

DetNet WG

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Online Agenda and Slides at:

<https://datatracker.ietf.org/meeting/interim-2018-detnet-03/session/detnet>

WG Information: <https://datatracker.ietf.org/wg/detnet/>

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Meeting Administrivia

- Webex:

<https://ietf.webex.com/ietf/j.php?MTID=mca0b929db5297a5867bc7585429ad35b>

- Joint minute taking

≡ **Please contribute**

◦ <http://etherpad.tools.ietf.org:9000/p/notes-ietf-interim-2018-detnet-03>

- Online Agenda and Slides at:

◦ <https://datatracker.ietf.org/meeting/interim-2018-detnet-03/session/detnet>

- Blue sheets

◦ **Please add your name to etherpad**

Issues

- General desire to work through issues in WG at a faster/higher bandwidth pace
 - More frequent than in person meetings
- Failed initial try at in person meeting
 - Travel budget/availability remains a concern for most
- Current plan: periodic working meetings
 - Frequency
 - Weekly for an hour?
 - Every 2 weeks for 1-2 hours?
- Extended meeting at IETF 101
 - Friday until 1:30 or 2pm (based on room availability)
- Considering in person interim between 101 and 102
 - Based on progress through IETF101

Agenda

1500GMT - Scheduled to 1.5 hours, but can run over 30 minutes if needed

Session should be less formal, and discussion oriented!

- Administrativa (chairs)
- Draft status update (authors)
 - see <https://tools.ietf.org/html/draft-ietf-detnet-dp-sol>
 - <https://github.com/jounikor/draft-dt-detnet-dp-sol>
- Contributions to address open issues (contributors)
- Next steps, including future meetings

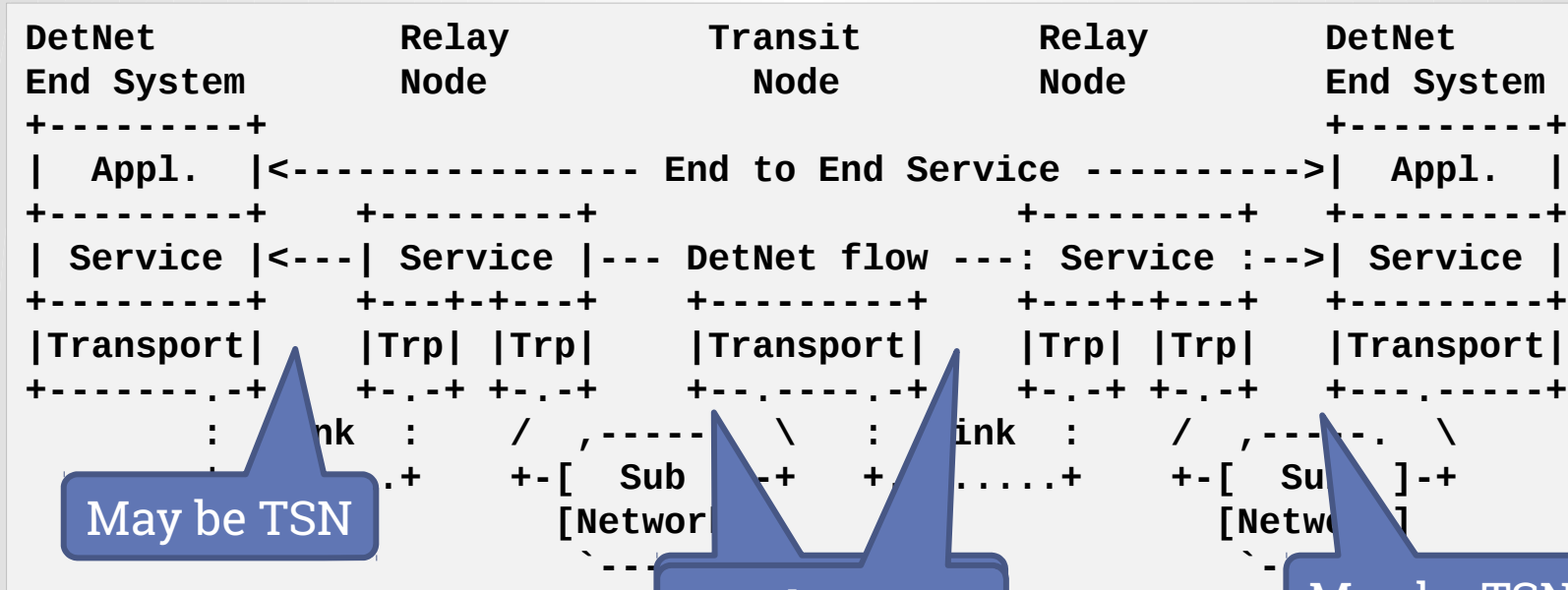
Focusing Today's Discussion

- Detnet services
 1. Congestion protection and latency control: usage of allocated resources (queuing, policing, shaping).
 2. Explicit routes: select/apply the flow specific path.
 3. Service protection: recognize DetNet compound and member flows for replication and elimination.
- Key open question:
 - IP end to end support
 - Converging on D-CW/MPLS service and PREF, so not focus of today's discussion
- Detnet scenarios (simplified)
 - IPvX end to end service
 - TSN over DetNet

IPvX End to End Service

IP

IP



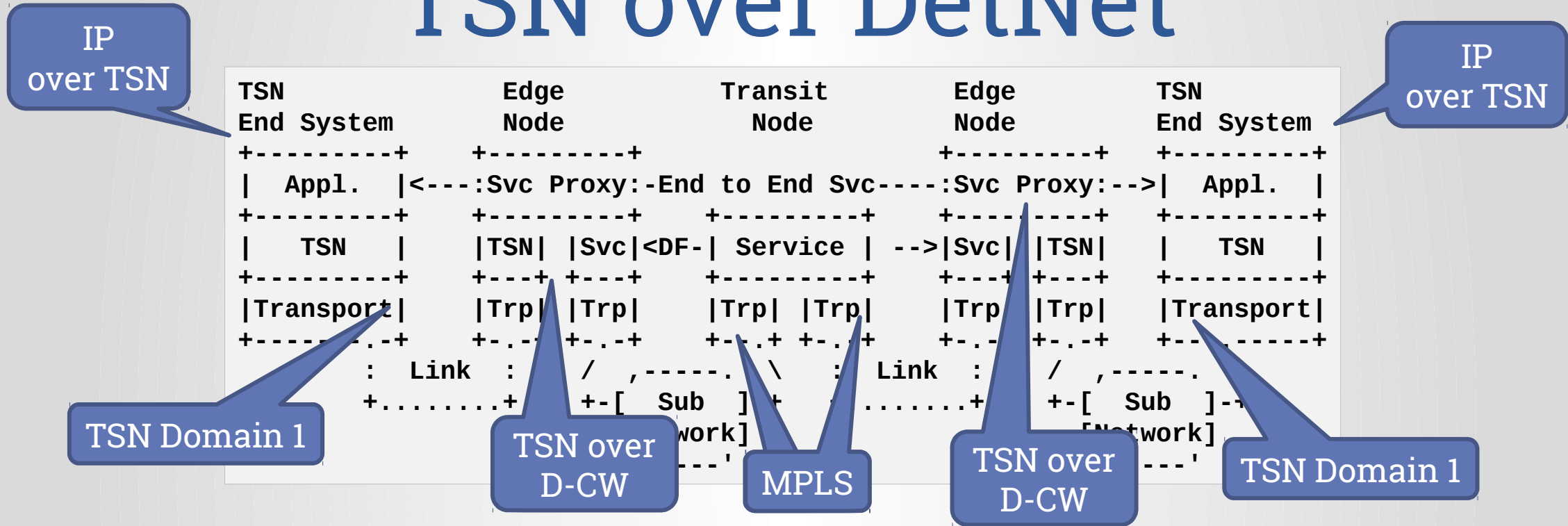
May be TSN

May be MPLS

May be TSN

- DetNet Service is end to end
 1. Congestion protection and latency control: usage of allocated resources (queuing, policing, shaping).
 2. Explicit routes: select/apply the flow specific path.
- Service protection is per link/sub net
 3. Service protection: recognize DetNet compound and member flows for replication and elimination.

TSN over DetNet



- TSN Service is end to end
- DetNet Service is edge to edge
 1. Congestion protection and latency control: usage of allocated resources (queuing, policing, shaping).
 2. Explicit routes: select/apply the flow specific path.
 3. Service protection: recognize DetNet compound and member flows for replication and elimination.

Open discussion

...

Some Open Questions

- How do we move beyond PREF discussions?
 - PREF is just an option for DetNet flows
 - DetNet function related scenarios:
 1. Congestion protection and latency control: usage of allocated resources (queuing, policing, shaping).
 2. Explicit routes: select/apply the flow specific path.
 3. Service protection: recognize DetNet compound and member flows for replication and elimination. **≡ PREF**
 - Current solution text primarily covers item 3!
 - Have section 7, but also have:
 - 5.6.1. Congestion protection
TBD.
 - 5.6.2. Explicit routes
TBD.
 - Perhaps focus on non-PREF text between now and IETF 101?

Some Open Questions

- IP handling -- Current proposal
 - Limit DetNet flow identification/support to existing header
 - 5-tuple, DSCP
 - Implies no DetNet PREF for IP end stations
 - Other DetNet services can still be provided end-to-end
 - PREF can be provided at the subnet level
 - DetNet/MPLS or TSN/802.1cb
 - Is this acceptable?
- Timing of document split?

Next Steps

- Next working meeting
 - o ~2 weeks for 1-2 hours?