# Authentication and Authorization for Constrained Environments (ACE)

Monday July 16, 2018 IETF 102, Montreal

Jim Schaad and Roman Danyliw

### 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.

If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.

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 (<a href="https://www.ietf.org/contact/ombudsteam/">https://www.ietf.org/contact/ombudsteam/</a>) 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)
- <u>BCP 25</u> (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- <u>BCP 79</u> (Patents, Participation)
- https://www.ietf.org/privacy-policy/ (Privacy Policy)

# Agenda

Administrative and WG Summary (Chairs, 10 min)

**PoP Key Semantics for CWTs** (draft-ietf-ace-cwt-proof-of-possession) (Mike Jones, 15 min) **EST over secure CoAP** (draft-ietf-ace-coap-est) (Peter van der Stok, 10 min)

**Core Framework and Profiles** (10 min)

- -- draft-ietf-ace-oauth-authz (Ludwig Seitz)
- -- draft-ietf-ace-dtls-authorize (Ludwig Seitz)
- -- draft-ietf-ace-oscore-profile (Ludwig Seitz)

#### **Group Communications**

- -- draft-palombini-ace-key-groupcomm (Francesca Palombini, 10min)
- -- draft-palombini-ace-coap-pubsub-profile (Francesca Palombini, 10min)
- -- draft-tiloca-ace-oscoap-joining (Marco Tiloca/remote, 10min)

Resource Directory Authorization Issues (Peter van der Stok/Carsten Bormann, 30min)

#### **EDHOC** (as time permits)

-- draft-selander-ace-cose-ecdhe-09

**Closing and Summary** (Chairs)

## Status Update

- IETF 102 Hackathon Activity
- WGLC on draft-ietf-ace-cwt-proof-of-possession-02
- Early registration of CoAP Media types for draft-ietf-ace-coap-est
- InterOp event (May 30)
- Published RFC 8392 (CBOR Web Token)

User



#### Milestones

Date	<b>\$</b>	Milestone
Nov 2018		Submit ACE profile for OSCORE to the IESG for publication as a Proposed Standard draft-ietf-ace-oscore-profile
Nov 2018		Submit DTLS Profile for ACE to the IESG for publication as a proposed standard draft-ietf-ace-dtls-authorize
Nov 2018		Submit "Authentication and Authorization Solution" specification to the IESG for publication as a Proposed Standard. draft-ietf-ace-oauth-authz
Sep 2018		WGLC on OSCORE Profile for ACE draft-ietf-ace-oscore-profile
Sep 2018		WGLC for DTLS Profile for ACE draft-ietf-ace-dtls-authorize
Jul 2018		WGLC for OAuth Authentication and Authorization Solution draft draft-ietf-ace-oauth-authz
Jul 2018		Submit CWT Proof of Possession to IESG for publication as proposed standard draft-ietf-ace-cwt-proof-of-possession
Mar 2018		WGLC on CWT Proof of possession draft-ietf-ace-cwt-proof-of-possession

# Agenda

Administrative and WG Summary (Chairs, 10 min)

PoP Key Semantics for CWTs (draft-ietf-ace-cwt-proof-of-possession) (Mike Jones, 15 min)

EST over secure CoAP (draft-ietf-ace-coap-est) (Peter van der Stok, 10 min)

**Core Framework and Profiles** (10 min)

- -- draft-ietf-ace-oauth-authz (Ludwig Seitz)
- -- draft-ietf-ace-dtls-authorize (Ludwig Seitz)
- -- draft-ietf-ace-oscore-profile (Ludwig Seitz)

#### **Group Communications**

- -- draft-palombini-ace-key-groupcomm (Francesca Palombini, 10min)
- -- draft-palombini-ace-coap-pubsub-profile (Francesca Palombini, 10min)
- -- draft-tiloca-ace-oscoap-joining (Marco Tiloca/remote, 10min)

Resource Directory Authorization Issues (Peter van der Stok/Carsten Bormann, 30min)

#### **EDHOC** (as time permits)

-- draft-selander-ace-cose-ecdhe-09

**Closing and Summary** (Chairs)

# Resource Directory Authorization Discussion

Resource directory authorization is a general problem from ACE

After the presentation we will ask "Is this a problem the WG should be examining"

# Resource Directory Authentication Summary

- What is the problem?
  - Protecting end-points? Vs. Something more general purpose (what is that?)?
  - No human in the loop
  - Integrity vs. privacy
- What is the solution?
  - A way? Vs. The way?
  - Consider group communication
  - Keep it simple

## Wrap Up

- draft-ietf-ace-cwt-proof-of-possession
  - Authors respond to outstanding issues posted by Document Shepherd on ML (07/12/2018)
- draft-ietf-ace-oauth-authz
  - Publish revised draft to address feedback; WGLC in September 2018
- Group Communication Individual Drafts
  - Deferring WG adoption discussion until framework documents progress
- Resource Directory Authorization Discussion
  - More discussion required on problem and solution