



EDHOC

draft-ietf-lake-edhoc-20

<https://github.com/lake-wg/edhoc>

IETF 117, LAKE WG, July 24, 2023

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Status



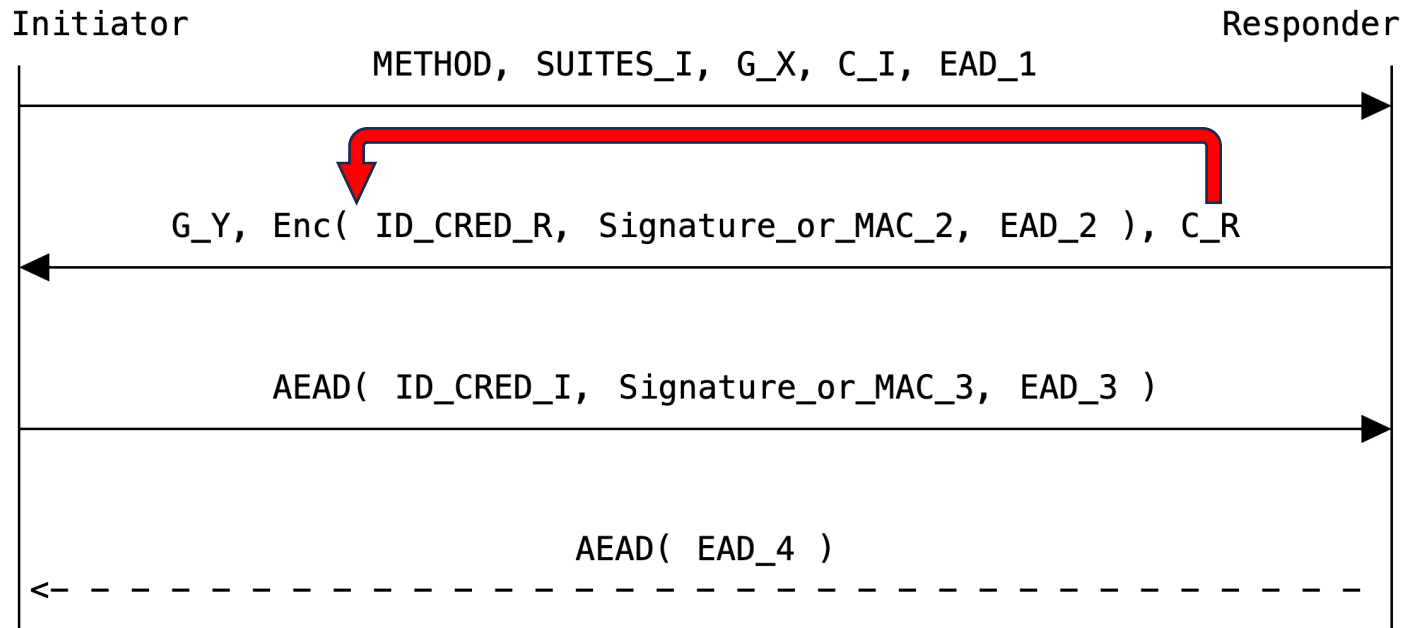
- Since IETF 116
 - edhoc-20
 - AD review
 - Clean up
- Next step
 - Last Call

edhoc-19 → edhoc-20



- Main changes:
 - Encryption of C_R in message_2
 - New error code for unknown referenced credential (Section 6.4)
- Minor changes
 - Error code 0 (success) explicitly reserved
 - Message deduplication moved from appendix to body (Section
 - Terminology
 - protocol run / exchange -> session
 - discontinued -> aborted
 - Clarifications, in particular
 - when to derive application keys
 - the role of the application for authentication
 - Security considerations for kccs and kcwt
 - Updated references

Encryption of C_R



~~$TH_2 = H(G_Y, C_R, H(\text{message}_1))$~~

$TH_3 = H(TH_2, \text{PLAINTEXT}_2, \text{CRED}_R)$

↑
Contains C_R

- Connection identifiers `C_I` and `C_R` facilitate the retrieval of protocol state
- Change: `C_R` moved in under `Enc()`
 - Prepended `C_R` (if used) still in plaintext
 - Implied change to transcript hash `TH_2`
 - `TH_3` unchanged

Error Codes



- Error codes defined to enable automated remediation

ERR_CODE	ERR_INFO Type	Description
0		This value is reserved
1	tstr	Unspecified error
2	suites	Wrong selected cipher suite
3	true	Unknown credential referenced

← Explicitly reserved

← New error code

- New ERR_CODE = 3
- Can be used for indicating that the referenced credential is missing
 - Simplifies the use of credential by value only when needed