MEF 3.0 PoC Showcase

5G xHaul Sharing as Slices with LSO Orchestration

Description of PoC

The MEF 3.0 framework, and specifically the LSO Reference Architecture, is extended to demonstrate access sharing of a Carrier Ethernet service over front haul, midhaul and backhaul infrastructure. In addition, 5G service quality assurance is monitored between operators.

1 SIGNIFICANCE

5G requires a huge investment in infrastructure. Speeding up the availability of 5G services depends on increasing the ROI for 5G infrastructure providers and also making it easier for MNOs to share 5G operator wholesale access infrastructure.

2 INSPIRATION

The recent phasing out of 4G services and their replacement with 5G services in Japan has highlighted for NTT the importance of enabling sharing of front haul, mid haul and backhaul 5G infrastructure.

3 NEAR FUTURE

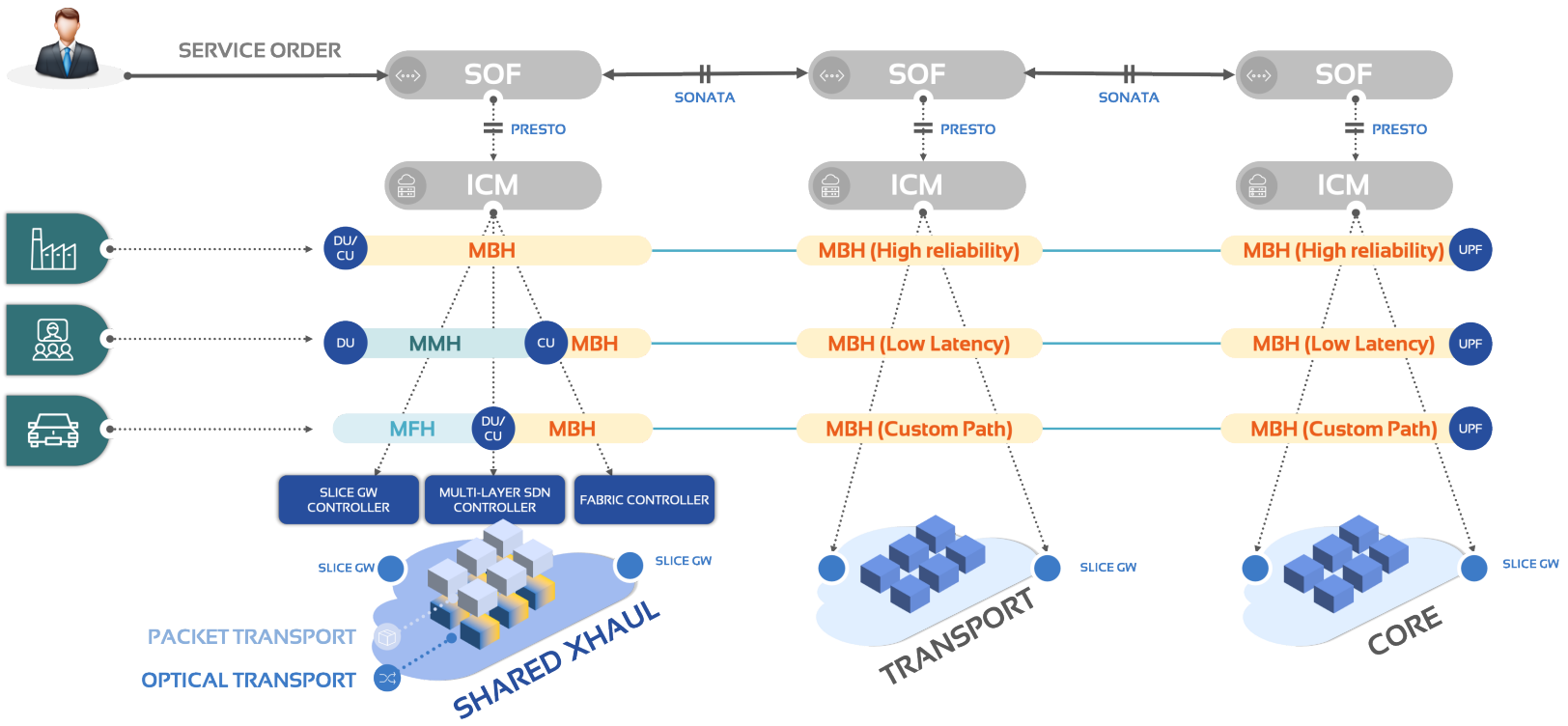
An increasing number of 5G operators and MNOs will be seeking standards that enable them to sell or buy network slices of 5G access infrastructure.

4 ACTION NEEDED

Standardized service models and standards are required to enable access sharing services as slices to deliver 5G MFH/MMH/MBH with suitable service quality.

5 WITHOUT THIS POC

The footprint of 5G services will grow very slowly outside major conurbations limiting the innovation of 5G use cases and the growth of 5G-based services and will place pressure on the ability of regulators to demand ubiquitous national service from 5G operators.



MEF 3.0 Topic Areas

	Service Orchestrator	Shared xHaul	Slice Gateway
LSO Sonata	✓		
LSO Presto	✓	✓	
Segment Routing		✓	
Optical Transport		✓	
Network Slicing			✓

Participating organizations

NTT Communications

NTT

OKINAWA OPEN LABORATORY