

Abbreviations
$\sim X_1 = \text{FIN}(\text{tls12_prf}(\text{tls12_prf}(\text{zero}, \text{master_secret}, (\sim M_{7939}, a_{7816})), \text{server_finished}, (((((\text{CH}(\sim M_{7939}, a_{7819}), \text{SH}(a_{7816}, \text{nego}(\text{TLS12}, \text{RSA}(a_{7820}), a_{7821}, a_{7814}, a_{7822}))), \text{CRT}(\sim M_{8044})), \text{CCS}(\text{change_cipher_spec})), \text{CKE}(\text{rsa_enc}(\sim M_{8044}, \text{zero}))), \text{FIN}(\text{tls12_prf}(\text{tls12_prf}(\text{zero}, \text{master_secret}, (\sim M_{7939}, a_{7816})), \text{client_finished}, (\sim M_{7939}, a_{7816})))))) = \text{FIN}(\text{tls12_prf}(\text{tls12_prf}(\text{zero}, \text{master_secret}, (\text{cr}_{7825}, a_{7816})), \text{server_finished}, (((((\text{CH}(\text{cr}_{7825}, a_{7819}), \text{SH}(a_{7816}, \text{nego}(\text{TLS12}, \text{RSA}(a_{7820}), a_{7821}, a_{7814}, a_{7822}))), \text{CRT}(\text{pk}(\text{k}_{7829}))), \text{CCS}(\text{change_cipher_spec})), \text{CKE}(\text{rsa_enc}(\text{pk}(\text{k}_{7829}), \text{zero}))), \text{FIN}(\text{tls12_prf}(\text{tls12_prf}(\text{zero}, \text{master_secret}, (\text{cr}_{7825}, a_{7816})), \text{client_finished}, (\text{cr}_{7825}, a_{7816}))))))$
$\sim M_{8197} = \text{aead_enc}(a_{7814}, \text{b2ae}(\text{tls12_prf}(\text{tls12_prf}(\text{zero}, \text{master_secret}, (\text{cr}_{7825}, a_{7816})), \text{client_key_expansion}, (a_{7816}, \text{cr}_{7825}))), a_{7817}, a_{7818}, \text{secretC2S})$

