Authentication and Authorization for Constrained Environments (ACE)

Monday July 16, 2018
IETF 102, Montreal

Jim Schaad and Roman Danyliw
Note Well

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• 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

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)
# Milestones

<table>
<thead>
<tr>
<th>Date</th>
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<tr>
<td>Nov 2018</td>
<td>Submit ACE profile for OSCORE to the IESG for publication as a Proposed Standard draft-ietf-ace-oscore-profile</td>
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<td>Submit DTLS Profile for ACE to the IESG for publication as a proposed standard draft-ietf-ace-dtls-authorize</td>
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<td>Submit &quot;Authentication and Authorization Solution&quot; specification to the IESG for publication as a Proposed Standard draft-ietf-ace-oauth-authz</td>
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<td>WGLC for OAuth Authentication and Authorization Solution draft</td>
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<td>Jul 2018</td>
<td>Submit CWT Proof of Possession to IESG for publication as proposed standard draft-ietf-ace-cwt-proof-of-possession</td>
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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