Taler Systems S.A.

Taxable Anonymous Libre Electronic Reserves

Christian Grothoff & Leon Schumacher

Independent One-Click Payments

March 7, 2017

"I think one of the big things that we need to do, is we need to get a way from true-name payments on the Internet. The credit card payment system is one of the worst things that happened for the user, in terms of being able to divorce their access from their identity."

-Edward Snowden, IETF 93 (2015)

Agenda

- 1. What is Taler?
- 2. The Market
- 3. About Us
- 4. The Plan
- 5. Supplemental Materials
- 6. Financials



3D Secure





3D Secure







3D Secure







3D Secure

















The Future of Payments

AML, KYC Investor presentation — Taler Systems S.A. — March 7, 2017— Page 6



3D Secure

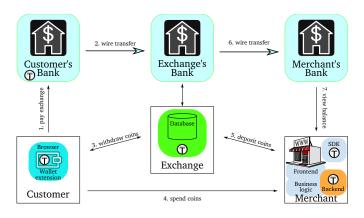






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2. What is Taler?



⇒ Convenient, taxable, privacy-enhancing, & resource friendly!

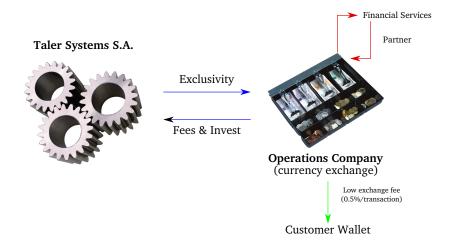
Advantages of Taler

- All operations provide cryptographically secured, mathematical proofs for courts & auditors
- Customer can remain anonymous
 - retain civil liberties in increasingly cash-less world
 - eliminates costly customer authentication
 - no credit card number theft possible
 - merchants do not need to operate certified equipment (PCI DSS, etc.)
 - unlike Chaum, Taler can give change and refunds, even to anonymous customers
- Merchants are identifiable
 - bad for illegal business
 - no tax evasion

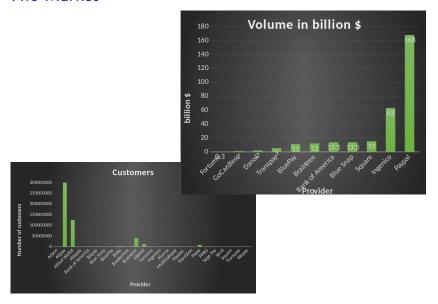
Advantages of Taler

- Payments in existing currencies, does not introduce any new currency
 - financial stability, no risks from currency fluctuation
 - payment system, not speculative investment
- Scalable, fast protocol implementation
 - low transaction costs (at least in terms of computation at high volume)
- Open standard protocol without patents with free reference implementations
 - low barrier to entry for new merchants
 - governments may adopt as part of digital sovereignity agenda

3. Operating Model



4. The Market



5. Competitor comparison

	Cash	Bitcoin	Zerocoin	Creditcard	GNU Taler
Online		++	++	+	+++
Offline	+++			+	
Trans. cost	+			_	++
Speed	+			0	++
Taxation	_			+++	+++
Payer-anon	++	0	++		+++
Payee-anon	++	0	++		
Security	_	0	0		++
Conversion	+++			+++	+++
Libre	_	+++	+++		+++

6. Payment solutions - Pricing

Provider	Pricing			
Alipay	2,0% - 3,0%			
Allied Wallet	1,95% + \$ 0,20			
Amazon Payments	2,9% + \$ 0,30			
Avangate	4,9% + \$ 2,50			
Billpro	2,1% + 3,5% fee			
BitGold Inc.	1% fee on every purchase			
Bitpay (Bitcoin)	0%			
Checkout.com	2,95% - 3,95% + £0,15			
Coinify (Bitcoin)	0%			
eComCharge	3,5% + 0,35€			
GoCardless	1% up to a maximum of £2			
Western Union	Variable — From 5% up			

7. Why now and why us?

Why now?

- Chaum's original patents¹ from 1996-1999 have expired
- Increased awareness of issue of privacy in payment systems
 - · Contemporary payment systems fail on privacy
 - Cash is disappearing
 - Alternatives urgently needed
- Cryptocurrencies threaten control over money supply and tax base of governments

Why us?

- solved (technical) problem of unlinkability
- designed a modern, open standards based version
- We have (most) of the technical expertise to really build it:
 - 15 years of research in network security and privacy
 - Founder of GNUnet and related projects
- good contacts: free software movement, press, academics

¹USPTO 5878140, 5781631, 5712913

Leon Schumacher

CEO, co-founder

Dr. Christian Grothoff CTO. co-founder

Dr. Jeff Burdges
PostDoc

Dr. Christina Onete PostDoc

Dr. Richard StallmanFounder of the

Free Software movement











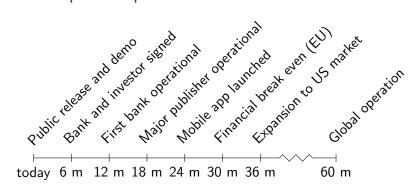


Prof. Mikhail Atallah

Cryptographer, co-founder Arxan Technologies Inc.

Prof. Roberto Di Cosmo
Director IRILL

9. Status quo and plan



500 k Bank operational (integration, documentation, auditing)

500 k Publisher operational (training, integration, marketing)

500 k Mobile app for major platforms (incl. NFC protocol)

500 k Operational overheads until break even

	Year 1		l		l	
EBIT	-208	-2.666	-2.902	1.689	9.542	5 M

10. Contact details

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