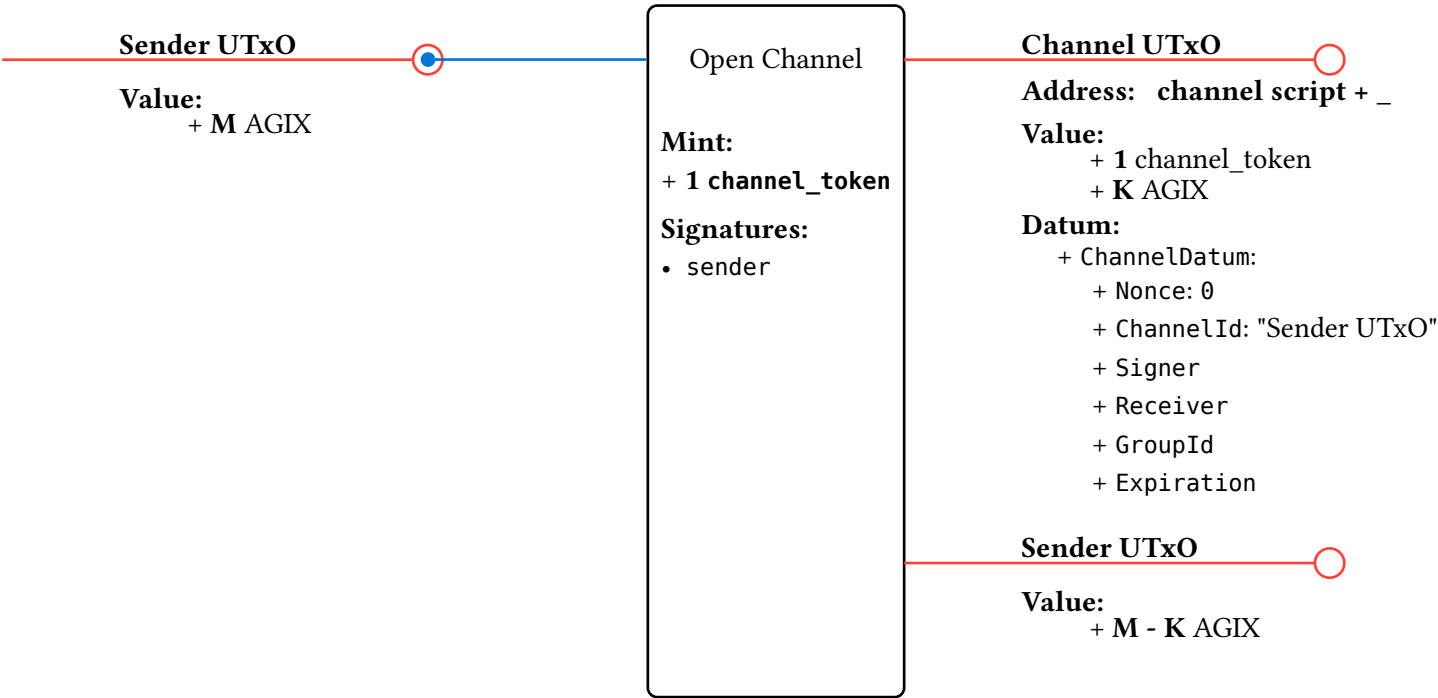


Open Channel



Note:

channel_token = "channel script" + "channel id"

Sender opens a channel with K AGIX

Extend and/or AddFunds Channel

Channel UTxO

Update

Address: channel script + _

Value:

- + 1 channel_token
- + M AGIX

Datum:

- + ChannelDatum:
- + Nonce
- + ChannelId
- + Signer
- + Receiver
- + GroupId
- + Expiration

Update Channel

Signatures:

- user

Channel UTxO

Address: channel script + _

Value:

- + 1 channel_token
- + M + K AGIX

Datum:

- + ChannelDatum:
- + Nonce
- + ChannelId
- + Signer
- + Receiver
- + GroupId
- + Expiration'

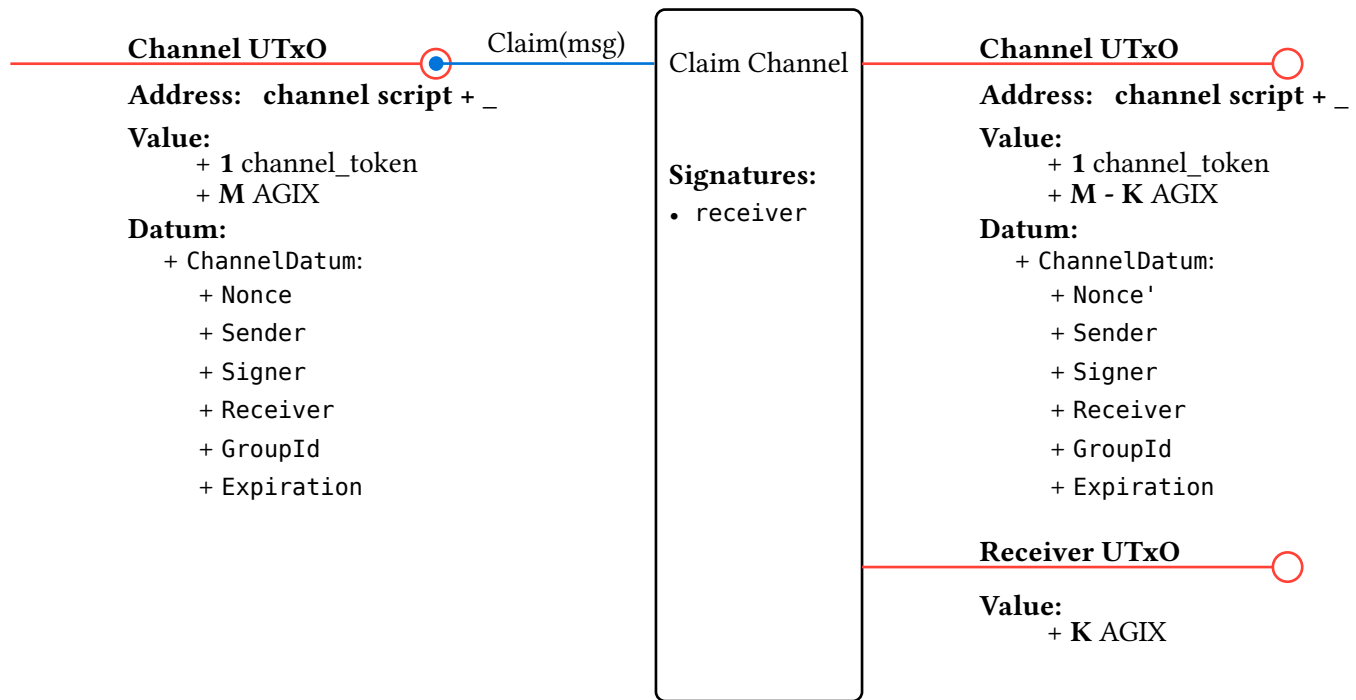
Note:

$\text{Expiration} \leq \text{Expiration}'$

$0 \leq K$

user must be sender when extending the channel

Claim Channel



Note:

msg is signed by the signer

Nonce' = Nonce + 1

Close Channel

