

SOLUTION BRIEF

Armis Asset Intelligence Engine

AI-powered knowledge base, monitoring billions of assets world-wide in order to identify cyber risk



When it comes to cyber exposure management and security, early identification of a rogue asset may be the critical difference. How can you be sure that an asset is acting normally or is “going rogue”?

The **Armis Asset Intelligence Engine covers over 5 billion assets**, roughly 20% of the devices connected to global networks. It delivers significant insights covering 25,000 locations, 165 countries, and 17 industries. It allows for reports over various periods of time to support everything from business intelligence and investment strategies to cyber intelligence and threat hunting.

Armis collects anonymized data about the attributes and behavior of each monitored asset, putting together a baseline profile for each asset type. This includes information such as how often each device communicates with other devices, over what protocols, how much data is typically transmitted, whether the device is usually stationary, what software runs on each device, etc. This enables Armis to do a few important things:

Asset Fingerprinting

When detecting newly connected assets Armis can quickly identify the asset type- a laptop, a mobile phone, an IP camera, or something else. With a growing number of new connected assets, fingerprinting ensures you are aware, and understand what type of assets are being connected in your environment. And we record and keep a history on everything each asset does.

At a Glance



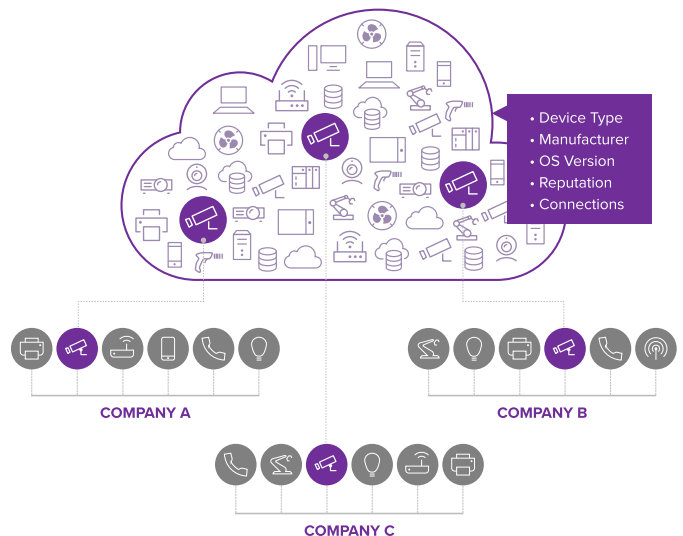
The Armis Asset Intelligence Engine is an AI-powered knowledge base, monitoring billions of assets worldwide to identify cyber risk patterns and behaviors.



It feeds the Armis Centrix™ platform with unique, actionable cyber intelligence to detect, prioritize and remediate real-time threats across the entire attack surface.

Deduplication and Conflict Resolution

As Armis gathers information from various data sources, duplicate or redundant information can become a problem. Armis’ ability to understand various asset attributes helps us identify and deduplicate information, which enables our customers to trust the presented asset data as a single source of truth.



Context Matters

With the Asset Intelligence Engine, Armis Centrix™ understands what the asset is, what it is doing, and more importantly, what it should be doing. This is because we understand the context of each asset in its use in each environment.

After all, a tablet is not just a tablet. It may be used to check people in at an office lobby, to drive a video conferencing solution in a boardroom, or run a production line, or used by a doctor in an emergency room. Context is critical to know the correct behavioral profile of an asset.

By analyzing asset profiles, Armis not only identifies the connected asset type but also adds more data about them based on the knowledge gathered from similar assets we are already monitoring. Armis provides valuable data enrichment quickly after the initial asset discovery, without requiring manual input, allowing users to quickly gain added asset intelligence.

Armis Labs Research

Armis research teams perform proactive research on various assets and feed research directly into the SaaS platform through the Asset Intelligence Engine. In addition, it feeds external third-party alerts on various devices, from manufacturers, the FBI, the FDA (for medical devices), and more.

Industry Benchmarking

Armis Industry Benchmarks offers an opportunity to elevate your company’s performance by learning from the successes and strategies of your peers and competitors. Directly within the Armis Centrix™ interface, using intuitive, interactive dashlets, we allow you to see what your industry peers are doing right and identify your areas for improvement. A few common use cases include:



- End-of-life operating systems: using bar charts based on device-OS versions to monitor and compare how your organization is performing in technical debt reduction.
- Aggregated risks: using pivot tables and applying a calculation for average risks. This view helps you understand how your average risk per device type compares to your peer groups.

Industry Benchmarks

Real time insights from billions of assets worldwide

Assets tracked 5,654,296,310

See how your assets compare against a vast collection of assets from your industry

Peer Group: Retail Trade ⓘ

[Show Benchmarks on this dashlet](#)
[Learn more about how Armis uses your data >](#)

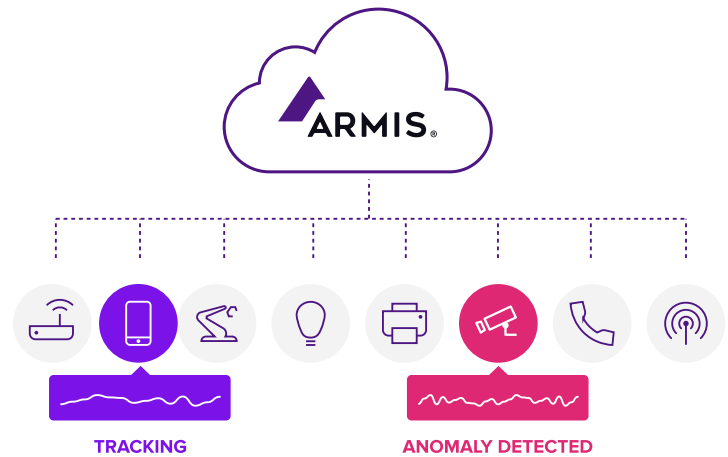
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Threat Detection

Asset insights enable Armis Centrix™ to classify assets and detect threats with a high degree of accuracy.

Armis Centrix™ compares real-time asset state and behavior to “known-good” baselines for similar assets we have seen in other environments. When an asset operates outside of its baseline, Armis Centrix™ issues an alert or can automatically disconnect or quarantine an asset.

Alerts can be triggered by a policy violation, a misconfiguration, or by abnormal behaviors like inappropriate connection requests, a spike in traffic volume, communication with an unknown destination, or unexpected software running on an asset.



Armis Intelligence Center

The Armis Intelligence Center provides breakthrough analytical insights. Through a dedicated web portal and API connections, it delivers significant insights and facilitates periodic reporting to support everything from business intelligence and investment strategies to cyber intelligence and threat hunting. Typical users include:

- | Critical infrastructure researchers and analysts
- | Consulting companies in need of intelligence to include in their pitch decks or analysis reports
- | Military and government agencies responsible for protecting their country, state, city, or municipality
- | Cyber insurance providers who use the data for underwriting purposes

The Armis Difference

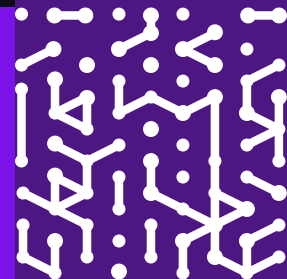
Continuous asset intelligence is fundamental to maintaining an effective cybersecurity posture and managing your total cyber exposure. Only Armis has an AI-powered Asset Intelligence Engine that contains profiles on billions of assets. Armis provides a true understanding of what assets you have and how they should behave and provides you with global analytic insights and benchmarks on your industry peers.

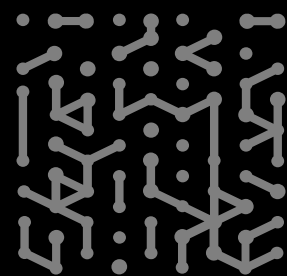
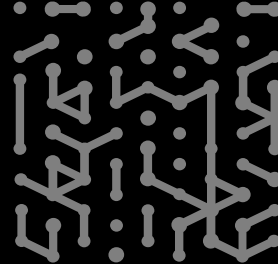
Armis Asset Intelligence Engine Benefits

- | Quick time to value
- | Invaluable and actionable insights
- | Dynamic, contextual asset inventory
- | Accurate threat detection and response

“We’re making million-dollar decisions based on the data that Armis provides us. In the long run, that translates to significant savings.”

Nguyen Bui, Director of IT
Cleveland Independent School District





Armis, the cyber exposure management & security company, protects the entire attack surface and manages an organization's cyber risk exposure in real time.

In a rapidly evolving, perimeter-less world, Armis ensures that organizations continuously see, protect and manage all critical assets - from the ground to the cloud. Armis secures Fortune 100, 200 and 500 companies as well as national governments, state and local entities to help keep critical infrastructure, economies and society stay safe and secure 24/7.

Armis is a privately held company headquartered in California.

1.888.452.4011

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