Welcome to COSE!

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• XMPP Scribe?
• Note Taker?
• Are you sure you’re in the right meeting?
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Agenda

- Opening & Welcome 5 min (Justin/Kepeng)
- COSE Tokens 10 min (Justin)
- ACE Object Security 15 min (Goran)
- COSE Messages and open issues 55 min (Jim)
  - [https://github.com/cose-wg/cose-issues/issues](https://github.com/cose-wg/cose-issues/issues)
- Wrap-up 5 min (Justin/Kepeng)
What is COSE?

- CBOR Object Signing & Encryption
- Pronounced like “cosy”
Meet Your COSE Chairs
About the Working Group
What are we building?

XML : XML DSIG :: JSON : JOSE :: CBOR : COSE
What are our goals?

• JOSE in CBOR
  – Signing/validation
  – Encryption/decryption
  – Key representation (public/private)

• Other things are out of scope
  – Key management, identity management, stuff you wish JOSE had
Focus on Constrained Environments

• There are different kinds of constraints
  – Memory
  – Processor power
  – Network usage

• All of these need to be considered in decisions
The question we should ask ourselves:
WHAT WOULD JOSE DO?
How we’ll get work done
Driving consensus

• Discussions on mailing list
• In person IETF sessions
• Phone calls where needed
  – None are planned right now

cose@ietf.org
Active spec work in GitHub

• Editors and Chairs have write access
  – Other contributors work via pull requests
• Issues via GitHub trackers

https://github.com/cose-wg
Let’s build this thing

• Keep it as simple as possible
  – (But no simpler)
• Learn from what’s being used elsewhere
  – Particularly in JOSE
• Realize when “You Ain’t Gonna Need It”
• Rough consensus, running code
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cose-chairs@ietf.org
COSE Tokens
What’s a COSE Token?

• JWS/JWE/JWA :: COSE Messages
  – Cryptographic methods and envelopes
• JWT :: COSE Token
  – Common payload description
Should we build it?

- JWT has driven use of JOSE more than any other factor
- ACE drafts already mention an abstract “COSE Token” concept
Where should we build it?

• Here in COSE?
• In OAuth (where JWT was made)?