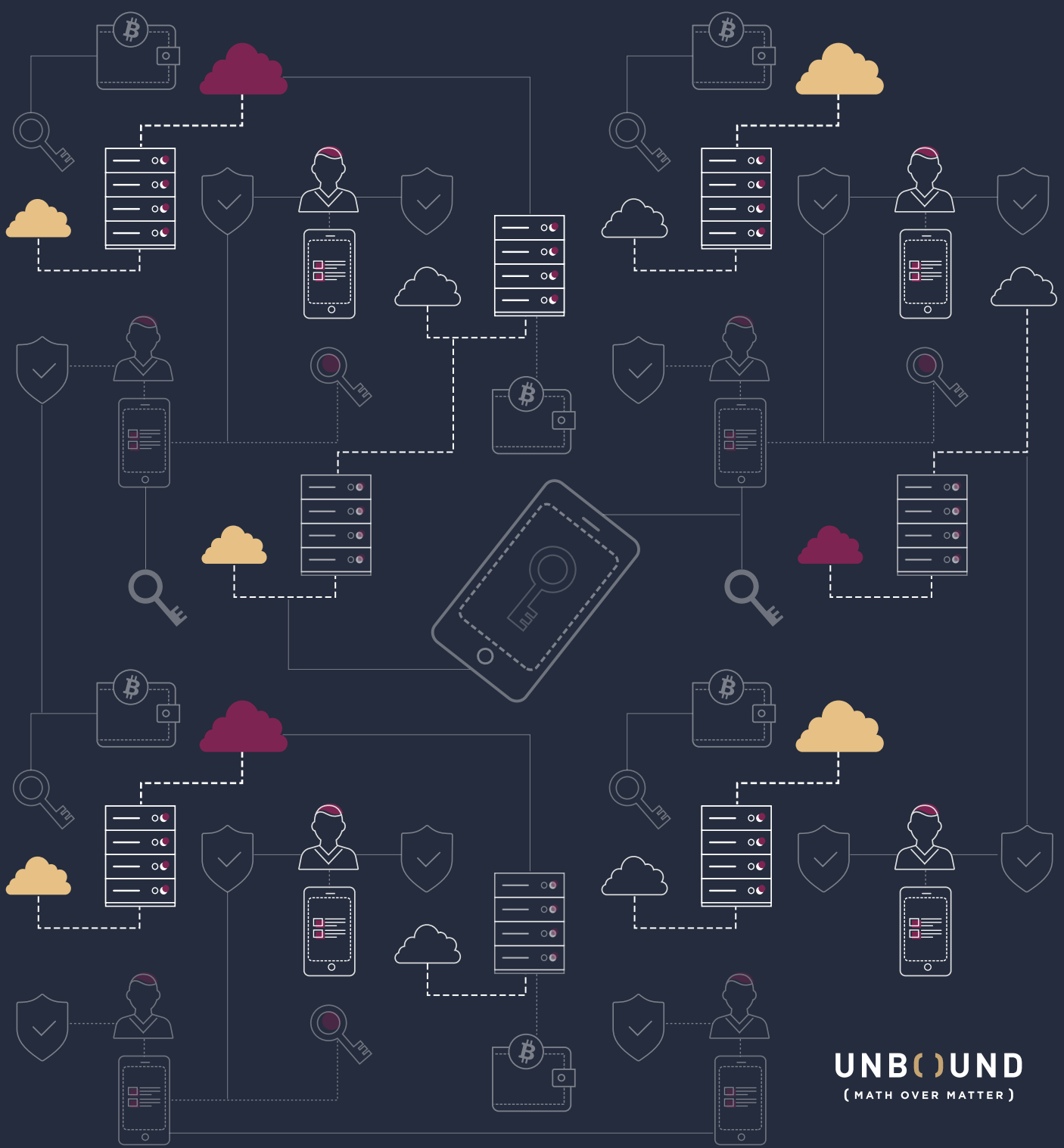
BE A DIGITAL INNOVATION LEADER WITH SOFTWARE-DEFINED CRYPTOGRAPHY



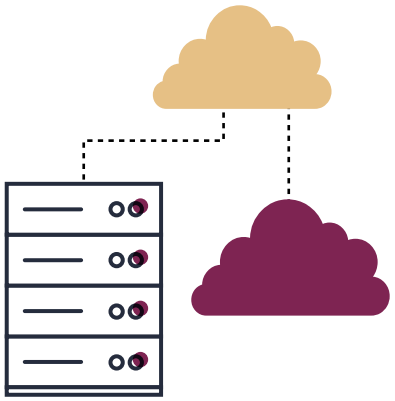
UNBOUND
(MATH OVER MATTER)

Is Your Cryptographic Security Setup Holding You Back?

20 years ago, when networks were isolated and connectivity needs were limited, cryptography based on siloed hardware solutions, such as HSMs, smartcards and tokens, made sense.

Well, a lot has happened since then...

CLOUD COMPUTING



1998

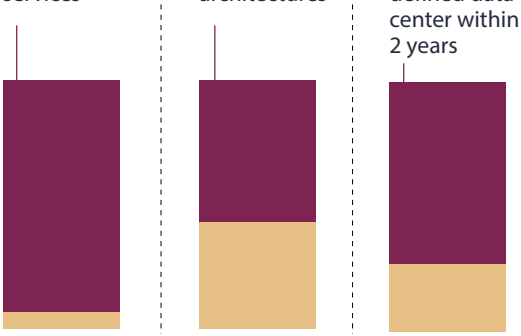
Public cloud does not exist

2018

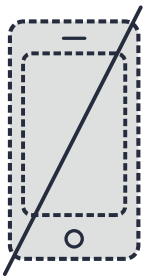
93% of companies use cloud services

57% use hybrid cloud architectures

73% will move to a fully software-defined data center within 2 years

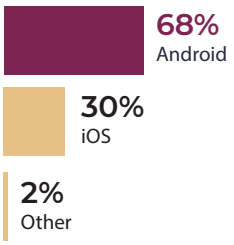


MOBILE BANKING

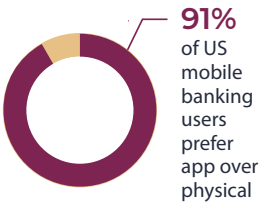


Smartphone market is in its infancy

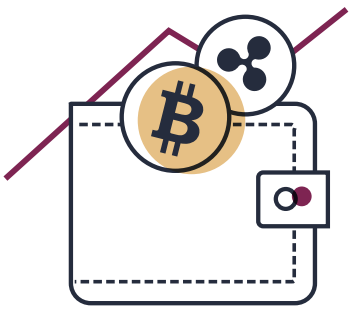
50,000 distinct mobile device profiles in the field



2 billion users globally accessing retail banking services via mobile devices



CRYPTO ASSETS



Fiat currencies only

1,600 cryptocurrencies in the market*

Tier 1 banks are opening cryptocurrency trading desks

Total market cap for cryptocurrencies

$ 400 billion

Daily trading volume*

$ 30 billion

*As of May 2018

Sources: MacAfee, ScientiaMobile, Juniper Research, Citi, CoinMarketCap, Coin Dance, CoinTelegraph

This reality comes with new security challenges

Data protection across data center and cloud infrastructures

Compliance with security and privacy regulations

Trusted banking services on a plethora of untrusted mobile devices

Authorization and assurance of digital transactions

Securing crypto assets

Rapid innovation in our digital, connected world requires a completely new approach to cryptography that is not only highly secure but also elastic, automated and agile.

Unbind your digital business with software-defined cryptography

Traditionally, securing the cryptographic keys and secrets that guard organizations' most valuable assets required the use of dedicated hardware.

Today, leading companies are adopting new technology to unbind keys from hardware – enabling digital innovation by making cryptography agile and flexible.

Goldman Sachs | IBM | GE

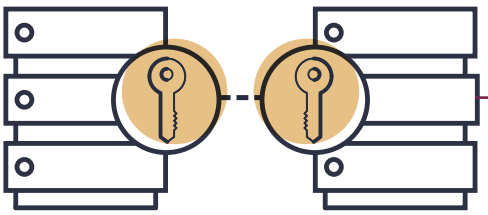
> "The rise of **software-defined cryptography*** (SDC) has changed the risk landscape for our firm. As enterprises across industries continue to adopt cloud-based solutions, we believe that SDC will create new opportunities to build and evolve in more secure and scalable ways that hardware security modules have limited us from achieving."
>
> **DAVID LABIANCA**
> **CHIEF SECURITY ARCHITECT, GOLDMAN SACHS**

* Software-defined cryptography: A virtualized approach to storing, using and managing cryptographic keys and secrets, enabling agility and flexibility through hardware abstraction and automation, while providing proven security guarantees as a core requirement.

HOW TO SECURELY MOVE TO SOFTWARE?

With secure multi-party computation, the technology that enables HSM-level secure cryptographic key protection and beyond, in a completely hardware agnostic implementation.

1

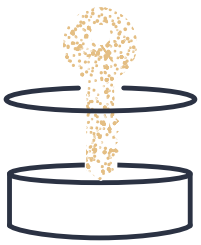


Each key exists as two random shares stored in separate locations

2

Key shares are **never** combined – not even when generated or used

3



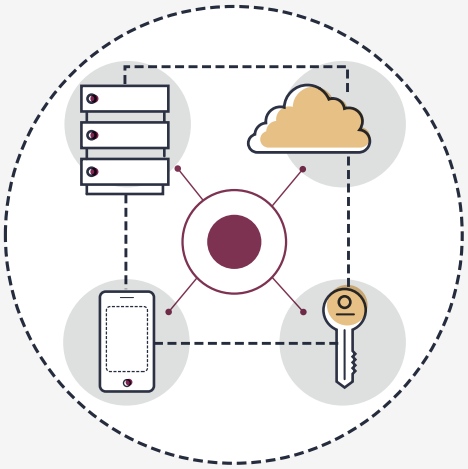
Key material **never exists in the clear** throughout its lifecycle

FIPS 140-2 Levels 1 & 2 Validated
Common Criteria (In Progress)

> “Multiparty computing shows potential as a method of cryptography that can allow people, devices and apps to work with data while keeping the data in a protected, confidential state.”
>
> **Gartner**
>
> **HYPE CYCLE FOR IDENTITY AND ACCESS MANAGEMENT, 2017**

Enable trusted digital innovation

Succeed in the digital era by deploying secure software-based cryptographic key management and protection for all your digital business needs.



USE CASE

Full control and centralized management of keys on any infrastructure: any public/private cloud, on-premise and hybrid

BENEFITS

Service agility
Deploy new digital services in hours instead of months

Crypto-agility
Quickly and easily add support for new cryptographic algorithms via software upgrade

Automation and efficiency
Automate key lifecycle management

Cost savings
Eliminate dedicated hardware acquisition, certification, installation, maintenance

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USE CASE

Secure, user friendly services on any BYOD

BENEFITS

Service enablement
Achieve high-trust digital identity assurance for any user with any device

Seamless user experience
Securely implement advanced authentication, including biometrics and FIDO solutions, without step-up autehntication or dedicated hardware

USE CASE

Bank-grade security for custody and trading of crypto assets

BENEFITS

Revenue growth
Increase trading volume by tapping into hundreds of billions of dollars' worth crypto asset market

Competitive digital service delivery
Offer innovative services with built-in advanced security features such as distributed cryptographically-enforced "M of N" transaction approval

Ready to make the move?

Contact Us

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