# VIAVI Test Proposals for RIC-assisted Dynamic Traffic Steering Use Cases Design and Verifications

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Limited Distribution for O-RAN Participants only © 2020 VIAVI Solutions Inc. VIAVI **VIAVI** Solutions Purpose of this material

VIAVI sharing our proposals to discuss with AT&T and members of the O-RAN SC team - on how we can apply our testing tools to help design and validate RIC-assisted use cases starting with the dynamic traffic steering use cases proposed by AT&T

VIAVI has listed a few options for discussion and alignment purposes



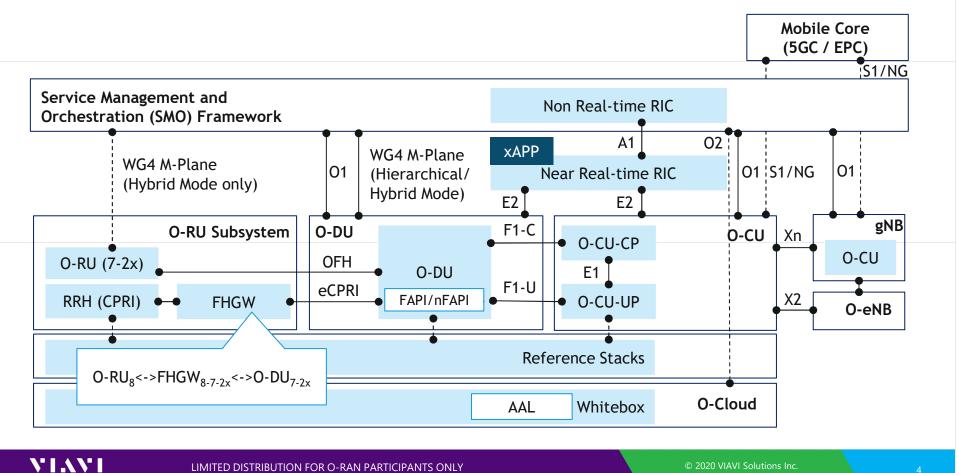
High Level Requirements (based on our understanding)

- RIC assisted use cases such as dynamic traffic steering design, validation and optimization, will require meaningful and repeatable stats to be reported over the E2 interface (near time RIC) and A1 interface (non real time RIC - if used)
- 2. In order to have the O-CU(s) and O-DU(s) report the required stats over the E2 interface, Stateful 5G NR UEs, Slice-aware, QoS-aware (5QI) application traffic sessions will be required to be emulated and provided as an active stimulus to these O-RAN components

UE emulator and traffic emulator are ideal for this testing as the emulated sessions are always stateful, repeatable and easily setup and programmable esp. if needing to emulate

- One or more UEs with each UE (or each groups of UEs)
- Configurable capabilities, mobility/QoS profiles, channel conditions and others

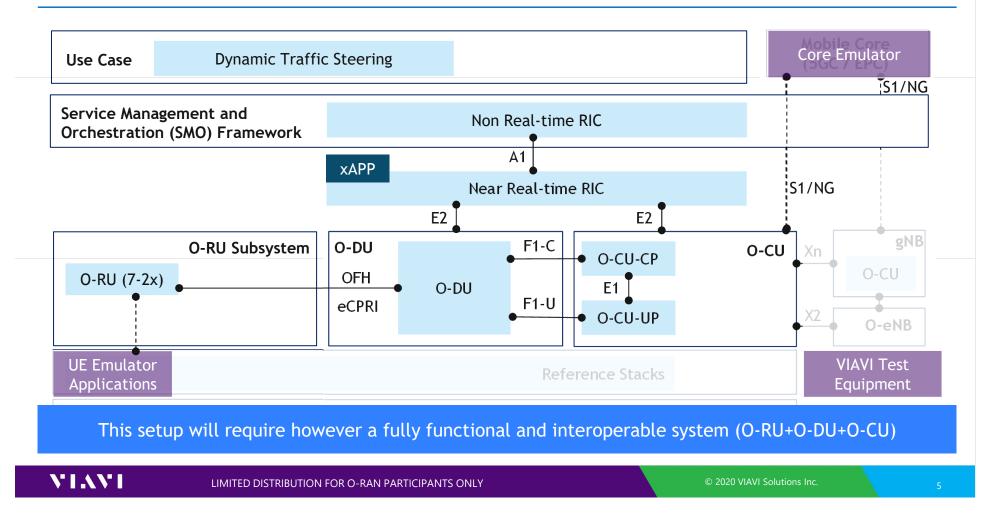
#### **O-RAN High Level Architecture**



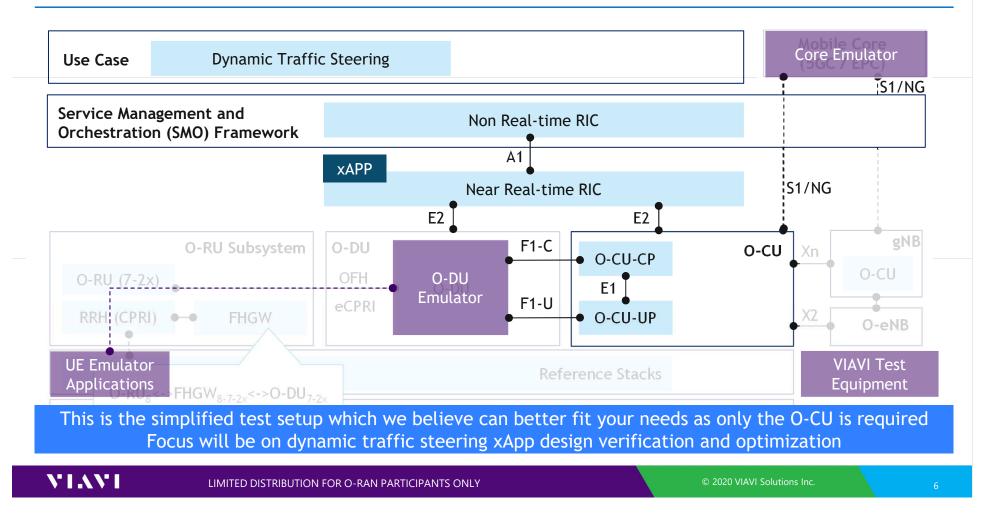
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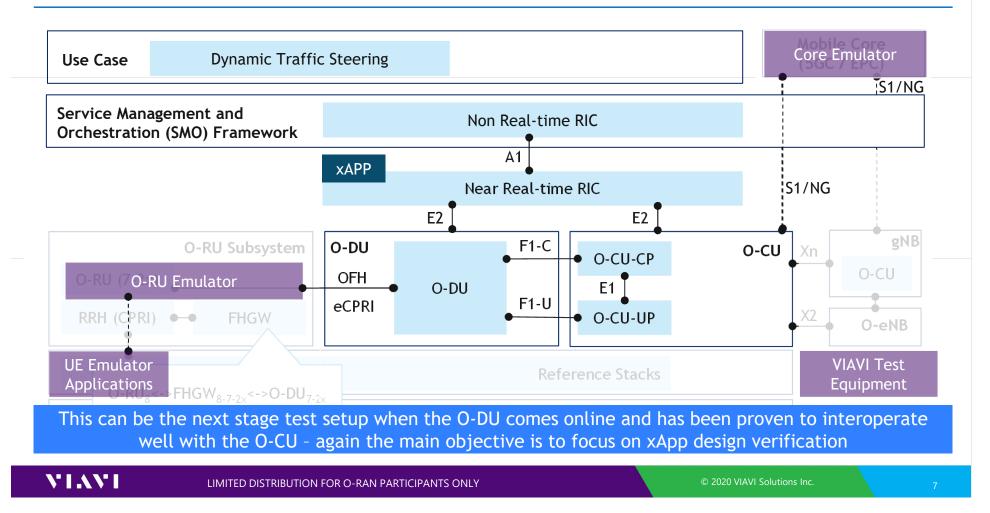
# O-RAN RIC-assisted Dynamic Traffic Steering Use Case - Potential Test Setup #1



# O-RAN RIC-assisted Dynamic Traffic Steering Use Case - Proposed Test Setup #2



# O-RAN RIC-assisted Dynamic Traffic Steering Use Case - Alternative Test Setup #3



#### Next steps

VIAVI is very interested to discuss and align with AT&T on the specifics of the test scenarios which would be required to help move forward with the RIC-assisted dynamic traffic steering use cases - design, validation and optimization

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