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Investor Summary (Winter 2023)

- World leader in quantum-safe cryptography
- Multi-billion-Dollar Untapped Verticals
- Accepted and Endorsed by World-class Partners



Tomorrow's Cyber Security, Today
IRONCAP

Quantum **THREAT**

Current protection: RSA/ECC

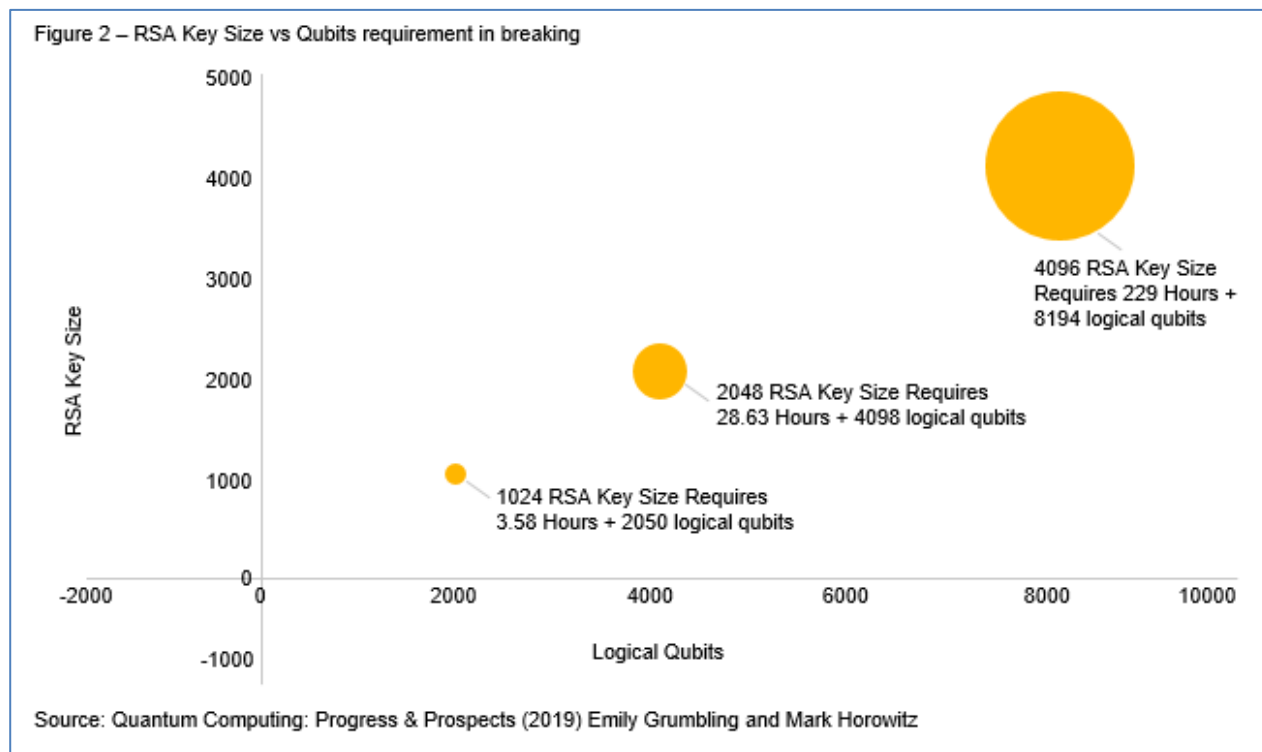
- Today's supercomputers: *150 years* to crack
- Quantum computers: *Several hours* to crack

Who will suffer?

- All banking transactions (e.g. money transfers)
- Digital currencies (e.g. CBDC, cryptocurrencies)
- A.I. authenticity
- Website authenticity
- Remote access authentication
- Email security
- ...



Q-Day has Arrived!



Q-Day has **Arrived!**



2019 – 27 Qubits

2022 – Osprey with 433 Qubits

2023 – Condor with 1121 Qubits

2024 – Flamingo with 1386 Qubits

2025 – Kookaburra with 4158+ Qubits

2026 – 100,000+ Qubits

- IBM's quantum computers roadmap (May 2022)

Researchers in China claimed to have reached a breakthrough in quantum computing, figuring out how they can break the RSA public-key encryption system using a quantum computer of 372 qubits

<https://therecord.media/chinese-researchers-claim-to-have-broken-rsa-with-a-quantum-computer-experts-arent-so-sure/>

- January 4, 2023



Q-Day Preparation

Draft Standards Published

NIST Standards – August 24, 2023

Published FIPS 203, FIPS 204, and FIPS 205

Third Round Candidates to be Standardized

Public-Key Encryption/KEMs

CRYSTALS-KYBER

Digital Signatures

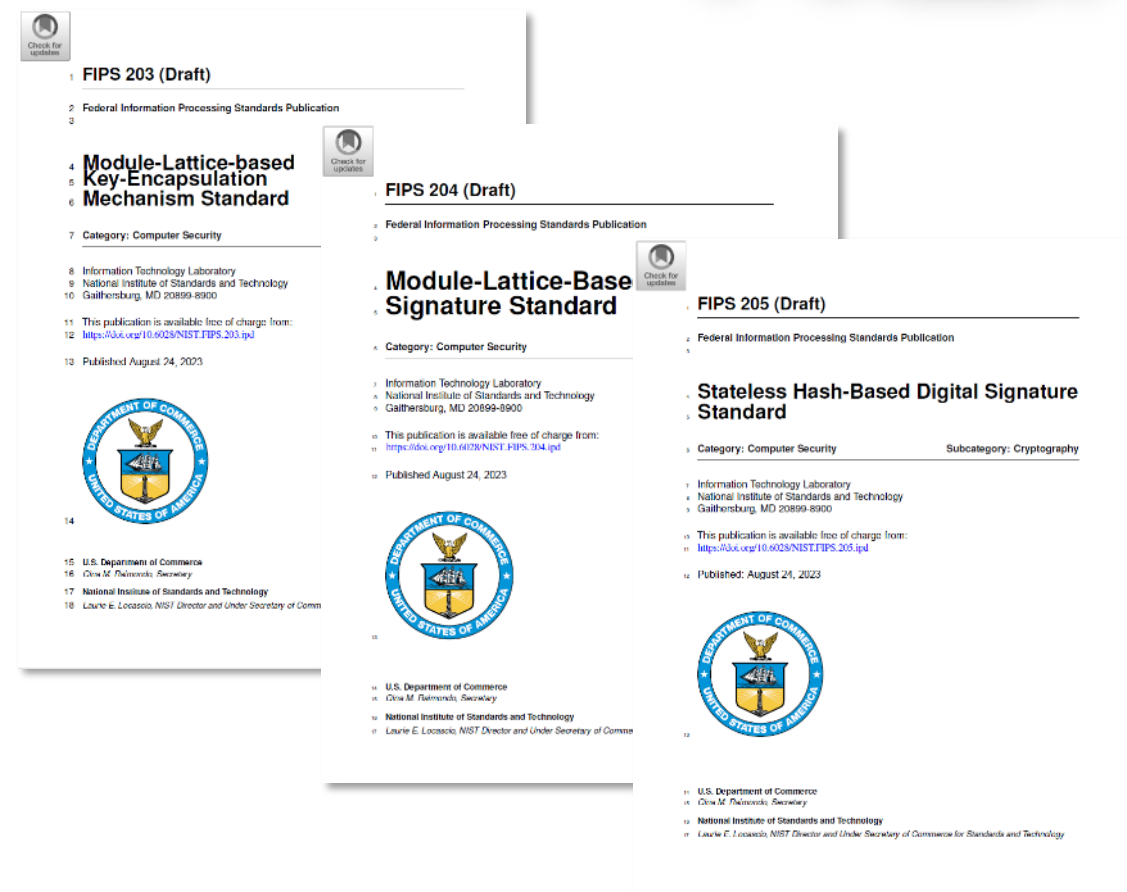
CRYSTALS-Dilithium

FALCON

SPHINCS+

Coming Soon...

Draft standard for Falcon



Q-Day Preparation

NIST Recommendation – August 2023

- ☐ FIPS 203, FIPS 204, FIPS 205, Falcon coming soon
- ☐ One more to announce in 2024

US MSN-10 (National Security Memorandum) – May 2022

- ☐ By Oct 18, 2023 to assess funding for quantum-safety

BIS Innovation Hub Press Release – June 2022

Quantum computers may be capable of breaking the cryptography used by central banks and the private financial sector. The goal is to test use cases in various payment systems and examine how the introduction of quantum-resistant cryptography will affect their performance.



IronCAP Patents

Patent Portfolio

US#11,271,715: cryptographic system incorporating advanced post-quantum cryptographic technology

US#11,669,833: Quantum-Safe blockchain endpoints and crypto Wallets

Patent-pending

- ☐ PQC related
- ☐ e-Wallet security related (steganography)

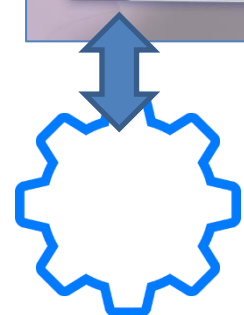


Partnerships



User Cases #1: Thales Luna HSM

Thales' Customers
(e.g. Banks, National Defense, etc.)

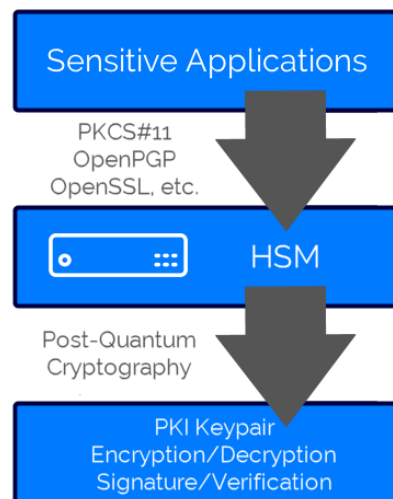


Traditional PKI
(e.g. RSA/ECC)

Functional
Modules



Post-Quantum PKI
(IronCAP)



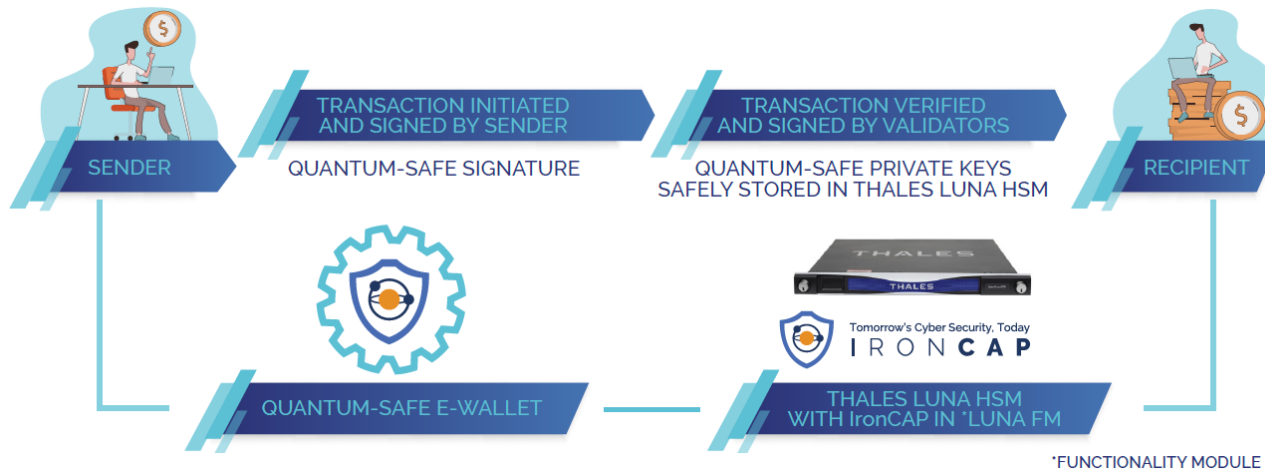
THALES

Building a future we can all trust

IronCAP FM: US\$6000 MSLP

User Cases #1: Thales Luna HSM

Securing blockchain endpoints
(via Quantum-safe Digital Signature)

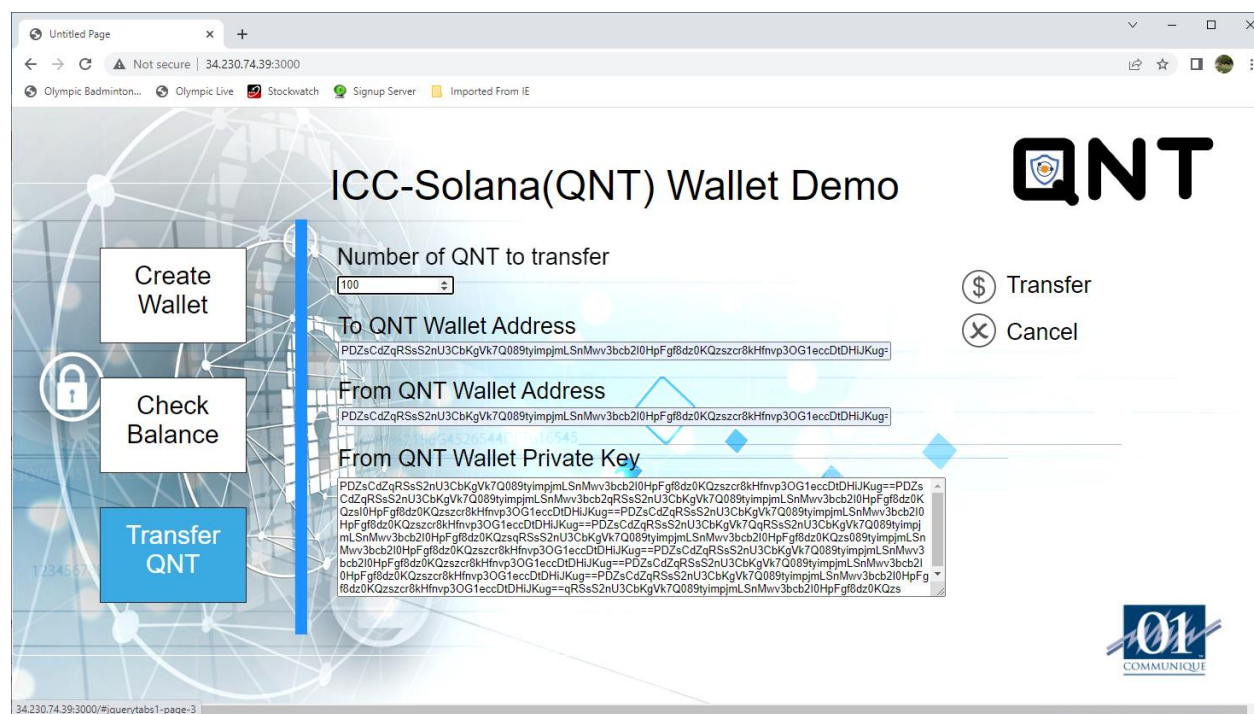


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Building a future we can all trust

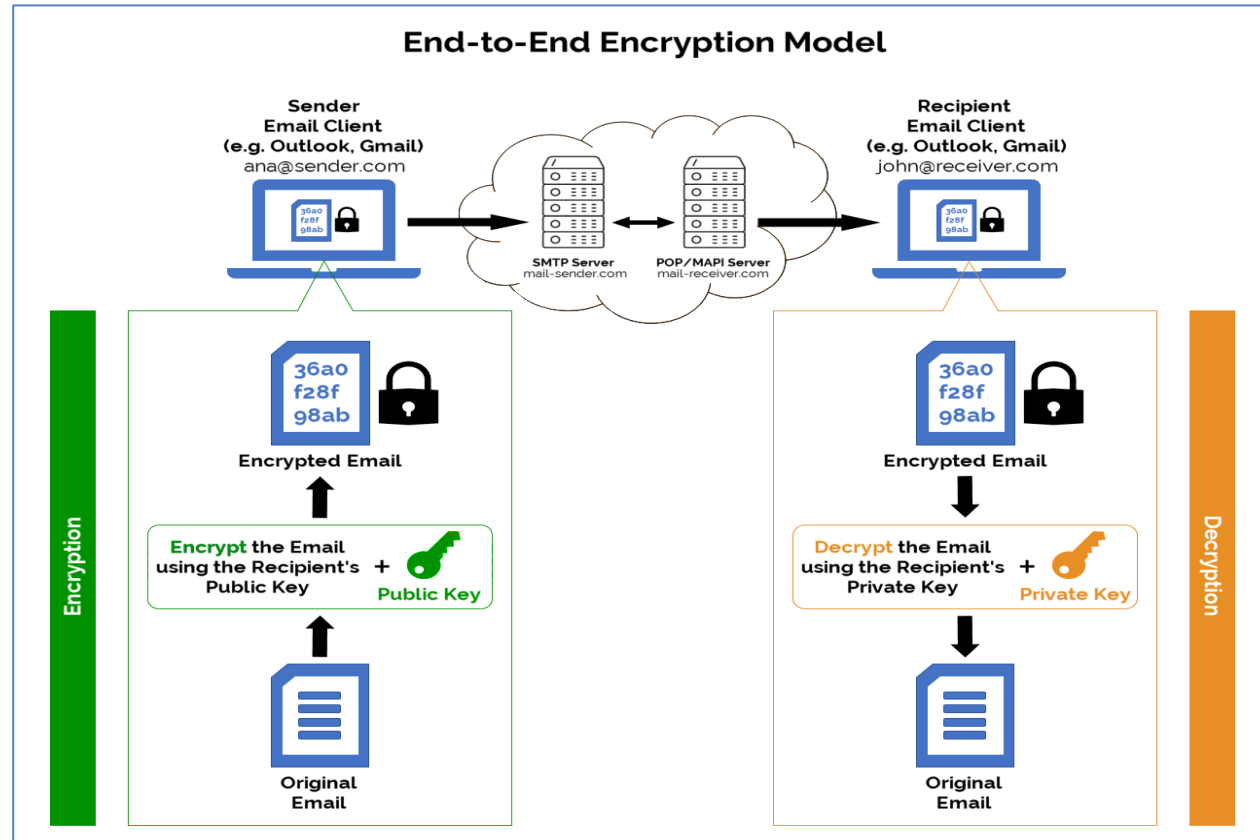
Use Cases #2: Blockchain

Quantum Native Tokens (QNT)

International patent-protected: <https://qnt-demo.ironcap.ca>



Use Cases #3: Email Security



User cases #4: Steganography

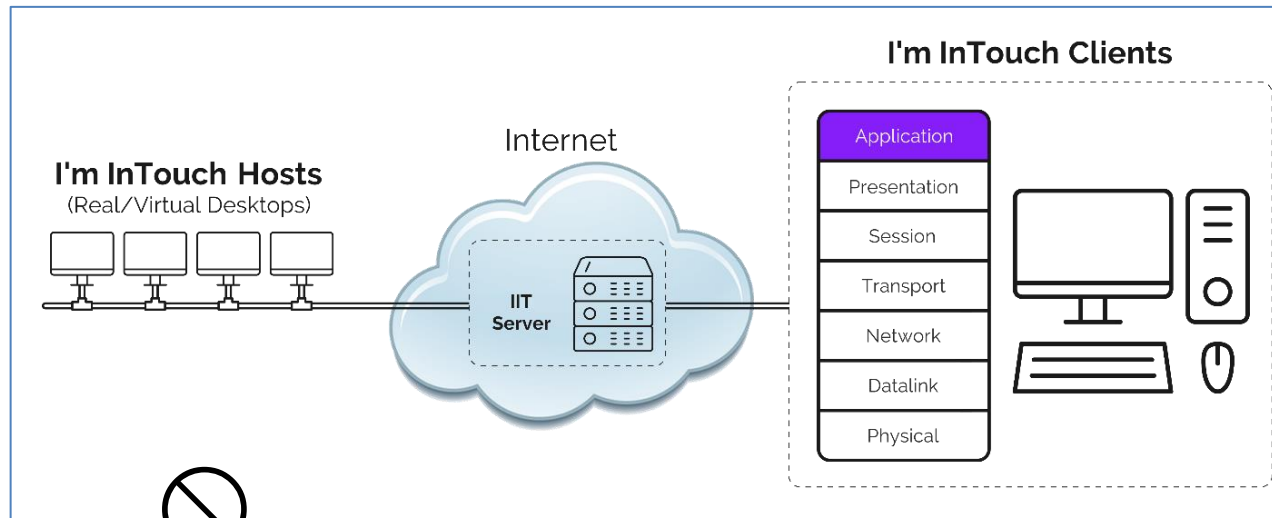
Steganography

- Watermark steganography – **18th Century**
- Quantum-safe Steganography – **21st Century**
- IronCAP Goppa-code error vectors – **proven**
- International Patent Application – **filed**
- Applications: e-wallets recovery, NFTs, etc.



Use Cases #5: Remote Access

Quantum-Safe + Zero Trust



No access to corporate LAN



IronCAP Partnership Activities

RSA Conference SF



THALES
Building a future we can all trust

IronCAP Partnership Activities

CGI Innovation Center (Montreal)



IronCAP Partnership Activities

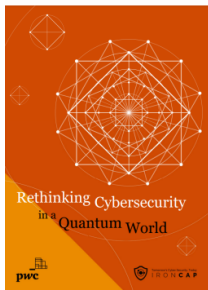
AFF (Asian Financial Forum)



IronCAP Partnership Activities



Tomorrow's Cyber Security, Today
IRONCAP



Rethinking Cybersecurity
in a Quantum World

<https://www.pwccn.com/en/issues/cybersecurity-and-privacy/rethinking-cybersecurity-in-a-quantum-world-jul2021.html>



Email Phishing Culprit
behind Ransomware

<https://www.pwccn.com/en/issues/cybersecurity-and-privacy/email-phishing-culprit-behind-ransomware-apr2022.html>



Tomorrow's Cyber Security, Today
IRONCAP



Market Cap (USD) Comparison

Fully Diluted Shares	100m
Market Cap (in USD)	\$10m
52 Week High/Low	\$0.21 / \$0.09

Vertical	Name	Market Cap	Notes
Crypto Engine	Arqit	\$75m	Nasdaq
Email Security	Mimecast	\$5,800m	Acquired (May/2022)
Email Security	ZIX	\$860m	Acquired (Nov/2021)
Website Security	RSA	\$2,000m	Acquired (Mar/2020)
Remote Access	LogMeIn	\$4,300m	Acquired (Aug/2020)



Timing is Everything

Inflection Point

- ❑ Well-prepared to capitalize on this massive market trend
- ❑ Patent-protected and Commercially available
- ❑ World's first true quantum-safe end-to-end email security
- ❑ World's first quantum-safe blockchain technology

Global Partners

THALES
Building a future we can all trust

KEYFACTOR

pwc

CGI

Hitachi Solutions Create

ISA

mirata ltd

NEXUSGUARD

Take Away:

- Q-Day has arrived
- Everything is vulnerable
- Need to act now
- IronCAP is the Solution