

A Lean Briefing



ABOUT THE UCF

www.UberCrypt.com

The UberCrypt Framework is more than just a symmetric key stream cipher, it is a cryptographic framework with unique and dynamic properties. The benefits of which result in an unparalleled combination of security, speed and flexibility. It is an "enabling technology for data security."







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THE UBERCRYPT FRAMEWORK

WHAT MAKES IT UNIQUE?

HOW CAN IT BENEFIT YOU?

APPLICATIONS APPLICATIONS WHERE CAN IT BE USEFUL?

POSSIBILITIES POSSIBILITIES WHAT WIGHT THE FUTURE HOLD?

Symmetric Key Stream Cipher:

Encrypt/Decrypt data at speeds in excess of **3Gbps in software**, even faster on silicon. Supports **bit-granular encryption key strengths** ranging from ~250 to ~3000 bits (or more). Speed is **independent of key strength**. Multiple **distributed key architecture**. Built on 3D geometry, allows for a **virtual infinity of geometries**.

Math at: International Assoc of Cryptologic Research (IACR): http://eprint.iacr.org/2014/894

Security, Speed, Flexibility, Customization:

Elastic key strength makes brute force attack on keys orders of magnitude harder than something like AES. Same speed at any strength amplifies this benefit. Distributed, user/admin selected keys makes theft attacks virtually impossible. Infinite geometries makes "mass customization" of data encryption possible – imagine every person or device having their own cryptosystem.

Secure communications (particularly video-conferencing). Streaming media. Digital Rights Management. Very Large Databases/Files (byte level decryption). Crypto currency/blockchain. Random number generation for simulations and other applications. Many more...

Future-Proof Security is Quantum Resistant. **Possibly the first symmetric and asymmetric key system**. Digital signing. Three-Party Encryption. More...

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REAL, NOT IMAGINARY

NIST STS PROVEN

Billions of tests using NIST's Statistical Testing Suite (STS) measuring quality of cipher key stream. Scored higher on random data generation than the quantum photonic generator at the Australian National University.

SOFTWARE

Runs on Windows, Linux, OSX. (Native C/C++) Will port to silicon and mobile. Stable, extensively tested, zero failures.

API-ENABLED

Easily integrated into other applications via API

MEET THE TEAM



Joe Chiarella

Serial Tech Entrepreneur

Seven companies Two 8-digit exits on two cyber-security software companies (PP to CA and XPL to AVG)

Strong experience with business, product strategy & management. Experience with "big data" and analytics. Experienced with M&A.

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Greg Mosher

Software Engineering Executive

Five companies Two 8-digit exits on two cybersecurity software companies (PP to CA and XPL to AVG)

Led large engineering organization of 200+ distributed globally. Experienced with M&A.

www.Linkedin.com/in/gregamosher



SUMMARY

www.UberCrypt.com

The **UberCrypt** *Framework* is a data security enabling technology. It is particularly well-suited to high-volume, highspeed, low-latency data security demands ranging from commercial to national defense and even orbital platforms. Unique properties make it dynamic and customizable.

Patents and software are available for (exclusive or nonexclusive) license or purchase.

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