

UDP-based Transport for Configured Subscriptions

draft-ietf-netconf-udp-notif-19/20

UDP-based protocol for YANG notifications
to collect YANG data from networking devices

G. Zheng, Huawei

T. Zhou, Huawei

T. Graf, Swisscom

P. Francois, INSA-Lyon

A. Huang Feng, INSA-Lyon

Paolo Lucente, NTT

March 18th 2025

UDP-based Transport for Configured Subscriptions

Status

- WGLC ended February 13th (successfully)
- Thanks Med, Andy, Giuseppe, Weiqiang, James, Dan, Camilo, Qiufang, Benoit, Ahmed, Yannick, Yufeng, Nils, Rob and Mahesh for the support and the (*very detailed*) reviews
- Triggered lively discussions improving the I-D

UDP-based Transport for Configured Subscriptions

Normative Changes

- Core ideas of the draft have not changed
- Normative changes (from discussions on the ML)
 - Private encoding options has been removed
 - Received feedback: Underspecified and main idea hard to parse
 - The order of the options is not mandated anymore
 - Received feedback: No reason to mandate such order
 - Remains: segmentation option MUST be first
 - DTLS 1.2 or later MUST be supported, DTLS 1.3 SHOULD be supported
 - Confirmed with SEC ADs (Thanks Rob for confirming this!)
 - Removed also DTLS1.2 limitations on the YANG module
 - Segmentation is mandatory for large messages

UDP-based Transport for Configured Subscriptions

Editorial Changes

- Added adherence to NMDA
- New Terminology section
 - Terms from YANG-Push and Distributed-Notif
- Text explaining how to reassemble a UDP-Notif message
 - Usage of Message Publisher ID + Message ID
- Added discussion on DTLS Fragmentation with UDP-Notif Segmentation
- Rather than mandating DTLS cipher suites → reference BCP195
- Updated References
- Security Considerations updated with template from I-D.ietf-netmod-rfc8407bis
- Add statements on reasons for allocating a registry for I-D.ietf-netconf-udp-pub-channel (IANA Considerations)

UDP-based Transport for Configured Subscriptions

What's next?

- The draft is ready for IESG reviews
- Looking for a shepherd