BOLT: Booster of Ledger Technology

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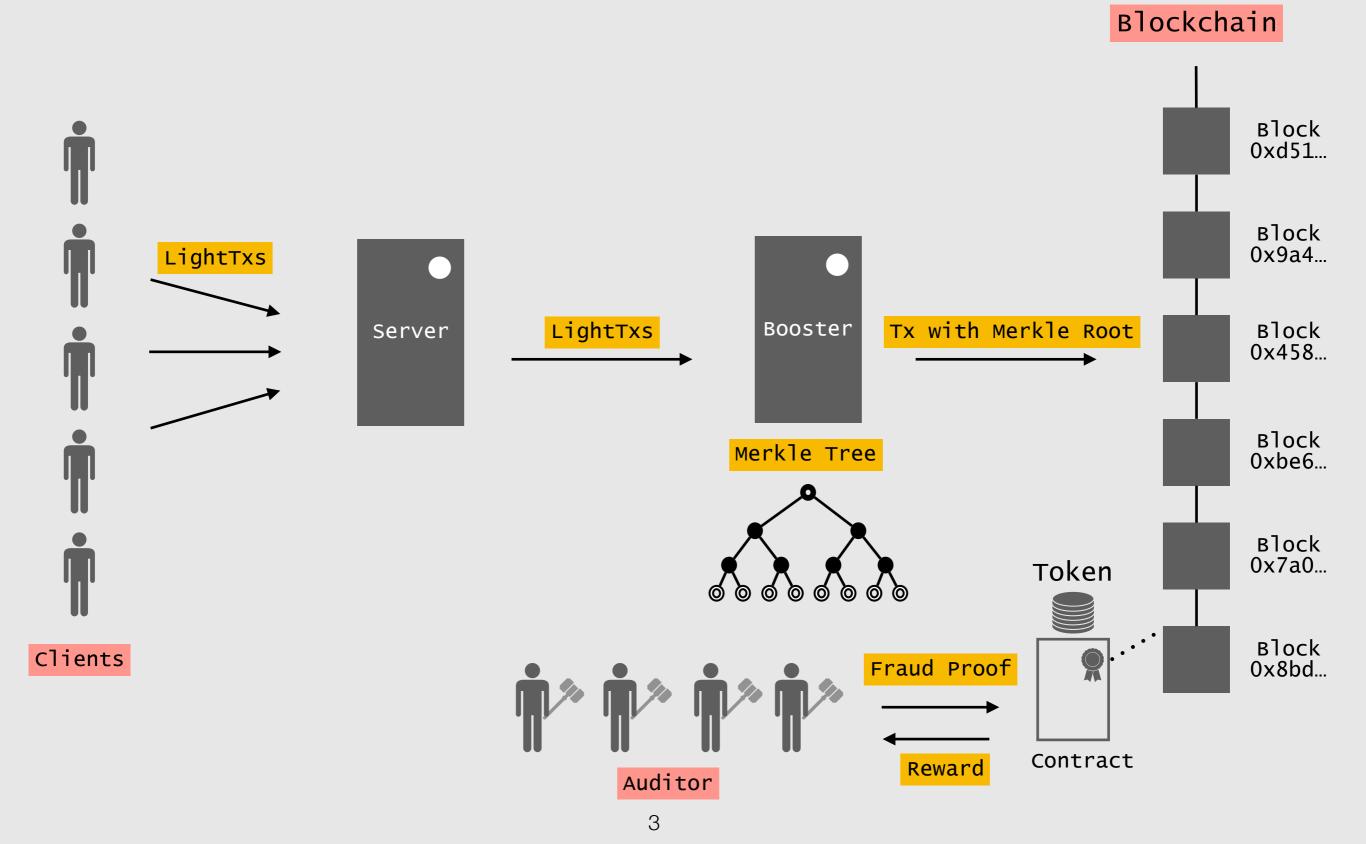


BOLT.infinitechain.io

Outline

- ▶ Overview
- ▶ Is BOLT Secure?
- ▶ Game, Court and Fraud Proof
- ▶ Architecture
- ▶ Protocol
- ▶ Demo

Architecture: Concept

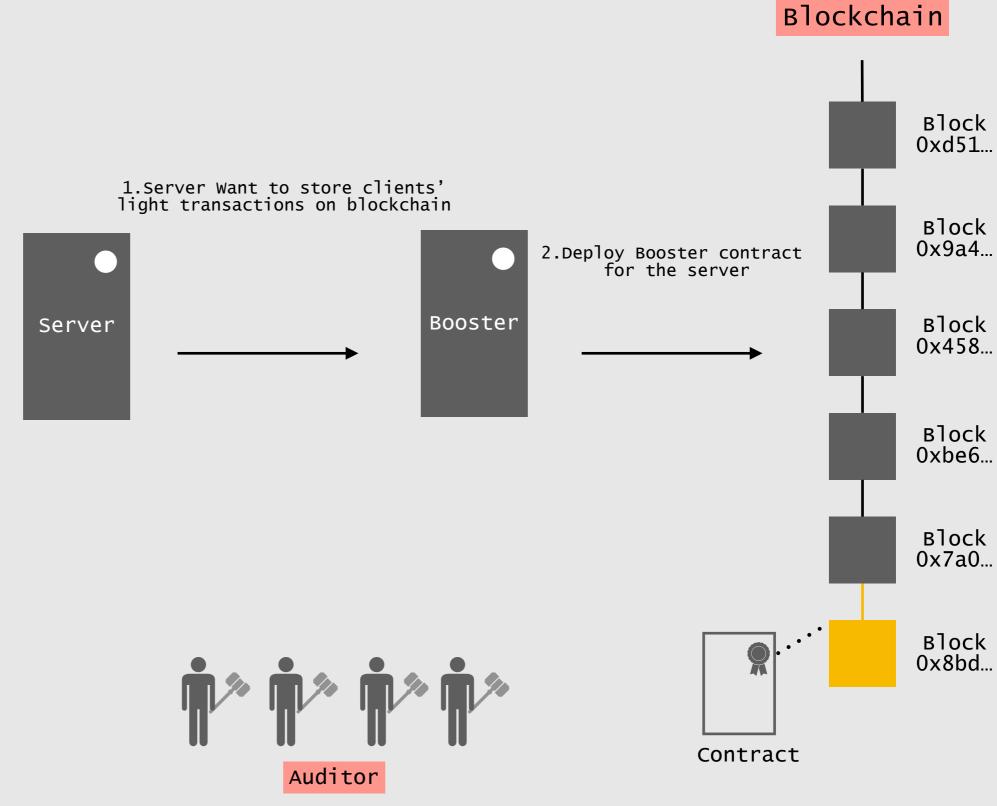


Architecture: Light Transaction

Light Transaction Type:

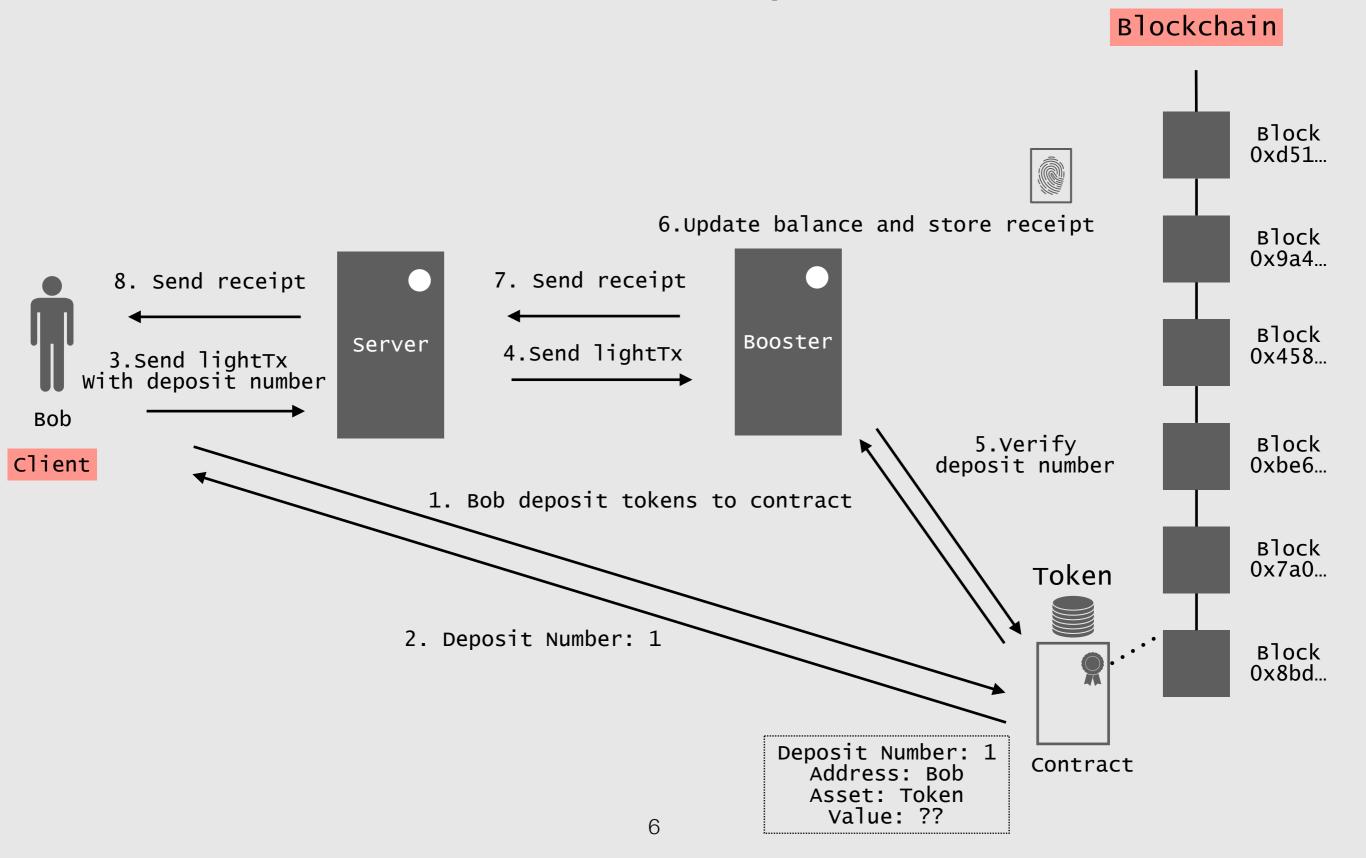
- ▶ Deposit
- ▶ Remittance
- ▶ Withdrawal

Protocol: 0

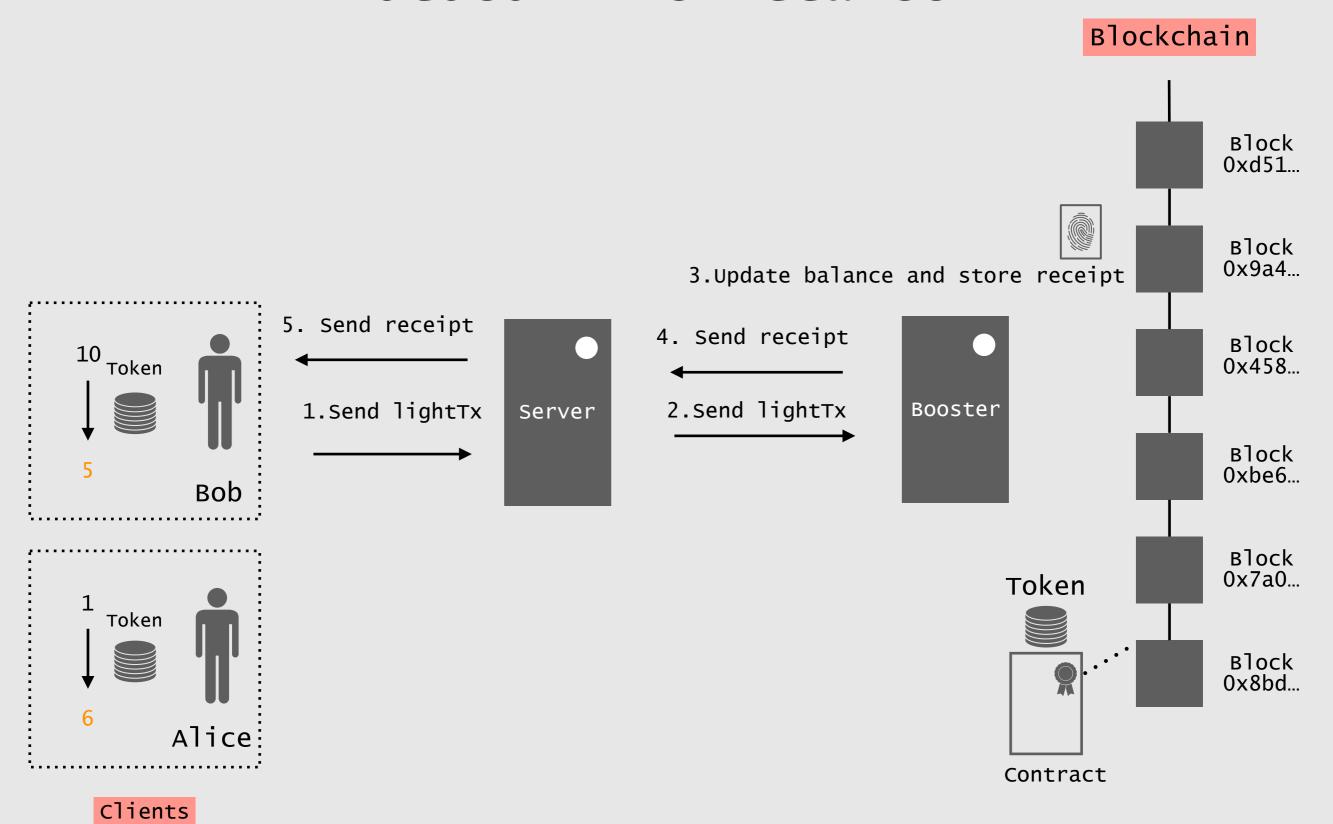




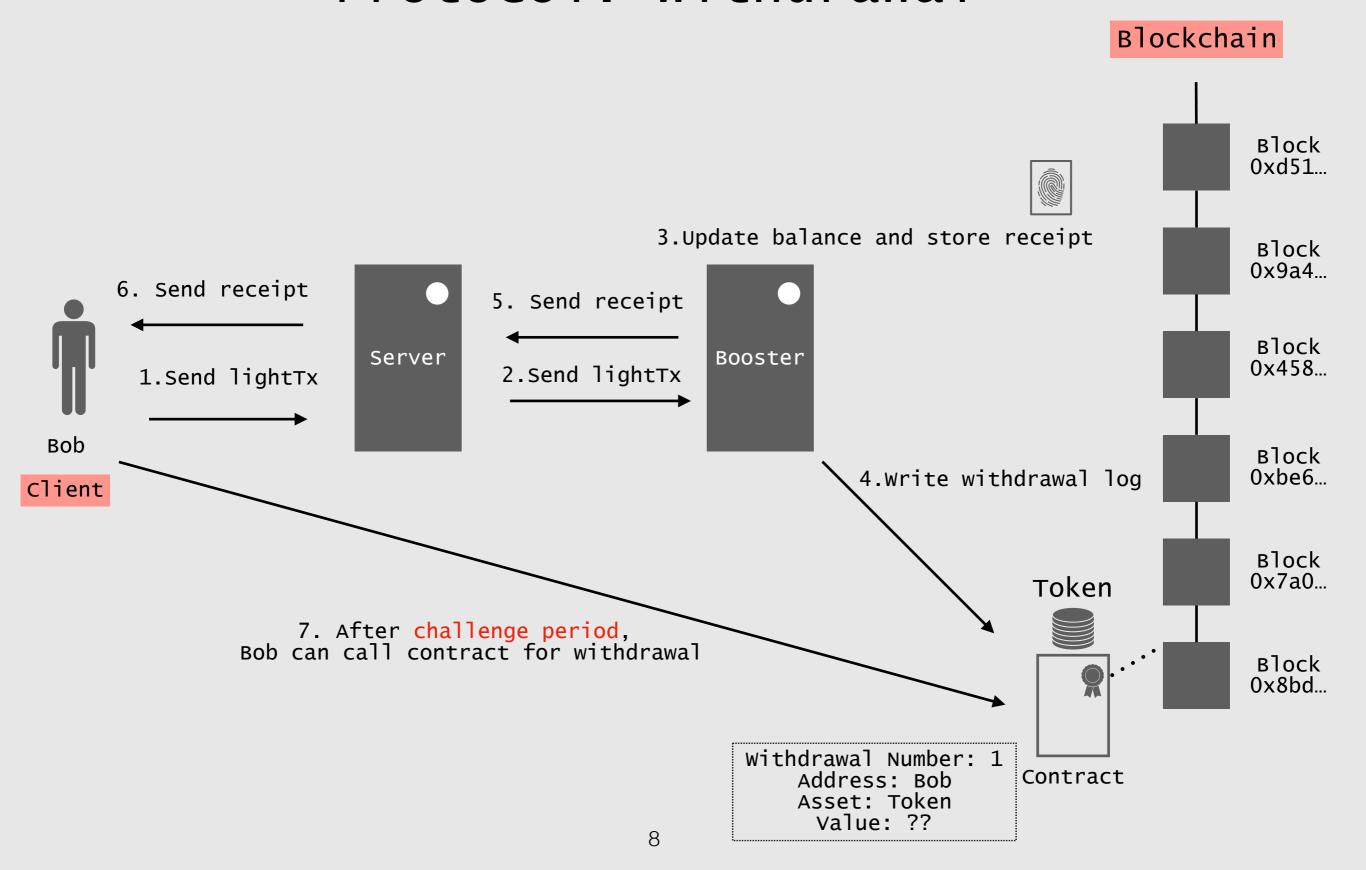
Protocol: Deposit



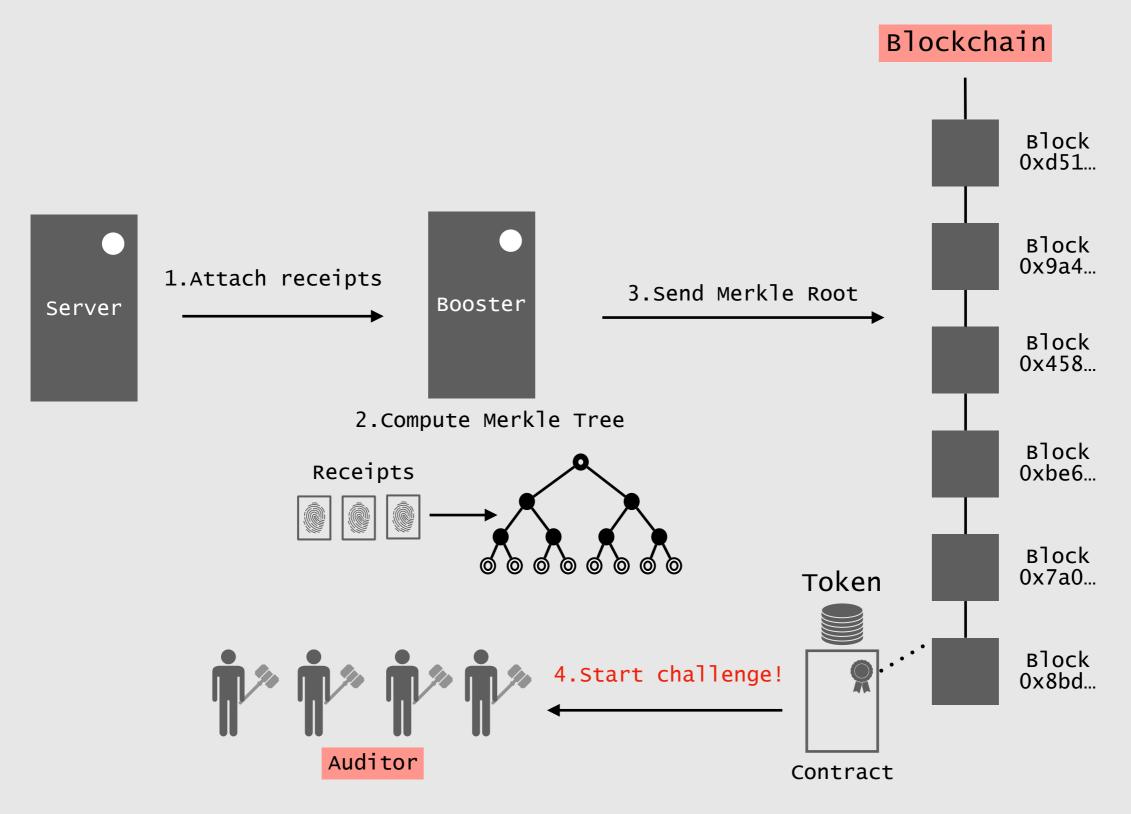
Protocol: Remittance



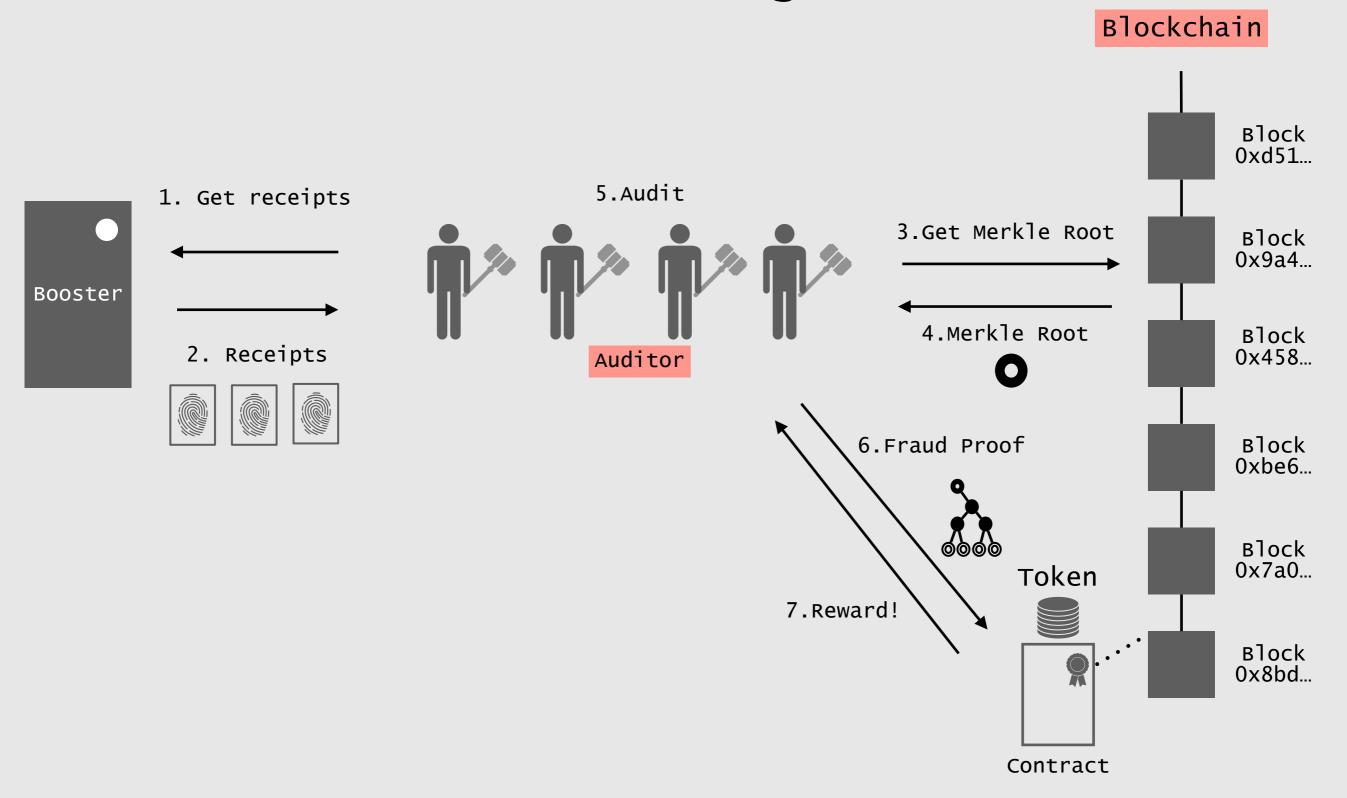
Protocol: Withdrawal



Protocol: Challenge Start



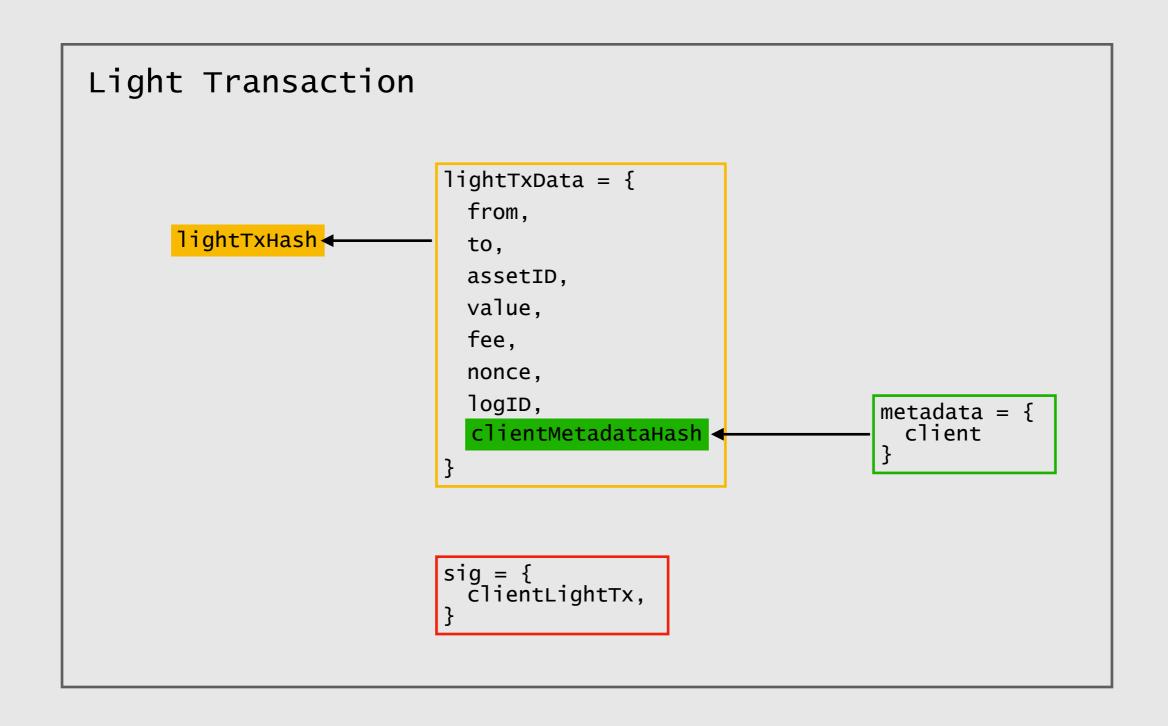
Protocol: Challenge Period



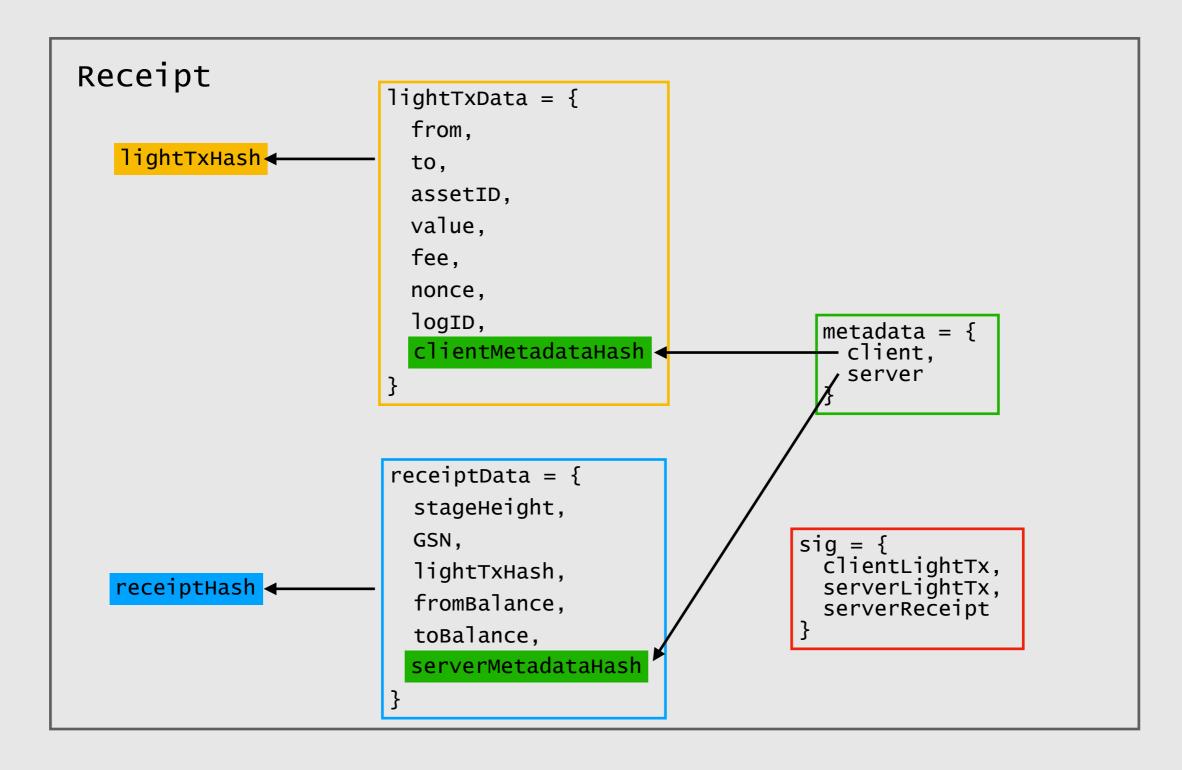
Protocol: Fraud Type

- 1. Proof of existence
- 2. Repeated GSN
- 3. Skipped GSN
- 4. Wrong balance status

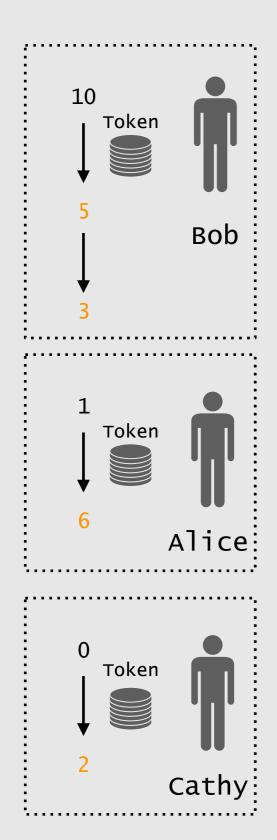
Data Model: Light Transaction

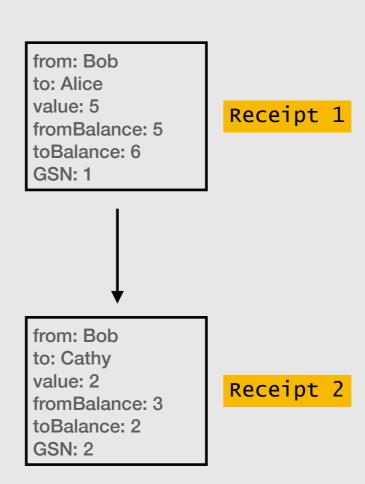


Data Model: Receipt

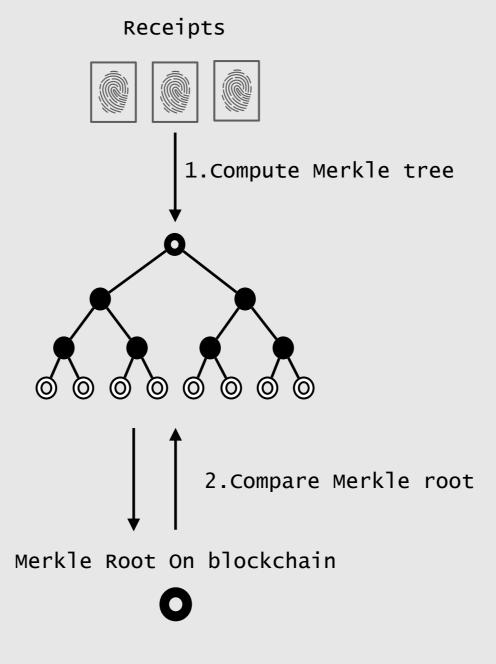


Protocol: Receipt State Change

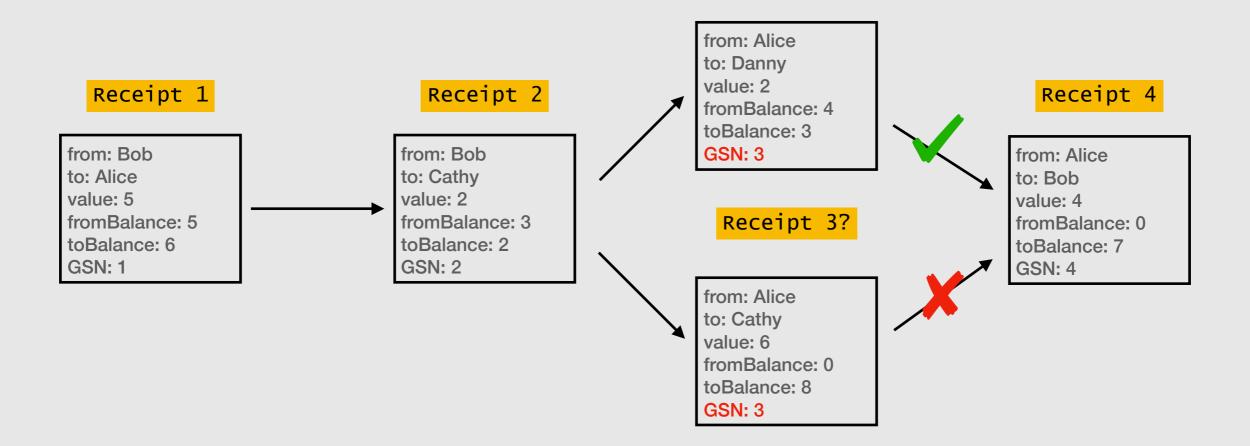




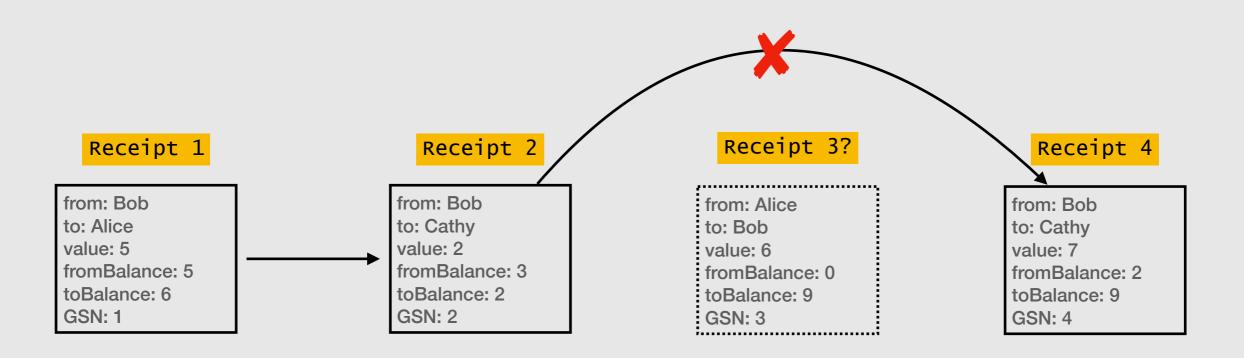
Fraud Proof: Proof of existence



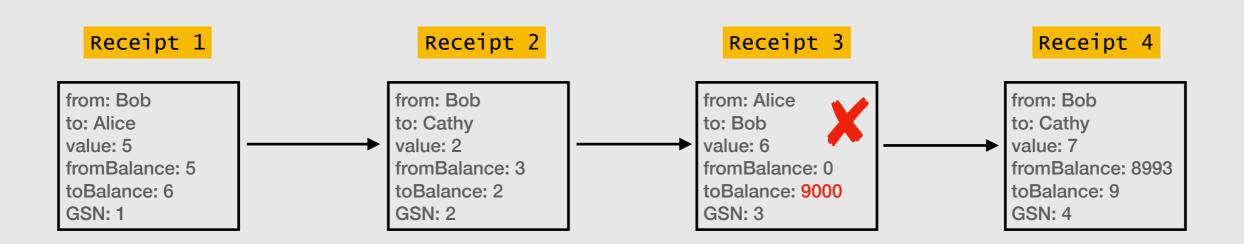
Fraud Proof: Repeated GSN



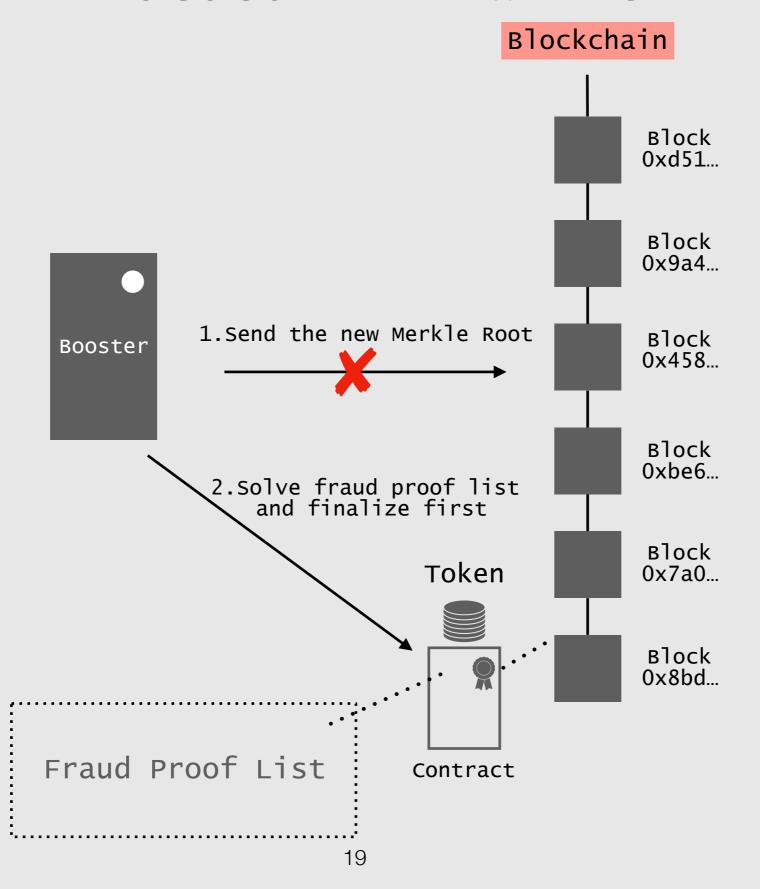
Fraud Proof: Skipped GSN



Fraud Proof: Wrong Balance Status



Protocol: Finalize



Protocol: Force Withdraw

