

IETF-3GPP coordination

IETF 120

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Agenda



- Welcome, [notetakers](#), agenda bash
- Liaison statements
- Dependencies
- 5QI to DiffServ DSCP Mapping per [draft-cbs-teas-5qi-to-dscp-mapping](#)
- Coordination [email list](#)
- RFC 3113 update
- 3GPP Tutorial
- 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 118, and IETF 119
 - 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](#) -00 posted (2024/03/18) , -01 posted (2024-06-28), on agenda at IETF 120

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
 - Establish design goals and security requirements to scope the new specification
 - Produce a short-lived draft to capture results, present and refine at IETF 118 and 119, on agenda at 120
 - LS will be sent once a solution has been identified and is specified in enough detail to be reviewed

DRIP -> SA2,3

- [LS on RFC 9374](#), "DRIP Entity Tag (DET) for Unmanned Aircraft System Remote ID (UAS RID) (24/04/22)"
 - Informs 3GPP about "DRIP Entity Tag (DET) for Unmanned Aircraft System Remote ID (UAS RID)", which is currently in the RFC Editor queue and will be published as an RFC in the coming months
- LS was initially missed on 3GPP side, scheduled for August meeting 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

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

SA -> QUIC

LS on security considerations for MPQUIC (2024-06-25)

- 3GPP Release 18 functionality for Access Traffic Steering, Switching and Splitting (ATSSS) has a dependency on the IETF draft 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”
- Next SA meeting: 10-13 Sept 2024 Melbourne, AU

Good progress was being made in QUIC WG in parallel

- Mirja, an author, provided update, there have been three revisions since last meeting, good progress, very stable and hopefully close to final state now.
- -09 posted 2024-06-21, provided security considerations, refined by -10 posted 2024-07-08
- QUIC WG to draft reply LS that will be sent during or shortly after IETF 120

Dependencies

Published RFCs

➤ Additional OAuth Parameters for Authorization in Constrained Environments (ACE), [RFC 9201](#)


- Was IETF draft: draft-ietf-ace-oauth-params
- Published 2022-08-31
- CRs to 33.434 approved
 - https://www.3gpp.org/ftp/tsg_sa/WG3_Security/TSGS3_115_Athens/docs/S3-240858.zip
(Rel 17)
 - https://www.3gpp.org/ftp/tsg_sa/WG3_Security/TSGS3_115_Athens/docs/S3-240859.zip
(Rel 18)

Published RFCs

Datagram Transport Layer Security (DTLS) Profile for Authentication and Authorization for Constrained Environments (ACE) [RFC 9202](#)

- Was IETF draft: draft-ietf-ace-dtls-authorize
- Published 2022-08-31
- CRs to 33.434 approved
 - https://www.3gpp.org/ftp/tsg_sa/WG3_Security/TSGS3_115_Athens/docs/S3-240858.zip
(Rel 17)
 - https://www.3gpp.org/ftp/tsg_sa/WG3_Security/TSGS3_115_Athens/docs/S3-240859.zip
(Rel 18)

Published RFCs


 The Object Security for Constrained RESTful Environments (OSCORE) Profile of the Authentication and Authorization for Constrained Environments (ACE) Framework, [RFC 9203](#)

- Was IETF draft: draft-ietf-ace-oscore-profile
- Published 2022-08-31
- CRs to 33.434 approved
 - https://www.3gpp.org/ftp/tsg_sa/WG3_Security/TSGS3_115_Athens/docs/S3-240858.zip
(Rel 17)
 - https://www.3gpp.org/ftp/tsg_sa/WG3_Security/TSGS3_115_Athens/docs/S3-240859.zip
(Rel 18)

Published RFCs

- Extension of the Datagram Transport Layer Security (DTLS) Profile for Authentication and Authorization for Constrained Environments (ACE) to Transport Layer Security (TLS), [RFC 9430](#)
 - Was draft-ietf-ace-extend-dtls-authorize
 - Published 2023-07-11
 - CRs to 33.434 approved
 - https://www.3gpp.org/ftp/tsg_sa/WG3_Security/TSGS3_115_Athens/docs/S3-240858.zip
(Rel 17)
 - https://www.3gpp.org/ftp/tsg_sa/WG3_Security/TSGS3_115_Athens/docs/S3-240859.zip
(Rel 18)

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

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)
- Next steps: Publish as Proposed Standard RFC, CRs to 33.127 and 33.128

[draft-ietf-detnet-yang](#)

- Title: Deterministic Networking (DetNet) YANG Model
- Last update: draft-ietf-detnet-yang-20 posted 2024/02/24
- RFC editor state: RFC-EDITOR
- Next step: Publish as Proposed Standard RFC , CRs to 23.501, 23.503 and 29.565

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-13 posted 2024-05-29
- 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-10 posted 2024-07-08
- Next step: WG review, IESG review, RFC publication, SA2 CR to 23.501

[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, SAx 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 on draft-sipcore-rfc7976bis-01
- draft-sipcore-rfc7976bis-02 posted 2024-07-05 addressing WGLC comments, one comment (from Paul K.) still to address
- 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-04 posted 2024-07-08
 - On agenda at IETF 120 and expected to enter WGLC at this meeting
 - Referenced in conclusions in TR 23.700-54 (see 8.2.1 Conclusion for Key Issue #2.1), the corresponding study has completed with normative work to follow in TS 23.501.
- Next steps: WGLC, IESG review, RFC publication, SA2 CR to 23.501

Individual drafts

[draft-bhutton-json-schema-01](#)

- Title: JSON Schema: A Media Type for Describing JSON Documents
- Status: Expired, last version published 2022-06-10
- SA4 referenced in TS 26.510 and TS 26.512

Note: The evolving JSON Schema validation specification is nowadays maintained at <https://json-schema.org/draft/2020-12/json-schema-validation> by a loosely organised group of individuals calling themselves "JSON Schema" with support from a non-profit organisation called [Open Source Collective](#) which funds its activities (including website hosting) by donations. A valid IETF reference would be preferred.

Individual drafts

[draft-newton-json-content-rules-09](#)

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

5QI to DiffServ DSCP Mapping



draft-cbs-teas-5qi-to-dscp-mapping

- 5G End-to-End Network Slice QoS is an essential aspect of network slicing, as described in both IETF drafts and the 3GPP specifications.
- Network slicing allows for the creation of multiple logical networks on top of a shared physical infrastructure, tailored to support specific use cases or services.
- The primary goal of QoS in network slicing is to ensure that the specific performance requirements of each slice are met, including latency, reliability, and throughput.

 On agenda in TEAS

 Opposition by 3GPP to similar efforts in IETF in the past

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 after IETF 119

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.

Subscribing to 3gpp-ietf-coord

Subscribe to 3gpp-ietf-coord by filling out the following form. You will be sent email requesting confirmation, to prevent others from gratuitously subscribing you. Once confirmation is received, your request will be held for approval by the list moderator. You will be notified of the moderator's decision by email. This is also a private list, which means that the list of members is not available to non-members.

Your email address:

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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

- The IAB discussed the status of RFC3113 at the recently concluded IAB-IESG retreat.
- After discussing multiple options, the IAB chose the following path forward:
- Update RFC3113 to contain only high level details of the collaboration (e.g. 3GPP-IETF co-ordination team)
 - Remove references to technology and org structure items that will become out of date quickly.
 - Move all the details of the collaboration to a Wiki.

3GPP tutorial as TDD



- Jeffrey Zhang expressed that a 3GPP technology tutorial could be helpful for the IETF community and volunteered to put it together. Jari Arkko able to help.
- In parallel, Brian Trammel and Warren Kumari working on reviving Technical Deep Dives (TDDs) and asked about interest in having one on 3GPP.
- For TDD, focus on architecture, related security topics, how IETF technologies are used in 3GPP networks.
 - Separation of control and data plane, 4G/5G deployments and 6G planning, lags in deployment of new IETF technologies and retiring of old one (e.g., GTP, SCTP)
- Complement with more detailed general and area-specific tutorials
- Target IETF 121 in Dublin

Any Other Business

Thank You!



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