



# CRYPTOGRAPHIC LIFE-CYCLE MANAGEMENT

THREAT ASSESSMENT | AGILITY PLATFORM | QUANTUM READY



## WHO WE ARE

Infosec Global provides technology innovation, thought leadership and expertise in cryptographic life-cycle management. Founded in 2013, ISG delivers products and services that secure data while helping governments and enterprises achieve trust through compliance to cryptographic regulations, worldwide. The ISG leadership team has deep professional and academic expertise in the security and cryptography market. The founders and board members are the original inventors of key cryptographic technologies, protocols and standards such as SSL and AES.

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## TECHNOLOGY BENEFITS

- Centrally identify and manage potential data risks and vulnerabilities
  - Reduce time to market and operational costs
  - Empower customers with flexibility and control to make changes to in field devices and systems
  - Accelerate global compliance
  - Ensure interoperability of standard, custom and multi-crypto environments
  - Seamless in-field provisioning of software and devices
  - Ensure confidentiality, integrity and authenticity of data and communications
  - Future proof data protection with crypto agility and quantum ready technology
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## WHAT WE DO

ISG Provides life-cycle management of cryptography and digital identities. The agility and interoperability that ISG's technology enables are unique differentiators.

ISG's platform enables:

- Secure provisioning and discovery of crypto threats and vulnerabilities
- Updates, fixes and interoperability of cryptography, keys and certificates
- Deployment of new crypto to in-field devices, without having to upgrade software/hardware
- Scalability for all devices, systems and platforms.
- Support for convention and quantum-safe crypto systems within a single toolset

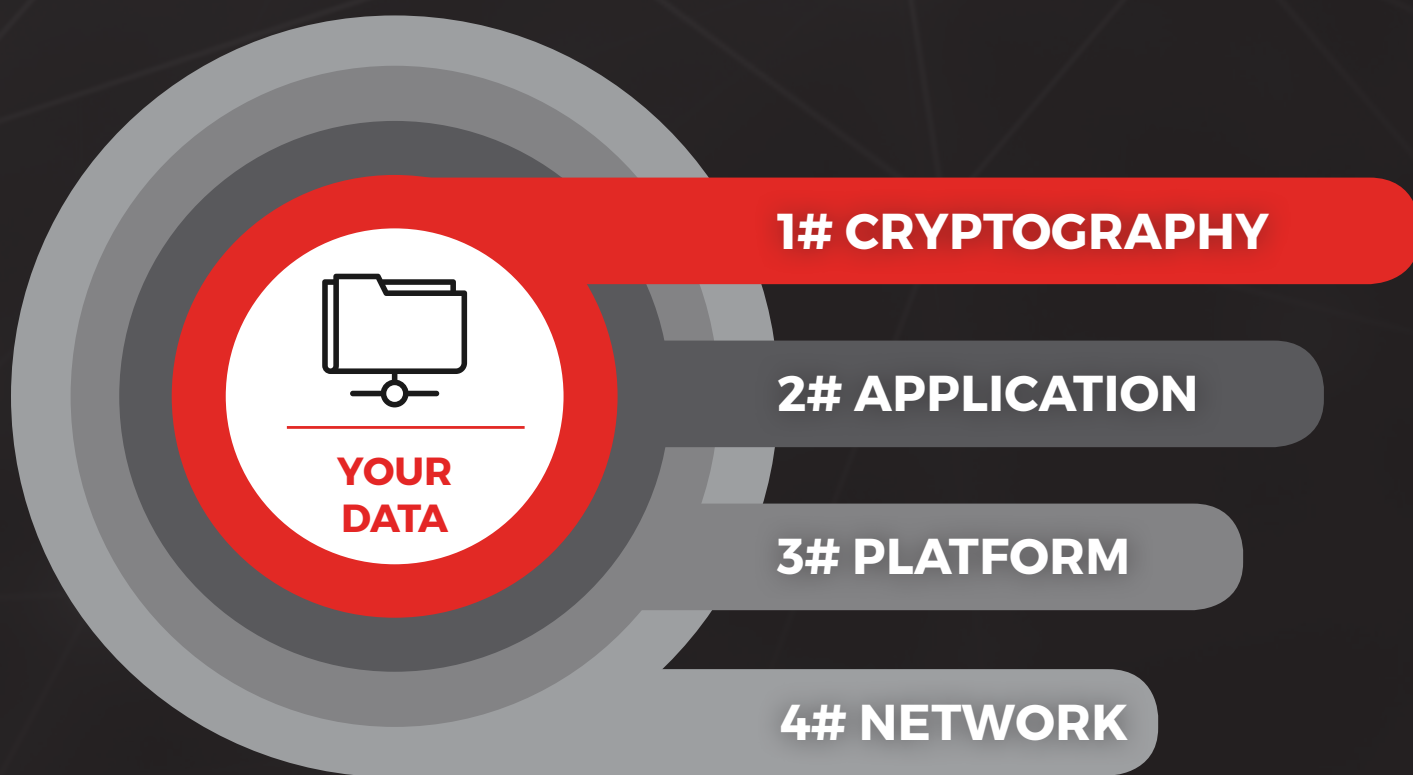
The Platform allows software and device customers to keep their cryptography current over time, and allows enterprises and governments to offer solution products to markets with non-standard security requirements, without having to rebuild, package and maintain a custom non-standard variant of their product globally

# CRYPTOGRAPHY AT THE FOREFRONT OF CYBERSECURITY

Future proofing security within the digital ecosystem has brought cryptography to the forefront of cybersecurity. The Internet today is built on cryptography, with billions of hyper-connected devices all accessing the internet using encryption to secure and protect the confidentiality and integrity of data, devices and communications. Cryptography is pervasive, integrated into IoT devices, the network, servers, applications and in the cloud. The demand for privacy and confidentiality has been the catalyst

for custom, in country cryptography and the need for standard, custom and multi-crypto agility in both the government and commercial enterprise is rising exponentially. Modern cryptography is fundamental for security architects to layer security and keep information private and protect against fake communications. Today, commercial systems can only use a handful of cryptographic algorithms that are well studied by mathematicians. These security standards become outdated and less secure over time.

## CRYPTOGRAPHY IS THE FIRST LEVEL OF DATA PROTECTION



### DATA & COMMUNICATION CONFIDENTIALITY

Make sure data cannot be  
**ACCESSED** by 3<sup>rd</sup> party

### DATA & COMMUNICATION INTEGRITY

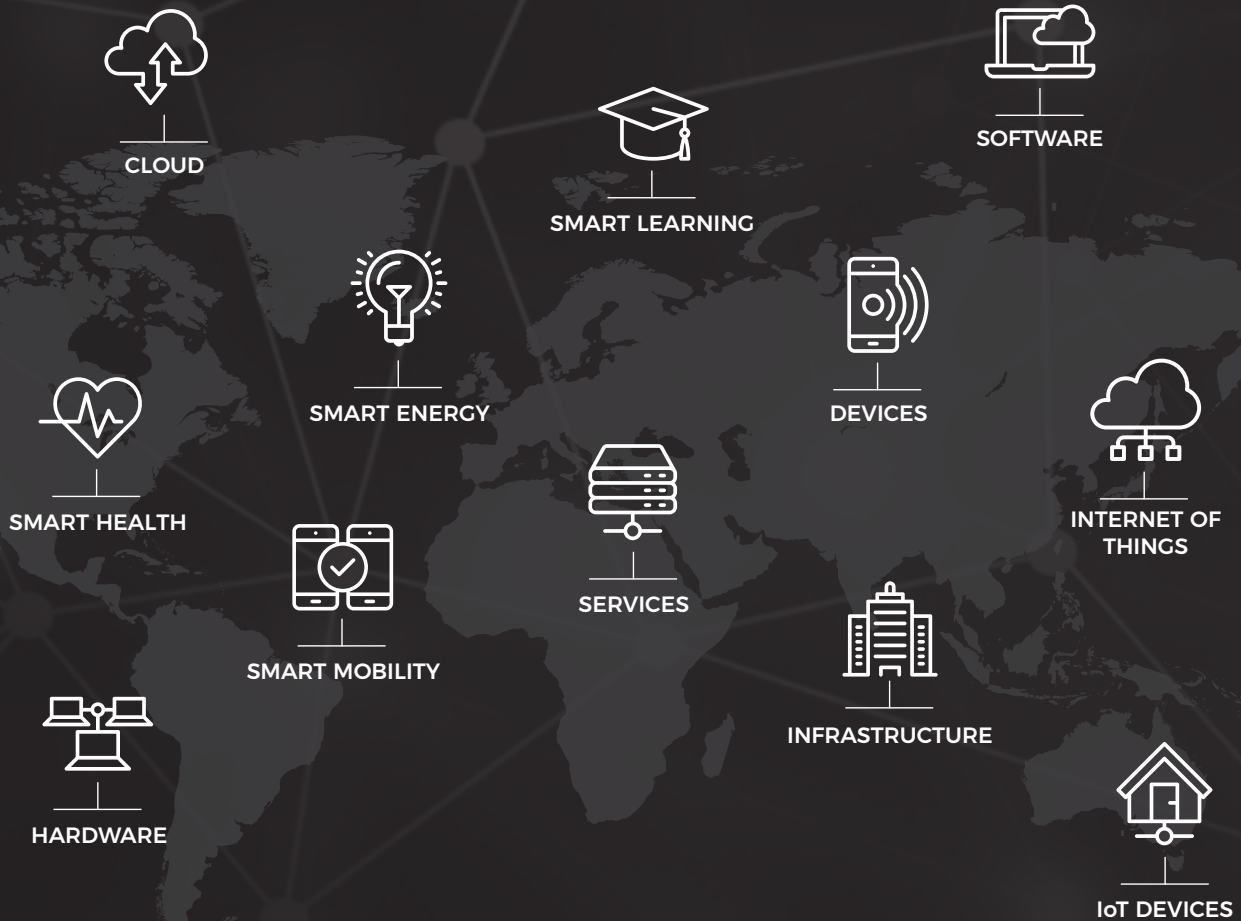
It makes sure data integrity  
cannot be **TAMPERED** by 3<sup>rd</sup> party

### DATA & COMMUNICATION AUTHENTICATION

It authenticates data to make  
sure origin is a **TRUSTED** source



# WHERE THERE IS DATA, THERE IS CRYPTO



## CYBERSECURITY REQUIRES NEW INNOVATION IN CRYPTOGRAPHY

### CRYPTOGRAPHY IS FATIGUED

Crypto weakens over time and will evolve to address upcoming threats

Need for seamlessly deploying new crypto across digital footprint

### CRYPTOGRAPHY IS FRAGMENTED

Crypto will adapt to efficiently support emerging use-cases

Need for interoperability across digital systems using different crypto

### CRYPTOGRAPHY REQUIRES INVESTMENT

Crypto lacks innovation and is taken for granted

Need for improved visibility of crypto risk over digital ecosystem

# THE AGILESEC PLATFORM SCALE FROM IoT TO THE CLOUD

Infosec Global's Agilesec Platform is the only enterprise grade solution that provides life-cycle management of cryptography and digital identities. ISG's platform enables secure provisioning and discovery of threats, updates and fixes of cryptography and support for conventional and quantum safe crypto systems. ISG's multi-cryptography suite homogenously applies, manages and controls usage of cryptography across a large scale digital footprint. It provides agility and interoperability of cryptography and delivers unique real-time service that remotely manages the cryptography of critical systems. ISG's platform pro-actively mitigates crypto risks, automatically patches vulnerabilities and prevents the use of obsolete weak crypto ciphers.

**The Agilesec Platform is able to identify threats and manage/update crypto from a centralized control interface.**



#### **CRYPTO THREAT ASSESSMENT**

Pro-actively detect potential crypto threats within enterprise ecosystem

**AGILESCAN | AGILESEC ASSURANCE**



#### **AGILESEC SOLUTIONS**

Empower solutions with capability to update crypto with minimal efforts

**AGILESEC SDK | AGILESEC KEY | AGILESEC CERTIFICATES**



#### **NETWORK PROTECTION**

Protect critical communication with resilient and agile cryptography

**AGILESEC VPN**



#### **TRUST MANAGEMENT**

Centrally manage lifecycle of encryption and identities

**TRUST AUTHORITY** MANAGEMENT

## **BENEFITS OF THE PLATFORM INCLUDE:**

<b>AGILESEC CRYPTO</b>	<b>SCALE</b>	<b>PLATFORM AGNOSTIC</b>	<b>MODULAR</b>	<b>COUNTER MEASURES</b>	<b>QUANTUM SAFE</b>
The only multi-crypto, interoperable solution that empowers users with the ability to seamlessly swap and update cryptography	Scales to any environment from IoT to the cloud, with minimal development effort	Supports mobile, server, and cloud environments with pure software or hardware-accelerated cryptography	Select individual products or entire platform based on implementation requirements	Resistant to known side-channel attacks	Quantum-ready algorithms can be loaded in the Agilesec crypto solution

“We provide an agile secured platform that enables the interoperability of standard, custom and multi-crypto solutions with a real-time service that remotely manages the cryptography of critical systems and connected smart devices.”

**NAGY MOUSTAFA**  
**CEO, INFOSEC GLOBAL**

“Critical systems need to incorporate cryptography as an essential element of being secure. Infosec Global’s Agile Crypto Platform makes this easy, and can dynamically adapt and update the crypto as required.”

**BRIAN O'HIGGINS**  
**CTO, ENTRUST AND CO-FOUNDER OF INFOSEC GLOBAL**  
**ADVISORY BOARD**

“Strong cryptography is still the basis for trustworthy security.”

**DR. VINCENT RIJMEN**  
**PROFESSOR KU LEUVEN**  
**INFOSEC GLOBAL ADVISORY BOARD AND CO-DESIGNER**  
**OF ADVANCED ENCRYPTION STANDARD (AES)**





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