Commercialization:

Elliptic curve cryptography can be used to establish a secure client authentication system. For example, if Bob is a server and Alice is a client computer, they would first agree upon setting curve parameters, prime and generator point, in order to obtain a larger subgroup. Once key sharing protocols have been initiated, a key will be generated. The server will store this key as an identity of the client, and the client will store it as a passkey to access the server. In this way, both parties will be able to identify each other every time the client wants service.