A Security Story

The Qwyit™ Pitch

Introduction

- Qwyit™ is pure technology, a cryptographic protocol
- It's an Authentication and Data Encryption cryptosystem, built on unique, patented primitives ready to build any cybersecurity solution
- It is core security technology exactly like PKI + AES; with a provably secure mathematic foundation
- The superior, unique design and properties deliver Qwyit's real world *Speed, Efficiency, Flexibility and Perfect Secrecy*

It can work everywhere, in everything, all the time.

If you thought about that for a minute, you'd realize…

Vision

All of the current Cybersecurity isn't everywhere, it isn't in everything, and it isn't on all the time. It's too slow, too big, too rigid and weakly secure – Quantum Computing destroys the only current security basis: Time

This allows all Cybercrime

But...if the entire Digital Landscape was nothing but *Authentic Ciphertext, there would be no attacks*. If there was a security method that was fast, efficient, flexible and provably perfectly secret so it could proliferate everywhere, fit and execute in everything, and authenticate and perfectly encrypt *every digital bit:*

This <u>stops</u> all Cybercrime

Qwyit is that method. It is the Perfect Cybersecurity Solution

Uniquely Perfect

Here are several distinct, singular approaches, capabilities, design elements and features that deliver Qwyit™, The Perfect Security Solution:

- Fast, efficient cryptographic primitives: OWC and PDAF
- Underdetermined equation set mathematics: <u>unsolvable</u>
- *Multiple plaintexts map to identical ciphertext;* Perfect Secrecy: <u>uncomputable</u>
- ***World's only provably true Post-Quantum Cryptography algorithm***
- The <u>*only*</u> Shannon *Strongly Ideal System*: finite key created endless encryption
- Provides mutual, continuous Authentication in *every bit*
- 256-bit encryption in a single machine cycle (Nothing *Faster*)
- Code base <300 VHDL lines (Nothing as *Efficient*)

Uniquely Problematic

Here are several distinct, singular reasons why Cryptography doesn't want The Perfect Security Solution:

- Elegant simplicity is ignored
  - "Simplicity is a great virtue but it requires hard work to achieve it and education to appreciate it. And to make matters worse: complexity sells better." — Edsger Dijkstra
- Patented Cryptography is ignored
  - "Note that there is considerable reluctance in significant parts of the community to use any algorithm with any intellectual property claims. If you patent your algorithm, that pretty much guarantees that no one will use it."
- New Cryptography Needs Expert Opinion…Expert Opinion Hates New Cryptography, *Status Quo Bias*
  - "The Golden Age Is Behind Us: How the Status Quo Impacts the Evaluation of Technology"
- Elite Tech Leaders willing to ignore Experts/Status Quo are hard to find
  - "When challenging the status quo, leaders demonstrate three key behaviors: experimenting, taking risks and searching for opportunities."

Uniquely Ready

Here are several distinct, singular reasons why Qwyit™ is ready to deliver The Perfect Security Solution to Elite Tech Innovators: If You Build it, They Will...*Test It!*

- Partnered with Onclave for Air Force OpenVPN project – tested, documented
- Instantiated on FPGA – <u>see the video here</u>...put it in your lab
- Several SW apps (QFone – a 100% secure video&voice app) – available for review, benchmarking, cryptanalysis
- Independently tested and verified – papers, contacts
- Submitted and presented at 2015 NIST Lightweight Cryptography conference
- Reference documents, test vectors, security discussions, etc.
- Patents

100% Transparency: Method, Papers, Product, Patents – *Test It!*

Conclusions

- Cryptography must acknowledge the obvious: the hubris, imperfect algorithms, convoluted complex processes – and abysmal constant failure

- Now is a crucial juncture and opportunity to change course, and deliver a real world Perfect Solution for next generation Post-Quantum/Post-Computing Cryptography's brave new world

- A Shannon-defined *Practical Perfect Secrecy Strongly Ideal System* exists for the entire future Cryptographic Universe

- **Somewhere, there is an Elite Tech Innovator willing to break the Status Quo**

Qwyit™ is 100% ready for inspection, manufacture and proliferation

Further Information

We have Patents, Prototypes, Papers on everything *Qwyit*™ – just ask for it!

Contact Qwyit LLC

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All truth passes through three stages. First, it is ridiculed. Second, it is violently opposed.

Third, it is accepted as being self-evident. - Arthur Schopenhaue