



ERICSSON

EPHEMERAL DIFFIE- HELLMAN OVER COSE (EDHOC)

IETF99 ACE, JUL 17 2017

SELANDER, MATTSSON, PALOMBINI

DRAFT-SELANDER-ACE-COSE-ECDHE-07

SEVERAL REVIEWS



- Presented for CFRG at Eurocrypt by Jim Schaad
- Security reviews by Dan Harkins and Ilari Liusvaara
 - All comments taken into account in -07

"This is a very well-written draft and I am happy to see SIGMA being applied to every layer of the stack".

Dan Harkins

NEW IN VERSION -06



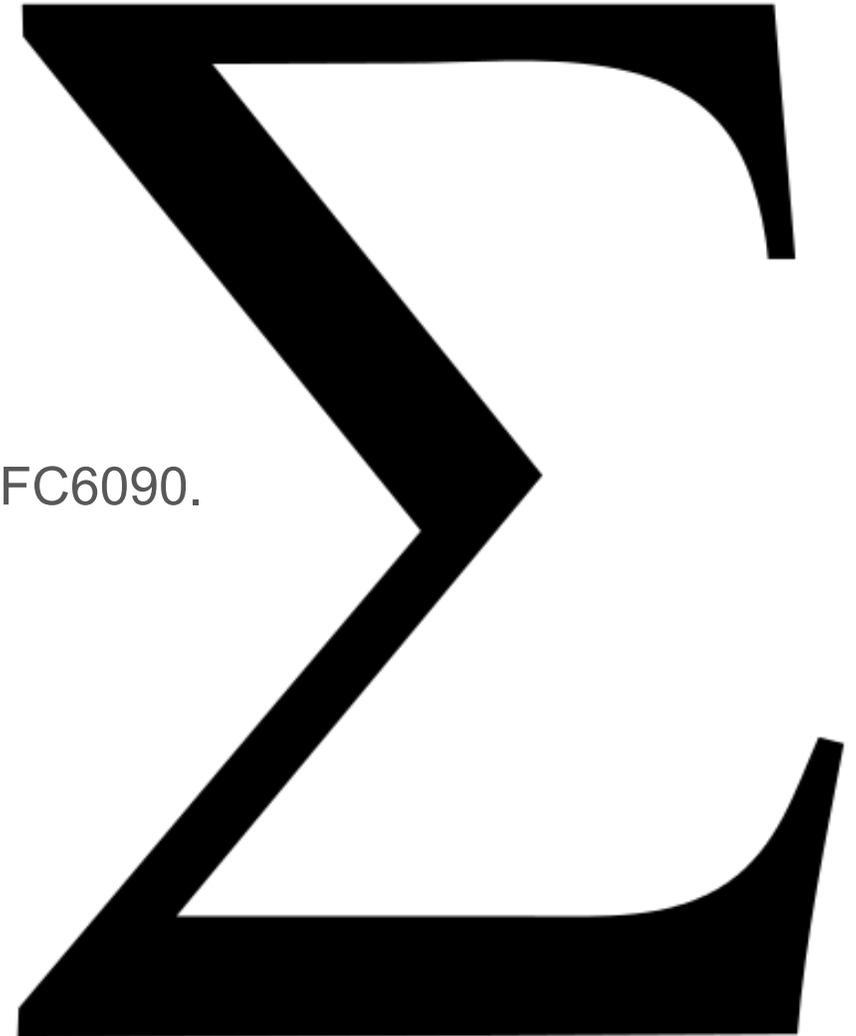
- Changes:
 - Error Message (MSG_TYPE = 0)
 - Verification of common preferred ECDH curve
 - Renamed "**extension**" → "**opaque application data**"
 - Removed encryption and integrity protection in message_1
 - Application unique strings now in field AlgorithmID.
 - Default CoAP Uri-Path: `"/.well-known/edhoc"`
 - PSK Chaining



NEW IN VERSION -07



- Changes:
 - AlgorithmID is a tstr
 - Better explanation of session identifiers
 - Compact representation of EC2 points according to RFC6090.
 - ID_V, CERT_V replaced with ID_V, HINT_ID_V sent in the protected field of COSE_SIG_V.
 - Point validation of EC2 points





ERICSSON