A trace has been found.

Abbreviations

~M_1 = senckey((fAKID((fATID(SUPI,K),ID_MNO_5)),ID_AF_5, hmac((user_id,ID_AF_5),K_UE)),KEMkey(Encaps(pk(SK MNO),rUE 1)))

~M_2 = KEMCipher(Encaps(pk(SK_MNO),rUE_1))

~M_3 = hmac(senckey((fAKID((fATID(SUPI,K),ID_MNO_5)),
ID_AF_5,hmac((user_id,ID_AF_5),K_UE)),KEMkey(Encaps(
pk(SK_MNO),rUE_1))),KEMkey(Encaps(pk(SK_MNO),rUE_1)))

~M_4 = ID_MNO_5

~M_5 = senckey((fAKID((fATID(SUPI,K),ID_MNO_5)),ID_AF_5, hmac((user_id,ID_AF_5),K_UE)),KEMkey(Encaps(pk(

~M_6 = KEMCipher(Encaps(pk(SK_MNO),rUE_2))

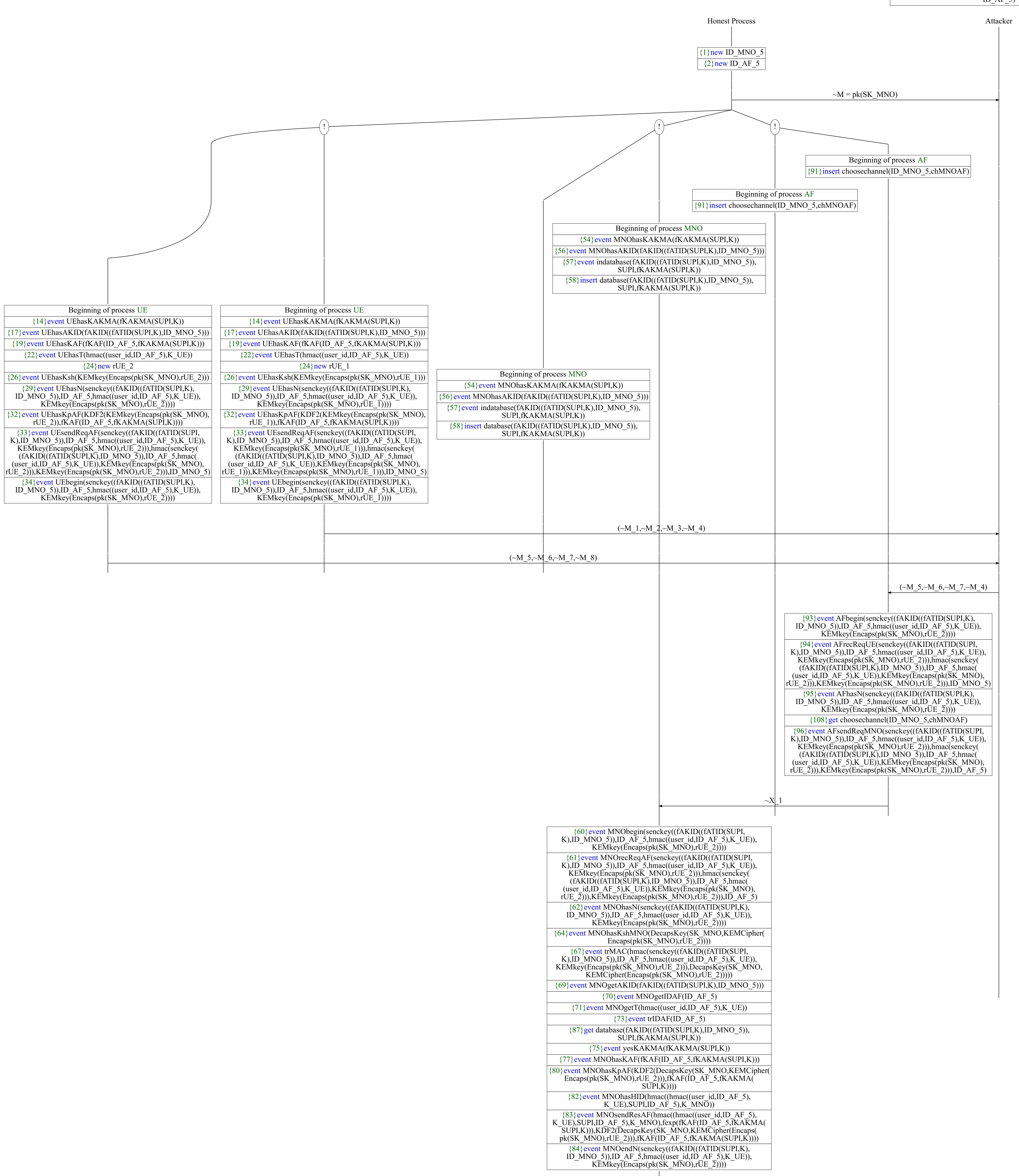
~M_7 = hmac(senckey((fAKID((fATID(SUPI,K),ID_MNO_5)),
ID_AF_5,hmac((user_id,ID_AF_5),K_UE)),KEMkey(Encaps(
pk(SK_MNO),rUE_2))),KEMkey(Encaps(pk(SK_MNO),rUE_2)))

SK MNO),rUE 2)))

~M_8 = ID_MNO_5

~X_1 = (senckey((fAKID((fATID(SUPI,K),ID_MNO_5)),ID_AF_5, hmac((user_id,ID_AF_5),K_UE)),KEMkey(Encaps(pk(SK_MNO),rUE_2))),KEMCipher(Encaps(pk(SK_MNO),rUE_2)),

hmac(senckey((fAKID((fATID(SUPI,K),ID_MNO_5)), ID_AF_5,hmac((user_id,ID_AF_5),K_UE)),KEMkey(Encaps(pk(SK_MNO),rUE_2))),KEMkey(Encaps(pk(SK_MNO),rUE_2))), ID_AF_5)



{85} event MNOendKpAF(fKAF(ID_AF_5,fKAKMA(SUPI, K)))