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