Abbreviations
~X_1 = aenc((groupkey_request,sign(groupkey_request,~M_3),~M_4),~M) = aenc((groupkey_request,sign(groupkey_request,attsk_3),cert(attvid_3,pk(attsk_3),cask_4)),pk(cask_4))
~M_9 = 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_4)),pk(attsk_3))
~M_10 = 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_4)),pk(vsk_3))
~X_2 = (groupkey_request,2-proj-3-tuple(adec(~M_8,~M_1)),pseudocert(getpk(3-proj-3-tuple(adec(~M_8,~M_1))),3-proj-4-tuple(1-proj-2-tuple(adec(~M_9,~M_3)))) = (groupkey_request,sign(groupkey_request,vsk_3),pseudocert(pk(vsk_3),gsk(attvid_3,gmsk_4)))
~M_11 = aenc(((pseudocert(pk(vsk_3),gsk(attvid_3,gmsk_4)),revoke_request),sign((pseudocert(pk(vsk_3),gsk(attvid_3,gmsk_4)),revoke_request),vsk_3),cert(vid_7,pk(vsk_3),cask_4)),pk(cask_4))
~X_3 = aenc(((pseudocert(a_7,3-proj-4-tuple(1-proj-2-tuple(adec(~M_9,~M_3)))),revoke_request),sign((pseudocert(a_7,3-proj-4-tuple(1-proj-2-tuple(adec(~M_9,~M_3)))),revoke_request),~M_6),~M_7),~M) = aenc(((pseudocert(a_7,gsk(attvid_3,gmsk_4)),revoke_request),sign((pseudocert(a_7,gsk(attvid_3,gmsk_4)),revoke_request),attsk_4),cert(attvid_4,pk(attsk_4),cask_4)),pk(cask_4))

A trace has been found.