DetNet
DetNet Flow Information Model
draft-ietf-detnet-flow-information-model-01

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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.

• 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.

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