

The Vertical Cybersecurity Platform

Securing ledgers on Blockchain

WISeKey Geneva

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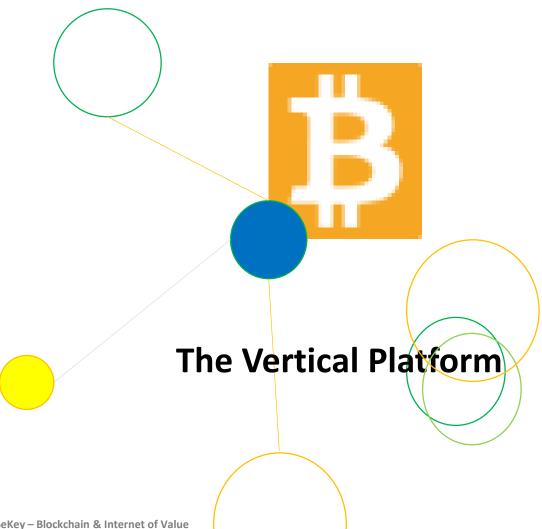






AGENDA

- 1. WISeKey Vertical Platform
- 2. Blockchain Roundtable in Davos
- 3. Securing ledgers on Blockchain
 - Demo Digital Signature document
 - Demo WISeID Bitcoin Wallet





WISEKEY – VISION AND MISSION

Vision

- Technology allows to connected People-to-Machines and Machine-to-Machines, creating new opportunities to:
 - improve people life, Optimize Processes and resources, Reduce Risk toward end users, Improve Processes and end-user experience, Create new businesses and Improve existing business
- Companies and customers can realize value and enable monetization when they can certify that they are receiving authenticated and secure device data
- Gain insight from it, and propose appropriate actions as needed (applications)

Mission

WISeKey's mission is to offers clients a
 Vertical Cybersecurity Platform integrating
 Root of Trust to Chip, empowering the
 Personal to be the Center of Gravity of the Internet.



 WISeKey is bringing trust and security through identity, confidentiality and integrity based on trusted cryptographic root keys.

Company Overview



Why Switzerland?

Zone of Mobile Privacy Secured in The Swiss Alps

- Outstanding and unprecentend infrastructure
- Leading technology center
- Highly educated employees
- Intellectual property protection
- Most innovative economy according to the Global Innovation Index 2014
- Political and financial stability







KEY MILESTONES – PROVEN TRACK RECORD SINCE THE INCORPORATION IN 1999

1999:

Incorporation of WISeKey SA by Carlos Moreira

2005:

Security products for computers and digital video broadcasting

2007:

Secure registration and access control of online offerings, dematerialization and secure electronic document dematerialization

2011:

WISeID and WISfans mobile products for securing social media applications and for effective data protection

Transitional years

2016:

WISeKey International Holding listed on the SIX Swiss Exchange

2003:

First ever binding Internet vote in the Canton of Geneva using biometric enabled public key infrastructure

2006:

Launch of CertifyID product for digital certification and identity management

2008:

Citizen Services
Platform in
partnership with
Microsoft for
confirming citizen
access to
government
services and
validity of citizen
electronic

2014:

WISeAuthentic for the security of luxury goods, artwork, pharmaceuticals, spare parts and VIP social networking



9 SURPRISING FACTS ABOUT CYBER SECURITY

Hacktivism

is the main motivation that drives cyber attacks



Social engineering

Cyber criminals favorite way to manipulate victims



USD 1bn was stolen in 2

years from 100 banks in 30 countries through SOCIAL ENGINEERING



176%

Increase in the number of cyber attacks with an average of 138 successful attacks per week

68% of funds

lost as a result of a cyber attack were declared unrecoverable

USD 400bn

Cost of cyber attacks to businesses - (direct damage, plus disruptions)

MyDoom USD 38.5bn

The most expensive computer virus of all time



53% Board of Directors

of Swiss companies see cybersecurity as a technical issue



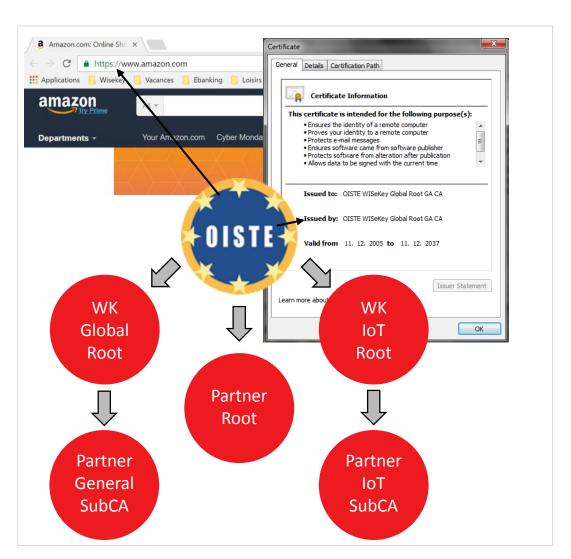
59% of employees

Steal proprietary corporate data when they quit or are fired





ROOT OF TRUST: UNIQUE TRUST MODEL



- The OISTE Foundation was created by the WISeKey Founders to ensure the neutrality of the Trust Services
- The Foundation is regulated by the Swiss laws and enforces values to protect the Neutrality and Sovereignty of the data and identities
- WISeKey is nominated as the operator of the Trust Model, but the by-laws of the Foundation allow the participation of other players, operating their own Root of Trust
- The OISTE Foundation is recognized by the United Nation with an special ECOSOC consultative status, and participates in different initiatives promoted by UN to universalize the access to the electronic identities



ESTABLISHED CYBER TECHNOLOGY

- WISeKey is one of a limited number of companies with a Root Certificate product
- Provides unique PKI (Public Key Infrastructure) cryptography suitable for large-scale enterprises
- WISeKey's Root Certificate is embedded in 1.5+ billion web browsers worldwide (1)
 - Allows an Internet user to trust visited sites with personal and confidential data, without any risk of leaks

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Select Root Certificate Providers	Headquarters	Current status	
Verisign	US	Acquired by Symantec in 2010 for \$1.28 billion	Issuer Statement
CyberTrust	US	Acquired by Verizon in 2007 for \$445 million	about <u>certificates</u>
RSA	US	Acquired by EMC in 2006 for \$2.1 billion	
Entrust	Canada	Acquired by Datacard Group in 2013	ОК
EMC	US	Acquired by Dell in 2016 for 60 billion	
WISeKey	Switzerland		

(1) Number of browsers since 1999 – for more info visit http://www.itu.int/ITU-D/ecdc/pressarticles/oracle.html http://www.itu.int/ITU-D/ecdc/about.html

Certificate

General Details Certification Path

Certificate Information

Protects e-mail messages

This certificate is intended for the following purpose(s):

Ensures the identity of a remote computer
 Proves your identity to a remote computer

· Ensures software came from software publisher

Issued to: OISTE WISeKey Global Root GA CA

Issued by: OISTE WISeKey Global Root GA CA

Valid from 11, 12, 2005 to 11, 12, 2037

Protects software from alteration after publication
 Allows data to be signed with the current time



GROWTH STRATEGY THROUGH ACQUISITIONS AND PARTNERSHIPS



WISeKey has expanded its offerings and markets both by strategic alliances, organic growth and recently through acquisitions and intends to grow through complementary acquisitions and/or partnerships.

Acquisition of the semiconductor side from INSIDE Secure operational in September 2016 was the first transaction operated following such strategy.



WISeKey (SIX:WIHN) signs Letter of Intent to acquire QuoVadis consolidating Certification Authority power for eIDAS and IoT

Closing of the transaction envisaged for Q1 2017; projected to add over USD 20 million of profitable revenues in 2017



WISEKEY ECOSYSTEM



3.6 Billion

Browsers (total) Root of Trust Installed



400

New browser per year Root of Trust Installed



1 Million

Watches - WISekey Asymmetric keys



360 Million

IoT Chips - WISeKey VaultIC Chips



1.6 Billion

Mobile OS (total) Root of Trust Installed



200 Million

Mobile OS per year Root of Trust Installed



120 million

CertifyID and WISfans (Personal Identities)



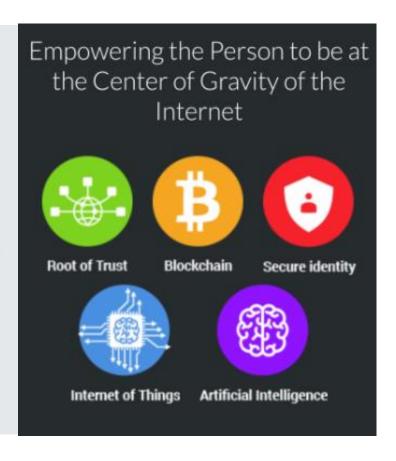
1.2 Million

WISekey apps downloaded



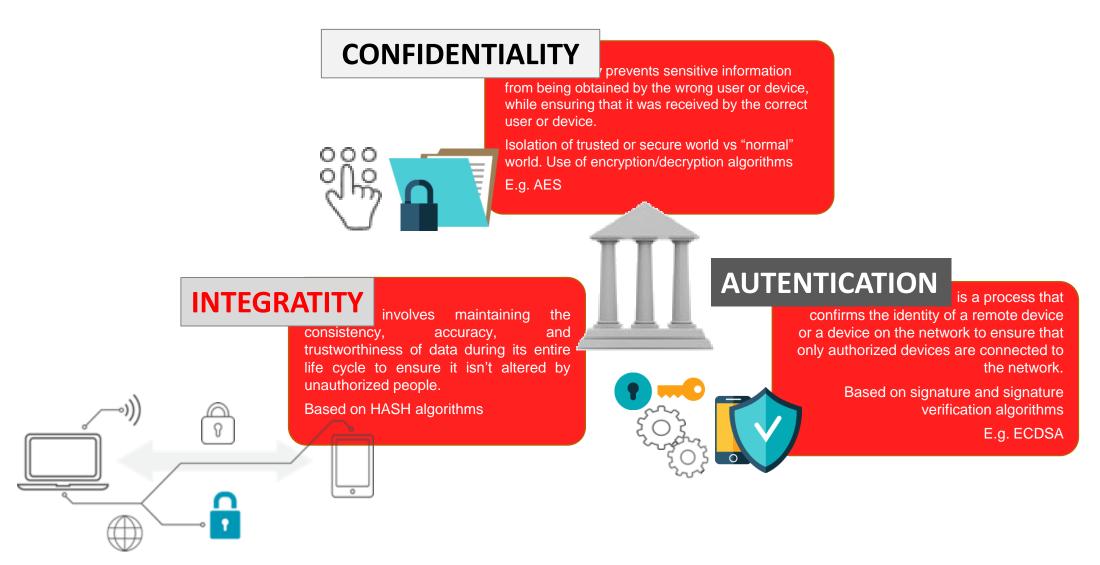
120 Million

Digitally Signed emails per year





THE THREE TENANTS OF SECURITY ADDRESSED BY WISEKEY



BLOCKCHAIN ROUNDTABLE DAVOS 2017

FIRST CHINESE PRESIDENT IN DAVOS

≡ Forbes

Xi Jinping Will Make History As First Chinese President To Attend Davos



Douglas Bulloch, CONTRIBUTOR

I write about the political economy of China and its major industries **FULL BIO** ✓

Opinions expressed by Forbes Contributors are their own.



China's President Xi Jinping. (Photo by Nicolas Asouri -Pool/Getty Images)



KEY GUESTS











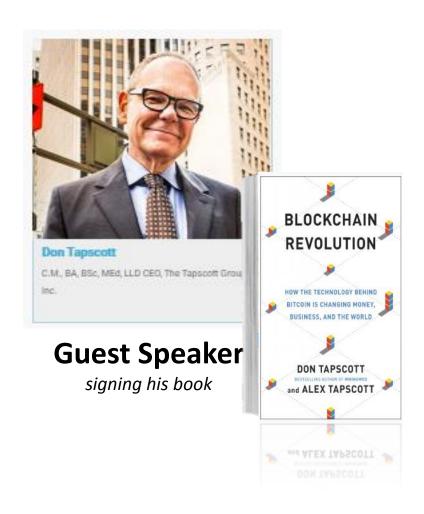


ROUNDTABLE 2017





SPEAKERS 2017















WISE D BLOCKCHAIN

Blockchain platform integrating ID management, Federation and Bitcoin wallet



Protect your Peronal Data

Digital Assets

Proof of Identity on bitcoin wallet



WIS@id



What is WISeID



- Proof of identity
 - Digital Certificate and Root of trust



- Secure personal information and digital assets
 - Encrypt every personal content



- Wallet
 - Signing Currency exchange and bitcoin transactions
 - Non-repudiation



- Secure Operations
 - Encryptiond and Digital signature



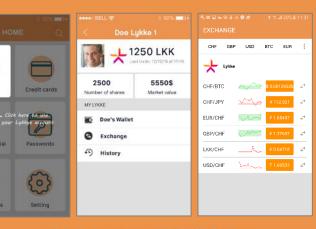




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WISeID Blockchain



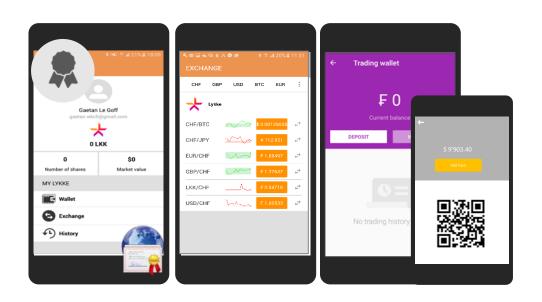
Secured by WIS@key



WISEID BLOCKCHAIN



Added identity layer on the blockchain



Proof of Identity

- Strong authentication
- KYC verification
- Personal Digitla Certificate

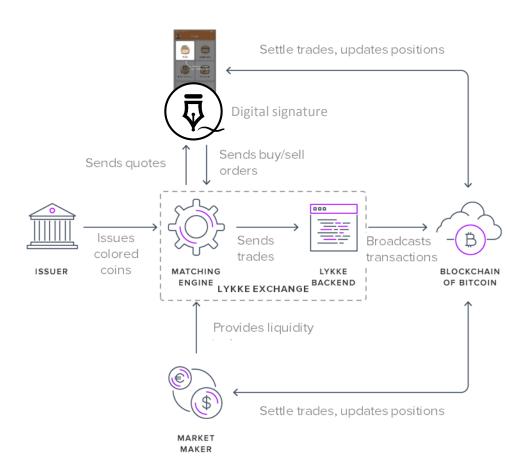
Proof of ownership

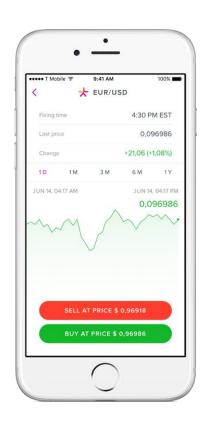
Digital signature



WISEID BLOCKCHAIN

Wallet High-level architecture





ONBOARD EASILY

Digital onboarding is fast and hassle-free

DEPOSIT SECURELY

Deposit digital assets to multi-signature wallets with an encrypted private key and refund insurance

TRADE FREELY

Buy and sell digital assets with 0% commission

SETTLE IMMEDIATELY

Receive the proof of your trade in 10 minutes

OWN DIRECTLY

Verify your asset ownership on the "trust machine" of blockchain

WITHDRAW TIMELY

Receive immediate withdrawal without any fee



WISEID BLOCKCHAIN

Trading of all asset classes

LykkeX is a semi-centralized Internet exchange to trade any asset class issued in the form of colored coins (thereby using Bitcoin Blockchain):

- Traded financial assets (FX, stocks, bonds, commodities, precious metals, CFDs, etc.)
- Less liquid financial assets (real estate, mortgages, credit, etc.)
- Non-financial assets (music rights, air miles, loyalty points, etc.)
- Currency coins covered by fiat money of the issuer

Unlike today's legacy trading environment, trades are cleared and settled instantaneously on LykkeX



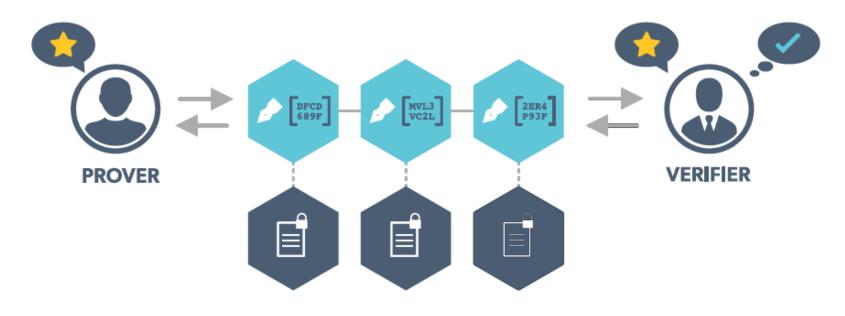
DIGITAL SIGNATURE OF DOCUMENTS BLOCKCHAIN

DIGITAL SIGNATURE OF DOCUMENTS ON BLOCKCHAIN

If we can rerun each step of a process, we get traceability.

If we can prove the data behind each step we get transparency.

With traceability and transparency, we have the conditions for trust.

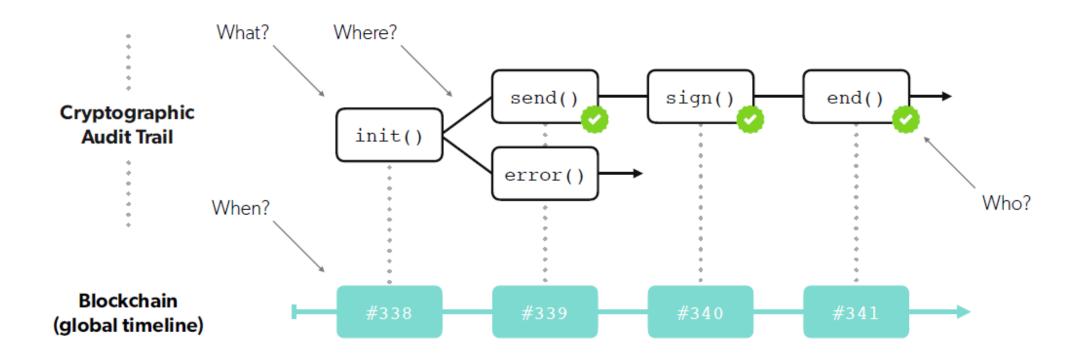


PROOFS AND SECRET DATA



DIGITAL SIGNATURE – ARCHITECTURE

Proof of Process provides data integrity (what), proof of anteriority (when), non-repudiation (who) and contextual proof (where).





SPECIAL THANKS TO OUR PARTNERS

At a glance – our views

WISeKey Development in Blockchain









