Security Area Advisory Group

CodiMD for notes: https://codimd.ietf.org/notes-ietf-109-saag

Meetecho link:
https://meetings.conf.meetecho.com/ietf109/?group=saag&short=&item=1

Benjamin Kaduk

Roman Danyliw

IETF 109

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.
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- 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.

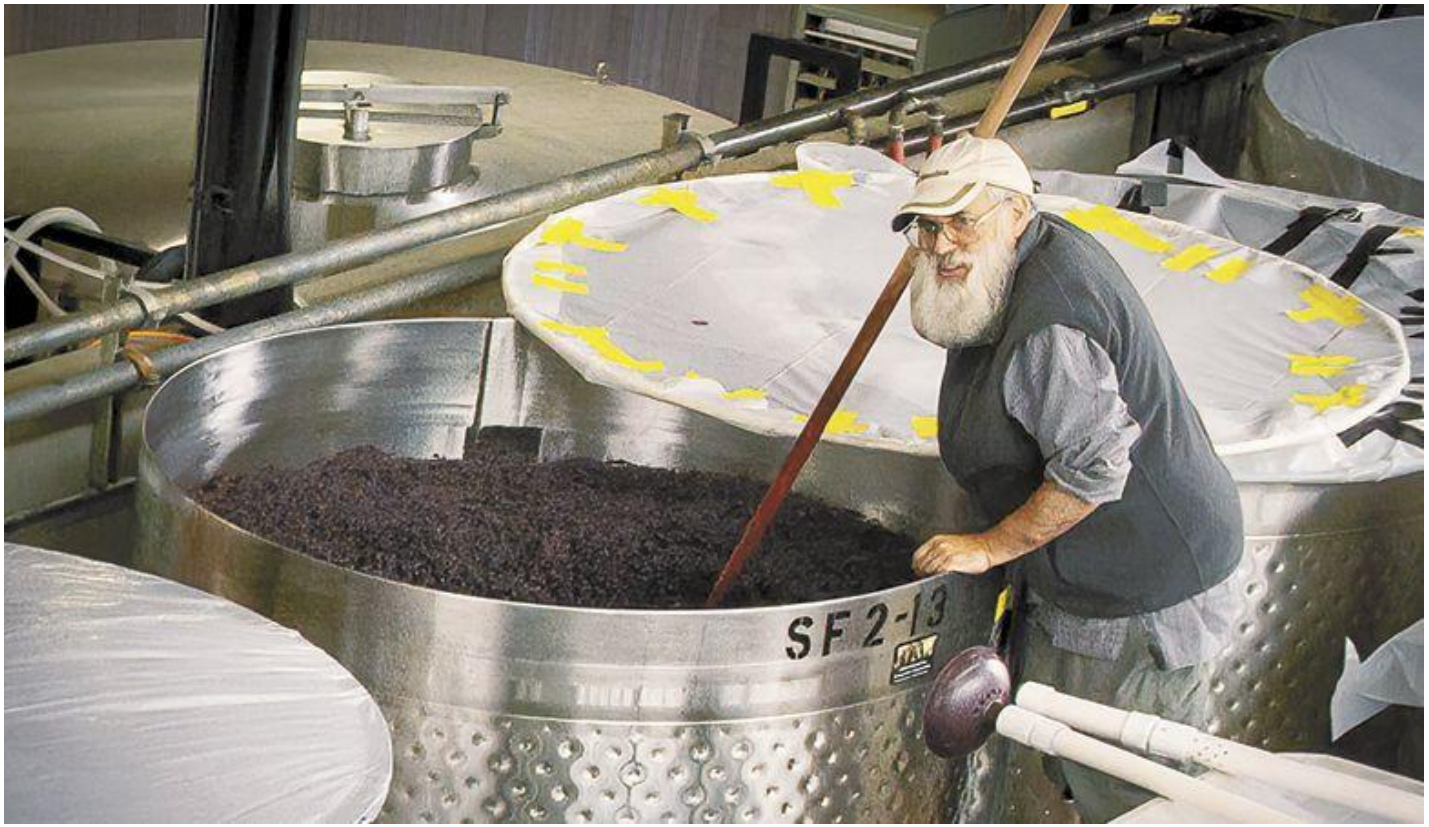
Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- 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)

Agenda

1. Welcome, Administrivia, and Agenda Bashing (5 mins)
2. WG Reports (10 mins)
3. AD Reports (5 mins)
4. Terminology: "on path" and "MITM" (10 mins)
5. Requirements for building a PKI (30 mins, Ryan Sleevi)
6. Open mic (remaining)

Remembering Jim Schaad



https://www.oregonwinepress.com/jim-schaad-1959-ndash-2020

Working Group Summaries

ACE

Chairs

- Daniel Migault
- Jim Schaad

Report

https://mailarchive.ietf.org/arch/msg/saag/wBn5Z0OE99M4P4dcMQG1S84dWgc/

ACME

Chairs

- Rich Salz
- Yoav Nir

Report

https://mailarchive.ietf.org/arch/msg/saag/o5uBwIcuBd8rdlSv4QC-kFP3QRQ/

COSE

Chairs

- Matthew Miller
- Ivaylo Petrov

Report

https://mailarchive.ietf.org/arch/msg/saag/ipXwBOGtmDgiEnrlPXDpNnh1FxU/

CURDLE

Chairs

- Daniel Migault
- Rich Salz

Report

Did not meet

https://mailarchive.ietf.org/arch/msg/saag/fordawH-SNFERzDOohuNGS2u_lc/

DOTS

Chairs

- Valery Smyslov
- Liang Xia (Frank)

Report

Did not meet

https://mailarchive.ietf.org/arch/msg/saag/2gZV-tOv0mgCpUoHAI1nBQtJ6HU/

EMU

Chairs

- Joe Salowey
- Mohit Sethi

Report

Meets tomorrow

GNAP

Chairs

- Leif Johansson
- Yaron Sheffer

Report

https://mailarchive.ietf.org/arch/msg/saag/5FnU9JqndqQ-iF--BjRkQTU3Wa4/

I2NSF

Chairs

- Linda Dunbar
- Yoav Nir

Report

Did not meet

https://mailarchive.ietf.org/arch/msg/saag/czdc7ODQftB5ao-vD8UVqk38PVw/

IPSECME

Chairs

- Tero Kivinen
- Yoav Nir

Report

https://mailarchive.ietf.org/arch/msg/saag/US1NUa02529_BdRlp3zskYb9J58/

KITTEN

Chairs

- Robbie Harwood

Report

Not meeting

https://mailarchive.ietf.org/arch/msg/saag/5QDGzIlEdA4VPUEWtusTu3hQEmE/

LAKE

Chairs

- Stephen Farrell
- Mališa Vučinić

Report

https://mailarchive.ietf.org/arch/msg/saag/UVeGQpLNnzRs7X4bRAbjb_brXxQ/

LAMPS

Chairs

- Russ Housley
- Tim Hollebeek

Report

https://mailarchive.ietf.org/arch/msg/saag/HUFFlM68OO9j558dRBwqR1OyFOc/

MILE

Chairs

- Nancy Cam-Winget
- Takeshi Takahashi

Report

Did not meet

MLS

Chairs

- Nick Sullivan
- Sean Turner

Report

Meets later today

OAUTH

Chairs

- Hannes Tschofenig
- Rifaat Shekh-Yusef

Report

Did not meet

PrivacyPass

Chairs

- Benjamin Schwartz
- Joseph Salowey

Report

Did not meet

RATS

Chairs

- Nancy Cam-Winget
- Ned Smith
- Kathleen Moriarty

Report

https://mailarchive.ietf.org/arch/msg/saag/LaBfnRQj9kSxijrZvRj1Cc27rDI/

SACM

Chairs

- Chris Inacio
- Karen O’Donoghue

Report

https://mailarchive.ietf.org/arch/msg/saag/NQHqnarwozXYOs_4hHr8dcRBXlI/

SecDispatch

Chairs

- Richard Barnes
- Francesca Palombini
- Kathleen Moriarty

Report

xxx

SecEvent

Chairs

- Dick Hardt
- Yaron Sheffer

Report

Did not meet

SUIT

Chairs

- Russ Housley
- Dave Thaler
- David Waltermire

Report

Meets tomorrow

TEEP

Chairs

- Nancy Cam-Winget
- Tirumaleswar Reddy

Report

https://mailarchive.ietf.org/arch/msg/saag/ChVmM48WLCqZWesHgHLYysW27sc/

TLS

Chairs

- Joe Salowey
- Sean Turner
- Chris Wood

Report

https://mailarchive.ietf.org/arch/msg/saag/wNyzlu73FBS5i5RM0kz6yeIZW0U/

TOKBIND

Chairs

- John Bradley
- Leif Johansson

Report

Did not meet

TRANS

Chairs

- Melinda Shore
- Paul Wouters

Report

Did not meet

https://mailarchive.ietf.org/arch/msg/saag/bdfLMSur5sNPU36fID3bYqE-YgQ/

Related Non-SEC Area Activities

Security Topics in Related WGs

- ADD
- ANIMA
- DIME
- DISPATCH
- DMARC
- DPRIVE
- DRIP
- HIP
- HTTPBIS
- QUIC
- NETCONF
- NTP
- OPSEC
- PERC
- RADext
- SFRAME
- SIDROPS
- STIR
- UTA
- TAPS

BoFs

- MADINAS

Security Related IRTF

- CFRG
- PEARG

IAB Programs

- model-t

External related

- W3C
- IEEE
- ITU

Other SEC Area Highlights

AD Sponsored Drafts

- draft-foudil-securitytxt
- draft-gont-numeric-ids-sec-considerations

New Work

- Re-open OPENPGP

Looking for WG Chairs for ACE

SEC Area Highlights (2)

Vulnerability Disclosure Guidance

- For IETF LLC

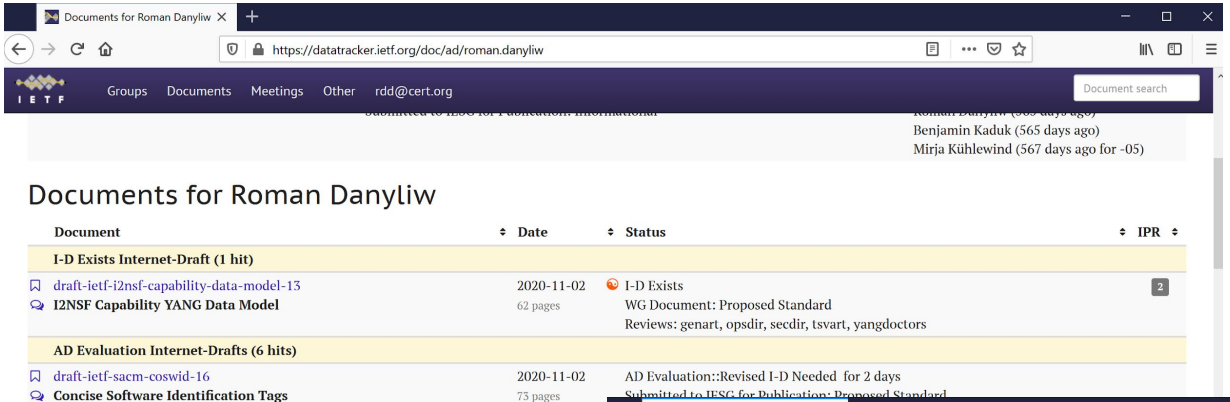
  https://www.ietf.org/about/administration/policies-procedures/vulnerability-disclosure
- For IETF

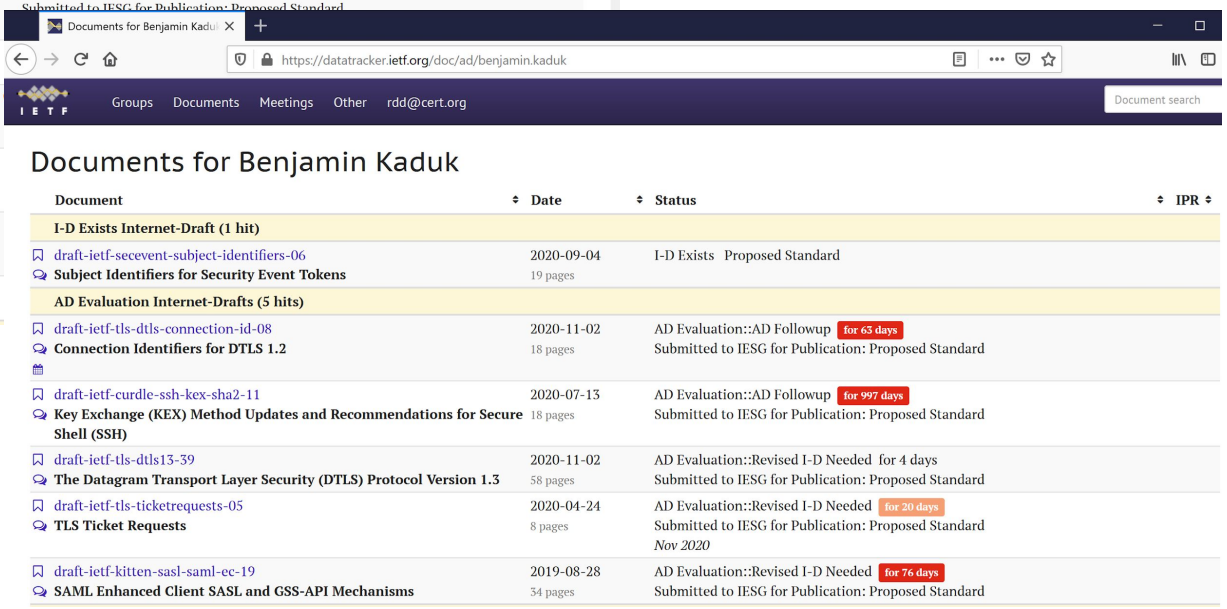
  https://github.com/ietf/vul-reporting-guidance/blob/main/vul-reporting-guidance.md

Common SEC AD DISCUSS items

- https://trac.ietf.org/trac/sec/wiki/TypicalSECAreaIssues

SEC Document Pipeline





Thanks to the SECDIR Reviewers since IETF 108

- Derek Atkins
- Nancy Cam-Winget
- Linda Dunbar
- Donald Eastlake
- Shawn Emery
- Stephen Farrell
- Phillip Hallam-Baker
- Russ Housley
- Christian Huitema
- Charlie Kaufman
- Watson Ladd
- Chris Lonvick
- David Mandelberg
- Daniel Migault
- Yoav Nir
- Hilarie Orman
- Derrell Piper
- Radia Perlman
- Derrell Piper
- Tirumaleswar Reddy
- Vincent Roca
- Kyle Rose
- Stefan Santesson
- Joseph Salowey
- Rich Salz
- Yaron Sheffer
- Rifaat Shekh-Yusef
- Valery Smyslov
- Robert Sparks
- Takeshi Takahashi
- Sean Turner
- Mališa Vučinić
- Carl Wallace
- Samuel Weiler
- Brian Weis
- Klaas Wierenga
- Christopher Wood
- Liang Xia

Terminology: "on path" and "MITM"

Previous list discussion

- Thread started at https://mailarchive.ietf.org/arch/msg/saag/FR9WP9Y-73QZVX6Org-ciNDwM0w/
- Michael did some summarizing at https://mailarchive.ietf.org/arch/msg/saag/m1r9uo4xYznOcf85Eyk0Rhut598/

Observations from the list

- Existing terminology is ambiguous/imprecise!
- “MITM” predates well-understood analysis of attacker capabilities and characterization of attacks
- Even “on path” can mean different things at different times
- “on path” and “MITM” presume a path; some attacks can change the path, too
- We aim to protect against Dolev-Yao attackers when possible, but other attackers exist and we need terms to talk about them and distinguish classes of attacks

Taxonomy from QUIC

- on-path
- limited on path (cannot delete)
- off-path

Taxonomy from Huitema

- M in the middle
- M on the side
- M in the rough

Taxonomy from DeKok

- malicious messenger
- oppressive observer
- chaos creator

Questions

- Are any of these terms fully unambiguous?
- Is the three-tiered taxonomy useful?

Future work?

Is a strict hierarchical taxonomy valid/useful (vs. distinct capabilities)? Do we want to cover capabilities, attacks, or both? Some candidates:

- read legitimate traffic
- send spoofed traffic
- send spoofed traffic that arrives before legitimate traffic
- suppress legitimate traffic
- [alter legitimate traffic is a combination of the above]
- how much of the network is attackable (from single node to “all”)
- change the path taken by legitimate traffic
- physical/network/transport/application/etc.-layer access
- [please join the mic queue]

Requirements for building a PKI

Open Mic