Incentivizing Payment Channel Watchtowers

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Original Watchtowers

Privacy

TXID: 51b78168d94ec307e2855697209275d4
identifier

77e05d8647caf29cb9e38fb6a4661145
key
Original Watchtowers

Privacy

TXID: 51b78168d94ec307e2855697209275d4

identifier

17jFkgpNLbDEYGqjbmn6JWUYVAszLbr0dp

1JGR17sPd8TPkdxJxbHPC117cPFV1AYixVG
3MWSbWlgsP9378DeorPQnTkyGjY3WPl6f

2018-09-27 14:38:30

4.45825827 BTC
0.00390679 BTC

4.46216506 BTC

77e05d8647caf29cb9e38fb6a4661145

key

Watchtowers
Original Watchtowers

Privacy

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identifier

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key

Watchtowers
Original Watchtowers

Overhead

- storage
- lookup time

Altruism

why participate?
Free Market
- Security
- Incentives
- Overhead
- Privacy
- Security
- Incentives
- Overhead
- Privacy
- Security
- Incentives
- Overhead
- Privacy
enforce who gets the reward by protocol design!
Phase 1: Disclose & Cascade
Phase 2: Watch & Commit
The DCWC Protocol

- Security
- Incentives
- Overhead
- Privacy
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No forks or changes in Lightning!
● Incentive for participation

● More privacy

● Lower overhead
What if there are no frauds?
What if there are no frauds?

Premiums!
Cheating Watchtowers?
What if there are no frauds?

work in progress...
Incentive for participation

More privacy

Lower overhead
● Incentive for participation

● More privacy

● Lower overhead
Incentivizing Watchtowers

Work in progress...
Thank you!

Questions?