A Network Inventory Topology Model

draft-wzwb-ivy-network-inventory-topology

IVY WG, IETF#118

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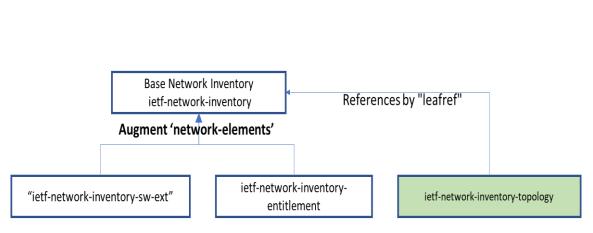
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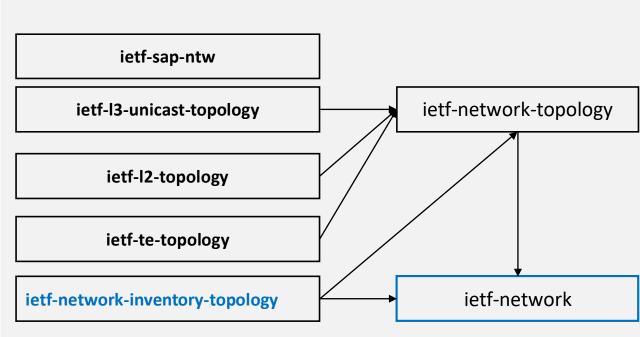


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Network Inventory Topology Model Overview

- The content is extracted from **draft-wzwb-opsawg-network-inventory-management** based on the feedback from WG.
- The Network Inventory Model is designed to complement the existing topology models to provide physical network information, which is a gap that needs to be filled. The existing topologies models are the technology-specific logical topologies.

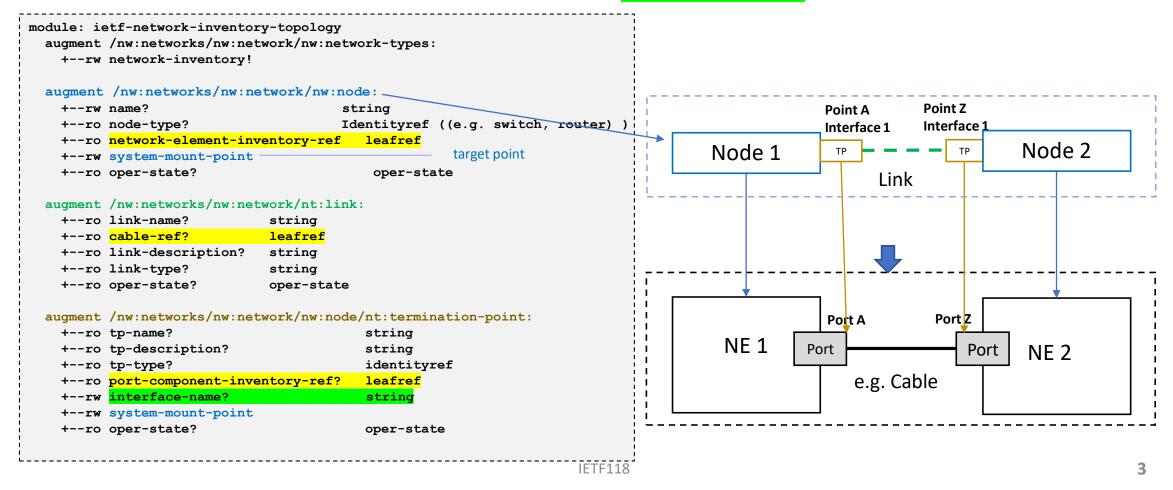




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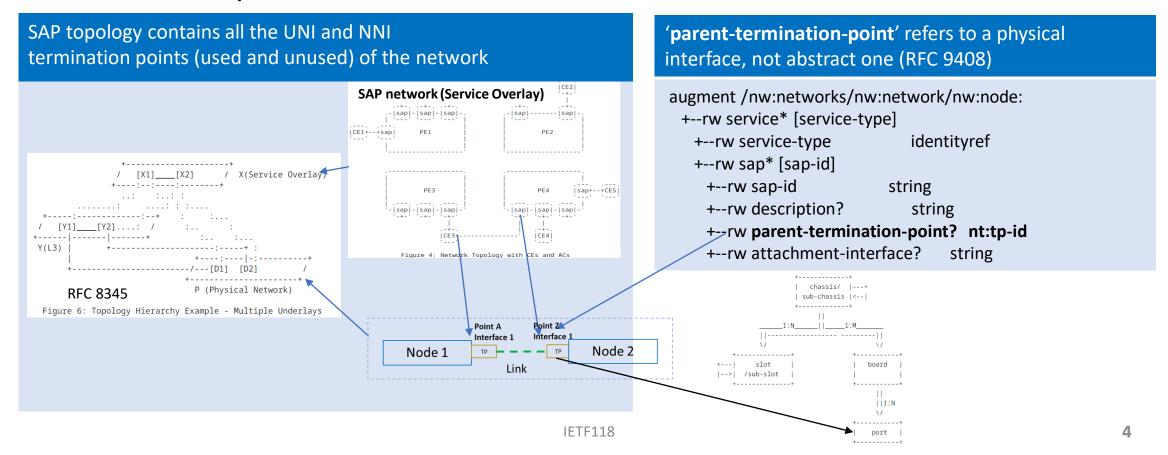
Inventory Topology Modelling

- **Goal**: Provide correlation with the existing topology models. As such, available network resources can be queried during service provisioning, and validating network configurations and forwarding state during service assurance, etc.
- Modeling Method: Augments RFC 8345 and establish 1:1 reference with NE and components inventory, adds the mount point serve as the configuration or operation mount point and interface relationship.



A Correlation Example of Inventory Topology

- Service Attachment Points (SAP, RFC 9408) network model maintains an inventory of customer-facing SAPs
- The Inventory topology can provide concrete interface reference and NE and Port components reference for SAP network to reference.



Next Step

- Solicit for WG adoption
- Welcome reviews and comments

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