

IETF-3GPP coordination

IETF 123

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IETF)

Agenda



- Welcome, [notetakers](#), agenda bash
- Liaison statements
- Dependencies
- RFC 3113 update
- 6G timelines
- AoB

Liaison statements

GREEN > RAN1, RAN4, SA2, SA3, SA4, SA5, CT1, CT4



- LS on the creation of the Getting Ready for Energy-Efficient Networking Working Group in the IETF
(2025/04/28)
 - For Information
 - We are glad to inform you that a new Working Group (WG) Getting Ready for Energy-Efficient Networking (GREEN), is created by the IETF. The WG held its first meeting in November 2024, in Dublin, during IETF 121. The GREEN WG is chartered to explore use cases, derive requirements, and provide solutions for identifying and characterizing energy efficiency metrics, methods related to energy consumption of network devices, and optimizing energy efficiency across the network.
- LS is on the agenda for the RAN1, SA2, SA3, SA4, SA5, CT1, CT4 in May
 - Noted in SA3. Interested in metrics and energy usage of various crypto algorithms.
 - Noted in RAN1, SA2, SA4, SA5, CT1, CT4
 - On agenda for RAN4 meeting in August

6MAN-> RAN2, SA2, CT1, CT3, CT4



- LS on draft-ietf-6man-deprecate-router-alert, “Deprecation of the IPv6 Router Alert Option for New Protocols”
(2025/04/28)
 - For Information
 - The IETF is progressing a document that will deprecate the use of IPv6 Router Alert. Protocols that use the Router Alert Option may continue to do so, even in future versions. However, new protocols that are standardized in the future must not use the Router Alert Option.
- LS is on the agenda for the RAN2, SA2, CT1, CT3, CT4 in May
 - Noted in SA2, CT1, CT3, CT4
 - On agenda for RAN2 meeting in August.

NMOP-> SA5

- LS on draft-ietf-nmop-simap-concept, "SIMAP: Concept, Requirements, and Use Cases"
(2025/04/15)
 - For Information
 - NMOP is finalizing the draft, believes that existing SIMAP data models can be leveraged in the context of Network Digital Twin (NDT) beyond the IETF, e.g., 3GPP effort on "Management and orchestration; Management aspects of Network Digital Twins" (TS 28.561).
- LS is on the agenda for the SA5 in May
 - Noted in SA5

SA5 -> NETMOD

- LS on need for modeling isInvariant and SystemCreated in YANG (2023/03/09)
 - Need solution to represent isInvariant and SystemCreated properties in YANG statements
 - View [draft-ma-netmod-immutable-flag](#) as a potential solution
- isInvariant
 - 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](#), -04 posted 2025-05-15, in 2nd WGLC
- SystemCreated classes
 - Solution provided differs from that described in LS but is believed to address requirements while preserving NETCONF/YANGs transactional behavior in an NMDA compliant manner.
 - [draft-ietf-netmod-system-config](#), -12 posted 2025-02-12, WG consensus, waiting for shepherd writeup

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)
 - SA3 and RAN3 confirmed TSVWG's interpretation of requirements
- TSVWG design team completed with agreement on design goals and security requirements; however, not able to reach consensus on a solution
- Next steps following IETF 122
 - Restarted design team, deadline of IETF 123 Madrid (July 2025) to reach consensus on solution
 - LS will be sent to communicate result

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
 - 17.15.0 updated references section but not the actual references within document
 - 18.11.0 updated references section but not the actual references within document
 - 19.2.0 updated correctly

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 and 23.503

Published RFCs

- Instant Message Disposition Notification (IMDN), [RFC 5438](#)
 - Was draft-ietf-simple-imdn
 - Published 2009-02
 - Next steps: CR to 23.204. updated references section but not the actual references within document

Published RFCs

Personal Assertion Token (PASSporT) Extension for Rich Call Data, [RFC 9795](#)

- Was draft-ietf-stir-passport-rcd
- Published 2025/07
- Had been waiting on publication of a normative reference. draft-ietf-sipcore-callinfo-rcd, which has now been published as RFC 9796.
- Next steps: SA2 CR to 23.228, SA3 CRs to 33.127 and 33.128

Published RFCs

- SIP Call-Info Parameters for Rich Call Data, [RFC 9796](#)
 - Was draft-ietf-sipcore-callinfo-rcd
 - Published 2025/07
 - Good progress leading into IETF 122
 - draft-ietf-sipcore-callinfo-rcd-19 posted 2025-05-23, addressing comments from IESG review
 - Next steps: SA2 CR to 23.228

Drafts in RFC Editor queue

[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-20 addressed IESG review comments
- In RFC editor queue as of 2025-01-23.
- Next steps: RFC publication, SA5 CR to 28.541

Drafts in RFC Editor queue

[draft-ietf-tsvwg-udp-options](#)

- Title: Transport Options for UDP
- Status: draft-ietf-tsvwg-udp-options-45 posted 2025-03-16 addressing IESG feedback
- Next steps: RFC publication, SA2 CR to 23.501, CT3 CR to 29.561, CT4 CR to 29.244

Drafts in IESG review

draft-ietf-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 2024-07-23 addressing comments
- Renamed to draft-ietf-sipcore-rfc7976bis-00, posted 2024-08-20
- draft-ietf-sipcore-rfc7976bis-03 posted 2025-07-04, attempting to address DISCUSS from Paul Wouters
- Next steps: RFC publication, CT1 CR to 24.229

Active WG documents

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

- Title: Multipath Extension for QUIC
- Status: WG document. draft-ietf-quic-multipath-15 posted 2025-07-07, addressing WGLC comments
- Next step: IESG review. RFC publication, SA2 CR to 23.501, CT1 CR to 24.193, SA3 CR to 33.501

Active WG documents

[draft-ietf-moq-transport](#)

- Title: Media over QUIC Transport
- Status: WG document, draft-ietf-moq-transport-13 posted 2025-07-07
- Next steps: WG review. IESG review, RFC publication, SA2 CR to 23.501, CT4 CRs to 29.571, 29.244

Active WG documents

[draft-ietf-masque-quic-proxy](#)

- Title: QUIC-Aware Proxying Using HTTP
- Status: draft-ietf-masque-quic-proxy-06 posted 2025-07-07
 - Appears to be going in right direction, but more review needed before WGLC
- IPR disclosure submitted 2025-03-24 by InterDigital
- Next steps: WGLC, IESG review, RFC publication, SA2 CR to 23.501, CT4 CR to 29.244

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-07 posted 2025-06-19, in WGLC and appears to be in good shape
- Next steps: IESG review, RFC publication, SA2 CR to 23.501, CT1 CR to 24.193

Active WG documents

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

- Title: More Instant Messaging Interoperability (MIMI) message content
- Status: WG document, draft-ietf-mimi-content-07 posted 2025-07-07
- Next step: WG review, IESG review, RFC publication, SA4 CR to 26.143

Individual drafts



 None

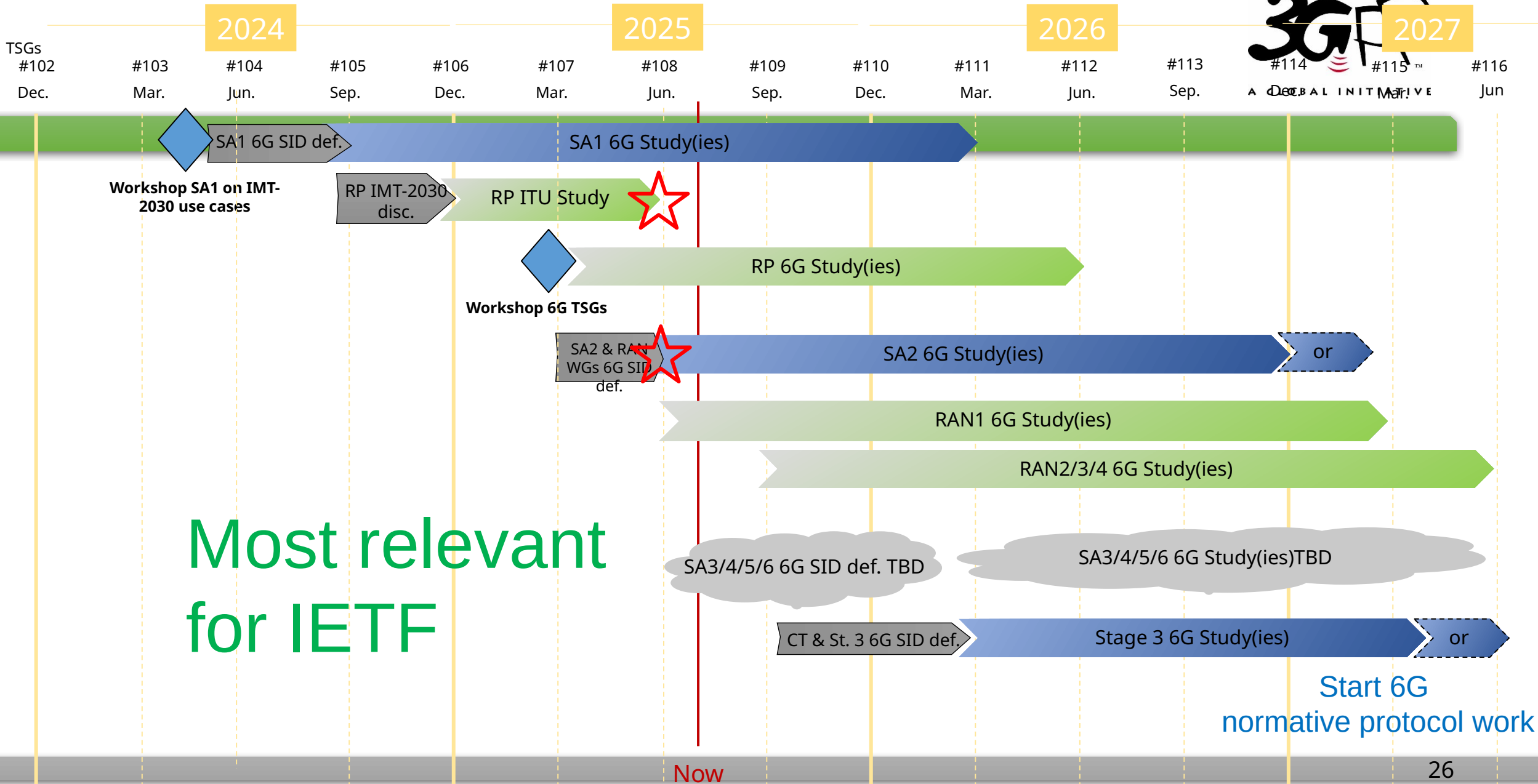
RFC 3113 Update



- 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
- Initial version posted to Datatracker on 2025-03-17
 - <https://datatracker.ietf.org/doc/draft-kes-rfc3113bis/>

6G timelines

Release 20 (FS) 6G timeline



Release 20 FS_6G progress overview



- Reminder: no normative work on 6G in Rel-20 (only studies)
- Stage 1:
 - Study on 6G Use Cases and Service Requirements (FS_6G_REQ, 1050110): TR 22.870
 - 3GPP Stage1 TR 22.870 includes some scenarios that may be of interested to IETF (none exhaustive list)
 - Security enhancement: e.g., Cryptographically Relevant Quantum Computer (CRQC)
 - Energy efficiency: Supporting end-to-end energy efficiency and energy saving
 - Artificial Intelligence: AI agents communication protocol for AI-driven 6G system requirements
 - ...
 - 66% complete, expected completion by 03/03/2026

Release 20 FS_6G progress overview



Stage 2: SA2 6G SID approved at SA#108 (“Study on Architecture for 6G System”, SP-250806, 0%)

RAN:

- RAN Plenary 6G work started Dec. 2024, now 20% (“Study on 6G Scenarios and Requirements”)

Unique_ID	Name	Acronym	WG	Start	Finish	%	WID
	Rel-20 6G Studies						
1050110	Study on 6G Use Cases and Service Requirements	FS_6G_REQ	S1	Sept 24	March 26	66%	SP-241391
1060079	Study on 6G Scenarios and Requirements	FS_6G_RAN_Scen_Req	RP	Dec 24	June 26	20%	RP-250810
1080057	Study on Architecture for 6G System	FS_6G_ARC	S2	June 25	TBD*	0%	SP-250806

+ “Study on 6G Radio” , RAN WGs, in RP-251881 (0%)

* Shown as ending June 2026 in the Work Plan because open-ended WID/SIDs are not allowed by the tool

Stage 3 and CT: will start with study item description definitions in Q4/2025

Release 21 *First 6G Release*



- Release 21 is the release for submission to IMT-2030*, aka 6G
- This implies that 3GPP (normative) work will be submitted to ITU-R before 2030
 - ASN.1/OpenAPI freeze date is no earlier than March 2029
- Release 21 freeze dates and other milestones TBD
 - Rel-21 timeline is to be decided no later than June 2026

- *Note that, as usual in 3GPP, previous Generations will be maintained in parallel & enhanced in Rel-21 and later*

Summary

- 3GPP protocol groups will start their work in Q4/25 by defining study items
- 3GPP analysis of protocol candidates are expected to be done by Q1/27
- 3GPP start of normative work (describe protocol usage) for 6G is expected to start in Q2/27
- 3GPP freeze dates for Release 21 (stage 2 and stage 3) are expected to be in 2028
- IETF drafts on protocol candidates should reach RFC completion/stable status by end of 2027 at the latest

Any Other Business

Thank You!



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