

Alice

Server

Bob

Alice logs in with  
the server:

Sign{username, game port}

Certificate

Sign{received username}

Sign{DH key}

Sign{DH key}

GCM{... session msgs ...}

Alice and Bob  
start a game:

GCM{peer connection data, pre-shared nonce}

GCM{peer connection data, pre-shared nonce}

Sign{DH key, pre-shared nonce}

Sign{DH key, pre-shared nonce}

GCM{... session msgs ...}