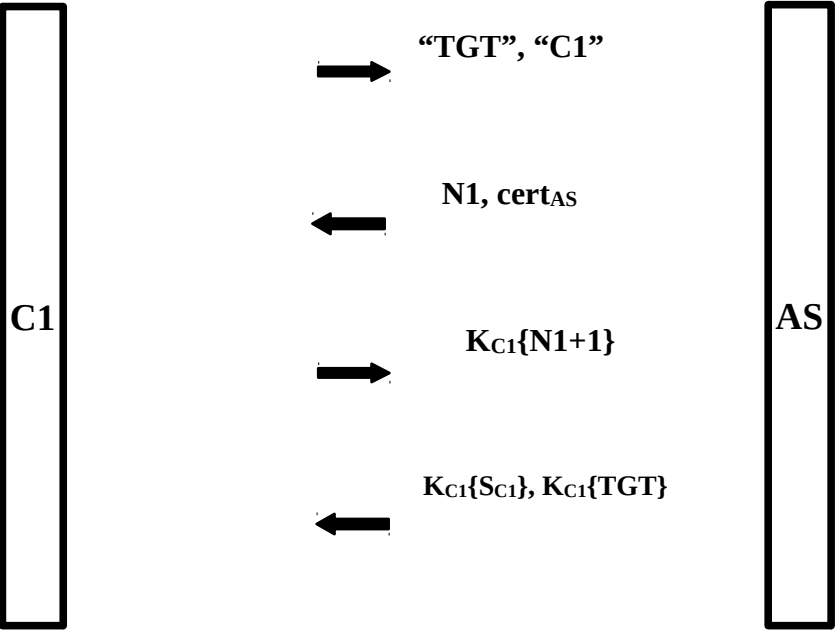
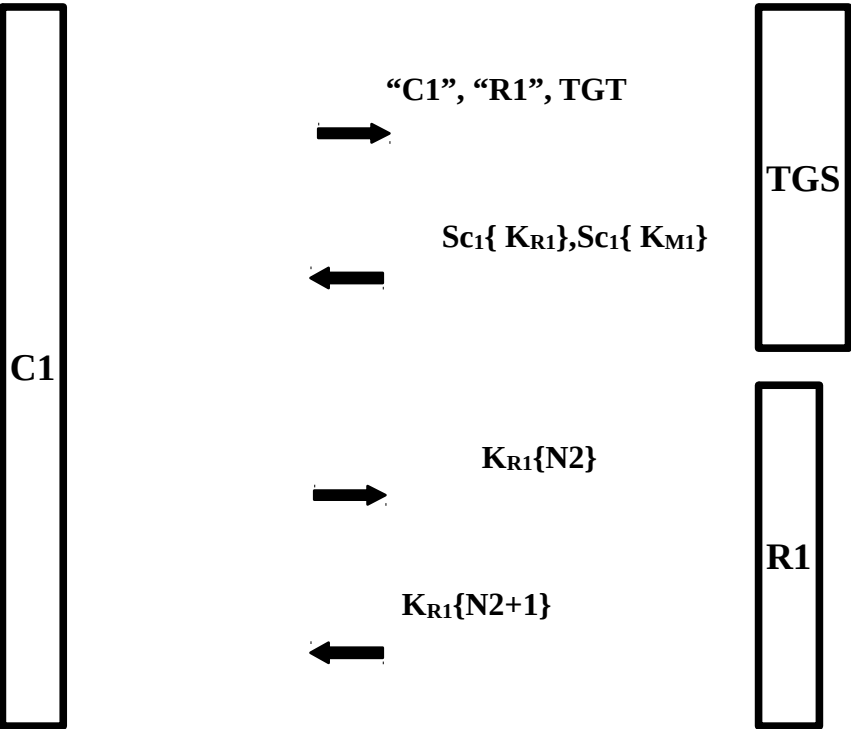


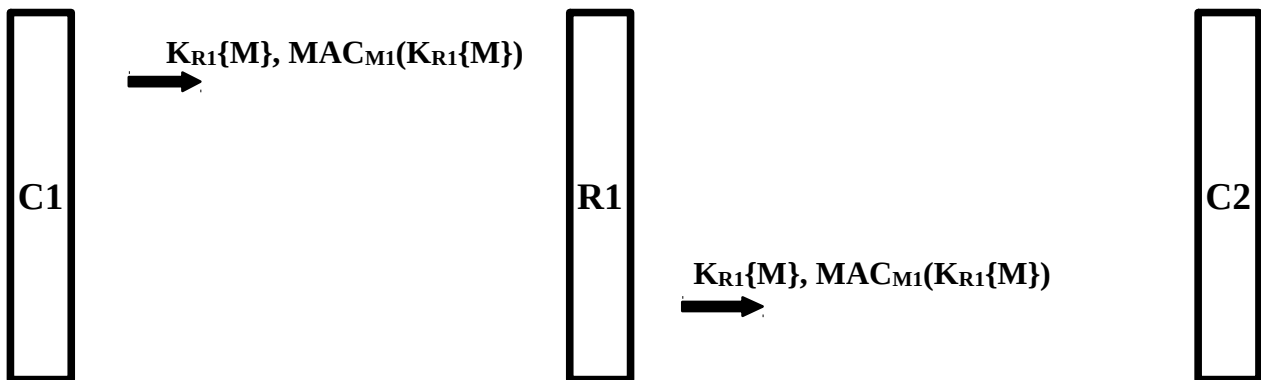
LOGIN PROTOCOL



CONNECTION PROTOCOL



COMMUNICATION PROTOCOL



KDC consists of AS and TGS. Initially, C1 has K_{C1} and public key of AS; AS has K_{C1} , K_{TGT} and its own public and private key as well as $cert_{AS}$; TGT has K_{TGT} , R1(room 1) has K_{R1} .

Every S_C is produced by the system, not by clients and the system produces these keys randomly. Therefore, our system prevents dictionary attacks.