

What Does It Do?



- Adds the "typ" (type) COSE Protected Header
 - Enables typing the entire COSE object using registered
 - CoAP Content-Format numbers or
 - Media Types and Media Type Parameters
- Background: While COSE included "content type" paralleling the JOSE "cty", it failed to include the equivalent of "typ"

Why Do It?



- Enable explicit typing, in parallel with the JWT BCP [RFC 8725]
- Distinguishing between "whole COSE object" and "payload" content types

Status



- Review feedback incorporated after IETF 117 in San Francisco
- Then adopted by the working group
- Now being recommended by <u>draft-ietf-cose-cwt-claims-in-headers</u>
 - Based on feedback from Carsten Bormann
- Added language describing use of Entity Type parameters
 - Also based on feedback from Carsten Bormann
- -01 just published incorporating this feedback
 - No breaking changes
- No other feedback received since WG adoption



Next Steps

• Time for Working Group Last Call?



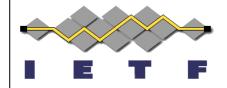
Backup Slides

Why not just use CBOR tags?



- CBOR tags prefix the COSE structure and are not part of it
 - Therefore, they're not integrity-protected and might be omitted
- "typ" (typ) parallels COSE "content type" and JOSE "typ"
 - Uses CoAP Content-Formats numbers and Media Type strings

Application Examples (SCITT Receipt & W3C Verifiable Credentials)



COSE_Sign1 18([

Unprotected Header

.... },

Protected Payload

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])

Signature h'486...7f77ea' # COSE_Sign1 18([

Unprotected Header

.... },

Protected Payload

•••

Signature h'486...7f77ea'])