ATOCA Protocol Drafts draft-barnes-atoca-*

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-cap-mime

- It’s a MIME type for CAP

application/cap+xml !

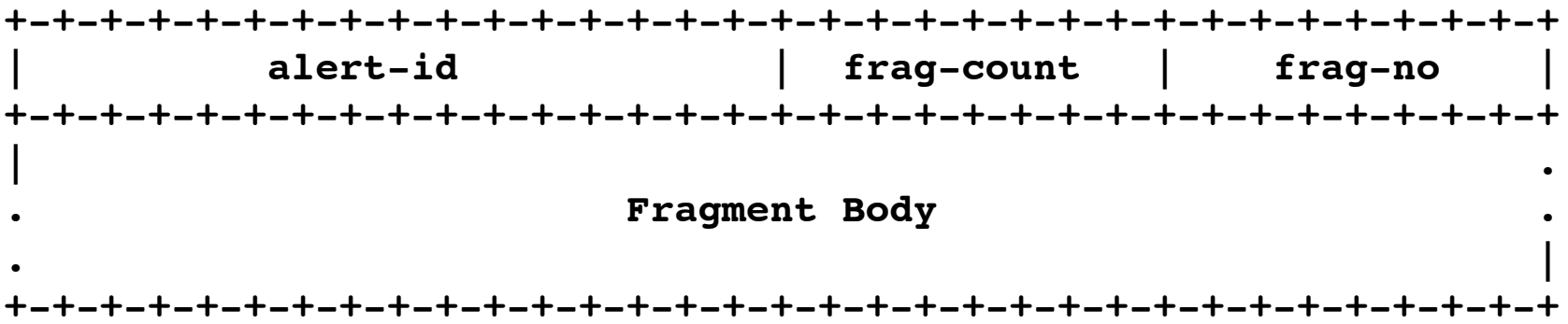
-escape (ESCAPE)

- S/MIME wrapper around CAP
- Two security mechanisms
  - Hash pre-images
  - Digital signatures
- Provisioning of public keys and hash values handled via AMP

-meta (AMP)

- Discovery via DHCP (RFC 5986) + NAPTR
- JSON over HTTP / WebSockets
- Set of message types:
  - C->S: contact info, location
  - S->C: alert sources, certs/pubkeys, hash values

-delivery (LEAP)



- Simple fragmentation for ESCAPE over UDP
- Receiver does buffered reassembly
  - Time-outs to mitigate DOS
- Retransmit to get reliability

Questions

- Is this generally the right set of mechanisms?
- Do the individual protocols have roughly the right shape?
- Adopt as WG item: -meta —> “Discovering alert servers”?

Possibly Adopt in the Future

- -cap-mime —> *new milestone* “A MIME media type for CAP”
- -escape —> *new milestone* “Secure alert format for alert distribution”
- -delivery —> *collapsed milestone* “Lightweight conveyance of authority to citizen alerts”