AXONIUS

From Asset Management to Asset Intelligence

THE ASSET CHALLENGE.

THE ASSET CHALLENGE.

WHY IS ASSET MANAGEMENT SO DIFFICULT?

IS MY AGENT EVERYWHERE IT SHOULD BE?

AXONIUS

IS MY AGENT EVERYWHERE IT SHOULD BE?

AXONIUS

WHICH UNMANAGED DEVICES ARE ON PRIVILEGED NETWORKS?

ARE MY CLOUD VMs BEING SCANNED FOR VULNERABILITIES?

6 ESSENTIAL QUESTIONS ABOUT EVERY ASSET.

1. Is the asset “known” and managed?

2. Where is it?

3. What is it?

4. Is the core software up to date?

5. What additional software is installed?

6. Does it adhere to my policies?

AXONIUS

WHAT IS A CMDB

WHAT IS A CMDB.

- Configuration Management Database
- Store information about hardware and software assets
- Acts as a central data warehouse
- Used to establish and maintain relationships and dependencies between assets
- Not an asset management tool
- Often misused as a reporting tool

WHO USES A CMDB.

- Configuration Management Database
- Server and Workstation Management Teams
- Governance, Risk, and Compliance
- Finance
- Network Infrastructure and Management Teams
- IT Architects
- Security Operations

CORE PROBLEMS WITH ASS MANAGEMENT (AND WHY CMDBs FAIL SECURITY TAEMS

1. NOT COMPLETE -

DOES NOT CONTAIN ALL ASSETS

2. NOT FULLY CONTEXTUAL

TOO LITTLE INFO

NOT UNIQUE

3. NOT UNIQUE -

OFTEN DUPLICATE ASSETS EXIST, CHANGING IP ADDRESSES CAUSES PROBLEMS

NOT CREDIBLE

4. NOT CREDIBLE -

CONFLICTING DATA

NOT CREDIBLE

5. NOT UP TO DATE -

UPDATE CYCLE OF INPUTS TOO INFREQUENT

NO ABILITY

6. NO ABILITY

TO EXPLICITLY SEARCH FOR PAST, PRESENT AND FUTURE COMPLEX (SECURITY) CONDITIONS

WHY?

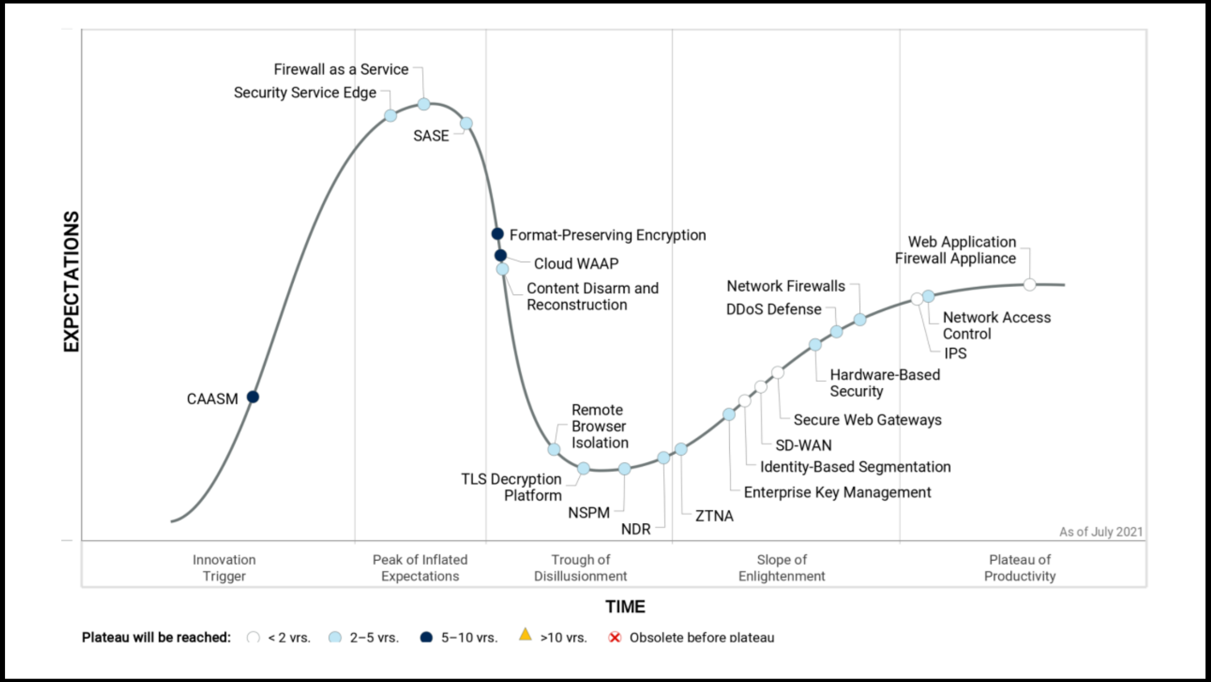
WHY DOES THIS MATTER?

- NIST Cybersecurity Framework v1.1
- NIST 800-53 and NIST 800-171
- Cloud Controls Matrix v3.0.1
- Critical Security Controls Version v7.1

DATA SOURCE DIVERSITY IS CRITICAL TO ASSET MANAGEMENT AND ULTIMATELY SECURITY PRACTITIONERS

CAASM.

- Cyber Asset Attack Surface Management
- Added to Gartner Hype Cycle July 2021
- Focused on asset visibility and vulnerability challenges
- Shows all assets (internal and external) through API integrations with existing tools
- Queries consolidated data to identify vulnerability scope and gaps in controls



SOURCE: Gartner Hype Cycle for Network Security, 2021

AXONIUS

WHAT’S DRIVING CAASM ADOPTION?

IT DRIVERS

- □ DEVICE DISCOVERY
- □ ENDPOINT MANAGEMENT
- □ CONFIGURATION MANAGEMENT

SECURITY DRIVERS

- □ INCIDENT RESPONSE
- □ VULNERABILITY MANAGEMENT
- □ GRC AND AUDIT

ALL OTHER TOOLS ARE COLLECTORS.

WHAT'S NEEDED **IS AN AGGREGATOR.**

THE APPROACH

THE APPROACH.

By connecting to all the security and management solutions customers:

- **Agentless**
- **Discover security coverage gaps**
- **Validate and enforce policies**

ASSET INTELLIGENCE INSTEAD OF

ASSET MANAGEMENT.

NOT JUST SEMANTICS

REAL DIFFERENCES.

	ASSET MANAGEMENT	ASSET INTELLIGENCE
Primary Focus	Show me the device and license lifecycle	Show me all assets, context, and surface what needs attention
Data Source(s)	CMDB	Agnostic. Collects and correlates data from hundreds of sources
Asset Types	Physical hardware	Desktops, laptops, servers, cloud instances, users, applications IoT devices and more
Result	Conflicting, outdated, unusable data	Clear understanding of all assets, how they relate to policies, and custom response actions when needed
Use Cases	• Hardware inventory • Software inventory	• Device Discovery • CMDB Reconciliation • Network Management • Configuration Management • Asset and Solution Consolidation • Endpoint Protection Management • Vulnerability Management • Incident Response • Cloud Asset Compliance • GRC and Audit

AXONIUS

COMMON USE CASES.

COMMON USE CASES

IT USE CASES

□ DEVICE DISCOVERY

- Unmanaged vs. Managed Devices
- Ephemeral Devices

□ ENDPOINT MANAGEMENT

- Devices Missing Agents
- Devices with Agents Not Functioning

□ CONFIGURATION MANAGEMENT

- CMDB Reconciliation
- Configuration Monitoring

SECURITY USE CASES

□ INCIDENT RESPONSE

- Understanding Device Coverage and Context
- Pivoting Between Alert, Device, State and Users

□ VULNERABILITY MANAGEMENT

- Devices Not Being Scanned
- Prioritizing CVEs

□ GRC AND AUDIT

- Meeting Benchmarks and Regulations
- Satisfying Audit Requirements

AXONIUS

HOW TO SOLVE ASSET MANAGEMENT

QUESTIONS?

THANK YOU!

Ronald Eddings,

Axonius

Creative Director, Education

Ron@axonius.com

Christopher Cochran,

Axonius

Creative Director and Cybersecurity Advocate

Chris@axonius.com

AXONIUS