

Casper Labs ERC-20 Token Standard

Use Case

Capital Raise via “ICO”

Use Case

Actors

Founders

Investors

Advisors

Community

Workflow

- **Step 0: Seed on-chain account(s)**
- **Step 1: Compile contract**
- **Step 2: Install contract**
- **Step 3: Distribute tokens**
- **Step 4: Set allowances**
- **Step 5: Token transfers**

Step 1

Compile Contract

- <https://github.com/casper-ecosystem/erc20>
- Clone repo & compile WASM binary
- To setup tool chain -> `make prepare`
- To compile -> `make build-contract`

Step 2

Install Contract

- Upload WASM binary under an account
- Set token attributes:
 - symbol, name, initial-supply, decimal places
- Observe account's `named-keys`
- Note on-chain contract-hash for later

Step 3

Distribute Tokens

- **Contract owner allocates tokens -> users**
- **Contract constrains allocation \leq initial supply**
- **User token balance is managed by contract**
- **To view balances issue a chain query**

Step 4

Set Allowances

- **To transfer each user requests an allowance**
- **User transfer limit == allowance**
- **Contract enforces allowances**
- **To view allowances issue a chain query**

Step 5

Token Transfers

- **Transfers are initiated by users**
- **Transfers are subject to allowance checks**
- **To view transfer history issue a chain query**

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