A trace has been found. Attacker **Honest Process** {1}new gmsk_4 {2}new cask_4 {3}new vid_12 {4}new vsk_8 {5}new vid_13 {6}new vsk_9 {7}new attvid_4 {8}new attsk_4 {9}new gmsk_5 {10}new cask_5 {11} new vid_14 {12}new vsk_10 {13}new vid_15 {14} new vsk_11 {15}new attvid_5 {16} new attsk_5 \sim M = pk(choice[cask_4,cask_5]) {177}event choice[AttackerGetsEnrollmentCertificate(attvid_4,pk(attsk_4)),AttackerGetsEnrollmentCertificate(attvid_5,pk(attsk_5))] {182}event WaitingRequest \sim M_4 = choice[cert(vid_13,pk(vsk_9),cask_4),cert(vid_15,pk(vsk_11),cask_5)] {103}event ValidGroupKeyRequestSent(choice[vid_13, vid_15]) ~M 5 \sim M_6 = choice[cert(vid_12,pk(vsk_8),cask_4),cert(vid_14,pk(vsk_10),cask_5)] {26} event ValidGroupKeyRequestSent(choice[vid_12, vid_14]) ~M 7 ~M 5 {209} event GroupKeyRequestReceived(choice[aenc((groupkey_request,nonce,sign(groupkey_request, vsk_9),cert(vid_13,pk(vsk_9),cask_4)),pk(cask_4)), aenc((groupkey_request,nonce,sign(groupkey_request, vsk_11),cert(vid_15,pk(vsk_11),cask_5)),pk(cask_5))]) {210}event choice[ValidGroupKeyRequestReceived(cask_4,vid_13),ValidGroupKeyRequestReceived(cask_5,vid_15)] {215}event choice[ValidGroupPrivateKeySent(vid_13, gsk(vid_13,gmsk_4),gpk(gmsk_4)),ValidGroupPrivateKeySent(vid_15,gsk(vid_15,gmsk_5),gpk(gmsk_5))] ~M 8 ~M 8 {114}new vpseudosk_10 {115}new vpseudosk_11 {116}new m_12 {134} if choice[true,false]
This process performs a test that may succeed on one side and not on the other.

Abbreviations \sim X_1 = (\sim M_1, \sim M_2, \sim M_3) = choice[(attvid_4,attsk_4,cert(attvid_4,pk(attsk_4),cask_4)),(attvid_5,attsk_5,cert(attvid_5,pk(attsk_5),cask_5))]

~M_5 = choice[aenc((groupkey_request,nonce,sign(groupkey_request,vsk_9),cert(vid_13,pk(vsk_9),cask_4)),pk(cask_4)),aenc((groupkey_request,nonce,sign(groupkey_request,vsk_11),cert(vid_15,pk(vsk_11),cask_5)),pk(cask_5))]

~M_7 = choice[aenc((groupkey_request,nonce,sign(groupkey_request,vsk_8),cert(vid_12,pk(vsk_8),cask_4)),pk(cask_4)),aenc((groupkey_request,nonce,sign(groupkey_request,vsk_10),cert(vid_14,pk(vsk_10),cask_5)),pk(cask_5))]

~M_8 = choice[aenc(((groupkey_response,vid_13, gsk(vid_13,gmsk_4),gpk(gmsk_4)),sign((groupkey_response, vid_13,gsk(vid_13,gmsk_4),gpk(gmsk_4)),cask_4)), pk(vsk_9)),aenc(((groupkey_response,vid_15,gsk(vid_15,gmsk_5)),sign((groupkey_response, vid_15,gsk(vid_15,gmsk_5)),gpk(gmsk_5)),cask_5)), pk(vsk_11))]