

IETF-3GPP coordination

IETF 121

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Agenda



- Welcome, [notetakers](#), agenda bash
- Liaison statements
- Dependencies
- Coordination [email list](#)
- RFC 3113 update
- 3GPP technology deep dive (TDD)
- AoB

Liaison statements

SA5 -> NETMOD

- LS on need for modeling isInvariant and SystemCreated in YANG (2023/03/09)
- 3GPP Requirements
 - Solution to represent isInvariant and SystemCreated properties in YANG statements
 - View [draft-ma-netmod-immutable-flag](#) as a potential solution
- Discussed in NETMOD at IETF 117 – IETF 120
 - WG adoption poll for [draft-ma-netmod-immutable-flag-08](#) completed with mixed opinions
 - Compromise reached to address requirements without negative impact to YANG architecture
 - Defines a way to formally document the immutability of system-provided nodes using a YANG metadata annotation called "immutable"
 - [draft-ietf-netmod-immutable-flag, -02](#) posted 2024-09-27

SA3 and RAN3 -> TSVWG



- Reply LS on DTLS for SCTP (2023/08/21) from SA3
- Reply LS on DTLS for SCTP next steps and request for input (2023/08/30) from RAN 3
- Both in response to [DTLS for SCTP next steps and request for input](#) (2023/08/04)
 - TSVWG lists architectural and security requirements TSVWG has taken into consideration towards developing a solution and asks if interpretation of requirements is correct, if 3GPP has preference or feedback on proposed solutions, and encourages participation in [interim TSVWG meeting](#) (2023/09/19).
- Feedback from SA3:
 - TSVWG's interpretation of security requirements is correct – they are generic best-practice properties of a security protocol.
 - Solution (ii) preferred because it appears to have lower implementation effort
- Feedback from RAN3:
 - RAN3 does not want to limit the maximum message size of application protocols. For this reason, any solution with a limit on message size will not meet RAN3 requirements. SCTP implementations are not discussed in RAN3
- TSVWG design team to set requirements for DTLS/SCTP
 - Established design goals and security requirements to scope the new specification
 - LS will be sent once a solution has been identified and specified in enough detail to be reviewed

DRIP -> SA2, SA3

- [LS on RFC 9374](#), "DRIP Entity Tag (DET) for Unmanned Aircraft System Remote ID (UAS RID) (24/04/22)"
 - Informs 3GPP of RFC and other recently published RFCs and drafts in DRIP WG
- LS was initially missed on 3GPP side, scheduled for August meeting in SA2 and SA3
- Noted in SA2 and SA3

TEAS -> SA2, SA3, SA5, RAN3




LS on RFC 9543, "A Framework for Network Slices in Networks Built from IETF Technologies"

(24/04/24)

- TEAS WG informs 3GPP of publication of RFC 9543, which describes network slicing in context of networks built from IETF technologies and establishes general principles of network slicing in IETF context.
- LS was initially missed on 3GPP side, scheduled for August meeting in SA2, SA3, SA5, RAN3
- Noted in SA2, SA3, SA5, and RAN3

TEAS -> SA2, SA3, SA5, RAN3



 LS on draft-ietf-teas-5g-ns-ip-mpls, "A Realization of Network Slices for 5G Networks Using Current IP/MPLS Technologies" (2024/06/04)

- Request 3GPP to review and confirm the 5G overview in Appendix is accurate
- Action: Feedback requested by 2024/08/30

 LS scheduled for August meeting in SA2, SA3, SA5, RAN3

- Noted in SA3. Reply LS from SA2, SA5, RAN3 requesting updates to draft
- Comments addressed in -11 posted 2024-09-23, -13 posted 2024-10-11

SA -> QUIC

- 🌿 LS on security considerations for MPQUIC (2024-06-25)
 - 3GPP Release 18 functionality for Access Traffic Steering, Switching and Splitting (ATSSS) has dependency on [draft-ietf-quic-multipath](#), as specified in 3GPP TS 23.501 clause 5.32.6.2.2
 - Action: Update draft-ietf-quic-multipath-08 to address TBD in section 11, “Security Considerations”
- 🌿 Substantial progress made in QUIC WG in parallel
 - Security consideration included in -09, posted 2024-06-21, refined by -10, posted 2024-07-08
- 🌿 Reply LS on Security Considerations for MPQUIC (2024-07-26)
 - quic-multipath retains security features of [RFC 9000](#) and [RFC 9001](#)
 - Security consideration section of [extension draft](#) contains additional considerations specific to use of multiple simultaneous paths
- 🌿 On agenda for SA2 at August meeting. Noted.

SA2 -> MASQUE

LS on XRM metadata exchange between 3GPP Core and an Application server

(2024/09/05)

- SA2 defining solution for QoS for XRM (eXtended Reality) flows over 5G
- Need in band metadata about structure and characteristics of application media content in traffic flows that are subject to end-to-end ciphering (e.g., provided by QUIC).
- SA2 would like feedback on aspects of the solution related to Client Connection ID (CID) detection and registration, given the somewhat different deployment model than what is assumed in [draft-ietf-masque-quic-proxy](#), “QUIC-Aware Proxying Using HTTP”.
- For Action: 2024-11-11

SA4 -> IETF

- 🌿 LS on the IVAS Codec (2024-09-05)
- 🌿 Informs of completion of work on Immersive Voice and Audio Services (IVAS) codec. IVAS is the next generation codec in 3GPP. It is an extension of the 3GPP Enhanced Voice Services (EVS) codec. The codec is optimized for services over 5G mobile networks and implementations on 5G devices.
- 🌿 For Information


DETNET -> RAN2, RAN3, SA2, SA5



- Anticipated LS on [draft-ietf-raw-technologies](#), Reliable and Available Wireless Technologies
- Draft explores suitability of short and middle range radio technologies to provide a DETNET RAW service
- Technologies studied include Wi-Fi 6/7, Time Slotted Channel Hopping (TSCH), 3GPP 5G, and L-band Digital Aeronautical Communications System (LDACS)
- Concludes 5G is suitable technology to apply RAW
- Draft recently completed WGLC
- LS (Informational?) to 3GPP to be discussed in DETNET at IETF 121

Dependencies

Published RFCs

-  Messaging Use Cases and Extensions for Secure Telephone Identity Revisited (STIR), [RFC 9475](#)
 - Was draft-ietf-stir-messaging
 - Published 2023-12-19
 - Next steps: CRs to 33.127
 - 17.13.0 updated references section but not text within document
 - 18.8.0 updated references section but not text within document

Published RFCs

Deterministic Networking (DetNet) YANG Data Model, [RFC 9633](#)

- Was [draft-ietf-detnet-yang](#)
- Published 2024/10/28
- Next step: CRs to 23.501, 23.503 and 29.565

Drafts in RFC Editor queue

[draft-ietf-stir-passport-rcd](#)

- Title: PASSporT Extension for Rich Call Data
- Last update: draft-ietf-stir-passport-rcd-26, posted 2023/06/05
- RFC editor state: MISSREF ([draft-ietf-sipcore-callinfo-rcd](#))
 - Good progress before and during IETF 120
 - draft-ietf-sipcore-callinfo-rcd-12 posted 2024-07-22, basis for a second WGLC
- Next steps: RFC publication, CRs to 33.127 and 33.128

Drafts in IESG review

[draft-ietf-opsawg-teas-attachment-circuit](#)

- Title: YANG Data Models for 'Attachment Circuits'-as-a-Service (ACaaS)
- Status: Was draft-boro-opsawg-teas-attachment-circuit
- draft-ietf-opsawg-teas-attachment-circuit-17 posted 2024-10-10
- Next steps: RFC publication, SA5 CR to 28.541

Active WG documents

[draft-ietf-quic-multipath](#)

- Title: Multipath Extension for QUIC
- Status: WG document, draft-ietf-quic-multipath-11 posted 2024-10-21
- Next step: WG review, IESG review, RFC publication, SA2 CR to 23.501, CT1 CR to 24.193

[draft-ietf-mimi-content](#)

- Title: More Instant Messaging Interoperability (MIMI) message content
- Status: WG document, draft-ietf-mimi-content-04 posted 2024-06-10
- Next step: WG review, IESG review, RFC publication, SA4 CR to

Active WG documents

draft-sipcore-rfc7976bis

- Title: Update to P-Visited-Network-ID in SIP Requests and Responses
- Was draft-jesske-update-p-visited-network
- Agreement to handle within SIPCORE at IETF 116 coordination meeting
- Additional WGLC held
- draft-sipcore-rfc7976bis-03 posted 2024-07-24 addressing comments
- Renamed to [draft-ietf-sipcore-rfc7976bis-00](#), posted 2024/08/20
- Next steps: WG review, IESG review, RFC publication, CT1 CR to 24.229

Active WG documents

draft-ietf-masque-connect-ethernet

- Title: Proxying Ethernet in HTTP
- Like IP proxying in HTTP, but for Layer 2 instead of Layer 3
- Status: draft-ietf-masque-connect-ethernet-05 posted 2024-10-20
 - On agenda at IETF 121 and expected to enter WGLC at this meeting
- Next steps: WGLC, IESG review, RFC publication, SA2 CR to 23.501

Individual drafts

[draft-bhutton-json-schema](#)

- Title: JSON Schema: A Media Type for Describing JSON Documents
- Status: Expired 2022-12-12
- SA4 referenced in TS 26.510 and TS 26.512

JSON Schema TSC clarified they do not intend to standardize JSON Schema at IETF. The latest versions can be found here at <https://json-schema.org/specification>. When referencing JSON Schema, it can be helpful to include a specific version, such as 2020-12, e.g., <https://ajv.js.org/json-schema.html>.

Next steps: Peter to follow up with SA4?

Individual drafts

[draft-bhutton-json-schema-validation](#)

- Title: JSON Schema Validation: A Vocabulary for Structural Validation of JSON
- Status: Expired 2022-12-12
- SA4 referenced in TS 26.510 and TS 26.512
- SA5 referenced [older versions](#) in TS 32.158 and TS 32.160

Individual drafts

[draft-newton-json-content-rules](#)

- Title: A Language for Rules Describing JSON Content
- Status: Expired 2018-04-19
- CT3 referenced in TS 29.155, 29.250, TS 29.251

Individual drafts

[draft-handrews-json-schema-hyperschema](#)

- Title: JSON Hyper-Schema: A Vocabulary for Hypermedia Annotation of JSON
- Status: Last version published in 09/2019
- Expired 2020-03-20 (Latest revision 2019-09-17)
- SA5 referenced [older versions](#) in TS 32.158 and TS 32.160
- Authors contacted. If no response, contact wit-ads@ietf.org

Individual drafts

[draft-kelly-json-hal](#)

- Title: JSON Hypertext Application Language
- Status: Expired 2024-04-21 (Latest revision 2023-10-19)
- CT4 referenced in TS 29.501
- In 29.501, draft-kelly-json-hal-11 is a reference, it is in a NOTE:
 - *Basic 3GPP hypermedia format **defined in 29.501** is derived from Hypertext Application Language (HAL). HAL is specified in an expired internet draft available at <https://tools.ietf.org/html/draft-kelly-json-hal-11>*
 - The following media types defined by 3GPP have been listed by IANA:
 - application/3gppHal+json
 - application/3gppHalForms+json

Coordination email list

Datatracker Group -> IAB -> IETF 3GPP



Datatracker Groups Documents Meetings Other eckelcu Report a bug Document search

IETF-3GPP (ietf3gpp)

About Documents Meetings History Photos Email expansions

Edit milestones Edit group

IAB ASG	Name	Edit IETF-3GPP
	Acronym	ietf3gpp
	State	Edit Active
	Document dependencies	Show
	Additional resources	Edit Dependency list Liaison statements
Personnel	Leads	Edit Charles Eckel , Peter Schmitt
	Delegates	Edit Charles Eckel , Éric Vyncke , Peter Schmitt

Group description

The purpose of this group is to support coordination activities between IETF and 3GPP, as documented in RFC 3113. The group maintains an invitation-only mailing list (<https://www.ietf.org/mailman/listinfo/3gpp-ietf-coord>), a dependency list for tracking document dependencies, and shepherds liaison statements exchanged between IETF and 3GPP. The group typically meets during each IETF meeting to review the state of our collaboration and raise awareness about topics requiring additional attention.

This group is led jointly by the respective liaison managers from both organizations, IETF and 3GPP. This group has no fixed membership but participation from relevant IETF Area Directors, IETF WG Chairs, 3GPP WG Chairs, and document authors/editors is encouraged. The group co-leads will review and update the mailing list yearly prior to the July meeting, in order to adjust for changes in the IESG and IAB.

Edit group description

3gpp-ietf-coord@ietf.org



Subscription requests may be made by anyone

Invite sent proactively to missing IESG members

- Sent to new IESG members

3gpp-ietf-coord -- 3GPP IETF COORDINATION

About 3gpp-ietf-coord English (USA)

To see the collection of prior postings to the list, visit the [3gpp-ietf-coord Archives](#).

Using 3gpp-ietf-coord

To post a message to all the list members, send email to 3gpp-ietf-coord@ietf.org.

You can subscribe to the list, or change your existing subscription, in the sections below.

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You may enter a privacy password below. This provides only mild security, but should prevent others from messing with your subscription. **Do not use a valuable password** as it will occasionally be emailed back to you in cleartext.

If you choose not to enter a password, one will be automatically generated for you, and it will be sent to you once you've confirmed your subscription. You can always request a mail-back of your password when you edit your personal options.

Pick a password:

Reenter password to confirm:

Which language do you prefer to display your messages? English (USA)

Would you like to receive list mail batched in a daily digest? No Yes

RFC 3113 Update

- Discussed status of RFC 3113 at IAB-IESG retreat before IETF 120
- Chose the following path forward:
 - Update RFC3113 to contain high-level description of collaboration (e.g., 3GPP-IETF coordination team)
 - Remove references to technology and org structure items that may change frequently
 - Move details of collaboration to a Wiki

3GPP technology deep dive (TDD)

- 3GPP 5G architecture from IETF routing perspective
- Thursday 08:00 – 09:15, Wicklow Hall 2B
- Abstract
 - 3GPP specifications cover cellular telecommunications technologies and provide a complete system description for mobile communication, including radio access, core network, and service capabilities. These specifications also provide hooks for non-radio access to the core network and for interworking with non-3GPP networks. IETF defined protocols and technologies are used extensively by 3GPP. The technical deep dive focuses on 3GPP core networking from an IETF routing area perspective. A brief overview of 3GPP structure and working procedures is provided as well.
- Agenda
 - Intro to 3GPP (15 min, Charles)
 - 3GPP 5G architecture from IETF routing perspective (30-45 min, Jeffrey)
 - Moderated panel-discussion (15-30 min, Brian)

Any Other Business

Thank You!



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