

November 8, 2024

# IETF 121 NETCONF WG

Kent Watsen & Per Andersson (co-chairs)

This session is being recorded

# Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (<https://www.ietf.org/contact/ombudsteam/>) if you have questions or concerns about this.

Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- [BCP 9](#) (Internet Standards Process)
- [BCP 25](#) (Working Group processes)
- [BCP 25](#) (Anti-Harassment Procedures)
- [BCP 54](#) (Code of Conduct)
- [BCP 78](#) (Copyright)
- [BCP 79](#) (Patents, Participation)
- <https://www.ietf.org/privacy-policy/>(Privacy Policy)



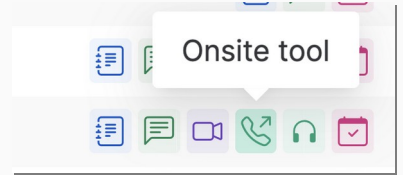
# Note Really Well

- IETF meetings, virtual meetings, and mailing lists are intended for professional collaboration and networking, as defined in the IETF Guidelines for Conduct (RFC 7154), the IETF Anti-Harassment Policy, and the IETF Anti-Harassment Procedures (RFC 7776). If you have any concerns about observed behavior, please talk to the Ombudsteam, who are available if you need confidentiality to raise concerns confident about harassment or other conduct in the IETF.
- The IETF strives to create and maintain an environment in which people of many different backgrounds and identities are treated with dignity, decency, and respect. Those who participate in the IETF are expected to behave according to professional standards and demonstrate appropriate workplace behavior.
- IETF participants must not engage in harassment while at IETF meetings, virtual meetings, social events, or on mailing lists. Harassment is unwelcome hostile or intimidating behavior—in particular, speech or behavior that is aggressive or intimidates.
- If you believe you have been harassed, notice that someone else is being harassed, or have any other concerns, you are encouraged to raise your concern in confidence with one of the Ombudspersons.

# IETF 121 Meeting Tips

## In-person participants

- Make sure to sign into the session via Datatracker or the QR Code in this session.
- Use Meetecho (usually the “Meetecho lite”) client to:
  - join the mic queue
  - participate in shows of hands
- *Keep audio and video off if not using the onsite version.*



## Remote participants

- Make sure your audio and video are off unless you are chairing or presenting during a session.
- Use of a headset is strongly recommended.

# Resources for IETF 121 NETCONF WG

- Meetecho
  - Remote: <https://meetings.conf.meetecho.com/ietf121/?group=netconf>
  - Onsite: <https://meetings.conf.meetecho.com/onsite121/?group=netconf>
  - Audio only: <https://meetings.conf.meetecho.com/ietf121/?group=netconf>
  - You should be logged into Meetecho, whether in-person (lite version, phone icon) or remote (full version, camera icon)
  - Watch the chat window for comments (can be made a separate window)
  - Zulip link - <https://zulip.ietf.org/#narrow/stream/netconf>
- Timing
  - 2 hour slot
  - Countdown timer at the bottom of the screen
- Queue
  - Queue will be managed by Meetecho, whether in-room or remote
  - To queue, use the the hand symbol
  - To speak, use the microphone symbol
  - Remember to remove yourself from the queue!
- Notes
  - Please contribute to minute taking
  - <https://notes.ietf.org/notes-ietf-121-netconf>

# Encouraging Participation

The IETF is a volunteer organization depending on your contribution!

There are several important actions listed below by level of engagement

- Mailing list engagement
- Commentator on the microphone
- Draft reviewer
- Draft implementer – Running code!
- Document shepherd
- Working Group Secretary



# Post WG document status

Draft	Status
NETCONF SZTP CSR draft	RFC 9646
Other “*-client-server” drafts	RFCs 9641, 9642, 9643, 9644, 9645
TLS 1.3 draft	RFC Editor Queue (MISSREF)
HTTPS Notif draft	IESG Evaluation (AD Followup)
http-client-server draft	IESG Evaluation (AD Followup)
netconf/restconf-client-server	AD Evaluation

# Status of WG chartered items

Draft	Status
UDP Client Server draft	Work in progress. Being discussed in this meeting.
UDP Notif draft	Work in progress. Being discussed in this meeting.
Distributed notif draft	Work in progress. Being discussed in this meeting.
Transaction-id draft	WGLC. Being discussed in this meeting.
List pagination drafts	Work in progress. Being discussed in this meeting.
Private candidates	Work in progress. Being discussed in this meeting.
NC/RC extensions to support trace context	WGLC. Update posted to list.
External Trace ID for configuration tracing	Work in progress. Being discussed in this meeting.
Versioning YANG Notifications Subscription	Work in progress. Being discussed in this meeting.
Adaptive Subscription to YANG Notification	Work in progress. Update posted to list.
Augmented-by addition to YANG Library	Work in progress. Being discussed in this meeting.
NETCONF over QUIC	Work in progress. Being discussed in this meeting.



# Other WG work

## **NETCONF interim**

- Discussed YANG notification specification gaps
- Discussed problem statement for YANG-Push notifications
- Interim requested time for discussion at IETF 121

## **NETCONF-next and RESTCONF-next**

- Have not made any progress since IETF 118 Prague
- Seems like the WG currently miss the resources

# Agenda chartered items

NETCONF over QUIC (5 min)

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-over-quic-01>

Discussion Leader: Marc Blanchet

NETCONF Private Candidates (10 min)

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-privcand-05>

Discussion Leader: James Cumming

Transaction ID Mechanism for NETCONF (5 min)

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-transaction-id-07>

Discussion Leader: Jan Lindblad

# Agenda chartered items, cont'd

List Pagination for YANG-driven Protocols (5 min)

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-list-pagination-05>

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-list-pagination-nc-05>

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-list-pagination-rc-05>

Discussion Leader: Qin Wu

YANG Groupings for UDP Clients and UDP Servers (10 min)

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-udp-client-server-05>

Discussion Leader: Alex Huang Feng

# Agenda chartered items, cont'd

UDP-based Transport for Configured Subscriptions (5 min)

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-udp-notif-15>

Discussion Leader: Alex Huang Feng

Subscription to Distributed Notifications (5 min)

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-distributed-notif-10>

Discussion Leader: Alex Huang Feng

External Trace ID for Configuration Tracing (10 min)

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-configuration-tracing-03>

Discussion Leader: Jean Quilbeuf

# Agenda chartered items, cont'd

Augmented-by Addition into the IETF-YANG-Library (5 min)

<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-yang-library-augmentedby-01>

Discussion Leader: Zhuoyao Lin

# Agenda non-chartered items

YANG Groupings for QUIC clients and QUIC servers (5 min)

<https://datatracker.ietf.org/doc/html/draft-andersson-netconf-quic-client-server-01>

Discussion Leader: Per Andersson

YANG Notification Transport Capabilities (10 min)

<https://datatracker.ietf.org/doc/html/draft-netana-netconf-yp-transport-capabilities-00>

Discussion Leader: Thomas Graf

Extensible YANG model for YANG-Push Notifications (15 min)

<https://datatracker.ietf.org/doc/html/draft-netana-netconf-notif-envelope-00>

Discussion Leader: Alex Huang Feng

# Agenda non-chartered items, cont'd

YANG-Push Operational Data Observability Enhancements (10 min)

<https://datatracker.ietf.org/doc/html/draft-wilton-netconf-yp-observability-00>

Discussion Leader: Rob Wilton

Collector implementation of https-notif (5 min)

<https://github.com/Sidhub723/https-notif-c-collector-fork/>  
<https://github.com/MeherRushi/https-notif-servers/>

Discussion Leader: Bharadwaja MeherRushi Chittapragada

# Future Status Update Requirement

We will request the authors of all WG documents to provide a status update to the WG at every IETF meeting.

- Status includes, at a minimum, recent changes, any outstanding issues, and the plan to complete the document
- Updates are done either as:
  - Presentation at the IETF
  - An e-mail to the WG list, no later than Internet-Draft submission cut-off