

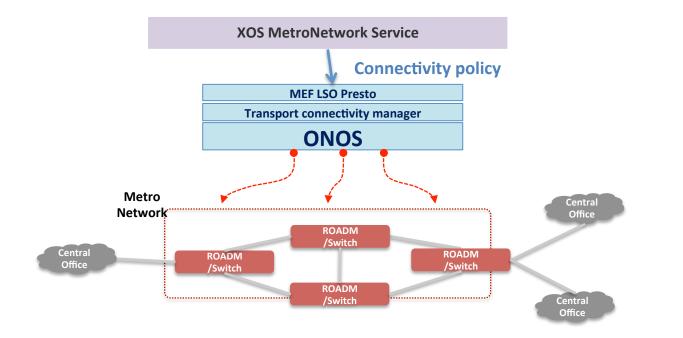
XOS MetroNetwork Service Michael Best – NSM Strategy, NOKIA



XOS MetroNetwork Service



The 'Transport Network Control' implementation area (as shown earlier)





Goals:

- Introduce 'WAN' network model to the XOS Data Model integrate together with the current 'LAN' oriented network concepts used in the Data Center
- Follow XaaS XOS doctrine: MetroNetwork functions are provided as XOS Service
- Use Cases priorities:
 - L2VPN Eline (point to point) and
 - L2VPN Elan (multipoint)
- Use existing MEF APIs for networking augment with XOS NFV concepts work on limitations and gaps in existing standards
- Provide a reference implementation

XOS MetroNetwork: current status

Current Work Status:

- XOS MetroNetwork Service built
- Extensions to core XOS model created
- ECORD Demo Gui from March 2016 integrated into XOS GUI Framework
- 'Synchronizer' for binding XOS Model to the real world uses ONOS MEF API for Eline provisioning
- Tested with Mininet Simulator

XOS MetroNetwork: key issues

Ri.

Key Issues:

- MEF API ONOS App currently not officially part of ONOS the XOS networking depends on these APIs
- Keeping up with XOS core development a lot of change in the past few months (which is good!)
- Supporting XOS hierarchy whereby Metro XOS can 'proxy' NFV configuration and services into CORD (or other) XOS Domains
 - This will require more sophisticated modeling and the Metro XOS and alignment with CORD XOS APIs

XOS MetroNetwork: next steps

Ċ

Next Steps:

- Complete L2VPN use case work current phase
- Second phase:
 - Hierarchical XOS modeling and control semantics