

Traffic Engineering and Service Mapping Yang Model

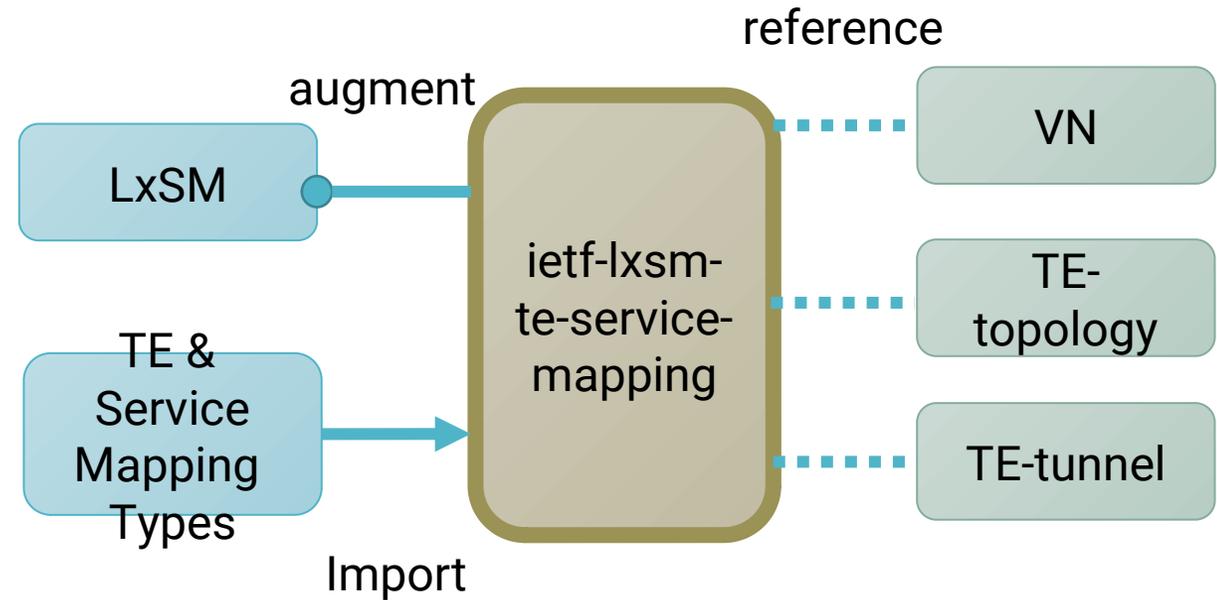
draft-ietf-teas-te-service-mapping-yang-01

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TE-Service Mapping Model Overview

(1)

- The role of TE-service Mapping model is to create a mapping relationship between -
 - Services – L3SM, L2SM, L1CSM, etc.
 - TE topo, TE tunnel and the VN
- TE-service mapping model also provides service policy/intent (e.g., VN/Tunnel selection policy, isolation, availability, etc.) for services (via importing *ietf-te-service-mapping-types*)
- This mapping will facilitate a seamless service operation with underlay-TE network visibility and control.



TE-Service Mapping Model Overview (2)

Reorganized Map Type (for VN/Tunnel selection policy)

New VN/Tunnel Binding

- Customer could request a VPN service with a new VN/Tunnel not shared with other existing services.
 - Hard Isolation with deterministic characteristics
 - Hard Isolation
 - Soft Isolation

VN/Tunnel Sharing

- Customer could request a VPN where the tunnels can be shared with other existing VPNs.

VN/Tunnel Modify

- This mode allows the modification of the properties of the existing VN/tunnel (e.g., bandwidth) when VN/Tunnel Selection Mode is applied.

TE-Service Mapping Model Overview (3)

- Introduced “Availability” for customer to indicate the level of availability.
 - 99.9999 %
 - 99.999 %
 - 99.99 %
 - 99.9 %
 - 99 %
- This needs to be translated into network level policies - protection/reroute policies associated with VN/Tunnels.

Updates since IETF103

- The draft was adopted as a WG draft (the name change).
- General applicability statement was added (Abstract & Section 5) to widen the scope of the draft:
 - Mapping of VPN services with TE models (TE-tunnel, TE-topology) and VN model.
- Models updated to align with changes with ACTN-VN model.
 - ACTN-VN model has been generalized: ACTN-VN -> VN

Next Step

- Explore if any new service policy/intent should be added.
- Mature Yang models to be ready for Yang doctors' review.

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Thanks.