AgileScan
Cryptographic Risk Assessment

Sudden and unpredictable cryptographic compromises can leave companies at risk. Security and risk management leaders must start assessing their use of cryptographic systems and technologies.

Organizations need to be pro-active in managing authorized and unauthorized uses of cryptography in order to protect the critical data entrusted to them. Today's *Digital Business* relies on cryptography as its core security foundation to maintain digital trust, confidentiality, and authenticity. The security of financial transactions, distributed blockchains, IoT communications, and digital identities are susceptible to attack and fraud if cryptography is weak, outdated, or vulnerable to exploit.

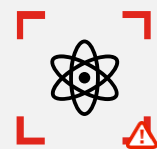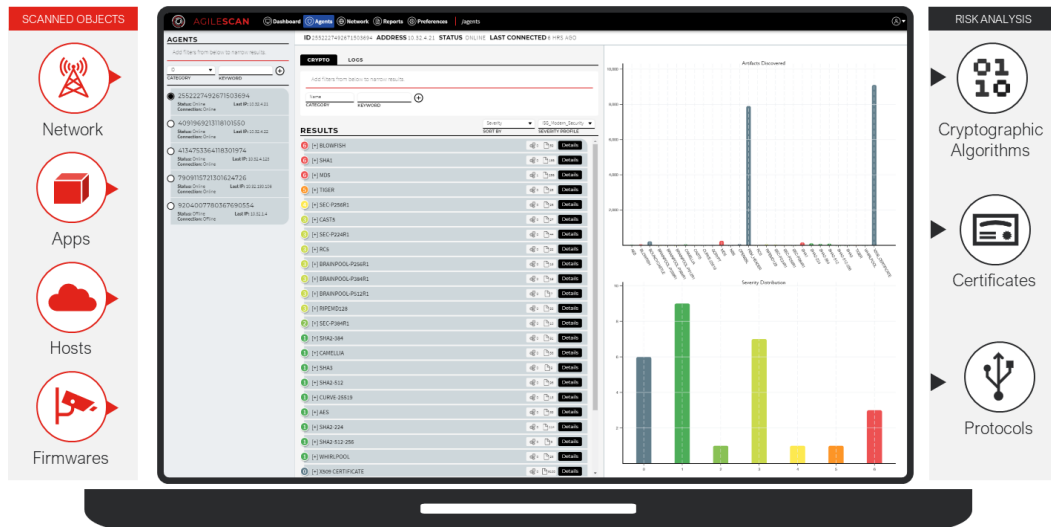| CHALLENGE N°1	CHALLENGE N°2	CHALLENGE N°3
Data Protection Regulations Require Strong Cryptography	**Cryptographic Vulnerabilities are Often Invisible**	**Preparing for Post-Quantum Readiness**
Organizations subject to new and upcoming data protection regulations must ensure sensitive data is protected with "strong" cryptography. Any trace of outdated mechanisms may constitute a breach of compliance.	Most companies are not aware of their reliance on cryptography and have no visibility to where it is being used, making it impossible to respond rapidly in case of critical cryptographic compromise.	Planning the transition to a quantum safe environment may take a significant amount of time and resources, and without a deep understanding on crypto use in the enterprise, will lead to poor implementation.

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The Solution

AgileScan is a cryptographic security management solution that quickly, easily, and automatically generates an inventory of cryptographic algorithms and certificates found in software and systems across the enterprise. It pro-actively hunts for cryptographic risks and vulnerabilities, providing answers in seconds. AgileScan accelerates cryptographic compliance and post-quantum readiness for Enterprises, Governments, and OEMs.

Cryptography | Mapping

AgileScan pro-actively scans company infrastructure including applications, hosts, and networks for the presence of cryptographic artefacts (algorithms, certificates, and protocols) and detects risks or breaches of compliance.

Cryptographic Algorithms | Risk Analysis

AgileScan scans for cryptographic algorithms embedded within binaries (apps, processes, services, etc.) and verifies their compliance with industry standards. Easily pivot between current and post-quantum cryptographic risk profiles.

Certificates and Keys | Risk Analysis

AgileScan hunts for certificates embedded within applications and hosts, verifies different security parameters and reports on potential vulnerabilities, including in-secure algorithms, self-signed, expired, soon-to-expire, and others.

Cryptographic Protocols | Risk Analysis

AgileScan detects network protocols used by web applications deployed in both private or public clouds, verifies protocols versions and cipher suites, and reports on potential vulnerabilities, risks, or weaknesses.
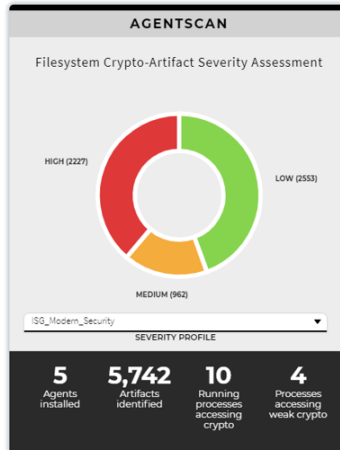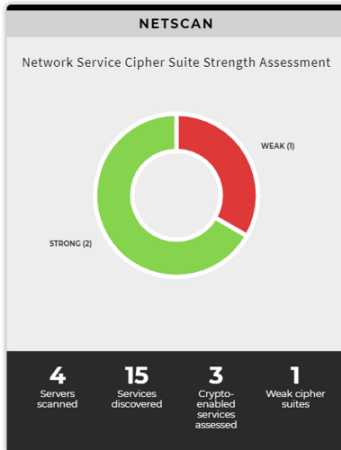
Key Capabilities

AgileScan is a unique analysis solution that detects hidden cryptography vulnerabilities embedded deep within applications and systems without requiring timely, expensive, and complex manual source code inspection. AgileScan has the following key capabilities:

CRYPTOGRAPHIC ALGORITHMS RISK SCANNING	
Identify cryptographic vulnerabilities and artefacts in binary applications	✓
Identify cryptographic vulnerabilities and artefacts in Java/PHP/Python applications	✓
Identify processes accessing vulnerable cryptography	✓
Identify presence of vulnerable cryptographic libraries	✓
Identify presence of vulnerable known cryptographic algorithms	✓
Identify presence of custom implementation of vulnerable cryptographic algorithms	✓
CERTIFICATES RISK SCANNING	
Identify cryptographic vulnerabilities in certificates	✓
Identify certificate status and age	✓
Identify certificates embedded into binaries	✓
Identify certificates hidden in filesystems	✓
Identify certificates embedded into Java and interpreted languages	✓
Identify revoked or out-of-policy Certificate Authorities (CAs)	✓
NETWORK CRYPTOGRAPHIC RISK SCANNING	
Identify cryptographic vulnerabilities present in protocols	✓
Identify cryptographic vulnerabilities present in cipher suites	✓
CRYPTOGRAPHIC RISK REPORTING	
Reporting of findings in PDF	✓
Reporting of findings in Word	✓
Reporting of findings in Excel	✓
SIEM interface	✓
REST interface	✓
Compare cryptography stance to industry best practices (NIST, PCI, ENISA, etc.)	Coming Soon!
Compare cryptography stance to Post-Quantum Cryptography (PQC)	✓
Customize severity of vulnerabilities based on your unique risk factors	✓

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Reporting

AgileScan's reporting functions provide both easy to understand top-level reports for your leadership team and in-depth analysis for your technical staff. You can provide at-a-glance answers to exposure and specific results for your security and engineering teams in only a few clicks.

NETSCAN
Network Service Cipher Suite Strength Assessment

WEAK (1)

STRONG (2)

4	15	3	1
Servers scanned	Services discovered	Crypto-enabled services assessed	Weak cipher suites

AGENTSCAN
Filesystem Crypto-Artifact Severity Assessment

HIGH (2227)

LOW (2553)

MEDIUM (962)

ISG_Modern_Security
SEVERITY PROFILE

5	5,742	10	4
Agents installed	Artifacts identified	Running processes accessing crypto	Processes accessing weak crypto

✔ Risk Overview
✔ Intuitive Severity Ranking
✔ Severity Descriptions
✔ Recommendations
✔ Quantum Safe Profiles
✔ Report Exporting
✔ SIEM Integration

Use-Cases

Compliance Assessment

Comply with regulations by automatically verifying that operational systems, applications, and network services are using industry standard, up-to-date, and compliant cryptography.

Critical Application Analysis

Make sure the applications you deploy within your operational environment are running safe and compliant cryptography, without requiring complex manual source code inspections... or access to source at all!

Sensitive Firmware Analysis

Make sure critical or sensitive firmware uses safe and compliant cryptography without requiring access to source code. AgileScan can discover out-of-date cryptography in seconds.

INFOSEC GLOBAL

Infosec Global (ISG) is leader in crypto agility and cryptography lifecycle management. ISG provides technology innovation, thought leadership, expertise, products and services to future proof digital safety while helping governments and enterprises achieve trust through compliance to cryptographic regulations, worldwide. ISG's crypto leadership team and board are responsible for many of the global standards that are in place today (i.e. SSL, AES), and are helping shape future ones.