONAP)

ONAP-based Service Management and Orchestration



O-RAN and ONAP

5G Berlin Members and OSNL Partners



O-RAN and ONAP

Outlook to 2021

Q1 2020

- Fully O-RAN compliant 5G network in urban environment
 - O-gNB
 - O-RU / O-DU / O-CU from different vendors
 - Fronthaul / Midhaul / Backhaul transport: Optical, wireless and packet
 - Latency-optimized UPF separated from 5G Core
- Network slicing
 - “emergency” network slice for first responder application

Q2 2020

- Private 5G network in hospital
- Drone surveillance of critical infrastructure (railway)

Q3 2020

- Fully O-RAN compliant 5G network in rural environment
- 5G integrated in street lamps (invisible 5G)

Q4 2020

- Sharing of public RAN infrastructure
- Private 5G network in factory

Thank you!