



ANASTASIA LABS

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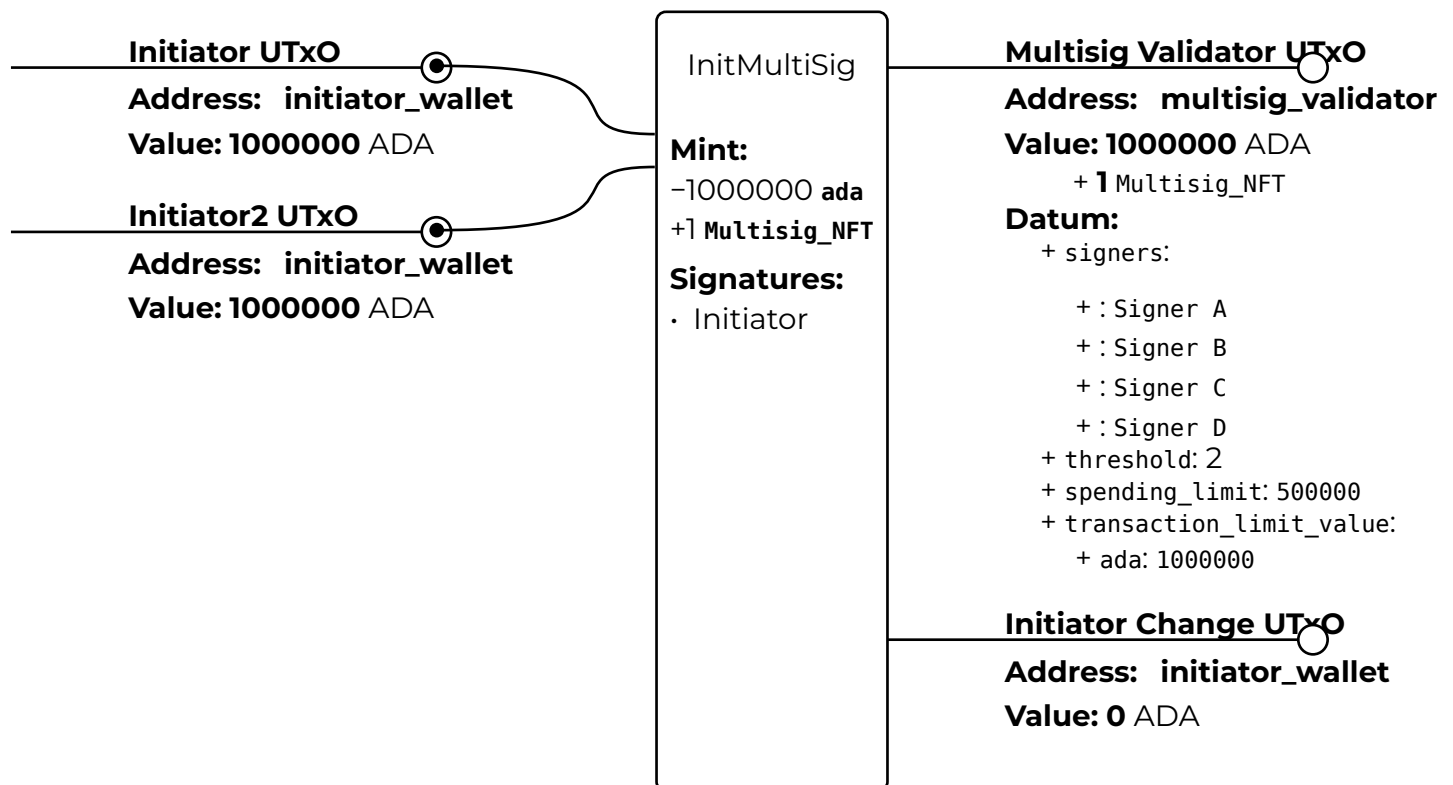
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1. Transactions

This section outlines the various transactions involved in the Upgradable Multi-Signature Contract on the Cardano blockchain.

1.1. Mint :: InitMultiSig

This transaction initializes the multi-sig contract by minting the Multisig NFT and setting up the initial configuration.



Note: Initiate MultiSig Transaction

1.1.1. Inputs

1. Initiator Wallet UTxO

- Address: Initiator's wallet address
- Value:

- Minimum ADA required
- Any additional ADA required for the transaction

1.1.2. Mints

1. Multi-Sig Validator

- Redeemer: InitMultiSig
- Value:
 - +1 Multisig NFT Asset

1.1.3. Outputs

1. Multi-Sig Validator UTxO

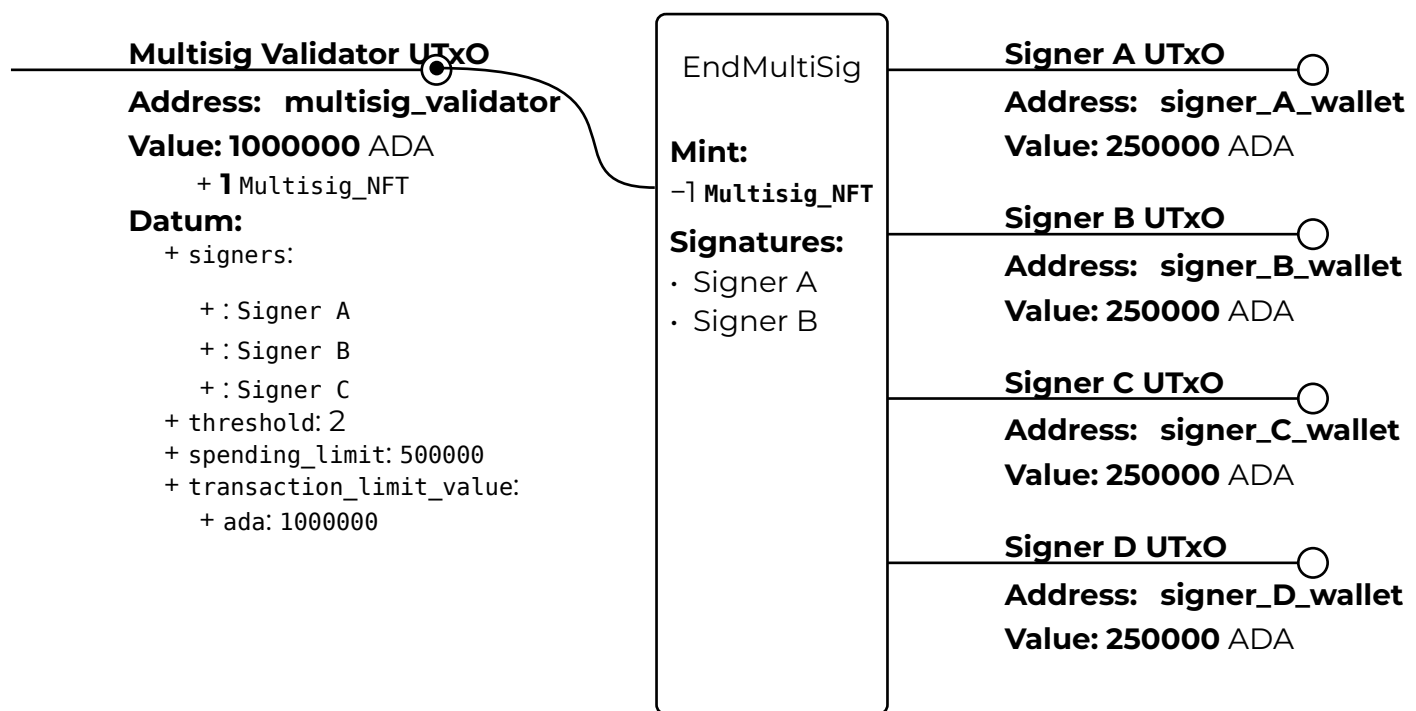
- Address: Multi-Sig Validator script address
- Datum:
 - signers: 4.
 - threshold: 2.
 - spending_limit: 500,000 ADA.
 - transaction_limit_value: Asset class and quantity defining the limit for transactions.
- Value:
 - Minimum ADA required
 - 1 Multisig NFT Asset

1. Initiator Change UTxO (optional)

- Address: Initiator's wallet address
- Value:
 - Remaining ADA after transaction fees

1.2. Mint :: EndMultiSig

This transaction terminates the multi-sig contract by burning the Multisig NFT and distributing the remaining funds.



Note: End MultiSig Transaction

1.2.1. Inputs

1. Multi-Sig Validator UTxO

- Address: Multi-Sig Validator script address
- Datum:
 - Current multi-sig configuration
- Value:
 - Minimum ADA

- 1 Multisig NFT Asset
- Any remaining funds managed by the contract

2. **Signers' Signatures**

Required number of signers (as per threshold) must sign the transaction.

1.2.2. Mints

1. **Multi-Sig Validator**

- Redeemer: EndMultiSig
- Value:
- -1 Multisig NFT Asset (burning the NFT)

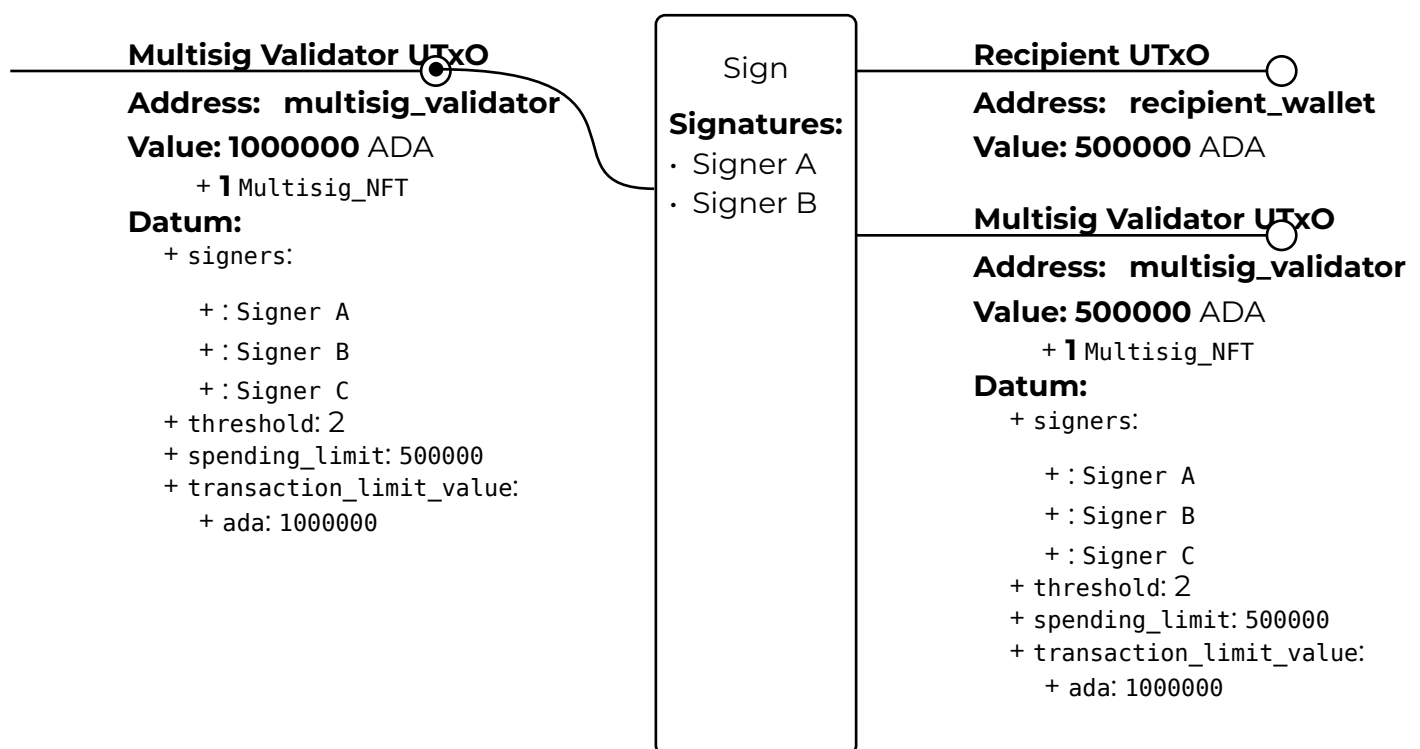
1.2.3. Outputs

1. Distribution UTxOs

- Funds are distributed to the appropriate addresses as per the termination plan.
- Value:
 - ADA and other assets as needed

1.3. Spend :: Sign

This transaction ensures that the number of signers meets or exceeds the specified threshold and The datum of the Multisig remains the same.



Note: Sign Transaction

1.3.0.1. Inputs

1. Multisig Validator UTxO

- Address: Multisig validator script address
- Datum:
 - signers
 - threshold
 - funds

- spending_limit

.

- Value:
 - ADA + Any tokens
 - Locked Value

1.3.0.2. Outputs

1. Recipient Wallet UTxO

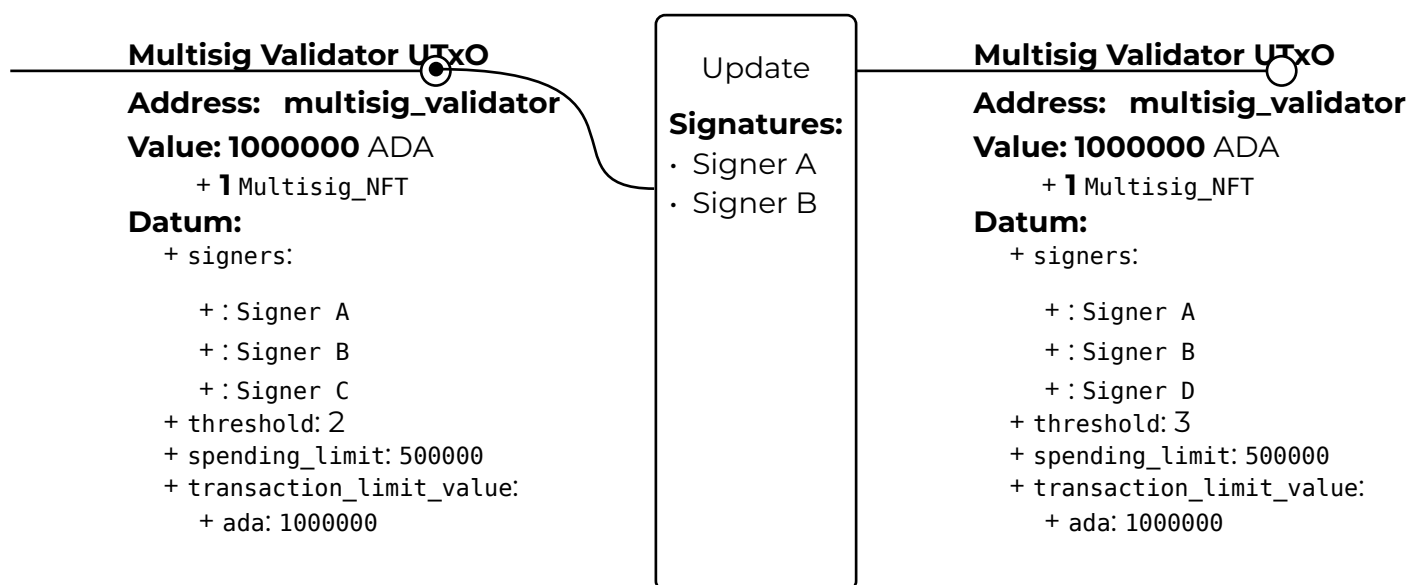
- Address: Recipient wallet address
 - Transferred ADA/tokens

2. Multisig Validator UTxO:

- Address: Multisig validator script address
- Datum:
 - signers
 - threshold
 - funds
 - spending_limit
- Value:
 - Remaining ADA + Remaining tokens

1.3.1. Spend :: Update

Allows for the addition or removal of members from the Multisig arrangement, and updates the required signers threshold.



Note: Update Multisig Configuration

1.3.1.1. Inputs

1. Multisig Validator UTxO

- Address: Multisig validator script address
- Datum:
 - old_signers
 - old_threshold
 - funds
 - old_spending_limit
- Value:
 - X ADA + Any tokens

1.3.1.2. Outputs

1. Multisig Wallet UTxO

- Address: Merchant wallet address
- Datum:
 - new_signers
 - new_threshold
 - funds
 - new_spending_limit
- Value:
 - X ADA + Any tokens (unchanged)