

Abbreviations
$\sim X_1 = (a_4, discoveredParticipant, participant_data(\sim M_7, \sim M_4, \sim M_10, discoveryRegister))$ = (a_4, discoveredParticipant, participant_data(GUIDA_4, Topic_bd_4, QoSA_2, discoveryRegister))
$\sim M_22 = sign_cert(GUIDA_4, pk(PrivKA_1), SN_CI, SK_CI)$
$\sim M_23 = sign_perm(GUIDA_4, DGA_1, PPA_1, SK_Perm)$
$\sim M_24 = GUIDA_4$
$\sim M_25 = Topic_bd_4$
$\sim M_26 = QoSA_2$
$\sim M_27 = discoveryRegister$
$\sim M_28 = ID_G$
$\sim M_29 = DH_RSA$
$\sim M_30 = SHA256$
$\sim M_31 = hash(SHA256, Clist2bit(make_C_list(sign_cert(GUIDA_4, pk(PrivKA_1), SN_CI, SK_CI), sign_perm(GUIDA_4, DGA_1, PPA_1, SK_Perm), participant_data(GUIDA_4, Topic_bd_4, QoSA_2, discoveryRegister), make_algo(ID_G, DH_RSA), SHA256)))$
$\sim M_32 = ChallengeA_5$
$\sim M_33 = dh_pub(ID_G, dh_k(s_5))$
$\sim X_2 = (a_5, discoveredParticipant, participant_data(\sim M_7, \sim M_4, \sim M_10, discoveryRegister))$ = (a_5, discoveredParticipant, participant_data(GUIDA_4, Topic_bd_4, QoSA_2, discoveryRegister))
$\sim M_34 = sign_cert(GUIDA_4, pk(PrivKA_1), SN_CI, SK_CI)$
$\sim M_35 = sign_perm(GUIDA_4, DGA_1, PPA_1, SK_Perm)$
$\sim M_36 = GUIDA_4$
$\sim M_37 = Topic_bd_4$
$\sim M_38 = QoSA_2$
$\sim M_39 = discoveryRegister$
$\sim M_40 = ID_G$
$\sim M_41 = DH_RSA$
$\sim M_42 = SHA256$
$\sim M_43 = hash(SHA256, Clist2bit(make_C_list(sign_cert(GUIDA_4, pk(PrivKA_1), SN_CI, SK_CI), sign_perm(GUIDA_4, DGA_1, PPA_1, SK_Perm), participant_data(GUIDA_4, Topic_bd_4, QoSA_2, discoveryRegister), make_algo(ID_G, DH_RSA), SHA256)))$
$\sim M_44 = ChallengeA_6$
$\sim M_45 = dh_pub(ID_G, dh_k(s_6))$
$\sim X_3 = (make_C_list(\sim M_22, \sim M_23, participant_data(\sim M_7, \sim M_4, \sim M_10, discoveryRegister), make_algo(ID_G, DH_RSA), SHA256), hash(SHA256, Clist2bit(make_C_list(\sim M_22, \sim M_23, participant_data(\sim M_7, \sim M_4, \sim M_10, discoveryRegister), make_algo(ID_G, DH_RSA), SHA256))), \sim M_44, \sim M_45))$ = (make_C_list(sign_cert(GUIDA_4, pk(PrivKA_1), SN_CI, SK_CI), sign_perm(GUIDA_4, DGA_1, PPA_1, SK_Perm), participant_data(GUIDA_4, Topic_bd_4, QoSA_2, discoveryRegister), make_algo(ID_G, DH_RSA), SHA256), hash(SHA256, Clist2bit(make_C_list(sign_cert(GUIDA_4, pk(PrivKA_1), SN_CI, SK_CI), sign_perm(GUIDA_4, DGA_1, PPA_1, SK_Perm), participant_data(GUIDA_4, Topic_bd_4, QoSA_2, discoveryRegister), make_algo(ID_G, DH_RSA), SHA256))), ChallengeA_6, dh_pub(ID_G, dh_k(s_6))))

A trace
has been found.

