

IETF 123

# Constrained RESTful Environments WG (core)

## Chairs:

Marco Tiloca <[marco.tiloca@ri.se](mailto:marco.tiloca@ri.se)>

Jaime Jiménez <[jaime.jimenez@ericsson.com](mailto:jaime.jimenez@ericsson.com)>

Carsten Bormann <[cabo@tzi.org](mailto:cabo@tzi.org)>

Mailing list: [core@ietf.org](mailto:core@ietf.org)

Zulip: <https://zulip.ietf.org/#narrow/stream/core>



- We assume people have read the drafts
- Meetings serve to advance difficult issues by making good use of face-to-face communications
- Note Well: Be aware of the IPR principles, according to RFC 8179 and its updates
  - Blue sheets – Automatic
  - Chat Scribe(s)
  - Note Taker(s)

# 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 (<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:

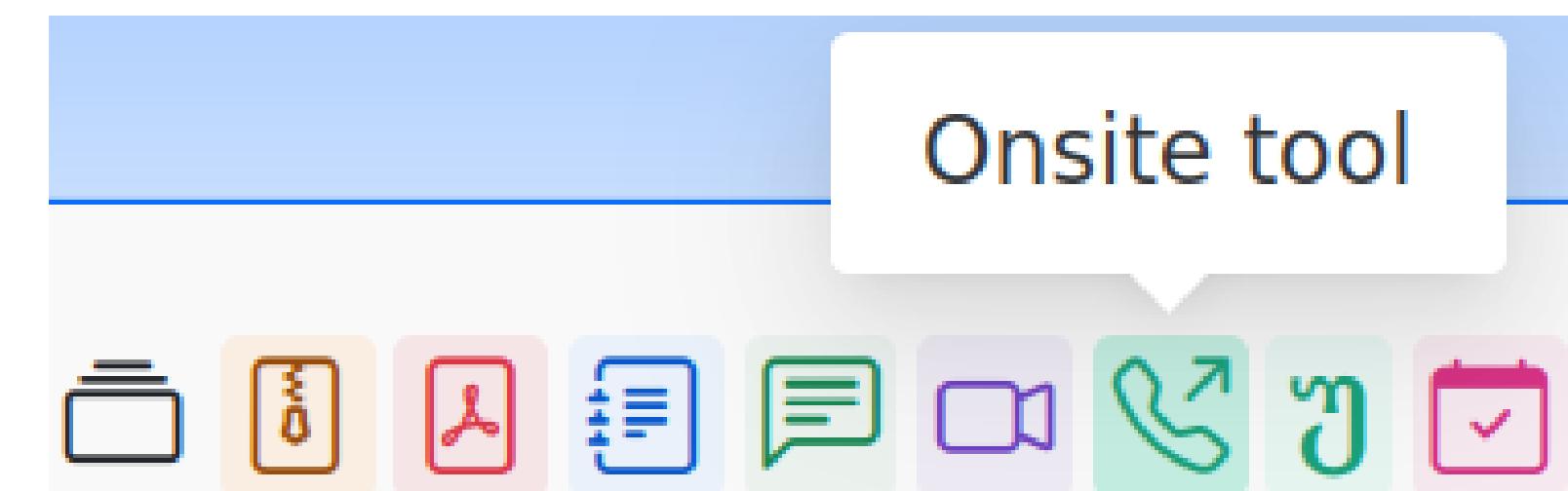
- [BCP 9](#) (Internet Standards Process)
- [BCP 25](#) (Working Group processes)
- [BCP 25](#) (Anti-Harassment Procedures)
- [BCP 54](#) (Code of Conduct)
- [BCP 78](#) (Copyright)
- [BCP 79](#) (Patents, Participation)
- <https://www.ietf.org/privacy-policy/> (Privacy Policy)

# Practicalities

- This meeting is being recorded
- 

- In-person participants

- Make sure to sign into the session using Meetecho
    - “Onsite tool” client available from the Datatracker agenda
  - If not using the onsite version, keep audio and video off
  - **Joining the mic queue: FIRST join the queue in Meetecho, THEN go to the mic**
- 



- Remote participants

- Make sure your audio and video are off unless you are presenting
  - Use of a headset is strongly recommended
- 

- Use of queuing via the chat

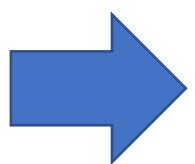
- **mic:** to ask for relaying a question

# Area Director: hand-off of the baton

- Lisa Dusseault  
(chartered us)
- Peter Saint-Andre  
(from 2010)
- Barry Leiba  
(from 2012)
- Alexey Melnikov  
(from 2016)
- Barry Leiba  
(from 2020)
- Francesca Palombini  
(from 2021)
- Mike Bishop  
(from 2025)



# Agenda (120 min)



- 12:30–12:43 [Chairs] Intro, Agenda, Status
- 12:43–12:50 [CB] Corrections and Clarifications for CoAP
- 12:50–13:00 [CB] Constrained Resource Identifiers
- 13:00–13:15 [CA] CoAP Transport Indication
- 13:15–13:25 [ML] Discovery of Network-designated OSCORE-based Resolvers
- 13:25–13:40 [RH] Key Update and ID Update for OSCORE
- 13:40–13:50 [MT] Observe Multicast Notifications
- 13:50–14:00 [CA] Cacheable OSCORE
- 14:00–14:10 [CG] CoAP over Bundle Protocol
- 14:10–14:20 [MT] Encrypted Partial IV in the CoAP OSCORE Option
- 14:20–14:30 [TE] Use/extend CoAP for GRASP in ANIMA

# Document status

# Approved for publication

- draft-ietf-core-cf-reg-update (Proposed Standard)
  - “Update to the IANA CoAP Content-Formats Registration Procedures”
  - RFC Ed Queue : EDIT
  - Shepherd: Marco Tiloca

# Approved for publication

- draft-ietf-ace-wg-coap-eap (Proposed Standard)
  - “EAP-based Authentication Service for CoAP”
  - RFC Ed Queue : RFC-EDITOR

# In IESG Evaluation

- **draft-ietf-core-dns-over-coap (Proposed Standard)**
  - “DNS over CoAP (DoC)”
  - On agenda of 2025-08-07 IESG telechat
  - Shepherd: Marco Tiloca
- **draft-ietf-core-coap-dtls-alpn (Informational)**
  - “ALPN ID Specification for CoAP over DTLS”
  - On agenda of 2025-08-07 IESG telechat
  - Shepherd: Marco Tiloca

# In IETF Last Call

- **draft-ietf-core-groupcomm-bis (Proposed Standard)**
  - “Group Communication for the Constrained Application Protocol (CoAP)”
  - Shepherd: Carsten Bormann
- **draft-ietf-core-oscore-groupcomm (Proposed Standard)**
  - “Group Object Security for Constrained RESTful Environments (Group OSCORE)”
  - Shepherd: Christian Amsüss
- **draft-ietf-core-href (Proposed Standard) \***
  - “Constrained Resource Identifiers”
  - Shepherd: Thomas Fossati

\* On today's agenda

# Publication Requested

- **draft-ietf-ace-key-groupcomm-oscore (Proposed Standard)**
  - “Key Management for OSCORE Groups in ACE”
  - AD Evaluation::Revised I-D Needed
- **draft-ietf-ace-oscore-gm-admin (Proposed Standard)**
  - “Admin Interface for the OSCORE Group Manager”
  - Publication Requested

# Post-WGLC Processing

- **draft-ietf-core-conditional-attributes-11**
  - Completed WG Last Call; Waiting for WG Chair Go-Ahead
  - Need to address remaining Github issues
  - Need to defined handling of not supported query parameters (related to draft-ietf-core-corr-clar)
  - Shepherd: Jaime Jiménez
- **draft-ietf-core-coap-pubsub-18**
  - Completed WG Last Call; Waiting for WG Chair Go-Ahead
  - Need to address comments from the WG Last Call
  - Shepherd: Esko Dijk

# Other Documents (1/2)

- Recently updated WG documents not in today's agenda
  - draft-ietf-core-comi-20
  - draft-ietf-core-oscore-key-limits-05
  - draft-ietf-core-attacks-on-coap-06
- Recently adopted WG documents
  - draft-ietf-core-yang-sid-pen-00
    - "YANG-CBOR: Allocating SID ranges for PEN holders"

# Other Documents (2/2)

- WG adoption pending
  - draft-amsuess-core-cachable-oscore-11 \*
- Recently updated individual documents
  - draft-lenders-core-dnr-06 \*
  - draft-gomez-core-coap-bp-04 \*
  - draft-gomez-core-coap-space-03
- Recently newly submitted individual
  - draft-tiloca-core-oscore-piv-enc-00 \*

\* On today's agenda

# Other Documents

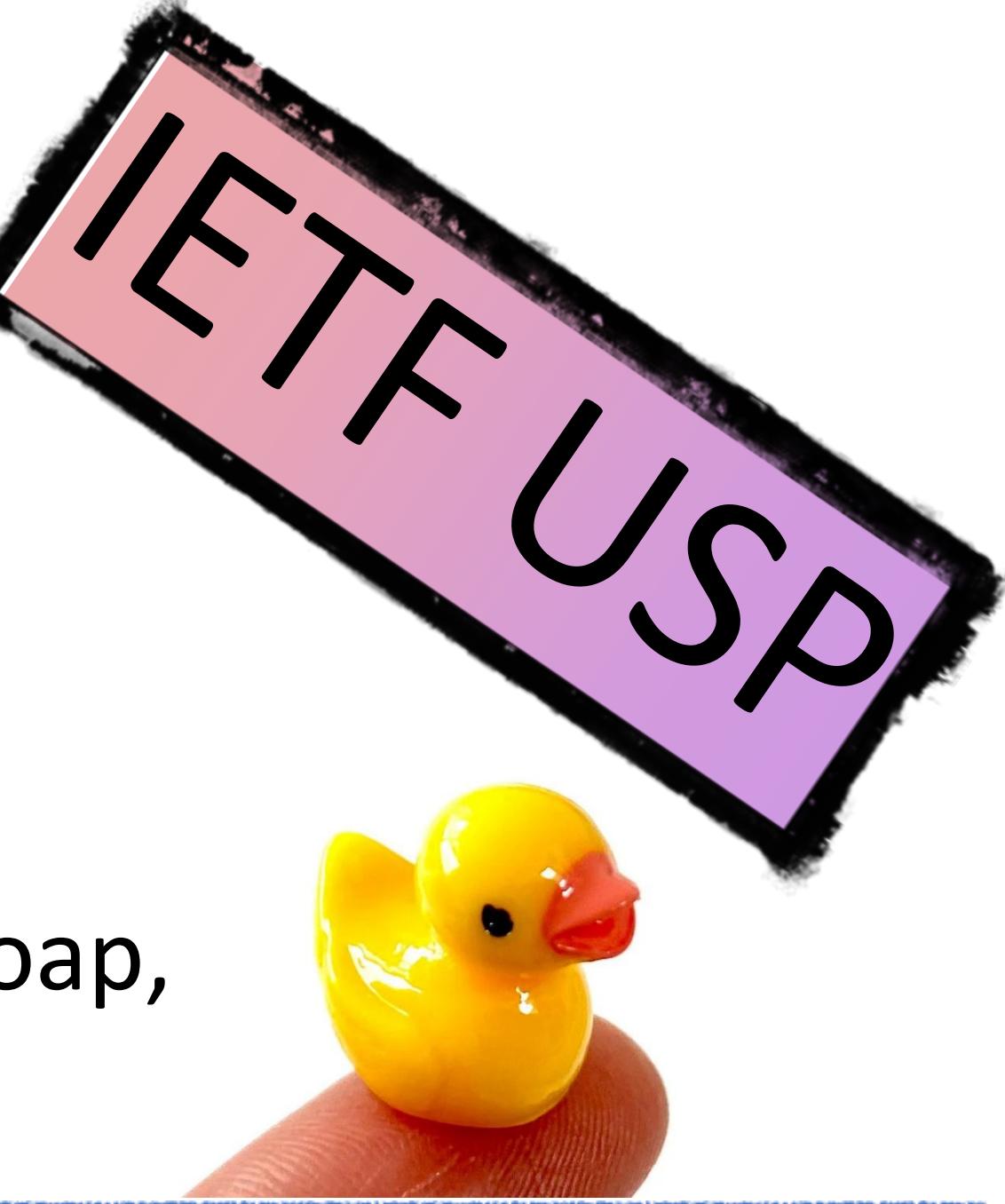
- Recently updated WG documents
  - draft-ietf-ace-edhoc-oscore-profile-08
  - draft-ietf-ace-coap-est-oscore-08
  - draft-ietf-ace-oscore-gm-admin-coral-04
  - draft-ietf-ace-coap-pubsub-profile-00 (now focused only on draft-ietf-core-coap-pubsub)
  - draft-ietf-schc-8824-update-05
- Recently adopted WG documents
  - draft-ietf-anima-constrained-grasp-00 \*
    - “Constrained GeneRic Autonomic Signaling Protocol”
  - draft-ietf-schc-universal-option-00
    - “Options representation in SCHC YANG Data Models”
- Recently newly submitted individual
  - draft-tiloca-t2trg-sw-update-groupcomm-00
    - “Distribution of Software Updates with End-to-End Secure Group Communication and Block-Wise Transfer for CoAP”
    - Early idea presented at the T2TRG interim meeting in May 2024

\* On today's agenda

# Report from the Hackathon

- DNS over CoAP – draft-ietf-core-dns-over-coap
  - Work on Unbound implementation
    - Make OSCORE credentials non-constant and configurable
    - Make CoAP resource path non-constant and configurable
  - Shipping aiodnsprox for Fedora
    - Publish to PyPI; Various bug fixes
  - <https://datatracker.ietf.org/meeting/123/materials/slides-123-hackathon-sessd-dns-over-coap-deployment-00>
- AI Agent operating IoT devices over CoAP

# Reviews! (IETF 122–123)



- “Process” Reviews: Shepherd, AD, IESG, Directorate (Telechat)
  - draft-ietf-core-href, draft-ietf-core-dtls-alpn, draft-ietf-core-dns-over-coap, draft-ietf-core-groupcomm-bis, draft-ietf-core-oscore-groupcomm
- Spontaneous “WG Member” reviews
  - Christian Amsüss:
    - draft-ietf-core-conditional-attributes
    - draft-ietf-core-oscore-capable-proxies
- Github feedback (specific issues, broader review)
- Your review here

# Next CoRE Interim Meetings

- W35 Wednesday 2025-08-27, 14:00-15:30 UTC / 16:00-17:30 CEST
- W37 Wednesday 2025-09-10, 14:00-15:30 UTC / 16:00-17:30 CEST
- W39 Wednesday 2025-09-24, 14:00-15:30 UTC / 16:00-17:30 CEST
- W41 Wednesday 2025-10-08, 14:00-15:30 UTC / 16:00-17:30 CEST

# CoAP presentation @ OPSAREA

- “Leverage CoAP for Network Management” (Esko Dijk)
- Thursday, 2025-07-24 at 12:30-14:30 UTC
- <https://datatracker.ietf.org/meeting/123/materials/agenda-123-opsarea>

# Agenda (120 min)

- 12:30–12:43 [Chairs] Intro, Agenda, Status
- 12:43–12:50 [CB] Corrections and Clarifications for CoAP
- 12:50–13:00 [CB] Constrained Resource Identifiers
- 13:00–13:15 [CA] CoAP Transport Indication
- 13:15–13:25 [ML] Discovery of Network-designated OSCORE-based Resolvers
- 13:25–13:40 [RH] Key Update and ID Update for OSCORE
- 13:40–13:50 [MT] Observe Multicast Notifications
- 13:50–14:00 [CA] Cacheable OSCORE
- 14:00–14:10 [CG] CoAP over Bundle Protocol
- 14:10–14:20 [MT] Encrypted Partial IV in the CoAP OSCORE Option
- 14:20–14:30 [TE] Use/extend CoAP for GRASP in ANIMA

# Flextime

**Thank you!**  
**Comments/questions?**

