Abbreviations \sim X 1 = Request(Header(\sim M 6613, \sim M 6614, \sim M 6615, \sim M 6616,

~M 6617),~M 6606,CoAP Option OSCORE Option context(~M_6610,~M 6611,~M 6612),payload from ciphertext(~M 6609))

= Request(Header(CoAP versionOne,CoAP nonConfirm, CoAP tokenLength(token 6076), CoAP GETCode, messageID 6077), token 6076, CoAP Option OSCORE Option context(partial iv 6073, IDir 6070, idcontext 6072), payload from ciphertext(enc COSE ciphertext(derive key context(MasterSecret 6071, IDir 6070, default aead algorithm, idcontext 6072), aead nonce(IDir 6070, derive common iv context(MasterSecret 6071,idcontext 6072,default aead algorithm), partial iv 6073),(CoAP POSTCode,payload 6078), AAD(encrypt0 context,encrypt0(oscore_version_one, default aead algorithm, IDir 6070, partial iv 6073)))))

A trace has been found. \sim X 2 = Request(Header(a 6062,a 6063,a 6064,a 6065,a 6066),

> a 6067, CoAP Option OSCORE Option context(~M 6610, ~M 6611,~M 6113),payload from ciphertext(~M 6609))

Request(Header(a 6062,a 6063,a 6064,a 6065,a 6066), a 6067, CoAP Option OSCORE Option context(partial iv 6073,

IDir 6070, idcontext 6072), payload from ciphertext(enc COSE ciphertext(derive key context(MasterSecret 6071, IDir 6070, default aead algorithm, idcontext 6072), aead nonce(IDir 6070, derive common iv context(MasterSecret 6071,idcontext 6072,default aead algorithm), partial iv 6073),(CoAP POSTCode,payload 6078), AAD(encrypt0 context,encrypt0(oscore version one,

