SATP - STAGE 0

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Stage 0 flow diagram

1: requestTransferContext

2: transferContext

3: bind([assetIDs], transferContext)

4: propagateTransferContext(transferContext)

5: beginTransfer(transactionContext)

5: bind([], transferContext)

7: propagateTransferContext(transferContext)

8: bindGatewayToTransactionContext(gateway2ID, transactionContext)

SATP
SATP state at the end of Stage 0

Egress side (GW1):

• The Originator Application (a.k.a. Client App A1, a.k.a. Alice) has obtained a “transfer context”, i.e. information that unambiguously defines a specific asset transfer instance related to sending a well-defined set of assets from a given Originator to a given Beneficiary

• Network 1 (a.k.a. State Data DB1) is aware that this well-defined set of managed assets (owned by the originator) is going to be transferred for the given transfer context, and this at any moment in the future, based on GW1 own initiative.

• GW1 is bound to GW2 for the given transfer context

Ingress side (GW2):

• The Beneficiary Application (a.k.a. Client App A2, a.k.a. Bob) knows that it will receive a well-defined set of assets for the given transfer context

• Network 2 (a.k.a. State Data DB2) is aware that assets will be received for a given beneficiary for the given transfer context

• GW2 is bound to GW1 for the given transfer context
transfer context example

{
    "transferContextID": "did:gateway:tz:tz1aaYoabvj2DQtpHz74Z83fSNjY29asdBfZ/12345678",
    "transferCompletionState": "active",
    "activeSessionID": "did:gateway:tz:tz1aaYoabvj2DQtpHz74Z83fSNjY29asdBfZ/12345678/3",
    "sessionHistory": [ "did:gateway:tz:tz1aaYoabvj2DQtpHz74Z83fSNjY29asdBfZ/12345678/1",
                        "did:gateway:tz:tz1aaYoabvj2DQtpHz74Z83fSNjY29asdBfZ/12345678/2" ],
    "egress": {
        "gw1ID": "did:gateway:tz:tz1aaYoabvj2DQtpHz74Z83fSNjY29asdBfZ",
        "nw1ID": "tezos:NetXdQprcVkpaWU",
        "assets": [{
            "assetID": "tezos:NetXdQprcVkpaWU/tzip16:tz1YWk1gDPQx9N1Jh4JnmVre7xN6xhGGM4uC/1",
            "assetStateExpiration": "2023-07-26T20:20:39+00:00"
        }]
    },
    "ingress": {
        "gw2ID": "did:gateway:ethr:0xf3beac30c498d9e26865f34fca57dbb935b0d74",
        "nw2ID": "eip155:1",
        "assets": [{
            "assetID": "eip155:1/erc721:0x06012c8cf97BEaD5deAe237070F9587f8E7A266d/771769",
            "assetStateExpiration": "2023-07-26T20:20:39+00:00"
        }]
    }
}