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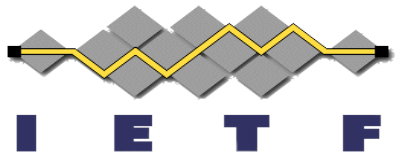
Fully-Specified Algorithms for JOSE and COSE



draft-ietf-jose-fully-specified-algorithms

Mike Jones and Orie Steele
IETF 119, Brisbane
March 18, 2024

Why and What

- See Introduction in draft-ietf-jose-fully-specified-algorithms
- Or IETF 118 slides https://datatracker.ietf.org/meeting/118/materials/slides-118-jose-fully-specified-algorithms-for-jose-and-cose-00

Progress Since IETF 118

- At IETF 118 in Prague, presented draft-jones-jose-fully-specified-algorithms, which incorporated feedback received since IETF 117
- There was support for working group adoption at IETF 118
- Successful call for adoption held in January 2024
  - With useful feedback from working group members
- draft-ietf-jose-fully-specified-algorithms-00 published in January
- Updates in -01 & -02, incorporating WG feedback during adoption
  - Text on fully-specified computations using multiple algorithms
  - Text on KEMs and encapsulated keys
  - Updated instructions to designated experts

Open Question on ECDH-ES

- ECDH-ES, ECDH-ES+A128KW, etc. take ephemeral key as a parameter
  - Meaning that they are polymorphic
- Should we create fully-specified algorithm identifiers?
  - Such as ECDH-ES-ES256, ECDH-ES-ES256+A128KW, etc.
- Some on the list are saying that we should do the whole job
- Brian Campbell and Ilari Liusvaara wrote on-list that there would be 10 or 12 new algorithms for combinations that make sense
- Let’s discuss

Next Steps

- Ask ECDH-ES question on-list?
- Once resolved, publish updated draft incorporating resolution
- Then working group last call?