affirmlogic
securing the world's software

Hyperion Cybersecurity Platform Solution Information

The Cyber Threat

We're in a cyber war, and we're losing. Just ask OPM, IRS, Yahoo, Google, JP Morgan, Target, and hundreds of others.

Current methods for malware detection are widely recognized as insufficient for today's threats.

No amount of expenditure seems to be enough.

The Software Problem

Software with unknown behavior has unknown security. Is zero-day or sleeper code embedded in your software?

The final arbiter of security is the behavior of code on the chip. Is it legitimate or malicious?

Awards and Endorsements

Hyperion has received the prestigious R&D 100 Award. Previous winners include HDTV and MRI.

"You are setting a new standard in cybersecurity."
Fortune 50 Principal Investigator

"Hyperion provides visibility into our software we've never had before."

Fortune 50 Aviation Division Director

For More Information
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AffirmLogic Hyperion Platform

Hyperion v2.2.10 computes the behavior of software to find malware, provide actionable intelligence, and protect networks. Using the deep semantics of binary code, it provides previously unavailable visibility into software in three packages:

Detect Finds malicious content in software. Provides quick-look and location and function of malicious behavior.

Reverse
Automates Reverse Engineering of malicious content. Provides structured equivalent of malware with embedded behavior.

Defend
Creates powerful behavior-based signatures to multiply effectiveness of existing AV tools for network defense.
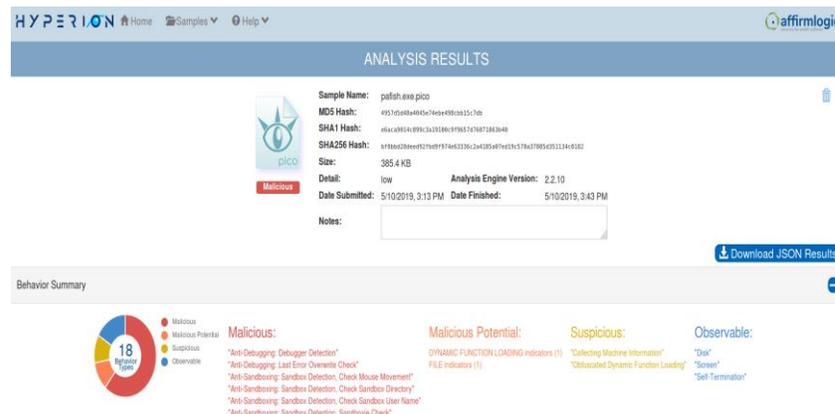
Hyperion Use-Cases

Threat Detection

Reveal malware (including zero-day and sleeper) in software despite malware scattering and obfuscation.

Incident Response

Perform detailed analysis of pinpointed malware behavior for fast and knowledgeable responses.

Reverse Engineering

Experience 20x cost saving with structured code containing embedded computed behavior for RE.

Enterprise Countermeasures

Create high-fidelity behavior-based fingerprints for network AV tools to protect 1000's of host machines.

Deployment Options

Workstation Version

- 1-10 Users
- Small Business

Appliance Version

- 10-20 Users
- Work Group
- In Development

Cloud Version

- 20-100 Users
- Dept/Agency
- Off-Premise
- In Development

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Customer Benefits

Behavior Computation
Hyperion computes the behavior of code using advanced mathematics to reveal what software does.

Zero Days, Sleeper Code, and Obfuscated Malware
Hyperion routinely finds malware others can't because it is very hard to hide malware in computed behavior.

Capturing Analyst Expertise
Hyperion captures and reuses analyst malware expertise through sharable Behavior Specification Units (BSUs).

Reverse Engineering Automation
Hyperion automates RE by providing structured code with embedded behavior for fast understanding with less effort (documented 20x ROI)

Network Protection with Behavior Fingerprints
Hyperion creates behavior-based fingerprints as signatures to re-energize existing AV tools in a closed-loop process for future network and host protection.

### No Signatures, No Execution, No Source Code
Hyperion does not scan or execute code and requires no code signatures or execution environments. It operates on chip-level code to approach ground truth.

Reduced Cost and Risk
Hyperion integrates malware detection, analysis, and network defense into a single integrated platform.

AffirmLogic Total Solution

Hyperion v2.2 advanced cyber analytics can integrate into a variety of workflows as illustrated below. Hyperion spans detailed malware detection and analysis up to enterprise network protection, all with the same computed information.
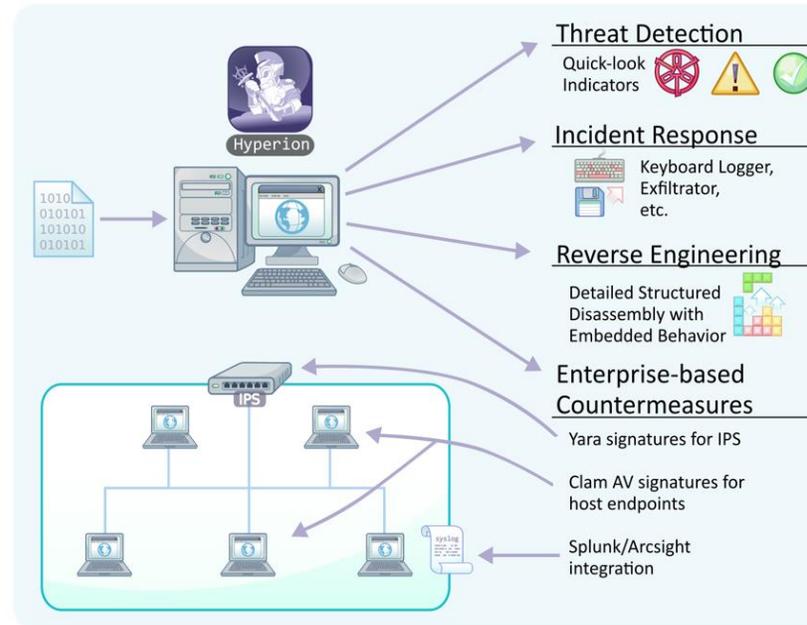
Hyperion Version v2.2.10

This version is available now.

Hyperion Packages

The Detect includes the Detection Map which defines the software hierarchy, and the Computed Behavior Report which pinpoints the location and function of malicious content.

The Reverse provides the Structured Disassembly Report with embedded behavior to automate Reverse Engineering.

The Defend provides high-fidelity behavior-based signatures for enterprise network protection with existing AV tools.

Workflow Integration

All Hyperion results reside in a JSON repository. Code libraries for Javascript and Python permit customization of reports and integration.

All deployments will share the web browser interface. The workstation version is available now. Appliance and cloud versions are planned for future delivery.

Evaluating Hyperion

A 15-day evaluation period is available. Hyperion is easy to install and use. Support is available for workflow integration and custom reporting to meet your needs.

Our customers can participate in an advisory group to helps guide evolution of Hyperion for maximum value.