Abbreviations
~M_2 = choice[aenc((groupkey_request,sign(groupkey_request, vsk_31),cert(vid_115,pk(vsk_31),cask_28)),pk(cask_28)), aenc((groupkey_request,sign(groupkey_request,vsk_30), cert(vid_114,pk(vsk_30),cask_29)),pk(cask_29))]
~X_1 = (~M_3,~M_4,~M_5) = choice[(attvid_29,attsk_29, cert(attvid_29,pk(attsk_29),cask_28)),(attvid_28, attsk_28,cert(attvid_28,pk(attsk_28),cask_29))]
~M_7 = choice[aenc((groupkey_request,sign(groupkey_request, vsk_33),cert(vid_117,pk(vsk_33),cask_28)),pk(cask_28)), aenc((groupkey_request,sign(groupkey_request,vsk_32), cert(vid_116,pk(vsk_32),cask_29)),pk(cask_29))]
~X_2 = (~M_8,~M_9,~M_10) = choice[(attvid_31,attsk_31, cert(attvid_31,pk(attsk_31),cask_28)),(attvid_30, attsk_30,cert(attvid_30,pk(attsk_30),cask_29))]
~M_11 = choice[aenc(((groupkey_response,vid_115, gsk(vid_115,gmsk_28),gpk(gmsk_28)),sign((groupkey_response, vid_115,gsk(vid_115,gmsk_28),gpk(gmsk_28)),cask_28)), pk(vsk_31)),aenc(((groupkey_response,vid_114,gsk(vid_114,gmsk_29),gpk(gmsk_29)),sign((groupkey_response, vid_114,gsk(vid_114,gmsk_29),gpk(gmsk_29)),cask_29)), pk(vsk_30))]

A trace has been found.