

Security Area Advisory Group

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IETF 108

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.

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- 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. DOTS Overview (10 mins)
4. PKI vs. Pinning Applicability (10 mins)
5. BCP 72 updates (15 mins)
6. Open mic (remaining)

Working Group Summaries

ACE

Chairs

- Daniel Migault
- Jim Schaad

Report

XXXX

ACME

Chairs

- Rich Salz
- Yoav Nir

Report

xxx

COSE

Chairs

- Matthew Miller
- Ivaylo Petrov

Report

xxx

CURDLE

Chairs

- Daniel Migault
- Rich Salz

Report

Did not meet

DOTS

Chairs

- Valery Smyslov
- Liang Xia (Frank)

Report

Did not meet

EMU

Chairs

- Joe Salowey
- Mohit Sethi

Report

https://mailarchive.ietf.org/arch/msg/saag/f2pTF09c_BKSPCxbwCLGixl8O9_s/

GNAP

Chairs

- Leif Johansson
- Yaron Sheffer

Report

<https://mailarchive.ietf.org/arch/msg/saag/iBK8ddKPUcNJsveOvpW7r2W5aZM/>

I2NSF

Chairs

- Linda Dunbar
- Yoav Nir

Report

Did not meet

IPSECME

Chairs

- Tero Kivinen
- Yoav Nir

Report

<https://mailarchive.ietf.org/arch/msg/saag/BbmzIKJyB02SYQK7jClhOZrkGxY/>

KITTEN

Chairs

- Robbie Harwood

Report

Not meeting

LAKE

Chairs

- Stephen Farrell
- Mališa Vučinić

Report

<https://mailarchive.ietf.org/arch/msg/saag/Ljb-rnPG6d-nXlpqRr6RC6ipbMI/>

LAMPS

Chairs

- Russ Housley
- Tim Hollebeek

Report

<https://mailarchive.ietf.org/arch/msg/saag/6a5jyyj2pABXZk4HfhP-3kyTPzE/>

MILE

Chairs

- Nancy Cam-Winget
- Takeshi Takahashi

Report

Did not meet

MLS

Chairs

- Nick Sullivan
- Sean Turner

Report

XXXX

OAUTH

Chairs

- Hannes Tschofenig
- Rifaat Shekh-Yusef

Report

Did not meet

PrivacyPass

Chairs

- Benjamin Schwartz
- Joseph Salowey

Report

XXXX

RATS

Chairs

- Nancy Cam-Winget
- Ned Smith
- Kathleen Moriarty

Report

https://mailarchive.ietf.org/arch/msg/saag/ib9dfxWZIMlkoNDzkd-gs8Ck4_8/

SACM

Chairs

- Chris Inacio
- Karen O'Donoghue

Report

XXXX

SecDispatch

Chairs

- Richard Barnes
- Francesca Palombini
- Kathleen Moriarty

Report

[met last session]

SecEvent

Chairs

- Dick Hardt
- Yaron Sheffer

Report

Did not meet

SUIT

Chairs

- Russ Housley
- Dave Thaler
- David Waltermire

Report

XXXX

TEEP

Chairs

- Nancy Cam-Winget
- Tirumaleswar Reddy

Report

<https://mailarchive.ietf.org/arch/msg/saag/ld0fVTvbDh4UZ9tUtCRy0ZglvHk/>

TLS

Chairs

- Joe Salowey
- Sean Turner
- Chris Wood

Report

XXXX

TOKBIND

Chairs

- John Bradley
- Leif Johansson

Report

Did not meet

TRANS

Chairs

- Melinda Shore
- Paul Wouters

Report

Did not meet

Related Non-SEC Area Activities

Security Topics in Related WGs

- ANIMA
- DIME
- DISPATCH
- DMARC
- DOH
- DPRIVE
- HIP
- HTTPBIS
- QUIC
- NETCONF
- NTP
- OPSEC
- PERC
- RADext
- SIDROPS
- STIR
- TCPINC
- UTA
- TAPS

Other BoFs

- ASDF
- EMAILCORE
- LOOPS

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

Common SEC AD DISCUSS items

- <https://trac.ietf.org/trac/sec/wiki/TypicalSECArealIssues>

DOTS Overview

Tirumaleswar Reddy

PKI vs. Pinning

Domains of Applicability

Why now?

NFSv4 is working on RPC-over-TLS.

<https://mailarchive.ietf.org/arch/msg/nfsv4/SLTNqWbjE-H8JshLk0HwlwxArrI/> asserted “TLS Fingerprint Pinning Needed”.

Is that actually true? When might it be true?

Why PKI?

- Handful of TAs allows scalable secure communication to many EEs
- Pick which CAs to trust ... or let Mozilla do it for you
- Some classes of key rotation are easier
- Allows for enterprise CA
- But, leaves someone protecting high-value secrets

Why pinning?

- No need to trust a third-party CA
- Cut out enterprise CA
- Avoid pull-based revocation
- Don't need much infrastructure
- But, scaling not so great
- And you may not always get any revocation

Questions

- Are some types of protocols naturally suited for pinning vs. PKI?
- (Which ones?)
- When pinning, what to pin?
- (Can you always make a pin look like a single-root shallow PKI?)
- Should we ~~require~~ encourage all protocols to support both?

BCP 72 Updates

(BCP 72 is currently just RFC 3552, *Guidelines for Writing RFC Text on Security Considerations*, which notably includes an Internet Threat Model.)

Work currently underway that might update it:

- draft-gont-numeric-ids-sec-considerations is in AD Evaluation, as mentioned earlier
- IAB model-t program underway

Numeric Identifiers

AD Evaluation thread at

<https://mailarchive.ietf.org/arch/msg/saag/8CRgca7lp9evFjNF0xVHzmghvi4/>

- How much coverage of example attacks vs. just the overarching principles?
- Specifically require analysis (when applicable) vs. mentioning it as a relevant topic?

Model-T

Open Mic