Subscription to Distributed Notifications

draft-unitye-netconf-distributed-notif-00

G. Zheng, Huawei
T. Zhou, Huawei
Eric Voit, Cisco
P. Francois, INSA-Lyon
T. Graf, Swisscom
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
- Distributed forwarding systems

- Subscription to Distributed Notifications proposed
Solution overview

Subscriptions

• Can be used in conjunction with "UDP-based Transport for Configured Subscriptions"
draft-unele-netconf-udp-notif-00
• Describes how subscription can be composed among route-processor and processors on line
cards in a distributed forwarding system.

Transport

• Shares the same source IPv4/6 address
• Has a dedicated Layer4 port for each software process of the publisher
• Follows the same principle as in most IPFIX implementations
Status

Congestion control

- Congestion can be detected at the collector with "message-id" and "generator-id" for each publisher process.
- Re-transmission is out of scope
What's next?

WG DOC?

• A lot of re-writing were 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 !