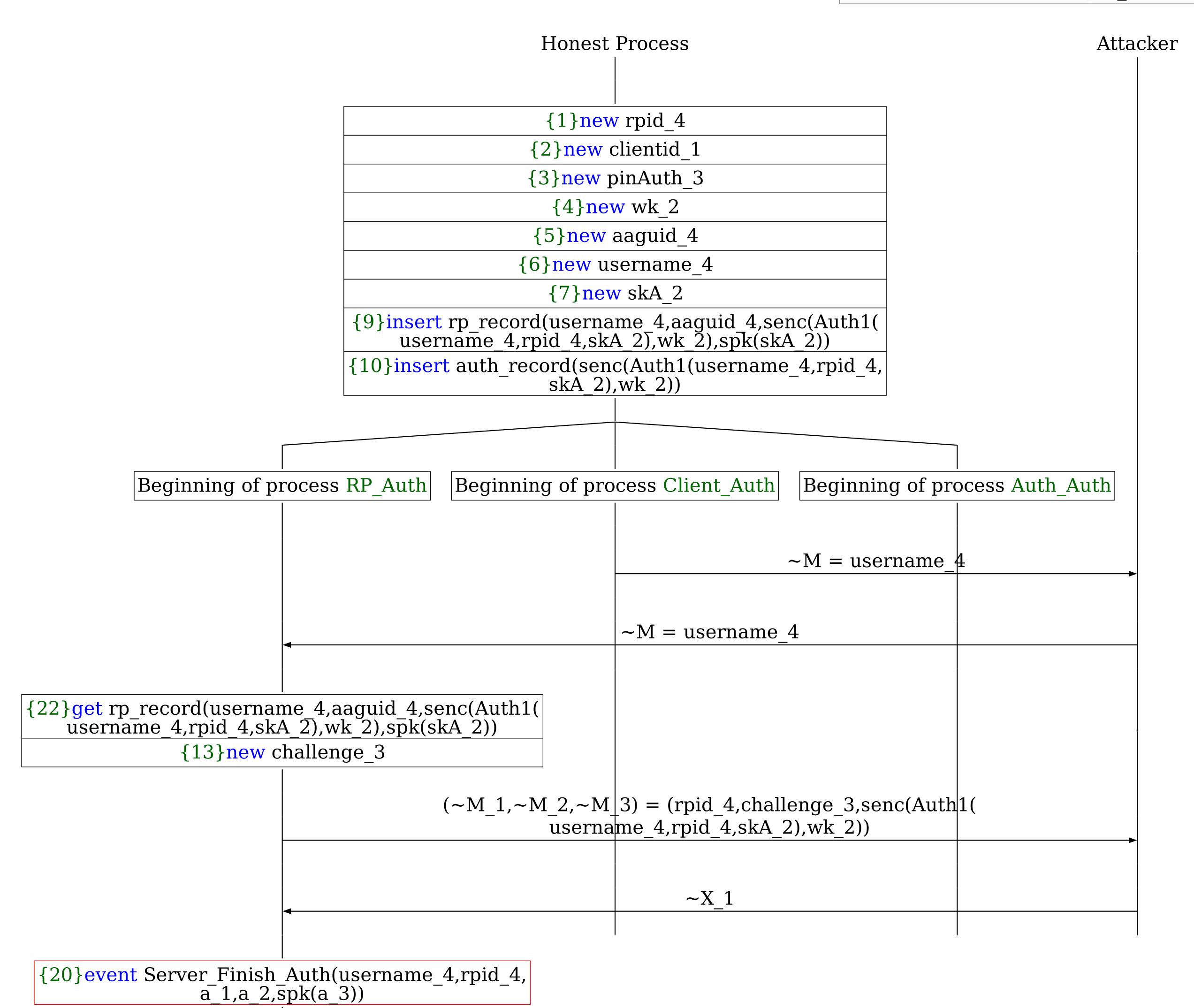
Abbreviations

 \sim X_1 = (Auth2(h(\sim M_1),a_1,a_2,spk(a_3)),sign(Auth3(Auth2(h(\sim M_1),a_1,a_2,spk(a_3)),hash(Client1(\sim M_1, \sim M_2))), a_3),Client1(\sim M_1, \sim M_2)) = (Auth2(h(rpid_4),a_1,

 $= (Auth2(h(rpid_4),a_1,a_2,a_2,spk(a_3)),sign(Auth3(Auth2(h(rpid_4),a_1,a_2,spk(a_3)),hash(Client1(rpid_4,challenge_3))),a_3),$

Client1(rpid_4,challenge_3))



A trace has been found.