

IETF Status Report to TSG CT/SA#90

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Summary

- ≈1 ongoing request for IANA port number assignment
- P
- ≈ 15 drafts have become RFC already
 - final CR in 3GPP still needed, for some of them
- 19 drafts are in the RFC Editors Queue,
- 4 drafts still under IESG review,
- 4 individual drafts and
- 4 drafts that have expired.



IANA Action

IANA number Assignment

- Thanks to IESG, IANA has allocated the port 37472 to W1 interface
- - TR 29.835: Study on Port Number Allocation Alternatives for New 3GPP Interfaces
 - https://www.3gpp.org/ftp/Specs/latest-drafts/29835-020.zip

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Proposed solutions in TR 29.835

- ≈3GPP allocating port numbers
 - 3GPP specific sub-range into Dynamic/Private Port range [49152 - 65535]
- OAM-based solution
 - from either the User Port number range [1024-49151]
 - from the Dynamic/Private Port range [49152 65535]
- ♣ DNS-based solutions
 - DNS-SD, SRV, mDNS

- Multiplexing SCTP application on the same Port
 - Similar to TCPMUX
- SCTP multiplex application
 - Negotiation and Multiplex/demultiplex SCTP applications over a single well-known port assigned to the new application
- ▼TCPMUX for TCP application
- ≈3GPP specific solutions

Working assumptions

- ▼It is assumed that it will be still possible to assign port numbers for 3GPP protocols used in inter-domain/inter-network
 - To be confirmed by IETF/ISG
- ▼It is assumed that IETF experts will review the study and provide feedback
- ▼It is assumed that the solutions selected at the end of the study will not collide with IETF recommendations
 - To be confirmed by IETF/IESG



IETF/IESG Action

- ≈3GPP si still expecting a reply to the 3GPP LS sent in July 20
 - https://datatracker.ietf.org/liaison/1685/
- The study is supposed to be concluded in March 21
- ▼IETF/IESG is kindly asked to:
 - Reply to the LS sent in July
 - Confirm the 3GPP Working Assumptions
 - Provide 3GPP with feedback on the proposed solutions

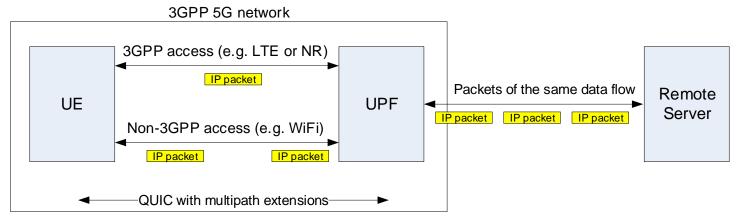


ATSSS Phase 2



QUIC with multipath extensions

Simultaneous transmission of a data flow across 3GPP access (e.g. LTE or NR) and non-3GPP access (e.g. WiFi)



- For TCP: multipath TCP (based on RFC 8684)
- For non-TCP: solution using QUIC with multipath extensions
 - e.g. such as those specified in the draft-deconinck-multipath-quic



IETF Action

- To meet the 3GPP Rel-17 timelines, the standardization of such solution can be realized only if a WG draft for multipath QUIC extensions is adopted by the end of March 2021.
 - The RFC can be published by end of 2021
- ▼IETF to provide any feedback to 3GPP SA2



New Published RFCs



New published RFCs

₹RFC 8898

- Title: Third-Party Token-based Authentication and Authorization for Session Initiation Protocol (SIP)
- Was: draft-ietf-sipcore-sip-token-authnz

₹RFC 8803

Title: 0-RTT TCP Convert Protocol

Was: draft-ietf-tcpm-converters

New published RFCs



- Title: Location Source Parameter for the SIP Geolocation Header Field
- Was: draft-ietf-sipcore-locparam
- To be updated: TS 24.229 Rel-16

₹RFC 8693

- Title: OAuth 2.0 Token Exchange
- Was: draft-ietf-oauth-tokenexchange
- To be updated: TS 24.482 (since rel-14)

₹RFC 8684

- Title: TCP Extensions for Multipath Operation with Multiple Addresses
- Was: draft-ietf-mptcp-rfc6824bis



Drafts in RFC Editor queue

Drafts in RFC Editor queue (rtcweb)

- draft-ietf-rtcweb-overview
 - Title: Overview: Real Time Protocols for Browser-based Applications
- draft-ietf-rtcweb-data-channel
 - Title: WebRTC Data Channels
- draft-ietf-rtcweb-data-protocol
 - WebRTC Data Channel Establishment Protocol
- draft-ietf-rtcweb-security
 - Title: Security Considerations for WebRTC

Drafts in RFC Editor queue (clue)

- draft-ietf-clue-framework
 - Title: Framework for Telepresence Multi-Streams
- draft-ietf-clue-signaling
 - Title: Session Signaling for Controlling Multiple Streams for Telepresence (CLUE)
- draft-ietf-clue-datachannel
 - Title: CLUE Protocol data channel
- draft-ietf-clue-data-model-schema
 - Title: An XML Schema for the CLUE data model

Drafts in RFC Editor queue (clue)

- draft-ietf-clue-rtp-mapping
 - Title: Mapping RTP streams to CLUE Media Captures
- draft-ietf-clue-protocol
 - Title: Protocol for Controlling Multiple Streams for Telepresence (CLUE)

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Drafts in RFC Editor queue (mmusic)

- draft-ietf-mmusic-sctp-sdp
 - Title: SDP Offer/Answer Procedures For SCTP over DTLS Transport.
- draft-ietf-mmusic-sdp-simulcast
 - Title: Using Simulcast in SDP and RTP Sessions
- draft-ietf-mmusic-data-channel-sdpneg
 - Title: SDP-based Data Channel Negotiation
- draft-ietf-mmusic-rid
 - Title: RTP Payload Format Restrictions
- draft-ietf-mmusic-dtls-sdp
 - Title: SDP Offer/Answer Considerations for DTLS and TLS

Drafts in RFC Editor queue (mmusic)

- draft-ietf-mmusic-t140-usage-data-channel
 - Title: T.140 Real-time Text Conversation over WebRTC Data Channels
- draft-ietf-mmusic-mux-exclusive
 - Indicating Exclusive Support of RTP/RTCP Multiplexing using SDP
- draft-ietf-mmusic-sdp-bundle-negotiation
 - Title: Negotiating Media Multiplexing Using the SDP
- draft-ietf-mmusic-msrp-usage-data-channel
 - Title: MSRP over Data Channels

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Drafts in RFC Editor queue (other)

- draft-ietf-ice-trickle
 - Title: Trickle ICE: Incremental Provisioning of Candidates for the Interactive Connectivity Establishment (ICE) Protocol
- draft-ietf-stir-passport-divert
 - Title: PASSporT Extension for Diverted Calls



Drafts under IESG review



Drafts under IESG review

- draft-ietf-emu-rfc5448bis
 - Title: Improved Extensible Authentication Protocol Method for 3GPP Mobile Network Authentication and Key Agreement (EAP-AKA')



Active WG document



Active WG document



Individual submission

- Managed by https://json-schema.org/
 - Status: it seems a controversial topic in IETF. Not sure one of them get RFCized
- draft-handrews-json-schema-validation [REST_SS]
 - Title: JSON Schema Validation: A Vocabulary for Structural Validation of JSON
 - Published: 2019-09-17
- draft-handrews-json-schema [REST_SS]
 - Title: JSON Schema: A Media Type for Describing JSON Documents
 - Published: 2019-09-17
- draft-handrews-json-schema-hyperschema [REST_SS]
 - Title: JSON Hyper-Schema: A Vocabulary for Hypermedia Annotation of JSON



Expired Drafts

- draft-schwarz-mmusic-sdp-for-gw
 - Still to be done
- draft-jesske-sipcore-sip-tree-cap-indicators
 - Removed from CT1 spec. No more dependency
- draft-ietf-oauth-pop-architecture
 - Title: OAuth 2.0 Proof-of-Possession (PoP) Security Architecture
 - Not required anymore as we could refer to RFC 7800
- draft-jesske-update-p-visited-network
 - Title: Update to P-Visited-Network-ID in SIP Requests and Responses
 - To be reactived by Roland.



Thank You!

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