Client	Server
static $(KEM_C): pk_C, sk_C$	static (KEM_S) : pk_S, sk_S
Knows: pk_S	Knows: pk_C
$(pk_e, sk_e) \leftarrow KEM_e.Keygen()$	
$(ss_S, ct_S) \leftarrow KEM_S.Encap(pk_S)$	
$K_s \leftarrow KDF(ss_S)$ $ct_S , AEAD_{K_S}.Enc(pk_e)$	
	$ss_S \leftarrow KEM_S.Decap(ct_S, sk_S)$ $pk_e \leftarrow AEAD_{K_S}.Dec(ct_{pk_e})$ $(ss_e, ct_e) \leftarrow KEM_e.Encap(pk_e)$ $(ss_C, ct_C) \leftarrow KEM_C.Encap(pk_C)$
$K_1 \leftarrow KDF(ss_S ss_e) ct_C, AEAD_{K_1}.Enc(ct_e)$	
$ss_{C} \leftarrow KEM_{C}.Decap(ct_{C}, sk_{C})$ $ct_{e} \leftarrow AEAD_{K_{1}}.Dec(ct_{ct_{e}})$ $ss_{C} \leftarrow KEM_{C}.Decap(ct_{C}, sk_{C})$	
$K_2, K_2', K_2'', K_2''' \leftarrow KDF(ss_S ss_e ss_C)$ $AEAD_{K_2}.Enc(\text{key confirmation})$	
$AEAD_{K_{2}^{\prime}}.Enc$ (application data)	
$AEAD_{K_{2}^{\prime\prime}}.Enc(ext{key confirmation})$	
$AEAD_{K_{2}^{\prime\prime\prime}}.Enc(application data)$	
KEM.Ephemeral: Kyber KEM.Client: Classic McEliece KEM.Server: Classic McEliece	