



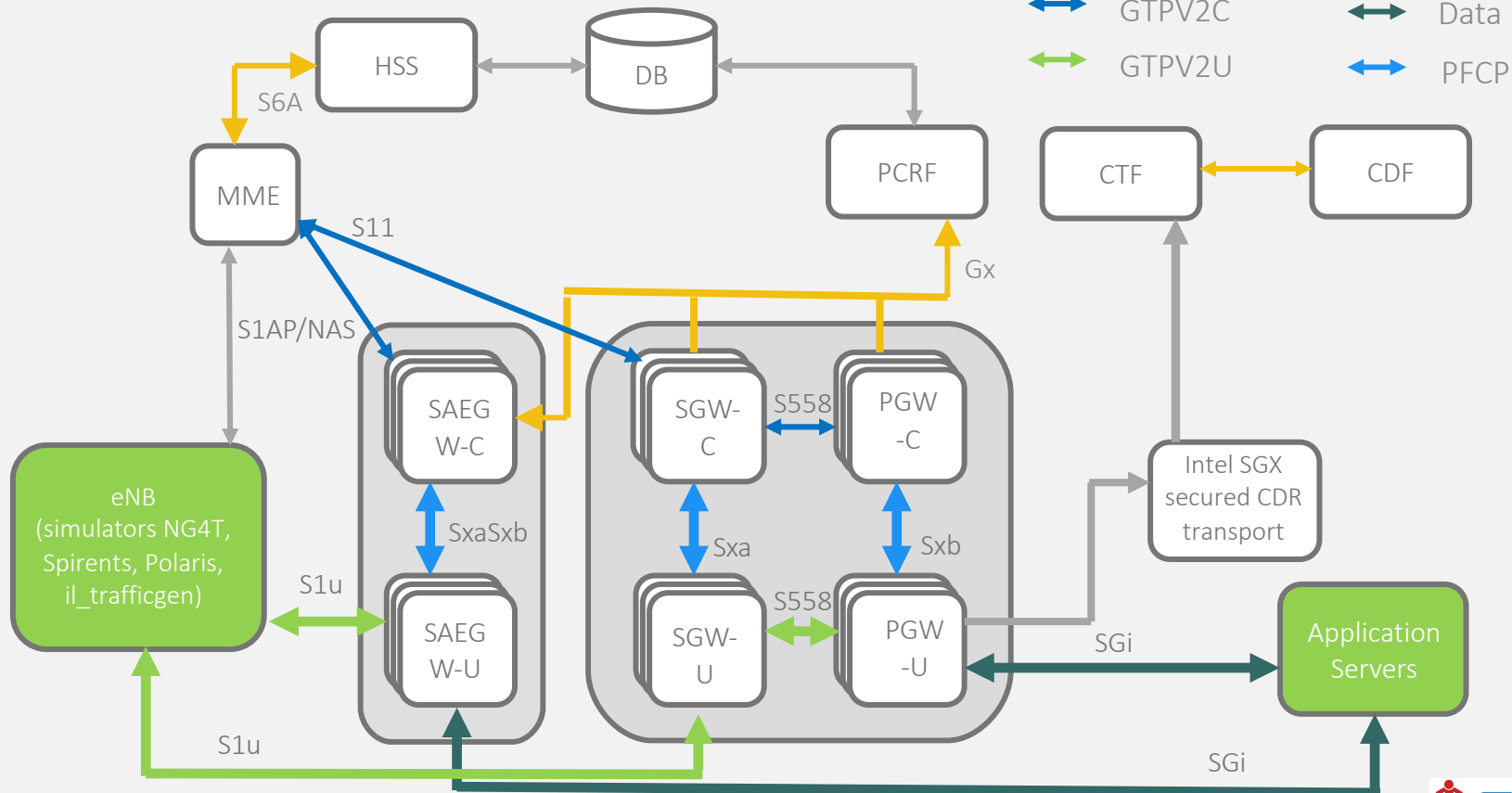
OMECE - Architectural Challenges

Road Ahead

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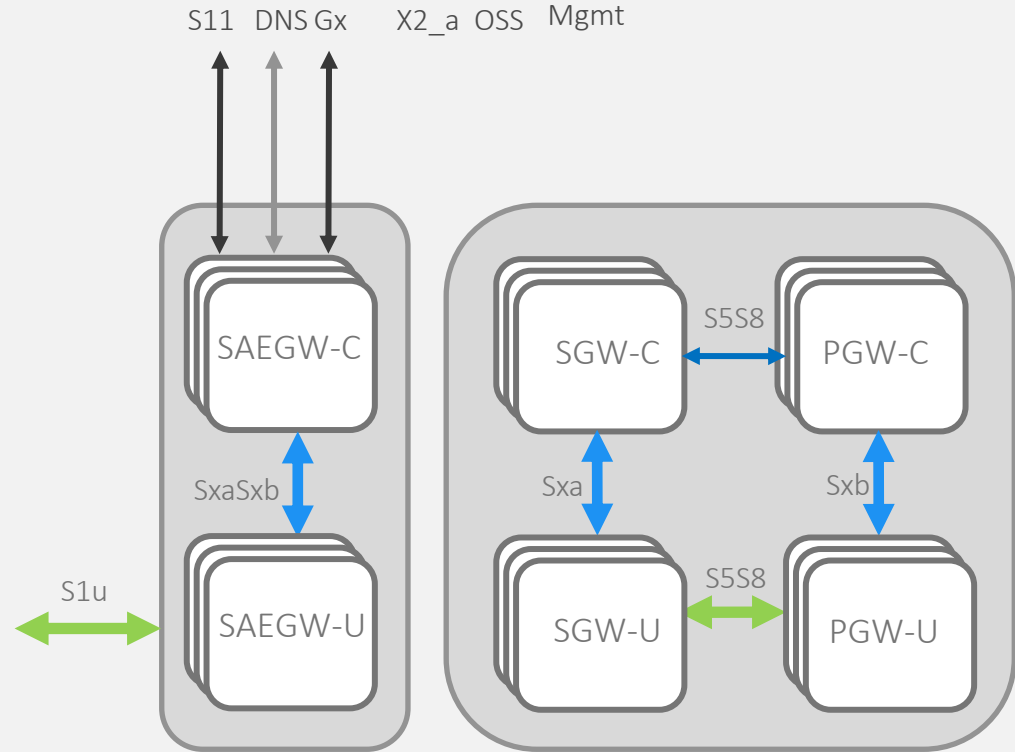
OMEC architecture



Gateways : Architectural Challenges

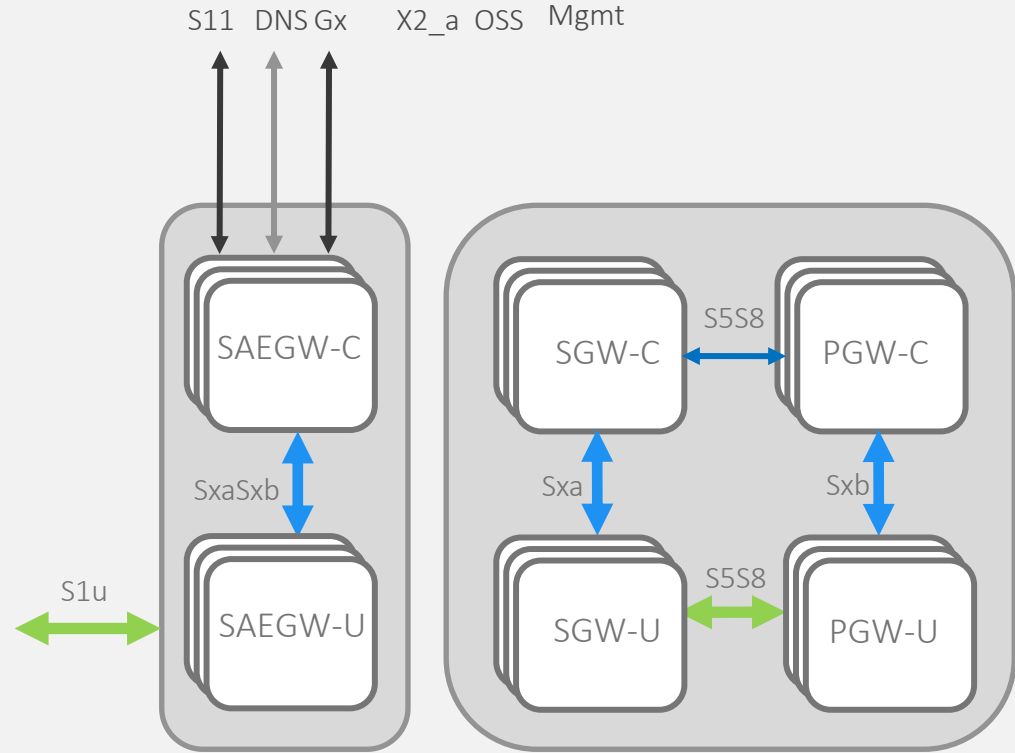
Gateways : Architectural challenges

- SAEGW-C/U, SGW-C/U, PGW-C/U
- 3GPP standards challenges
 - Combined SGW, PGW. CUPS.
 - 23.401, 23.214
 - Gx, Sx, S11, S5S8
- Deployment cases, readiness
- Rules handling and rules engine



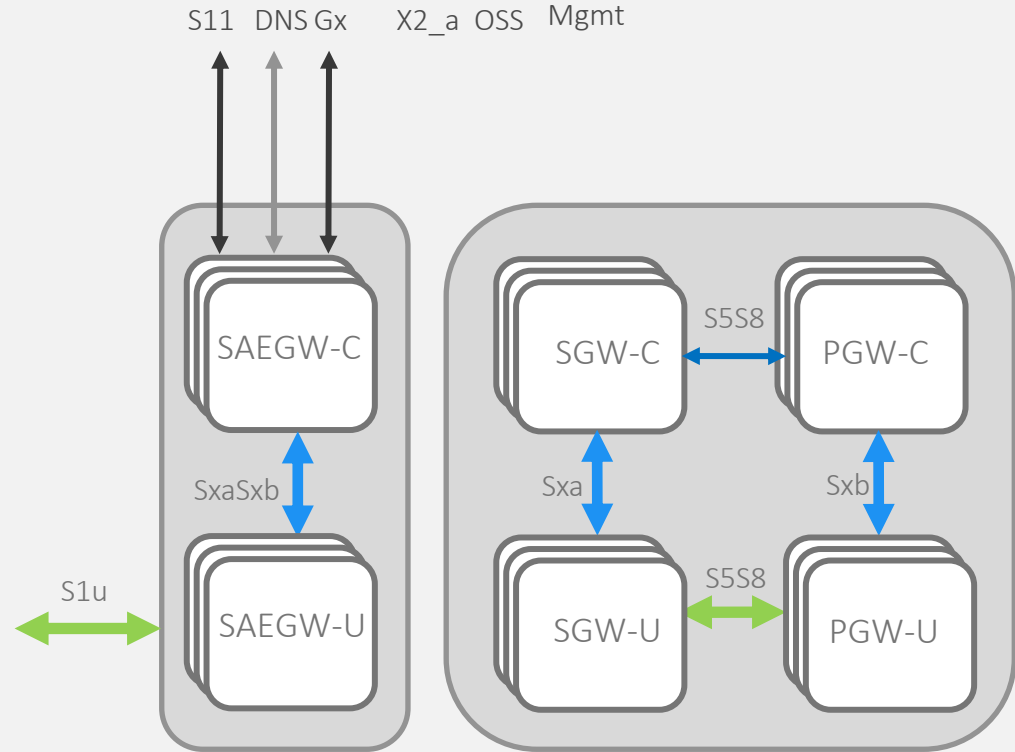
Gateways : Road Ahead

Scalability Dynamic



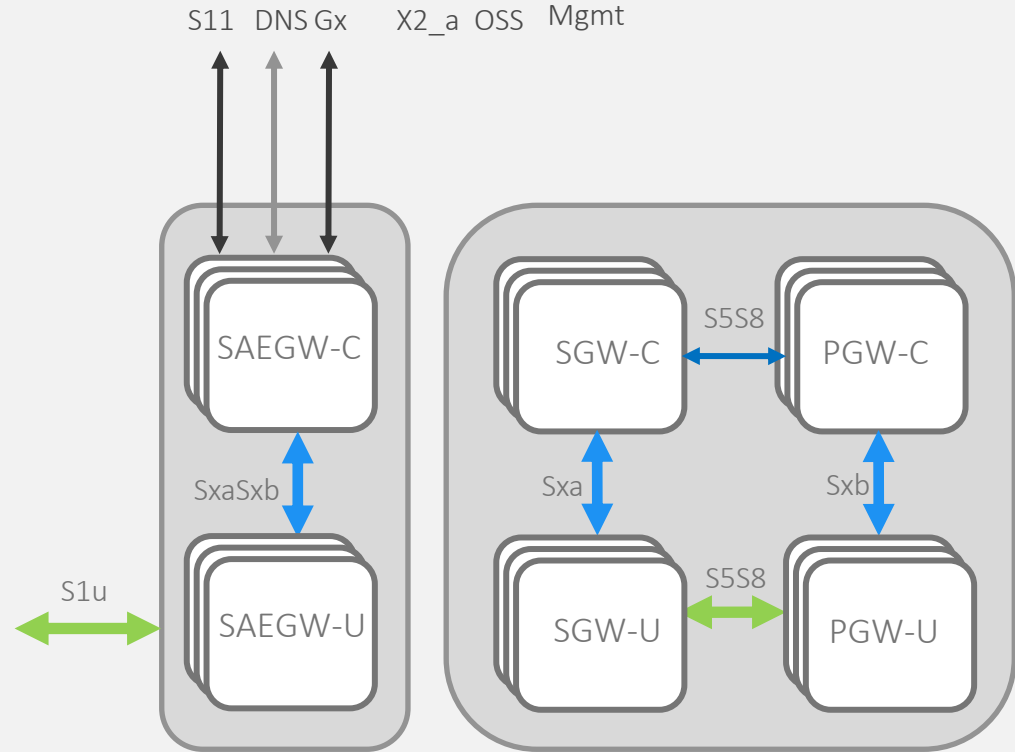
CLI Statistics

Interface vs implementation

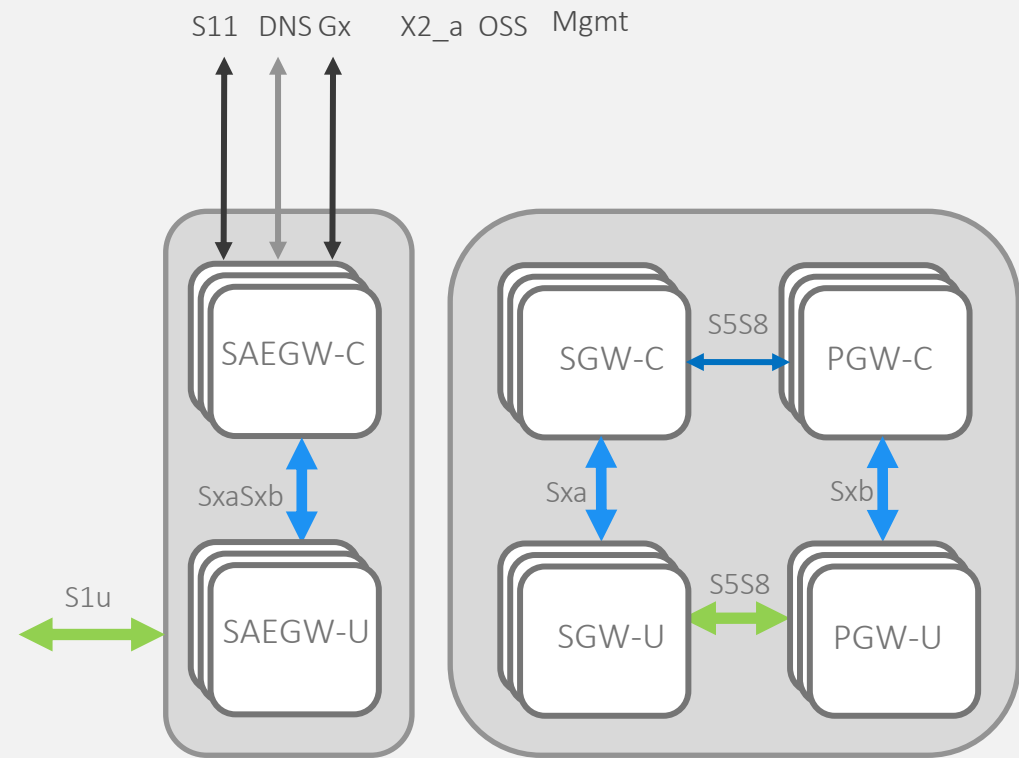


Lawful interception

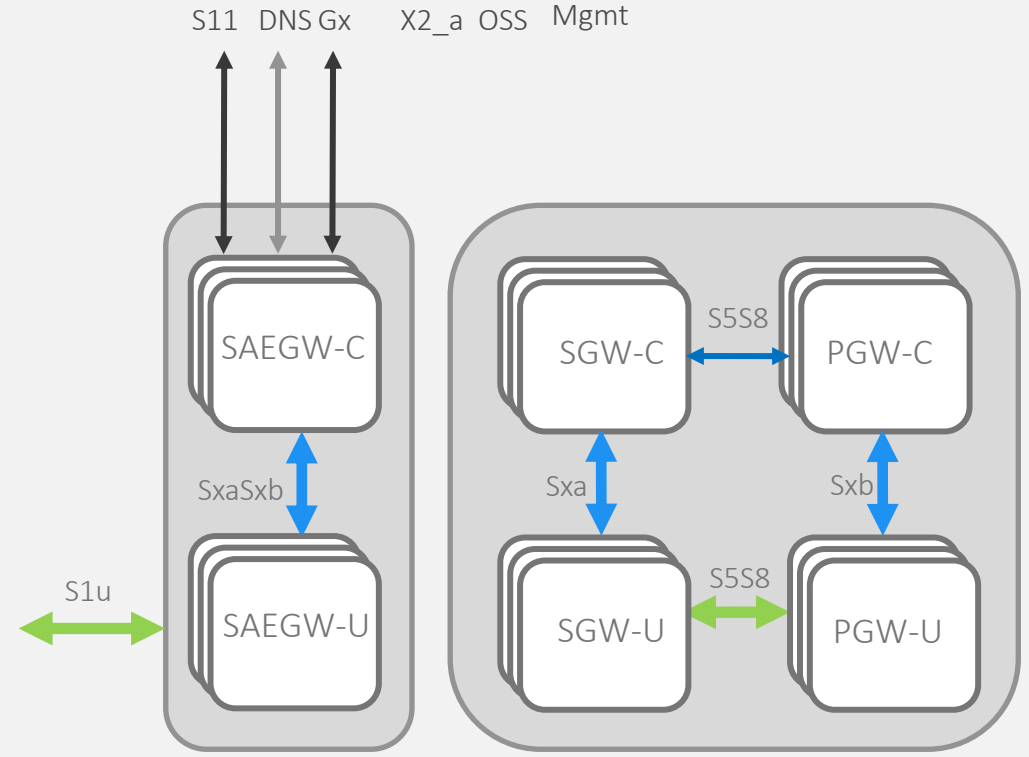
In all combinations



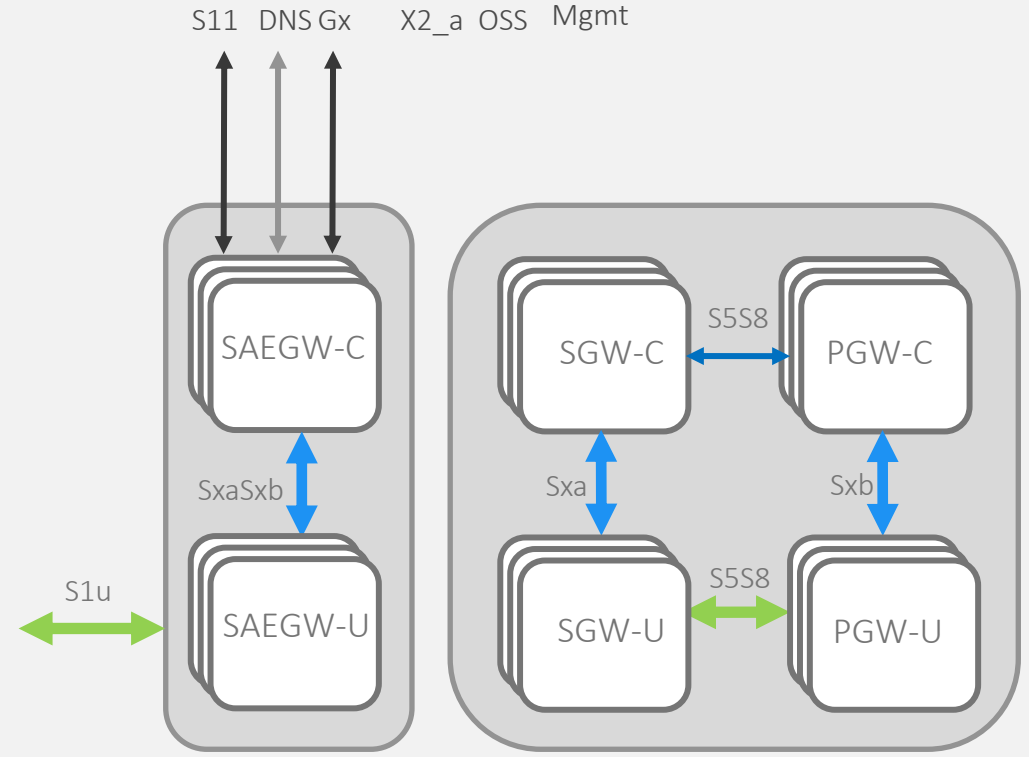
Framework



Conformance

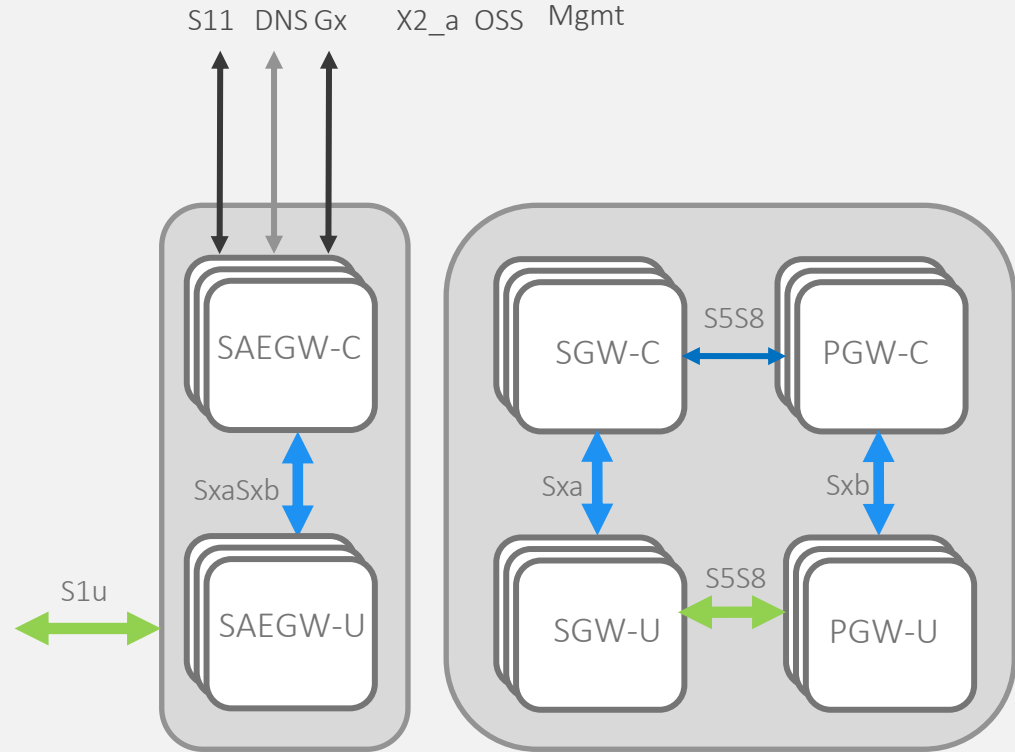


5G readiness



Backward compatibility

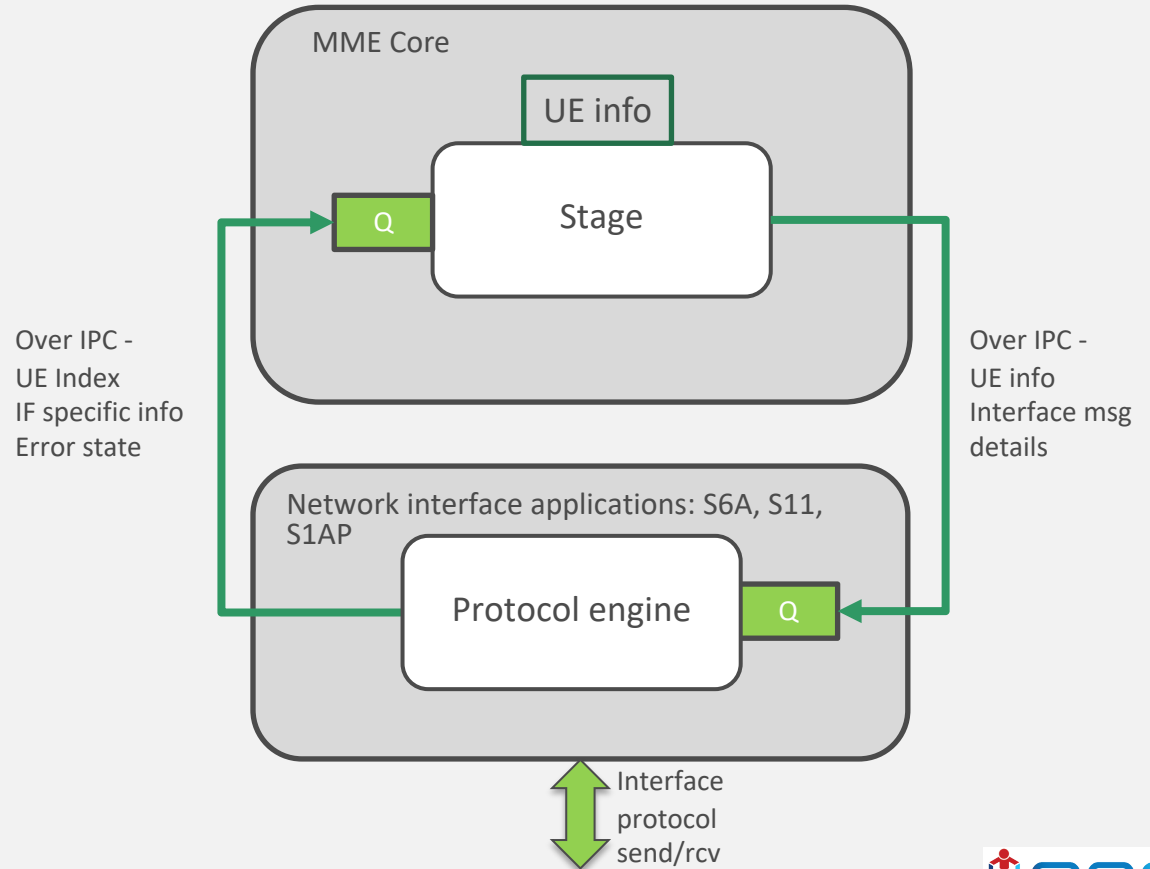
3G, 2.5G



MME : Architecture Story

OpenMME : Architectural Considerations

- Architectural considerations
- Framework completion
- Compliance challenges



OMECE : 5G Migration

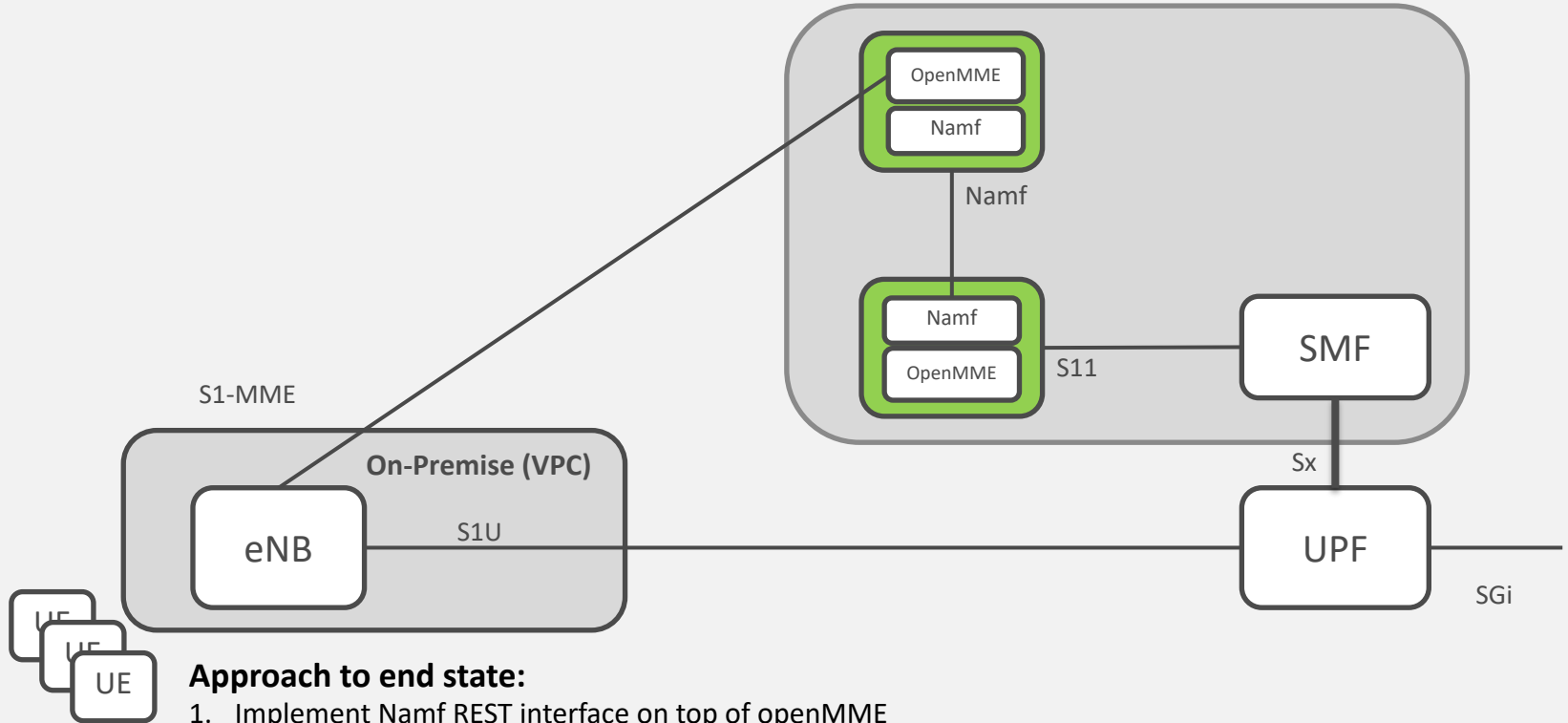
Gateways

- SMF - Combined SGW, PGW on control plane
 - UPF selection
 - Sxa, Sxb, Sxa/Sxb
 - Session Management
- UPF - Combined SGW & PGW on data plane

AMF

- OpenMME/AMF – Mobility, Registration
- AUSF – Authentication
- Namf. Step by step migration.

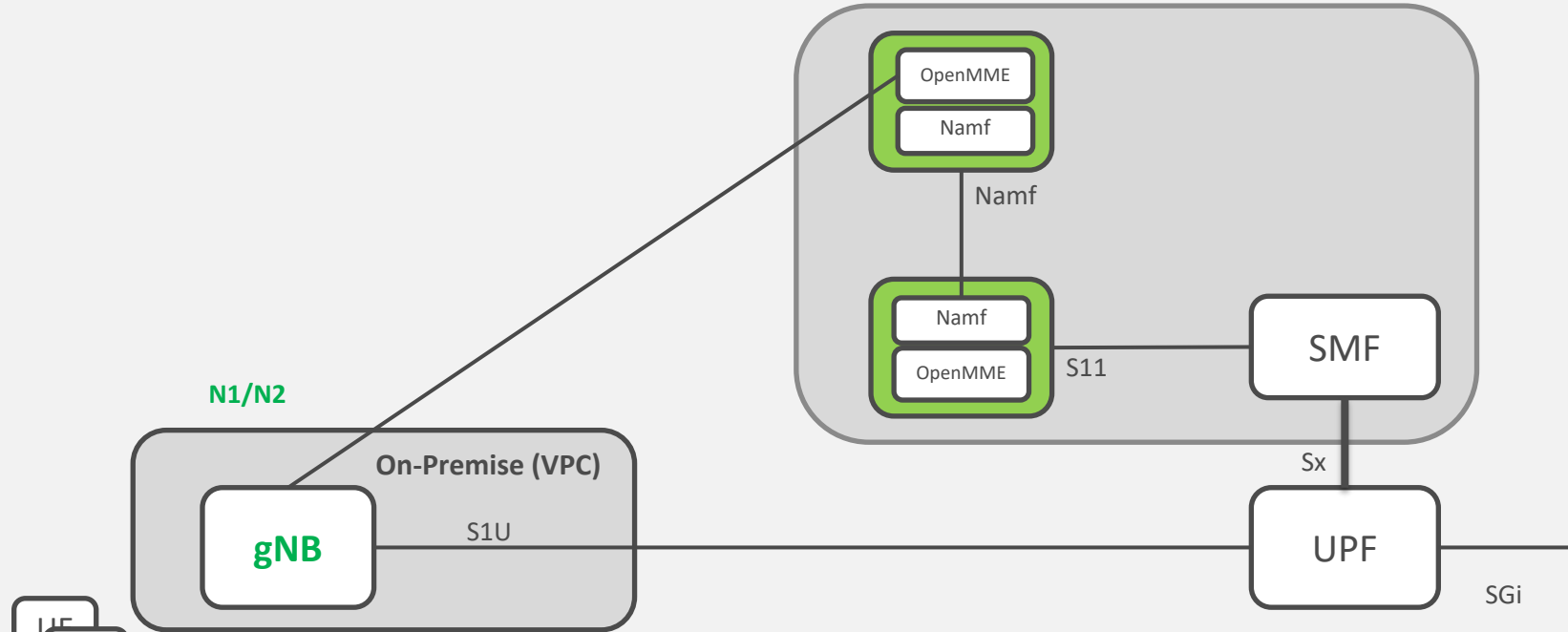
OMEC 5GC Migration : Proposed phase 1 - MME to AMF



Approach to end state:

1. Implement Namf REST interface on top of openMME
2. Keep S1-MME/S1AP,S11 unchanged
3. Next phase : implement N1/N2 - NGAP

OMECC 5GC Migration : Proposed phase 2 – Extending SBA



Approach to End State:

1. Implement N1/N2 NGAP (SCTP) in openMME
2. Keep S1-MME/S1AP,S11 unchanged



Thank you!

Follow Up Links:

www.gslab.com

<https://github.com/omec-project>