



EuroToken

A Stable Digital Euro Based on TrustChain

by

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Preface

TODO: Add preface

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Libra bad, CBDC better.

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- CBDC - Central Bank Digital Currency

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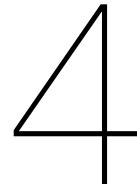
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Implementation

The implementation of the stablecoin system consists of 2 code bases: the wallet Android app, and the gateway REST API. A web front end for the rest API has also been created.

4.1. Gateway (Central Bank API)

The only way tokens are created is when a central bank creates them. In our implementation this only happens when a user has transferred an equal amount of euro into the central bank account.

The gateway is responsible for the exchange of euro for tokens and vice versa. This involves taking payments in both tokens and euros, and payments in both currencies.

4.1.1. Bank integration

When a user wants to convert a euro to a stablecoin token, a transaction is initiated with the gateway API.

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6.1. System dangers

6.1.1. Under-collateralization

Causes:

- By central bank printing without collateral
- Licenced gateway banks going bust, taking collateral with them

Effects:

Future bank runs could leave some token holders without their collateral, this makes token holders less confident in tokens. This would lower their value, but the direct exchange peg maintains the price. This hides the problem while undermining trust in the value of the tokens.

Solution:

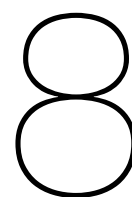
- Don't print without collateral.
- Short term:
 - Keep collateral liquid at all times (also stops inflation)
- long term:
 - see system future

6.2. System future

- euros are deleted by banks on euro2token exchange, and created on token2euro exchange.
- Banks don't manage the collateral, only the CBDC exchange.
- Banks get a place in trust instead of investment.

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Conclusion



Related Work