

DetNet

DetNet Flow Information Model

draft-ietf-detnet-flow-information-model-01

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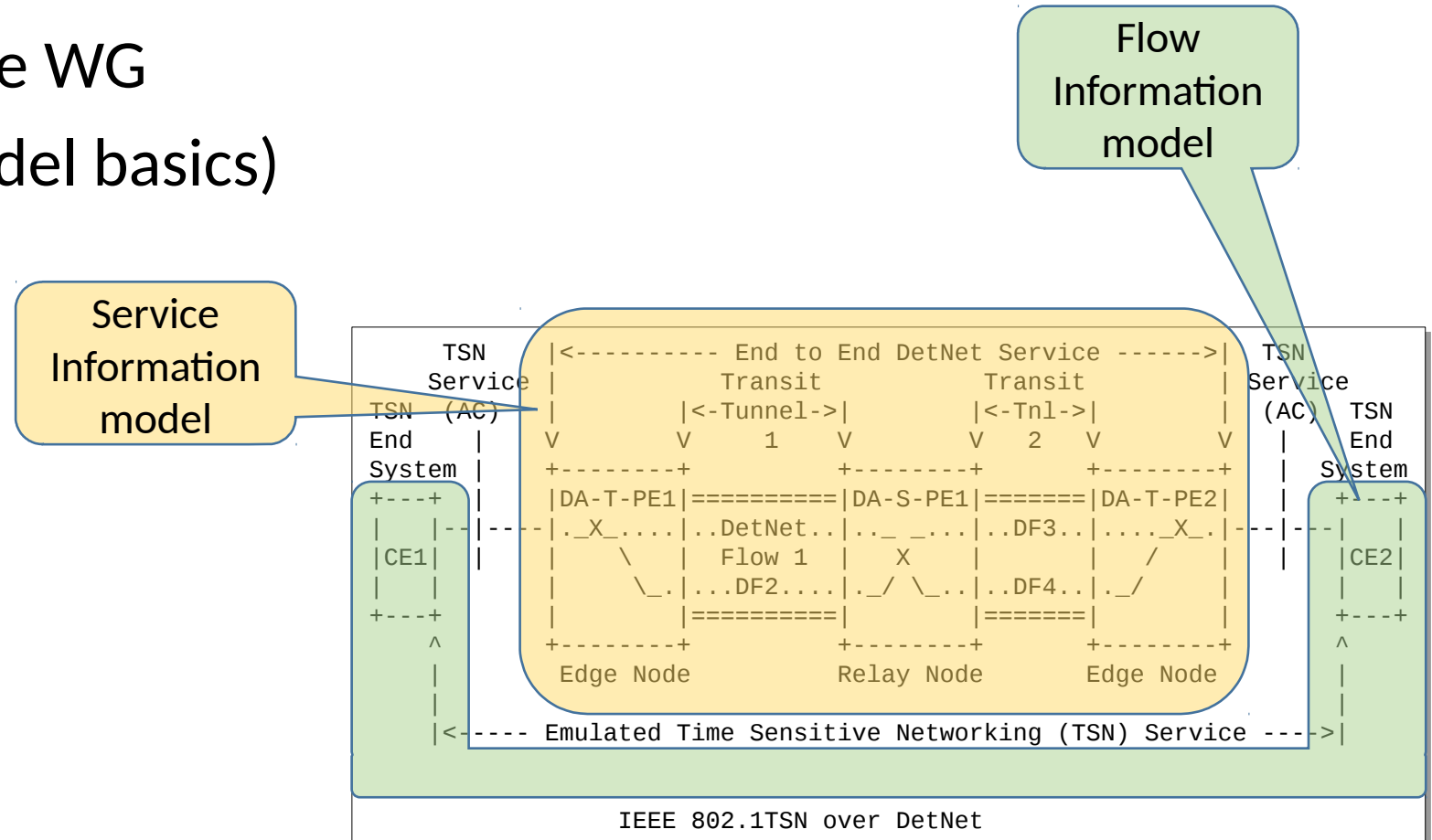
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DetNet WG

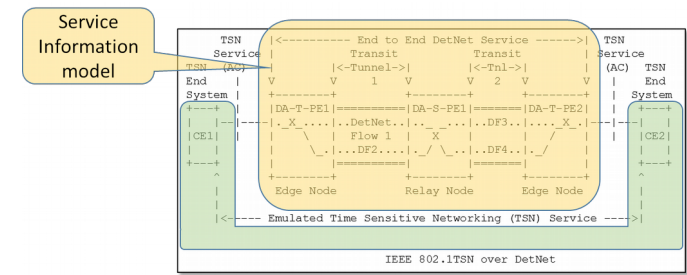
London, 23th March, 2018

Content Overview

- Draft adopted by the WG
- Update (service model basics)
- Next steps



Update Service specific attributes

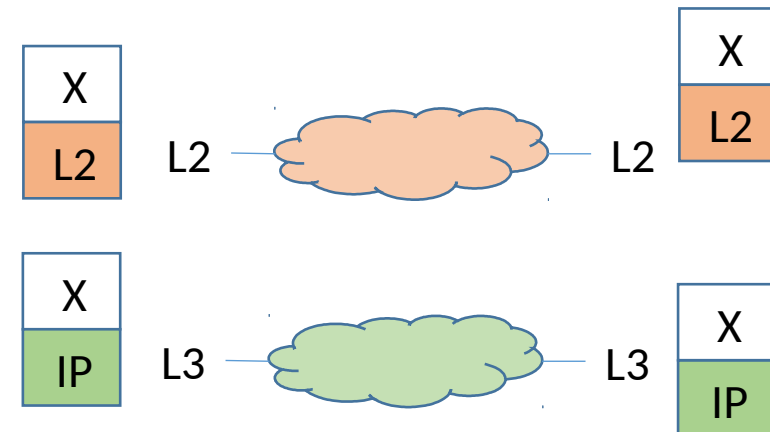


- Service information model

- Ingress: an edge system receiving a DetNet flow from a Source.
- Egress: an edge system sending traffic towards a Destination of a DetNet flow.
- DetNet domain: an administrative domain providing the DetNet service.
- Service-status: the status of a DetNet service. Applied from the network to the user.

- Service types

- L2/TSN: flow contains Ethernet frames
- IP: flow contains IP packets



DetNet Service Parameters Attributes

- Service attributes for DetNet connectivity are:
 - Bandwidth parameter(s),
 - Delay parameter(s),
 - Loss parameter(s),
 - Connectivity type,
 - In order delivery,
 - Service rank.

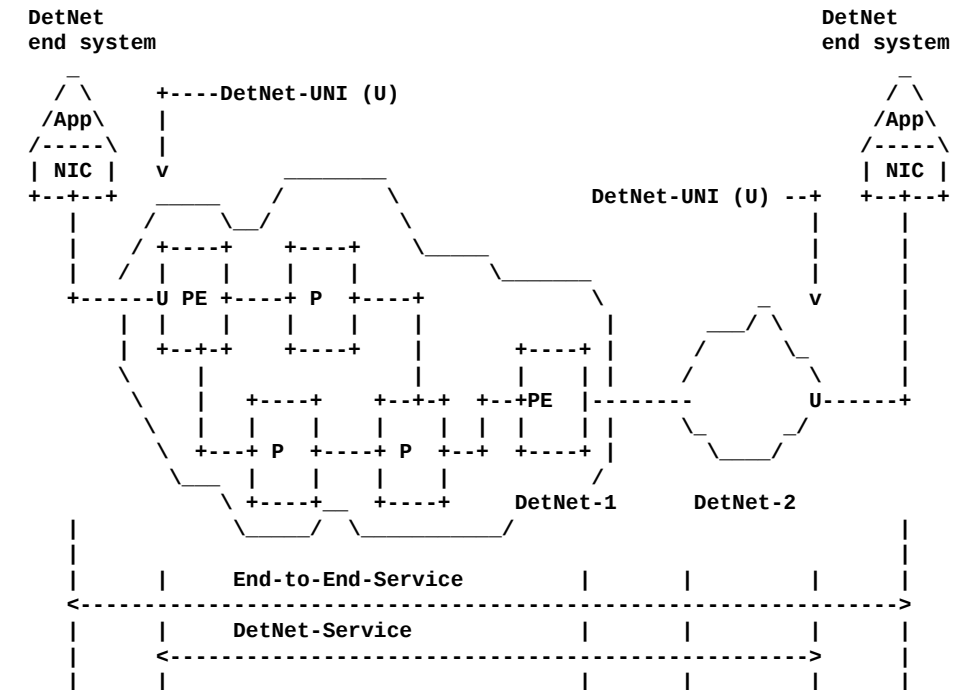


Figure 5: DetNet Service Reference Model (multi-domain)
< draft-ietf-detnet-architecture-04.txt >

- Reference Points:
 - App-flow endpoint: End system's internal reference point for the native data flow.
 - DetNet-UNI: UNI interface ("U") on a DetNet edge node.
 - DetNet-NNI: NNI interface ("N") between DetNet domains.

DetNet Service Scenarios

Depends on data-plane conclusions

- Current draft text:
 - End-to-End-Service:
 - the service reaches out to final source or destination nodes, so it is an e2e service between application hosting devices (end systems).
 - DetNet-Service:
 - the service connects networking islands, so it is a service between the borders of network domain(s).
- No interim results added

Next steps

- Incorporate conclusions from data plane discussions
- Contributions are welcome

Thanks ...