Abbreviations
~X_1 = aenc((groupkey_request,sign(groupkey_request,~M_2), ~M_3),~M) = aenc((groupkey_request,sign(groupkey_request, attsk_3),cert(attvid_3,pk(attsk_3),cask_3)),pk(cask_3))
~M_8 = aenc(((groupkey_response,attvid_3,gsk(attvid_3, gmsk_4),gpk(gmsk_4)),sign((groupkey_response,attvid_3, gsk(attvid_3,gmsk_4),gpk(gmsk_4)),cask_3)),pk(attsk_3))
~M_9 = aenc(((groupkey_response,vid_7,gsk(vid_7, gmsk_4),gpk(gmsk_4)),sign((groupkey_response,vid_7, gsk(vid_7,gmsk_4),gpk(gmsk_4)),cask_3)),pk(vsk_3))
~X_2 = (~M_13,~M_14,pseudocert(getpseudopk(~M_12),3-proj-4-tuple(1-proj-2-tuple(adec(~M_8,~M_2))))) = (m_9,sign(m_9,vpseudosk_3),pseudocert(pk(vpseudosk_3),gsk(attvid_3,gmsk_4)))
~M_16 = aenc(((pseudocert(pk(vpseudosk_3),gsk(attvid_3,gmsk_4)),revoke_request),sign((pseudocert(pk(vpseudosk_3),gsk(attvid_3,gmsk_4)),revoke_request), vsk_3),cert(vid_7,pk(vsk_3),cask_3)),pk(cask_3))
~X_3 = aenc(((pseudocert(a_10,3-proj-4-tuple(1-proj-2-tuple(adec(~M_8,~M_2)))),revoke_request),sign((pseudocert(a_10,3-proj-4-tuple(1-proj-2-tuple(adec(~M_8,~M_2)))), revoke_request),~M_5),~M_6),~M) = aenc(((pseudocert(a_10,gsk(attvid_3,gmsk_4)),revoke_request),sign((pseudocert(a_10,gsk(attvid_3,gmsk_4)),revoke_request), attsk_4),cert(attvid_4,pk(attsk_4),cask_3)),pk(cask_3))

A trace has been found.