

draft-ietf-suit-mti- algorithms

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Summary

- Added authors
 - Thanks to Akira & Øyvind!
- Replaced HPKE with ECDH
- Added a CDDL profile for each algorithm

Purpose of suit-mti-algorithms

- Ensure that Manifest authors & Distributors can interoperate with Manifest Recipients.
- Focus is on Manifest Recipients that are:
 - On Constrained Networks
 - Implemented as Constrained Nodes
- Will track development of algorithms over time
- Algorithms may be deprecated and/or replaced as appropriate

HPKE vs ECDH-ES

- HPKE is gaining adoption
- HPKE may be used in upper-level protocols as well (e.g. TLS)
- Sharing code between SUIF Manifest Processors and other layers is desirable.
- HPKE is not adopted in COSE.
 - In the future we should consider HPKE, once a COSE+HPKE RFC is published.
- ECDH-ES is available now.

CDDL Profile

- Other specifications need to reference SUIT-MTI
- The SUIT MTI CDDL provides a COSE Envelope
 - CDDL intersection used to restrict algorithms to MTI algorithms
- Accepted algorithm IDs defined in the profile