Workshop
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minutes: https://etherpad.ietf.org/p/notes-ietf-workshop-161019
Multicast for notifications

• Client sends a request to the server to indicate it intends to observe a certain resource (3)

• The server responds (4) with all the information to remember an observation request it never sent to match notifications to:
  • Request (1) (including Token)
  • Multicast IP address
  • Group OSCORE external AAD

• The server uses these to send multicast notifications (7)
Details to define

• What request (3)? Observe to the resource to observe, GET separate resource (well-known)

• Format of information received in (4) (and what information exactly)?

• Is server configured before or can decide to start sending notifications on multicast?

• Pre-configuration of OSCORE groups
Pub/sub with multicast notifications
Group OSCORE resource discovery
Example

Request: Joining node -> RD
Req: GET coap://rd.example.com/rd-lookup/res
    ?rt=core.osc.mbr&app-gp=group1

Response: RD -> Joining node
Res: 2.05 Content
Payload:
  <coap://[2001:db8::ab]/group-oscore/feedca570000>;rt="core.osc.mbr";
  sec-gp="feedca570000";app-gp="group1";
  cs_alg="-8";cs_crv="6";cs_kty="1";
  cs_kenc="1";anchor="coap://[2001:db8::ab]"
Request: Joining node -> RD

Req: GET coap://rd.example.com/rd-lookup/ep
?et=core.rd-group&ep=group1

Response: RD -> Joining node

Res: 2.05 Content
Payload:
</rd/501>;ep="group1";et="core.rd-group";
base="coap://[ff35:30:2001:db8::23]"
Open points

• Parameters as link target attributes
  – Mandatory: sec-gp and app-gp
  – Optional: cs_alg, cs_crv, cs_kty, cs_enc, alg, hkdf
  – Ideally, we should register them and where they take value from

• There is no register for link target attributes. Should we have a new registry?

• Migrate to ACE? Jim: “Mostly focused on advertising ACE features”

• How would this work in a CoRAL-based RD?