Kiva Protocol + Transactions

Verifiable Credentials built on Hyperledger Aries Frameworks

https://kivaprotocol.com/

Kiva Identity System following the model of SSI

Citizen
Individual
etc

SL - NCRA
HN - RNP

Issuer

Bank
FSP

Holder
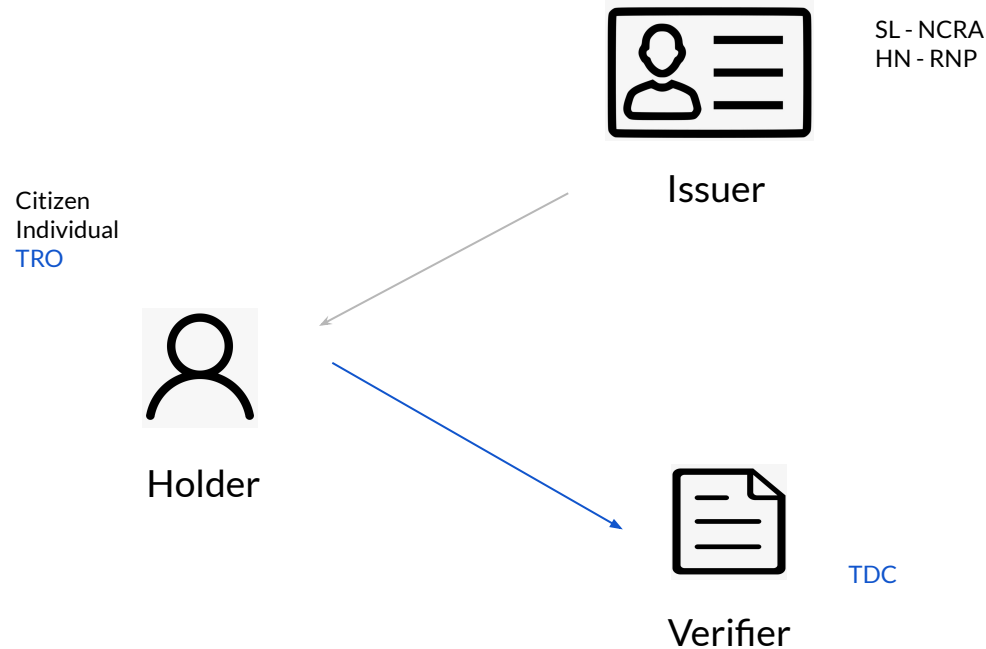
Verifier
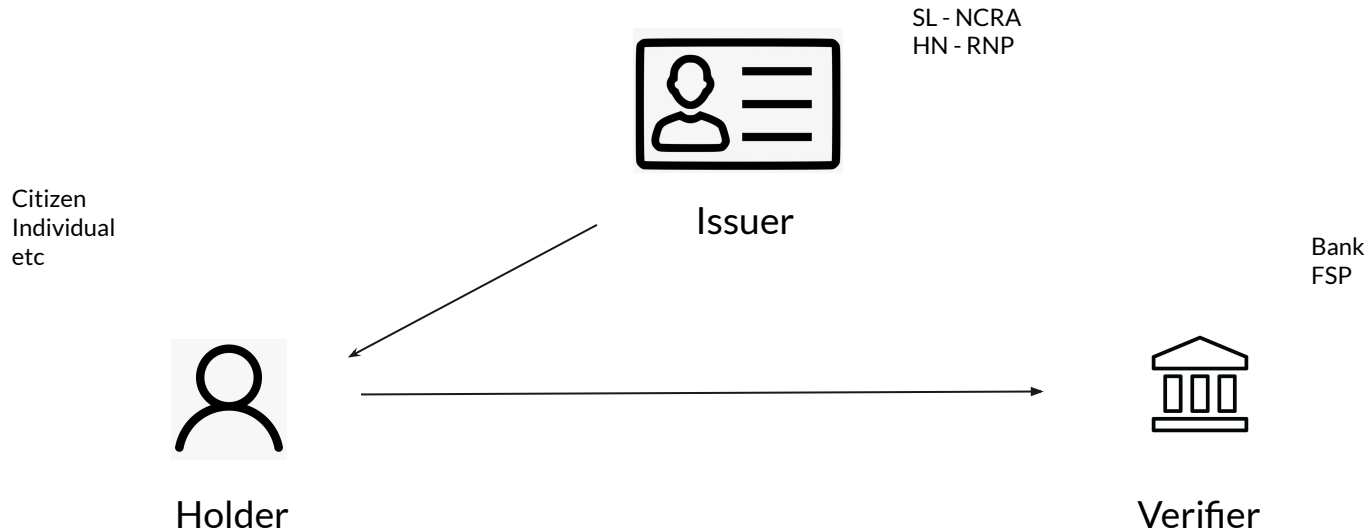
Kiva Protocol + Transactions

- Originated as "credit reporting system" varying from traditional systems where the holder is the citizen not a agency or company
- Modeled to support "any" transactional reporting (school credits, barter/exchanges, etc)
- Needed to protect the system from malicious actors both citizens (TRO) and FSPs
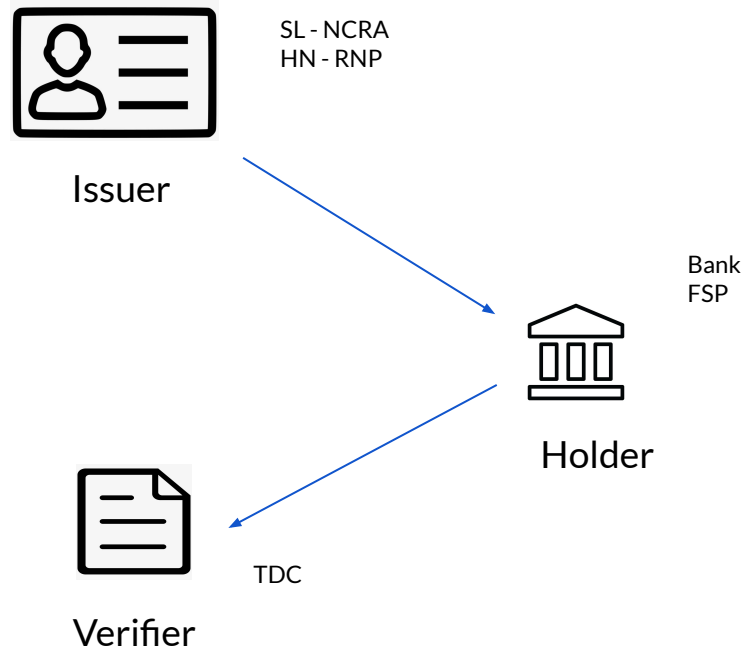- Needed to protect TRO from correlation, spying etc.. (facebook problem)

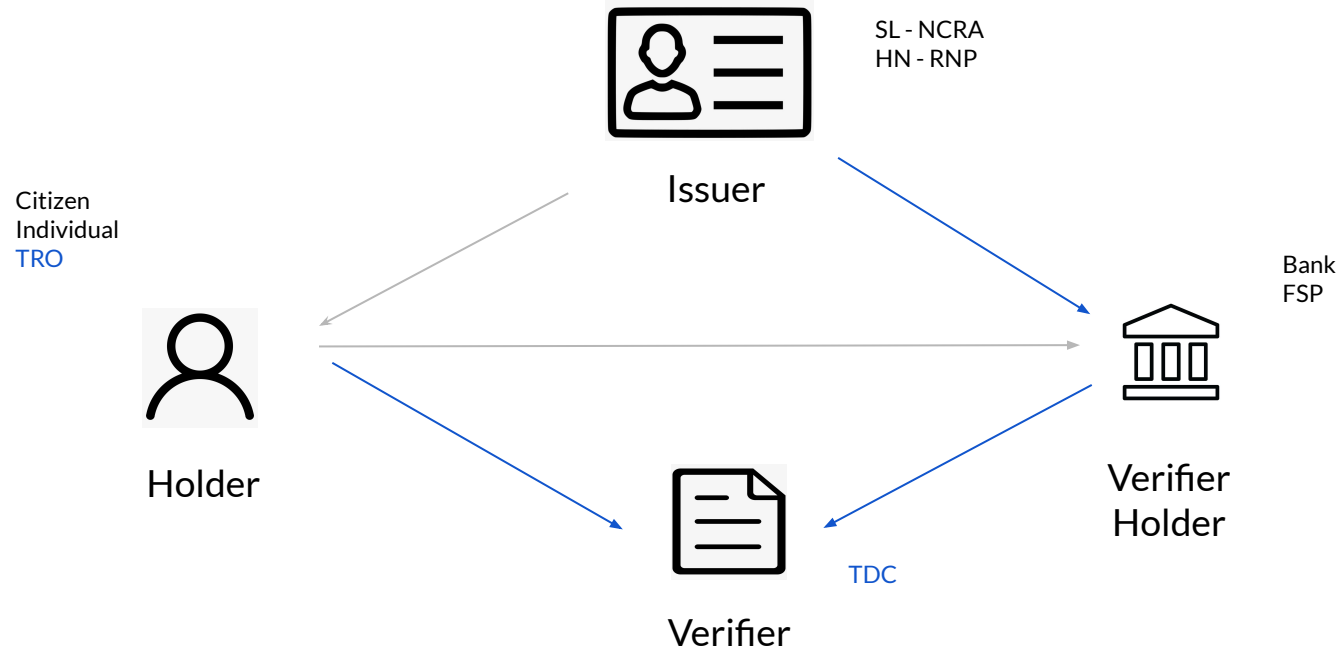# Kiva Protocol + Transactions

Part 1

Transcription System extended the model

Issuer

SL - NCRA
HN - RNP

Citizen
Individual
TRO

Holder

Verifier

TDC

Transaction System extended the model

SL - NCRA
HN - RNP

Issuer

Bank
FSP

Holder

TDC

Verifier

Transaction System extended the model

Issuer

SL - NCRA
HN - RNP

Citizen
Individual
TRO

Holder

Bank
FSP

Verifier
Holder

TDC

Verifier

Kiva Protocol + Transactions

Part 2

Transaction System added new behaviors

Citizen
Individual
TRO

External agreement process translate into credentials
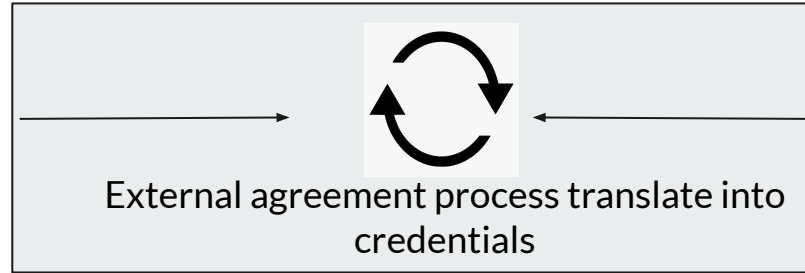
Bank
FSP

TDC

Issuer

Transaction System added new behaviors

2 - Transactions become credentials held by the TRO

1 - Actor with appropriate permissions initiates transactions on the behalf of the TRO
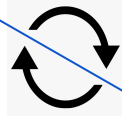
TRO Holder

TDC Issuer
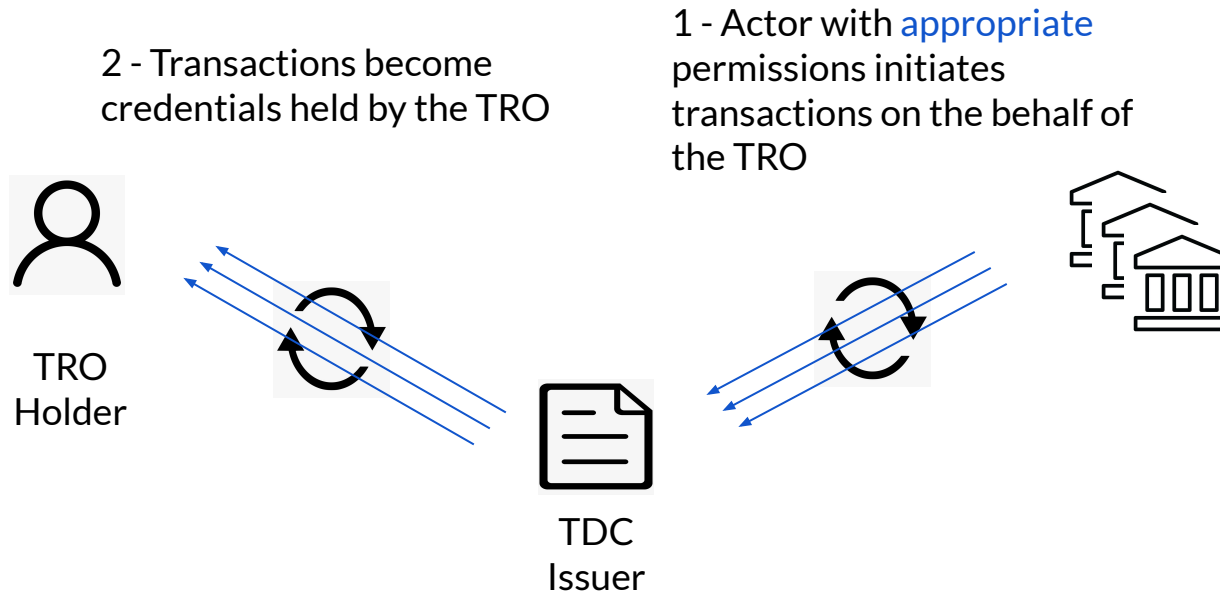
Transaction System added new behaviors

4 - TRO and TDC agree on the report generation

5 - TDC generates Proof

TRO

TDC

3 - An appropriate and different actor requests transaction report

Transaction System added new behaviors

0def8cf872dbd265fabcd6ed0fcd53b7fcb83256 payment 500 june 1
4344e7c4297d388e1f90840d340fd9a58a910b98 payment 500 july 1
51fda2c5a205fe146f9920f887006188db5a8271
80536c9064ac9f95803f46e4efdd0a5ec69f5dfd payment 500 august
1

Links

https://kivaprotocol.com/

https://github.com/kiva/protocol-aries-controllers