```
--[ SessKeyC( IB, Kcib ) ]->
rule Register pk:
  [Fr(~ltkC)]
  -->
  [!Puk(C, ~ltkC), !Pubk(C, pk(~ltkC)), Out(pk(~ltkC))]
rule Reveal Itk:
  [ !Puk(C, ltkC) ] --[ LtkReveal(C) ]-> [Out(ltkC) ]
rule WD 1:
  let m1 = sign{'1', $IDwd, ~nwd}skWD
    [Fr(\sim nwd), !Pubk(\$IDC, pkC), !Sk(\$IDwd, skWD)]
  --[ OUT WD 1 (m1) ]->
    [Out (m1), WD 1(<$IDwd, ~nwd, sign{'1', $IDwd, ~nwd}skWD>, pkC)]
rule C 1:
  let m1 = sign\{'1', $IDc, \sim nc\}skC
  in
    [Fr(\sim nc), !Pubk(\$IDWD, pkWD), !Sk(\$IDc, skC)]
  --[ OUT C 1 (m1) ]->
    [ Out ( m1 ), C_1(<$IDc, ~nc, sign{'1', $IDc, ~nc}skC>, pkWD) ]
rule C 2:
 let m1 = aenc{<nc, IDc, sign{'1', IDc, nc}skC>}pk(ItkIB)
     m2 = aenc{<nc, ~nwd, $IDwd, Amt wd, POI wd, sign{'2', nc, ~nwd, $IDwd,
Amt wd, POI wd, TID wd\skib>\pkC
  in
    [!Pubk($IDwd, ItkWD), In (m1), !M data(Amt wd, POI wd, TID wd), !Sk($IDwd,
skib), !Pubk(IDc, pkC), Fr(~nwd)]
  --[IN WD 1_nc (nc, m1), OUT_WD_1 (m2), Running(IDc, $IDwd, <'init',nc, ~nwd,
Amt wd, POI wd, TID wd>)]->
    [Out (m2), WD 1(<$IDwd, IDc, nc, ~nwd, Amt_wd, POI_wd, TID_wd, sign{'2',
nc, ~nwd, $IDwd, Amt_wd, POI_wd, TID_wd}sklB>, pkC) ]
rule C 3:
 let m2 = aenc{<nc, nwd, IDwd, Amt wd, POI wd, TID wd>}pk(ltkC)
    m3 = aenc{<nwd, PI cib, nc, IDwd, Amt wd, POI wd, TID wd, sign{'3', nwd,
PI cib, nc, IDwd, Amt wd, POI wd, TID wd\skC>\pkIB
 in
   [ C_2(IDc, nc), !Pubk( C, ItkC), In ( m2 ), !C_data(PI_cib), !Sk(IDc, skC), !Pubk(IB,
pkIB) ]
 --[IN C 3 nwd( nwd, m2), OUT C 3( m3 ), Commit(IDc, IDwd, <'init', nc, nwd>),
Running(IDwd, IDc, <'resp', nc, nwd>)]->
   [Out (m3), Secret (IDc, IDwd, nwd), Secret (IDc, IDwd, nc)]
rule IB 1:
[!Ltk($IB, ~ItkIB)
, In( request )
```