

1. Alice generates a

key pair, (PK_{A}, SK_{A})

7. Alice computes

8. Alice encrypts facial

 $M_2 = E(PK_B, F_A || T_A)$

12. Alice computes

the channel state

signal in step 6

Bob's location, L_p from

information obtained

from the transmission

14. Alice runs a facial

location L_{R} , to identify

16. Alice visually verifies

that the face selected by

the protocol is Bob's

faces adjacent to

Bob's face

 $F_{R} = D(SK_{\Delta}, M_{1})$

public key

new public key-private