

SMART Contracts

- Hyperledger
 - Tienda Contract (products and invoices)
 - Token ERC20 contract
- MATIC (or other ethereum network)
 - Deposit contract

Front and APIs

- Front connected to metamask
- Secured connexion with token to APIs
- Control of the user doing transactions on hyperledger blockchain

Bridge

- All MATIC deposits are linked to an address and nonce
- Address and nonce are verified to credit stable coin
- Stable coins to be reimbursed are linked to user and nonce
- User and nonce are verified before paying back MATIC
- Commission is taken on withdrawals
- There's a conversion rate in chaincode

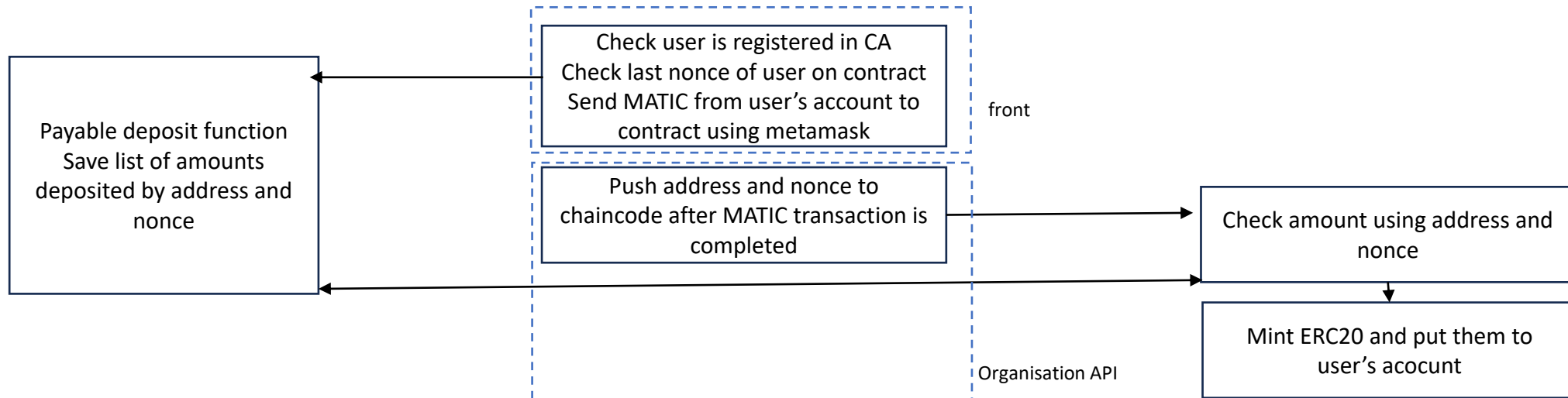
Bridge

MATIC contract

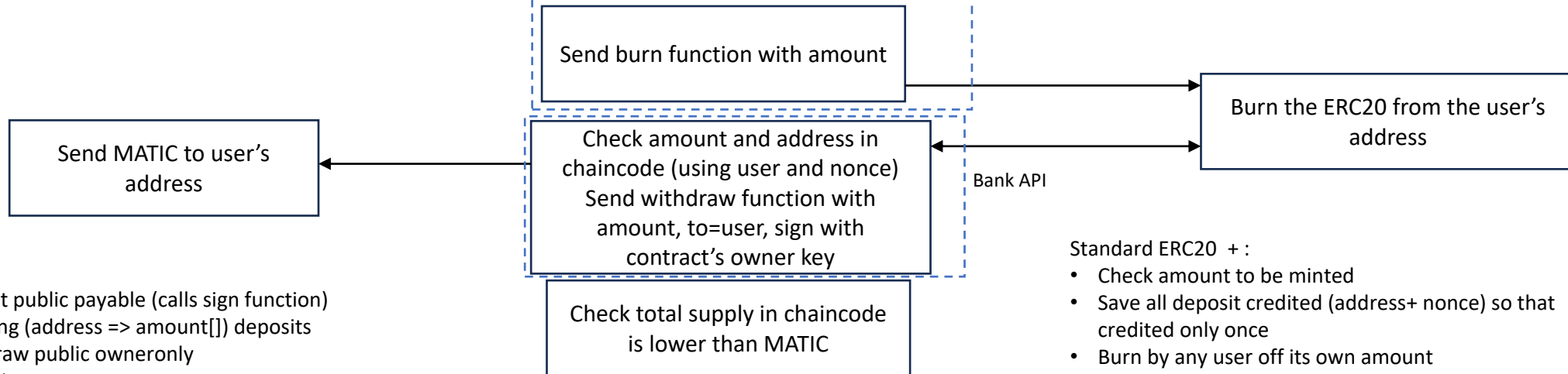
APIs

chaincode

Deposit



Withdraw



Functions :

- Deposit public payable (calls sign function)
- Mapping (address => amount[]) deposits
- Withdraw public owneronly
- Fallback

Standard ERC20 + :

- Check amount to be minted
- Save all deposit credited (address+ nonce) so that credited only once
- Burn by any user off its own amount

Total amount on the contract, no need to follow each user's amount