

UDP-based Transport for Configured Subscriptions

draft-unyte-netconf-udp-notif-00

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Agenda

- Motivation
- Solution overview
- Status
- What's next?

Motivation

Objective

- Publication of **massive amounts** of networking device data
- **High volume**, fine granularity
- **Enabling line cards to directly send out data**, need for low performance impact

Applicability

- Controlled environments
- Reasonable amount of loss is acceptable -> metrics for accounting

□ UDP based transport proposed

Solution overview

Configured subscriptions

- Can be used in conjunction with "Subscription to Distributed Notifications" draft-unyte-netconf-distributed-notif-00
- Dynamic subscriptions taken out from earlier versions

UDP Transport

- Header with options
- Fragmentation option defined for verbose PDU encodings
- GPB, CBOR, XML and JSON encodings considered

Status

Security considerations

- Controlled environments...
- DTLS taken out from this draft, maybe to be revived in a separate draft

Congestion control

- Congestion can be detected at the collector with "message-id". Same as for IPFIX
- OPS's job to provision network path and check on it

Implementation by Huawei tested within Swisscom labs

What's next?

WG DOC?

- A lot of adaptation were done based on input from chairs and the working group feedback of IETF 103-105 (thanks !) to aim for simplicity and clarity.
- We think we got to the point where WG Doc call makes sense

Thanks !