The Role of Session, Goal and Environment

```
role session (ED,NAD: agent, SKus: symmetric_key)
def=
        local
                SND1,SND2,RCV1,RCV2: channel(dy)
        composition
        edge (ED, NAD, SKus, SND1, RCV1)
        /\  networkdevice (ED, NAD, SKus, SND2, RCV2)
end role

role environment()
def=
        const ed, nad: agent, skus: symmetric_key,
      h: hash_func, sp1,sp2, sp3, a, b, bprime, dj, cu: protocol_id
       intruder_knowledge = {ed, nad, h}
        composition
         session(ed, nad, skus)
        /\ session(i, nad, skus)
        /\ session(ed, i, skus)
end role
goal
      secrecy_of sp1, sp2, sp3
      authentication_on a,cu
      authentication_on b, bprime,dj
end goal
environment()
```