Abbreviations
~M_7 = a_1
~M_8 = Topic_bd_4
~M_9 = a_2
~M_10 = discoveryRegister
~M_11 = discoveredParticipant
~M_12 = a_4
~M_13 = Topic_bd_4
~M_14 = a_5
~M_15 = discoveryRegister
~X_1 = (a_6,TopicCreateReq,a_7,participant_data(a_1,~M_4, a_2,discoveryRegister)) = (a_6,TopicCreateReq, a_7,participant_data(a_1,Topic_bd_4,a_2,discoveryRegister))

A trace has been found.

Honest Process — Attacker

~M = pk(SK_CI)

~M_1 = pk(SK_Perm)

{5}new GUIDA_5
{6}new PrivKA_1
{10}new DGA_1
{11}new PPA_1
{12}new QoSA_2
{18}new GUIDB_5
{19}new PrivKB_1
{23}new DGB_2
{24}new PPB_2
{25}new QosB_4
{31}new Topic_bd_4

! ! !

Beginning of process ParticipantA

Beginning of process Discovery

(~M_2,participant_data(~M_3,~M_4,~M_5,~M_6)) = (GUIDA_5,participant_data(GUIDA_5,Topic_bd_4,QoSA_2, discoveryRegister))

(a_1,participant_data(a_1,~M_4,a_2,discoveryRegister)) = (a_1,participant_data(a_1,Topic_bd_4,a_2,discoveryRegister))

(a_4,participant_data(a_4,~M_4,a_5,discoveryRegister)) = (a_4,participant_data(a_4,Topic_bd_4,a_5,discoveryRegister))

{146}event DISCOVERY(a_1,participant_data(a_1, Topic_bd_4,a_2,discoveryRegister),a_4,participant_data(a_4,Topic_bd_4,a_5,discoveryRegister))

(participant_data(~M_7,~M_8,~M_9,~M_10),~M_11, participant_data(~M_12,~M_13,~M_14,~M_15))

~X_1

The attacker has the message a_8
The attacker has the message a_6
The attacker has the message a_9
The attacker has the message a_10
The attacker has the message a_7

{149}event TOPIC_DISCOVERED(a_1,a_6,a_7)