Secure Patterns for Internet Credentials (SPICE)

IETF 125

Note Well

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- The IETF routinely makes public written, audio, video, and photographic records of IETF activities, including your personal information as set out in the *IETF Privacy Statement*.

For advice, please talk to Working Group chairs or Area Directors.

IETF

IETF Meeting Tips

In-person participants

- Make sure to sign into the session via Datatracker or the QR Code in this session.
- Use Meetecho (usually the “Meetecho lite”) client to:
  - join the mic queue
  - participate in shows of hands
- Keep audio and video off if not using the onsite version.

Remote participants

- Make sure your audio and video are off unless you are chairing or presenting during a session.
- Use of a headset is strongly recommended.

Meeting adminstrivia

Scribe(s), please!

Agenda

Welcome & What is SPICE - 5 min (chairs)

Document Discussion

- "SPICE SD-CWT" draft-ietf-spice-sd-cwt (Rohan Mahy/Henk Birkholz) - 10 min
- Call for adoption: "A reference architecture for direct presentation credential flows' draft-johansson-direct-presentation-arch (Brent Zundel) - 10 min
- Call for adoption: "Traceability Claims" draft-prorock-spice-cwt-traceability-claims (Mike Jones) - 5 min

New Work

- "A Public Key Service Provider for Verification in Multiple Issuers and Verifiers" https://datatracker.ietf.org/doc/draft-wang-spice-public-key-service-provider - Yuning Jiang - 10 min
- "Cryptographically Verifiable Actor Chain for OAuth 2.0 Token Exchange," https://datatracker.ietf.org/doc/draft-mw-spice-actor-chain/ - Prasad - 10 min

AOB

What is SPICE

Charter

- analyze existing and emerging IETF technologies and address any remaining gaps to facilitate their application in **digital credentials and presentations**
- develop **digital credential profiles** that support various use cases

Also under discussion:

“The working group will work to define a limited number of widely-applicable claims for credentials that extend beyond the set defined in core specifications, including any encoding necessary to represent those claims in a JWT or CWT.”

Security & Privacy

- Implementation guidance around Privacy by Design, confidentiality, and consent
- Privacy and security considerations re:
  - confidential computing
  - remote attestation
  - trusted execution environments (TEE)
  - hardware security modules (HSM) on digital credentials
  - redaction, linkability, and selective disclosure

Coordination

- RATS (Remote ATtestation ProcedureS)
- OAuth (Web Authorization Protocol)
- JOSE (Javascript Object Signing and Encryption)
- COSE (CBOR Object Signing and Encryption)
- SCITT (Supply Chain Integrity, Transparency, and Trust)
- WIMSE (Workload Identity in Multi System Environments)

Out of Scope

- General Key discovery
- New cryptographic primitives

Working Group Resources

Mailing list: spice@ietf.org

GitHub: https://github.com/ietf-wg-spice

Website: https://ietf-wg-spice.github.io/