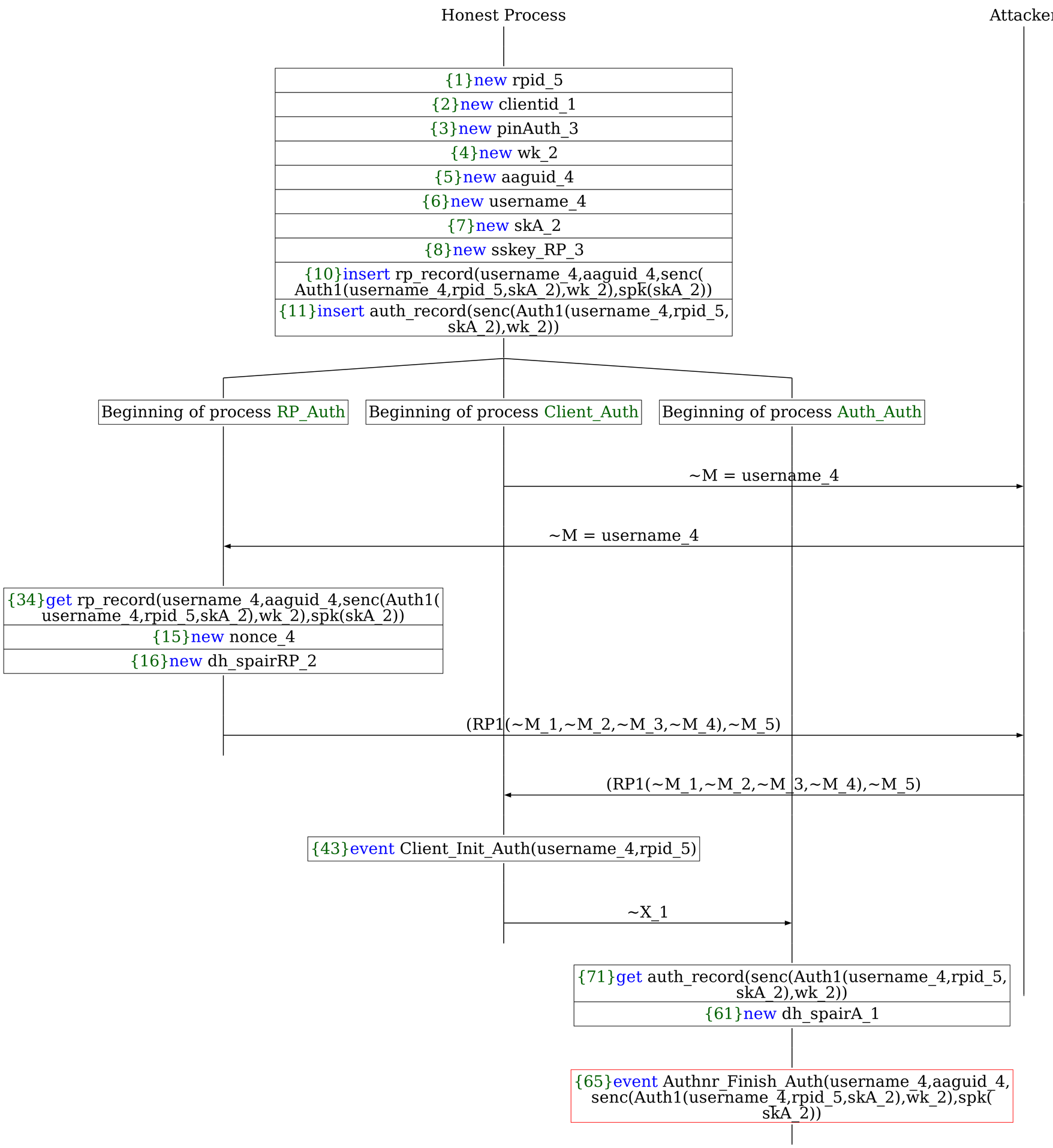
Abbreviations
~M_1 = nonce_4
~M_2 = rpid_5
~M_3 = senc(Auth1(username_4,rpid_5,skA_2),wk_2)
~M_4 = dhexp(g,dh_spairRP_2)
~M_5 = sign(RP1(nonce_4,rpid_5,senc(Auth1(username_4, rpid_5,skA_2),wk_2),dhexp(g,dh_spairRP_2)),sskey_RP_3)
~X_1 = (hash(Client1(rpid_5,nonce_4)),HMAC(pinAuth_3, hash(Client1(rpid_5,nonce_4))),RP1(nonce_4,rpid_5, senc(Auth1(username_4,rpid_5,skA_2),wk_2),dhexp(g,dh_spairRP_2)),sign(RP1(nonce_4,rpid_5,senc(Auth1(username_4,rpid_5,skA_2),wk_2),dhexp(g,dh_spairRP_2)), sskey_RP_3))

A trace has been found.