HLPSL Specification

```
role iso2_Init (B,A    : agent,
                Pks    : public_key,
                Snd,Rec: channel(dy))
played_by B
def=

  local  State    : nat,
         Pkiaid[I)1(on612T0422.91.(nit)-04nat)1(at)1(:)-=)1(:)-0,:atc54s20Strt5dy)1()1(,
```

```
local   State     : nat,
        Ra        : text,
        Rb, Text1 : text

init State := 0

transition

  1.  State = 0
      /\ Rec(Rb'.Text1')
      =|>
      State' := 2
      /\ Ra'  := new()
```

```
        pkb,pks,pki    : public_key

   intruder_knowledge={i,a,b,pks,pki,inv(pki),ctext1,ctext2,
                       {pki.i}_inv(pks)}

   composition

        session(a,b,pkb,pks)
     /\ session(a,i,pki,pks)
     /\ session(i,b,pkb,pks)

end role
```

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```
goal

   %ISO2_Init  authenticates ISO2_Resp on ra
   authentication_on ra

end goal
```

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```
environment()
```

References

[CJ]