

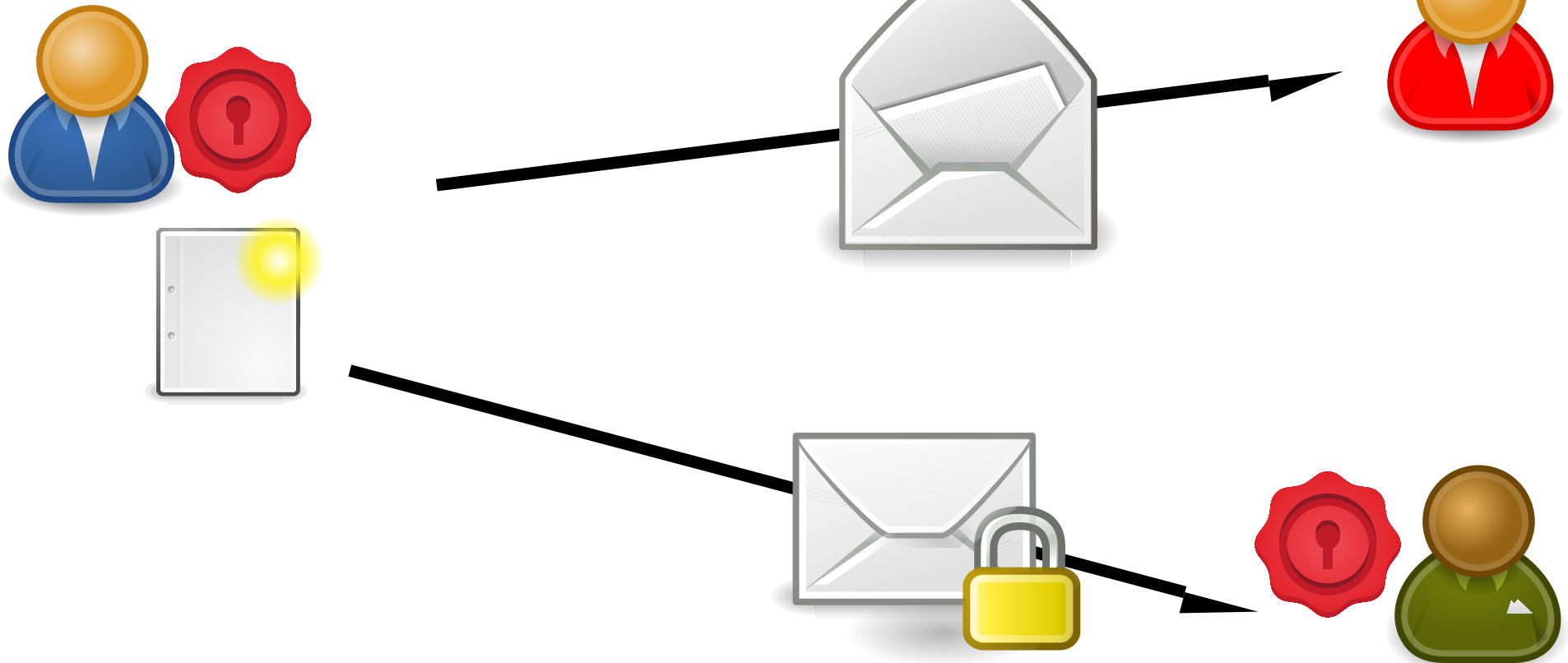
draft-dkg-mail-cleartext-copy

IETF 118
LAMPS

One e-mail message, Recipients with different capabilities

- Carol writes to Alice and Bob
- Alice has a key, Bob does not (see [draft-ietf-lamps-e2e-guidance §9.6](#)):
 - (1) Carol can send encrypted to both; Bob can't read the message ☹
 - (2) Carol can send in the clear to both ✓
 - (3) Carol can send encrypted to Alice, dropping Bob from the recipient list ✓
 - (4) Carol can send an encrypted copy to Alice, and a cleartext copy to Bob**
- If Carol chooses (4), does Alice's client represent the message as encrypted?
- if Alice wants to "reply all", and replies to encrypted messages should be encrypted...

draft-dkg-mail-cleartext-copy



LAMPS: cleartext copy

Problem Statement

- When recipients receive such an encrypted message:
 - How should the MUA describe it to the user?
 - How should the MUA behave when replying?

History

- IETF 116: secdispatch, marked as AD followup
- April 2023: discussion on LAMPS, some agreement to adopt, no objections
- draft-ietf-lamps-e2e-mail-guidance says this is probably not the most understandable approach, but some implementations do it.
- Related to e2e-mail-guidance “Future Work” §A.8 “expectations of cryptographic protections”

Possible design space

- How to signal? (*message header*)
- Signal in detail (which specific recipients did I not encrypt to?) vs. *boolean* (encrypted to all recipients?)
- How to interpret messages with no signal (what is the default)?

Updates from -01 to -02

- Add Daniel Huigens of Proton to authors
- New header: **E2EE-To-All** (values **0** and **1**)
- Simple boolean (no detail to produce or parse)
- Focus on “visible recipients”
- Encourage removing this header from cleartext headers (see draft-ietf-lamps-header-protection)
- Default: vary based on how widespread use of the header is? (needs more clarity)

WG requests

- Please call for adoption
- Daniels Gillmor and Huigens willing to serve as editors if the WG desires
- Also willing to give up change control to the WG
- Review and give feedback!
- <https://gitlab.com/dkg/clear-text-copy>