## Abbreviations

~X\_1 = Request(Header(~M\_11144,~M\_11145,~M\_11146,~M\_11147, ~M\_11148),~M\_11137,CoAP\_Option\_OSCORE\_Option\_context( ~M\_11141,~M\_11142,~M\_11143),payload\_from\_ciphertext( ~M\_11140))

= Request(Header(CoAP\_versionOne,CoAP\_nonConfirm,
CoAP\_tokenLength(token\_10591),CoAP\_GETCode,messageID\_10592),
 token\_10591,CoAP\_Option\_OSCORE\_Option\_context(
partial\_iv\_10589,IDir\_10590,idcontext\_10588),payload\_from\_ciphertext(
 enc\_COSE\_ciphertext(derive\_key\_context(MasterSecret\_10587,
 IDir\_10590,default\_aead\_algorithm,idcontext\_10588),
 aead\_nonce(IDir\_10590,derive\_common\_iv\_context(
 MasterSecret\_10587,idcontext\_10588,default\_aead\_algorithm),
 partial\_iv\_10589),(CoAP\_POSTCode,payload\_10593),
 AAD(encrypt0\_context,encrypt0(oscore\_version\_one,
 default\_aead\_algorithm,IDir\_10590,partial\_iv\_10589)))))

A trace has been found.

~X\_2 = Request(Header(a\_10579,a\_10580,a\_10581,a\_10582, a\_10583),a\_10584,CoAP\_Option\_OSCORE\_Option\_context( ~M\_11141,~M\_10642,~M\_10644),payload\_from\_ciphertext( ~M\_11140))

= Request(Header(a\_10579,a\_10580,a\_10581, a\_10582,a\_10583),a\_10584,CoAP\_Option\_OSCORE\_Option\_context( partial\_iv\_10589,IDir\_10590,idcontext\_10588),payload\_from\_ciphertext( enc\_COSE\_ciphertext(derive\_key\_context(MasterSecret\_10587, IDir\_10590,default\_aead\_algorithm,idcontext\_10588), aead\_nonce(IDir\_10590,derive\_common\_iv\_context( MasterSecret\_10587,idcontext\_10588,default\_aead\_algorithm), partial\_iv\_10589),(CoAP\_POSTCode,payload\_10593), AAD(encrypt0\_context,encrypt0(oscore\_version\_one, default\_aead\_algorithm,IDir\_10590,partial\_iv\_10589)))))

