

For Financial Services

Overview of Sepio's Asset Risk Management Platform



Hardware assets pose major security concerns



1

Visibility and validation of **all Hardware Assets** including:

- Peripheral devices
- (MAC-less devices)
- Hardware BOM



2

Hardware Zero Trust

Control access to the enterprise through granular policy enforcement & hardware identity validation



3

Rogue Device Mitigation (RDM) of spoofed,

manipulated devices, and hidden implants



4

Detection of Hardware Manipulation

within the supply chain



Hardware attack tools are gaining popularity

- Every physical asset is an exposure
- Uncontrolled assets are an entry point for malware/ransomware payloads
- Uncontrolled assets are an exit door for sensitive data leakage
- Uncontrolled asset provide a permanent foothold for threat actors in the organization:
 MiTM, Data manipulation etc.



Is it really happening? Yes! Why? Attackers are pursing the path-of-least-resistance

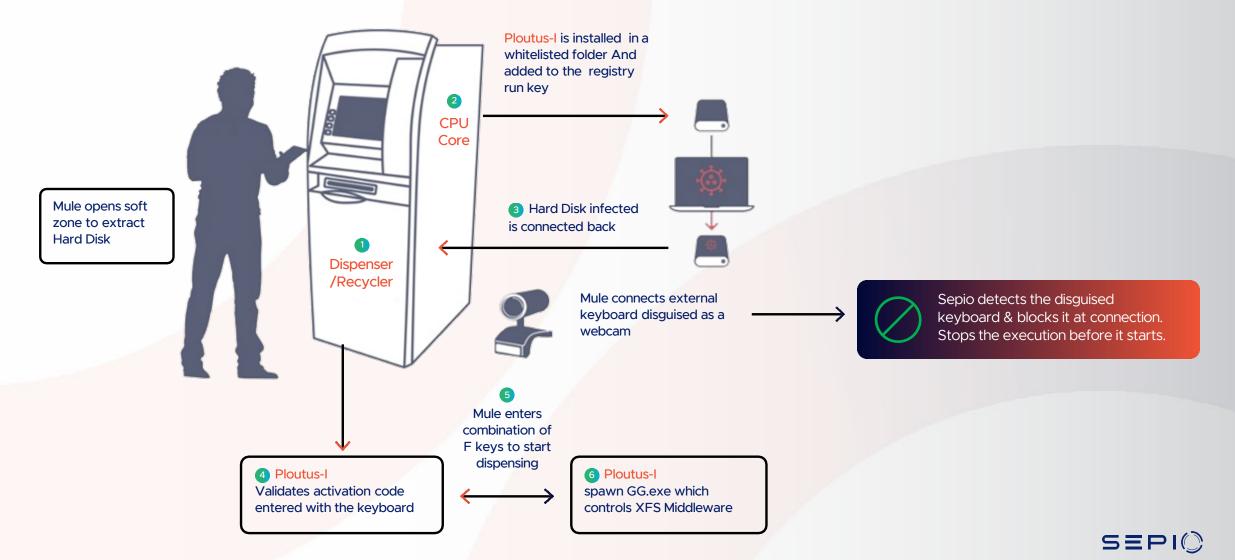




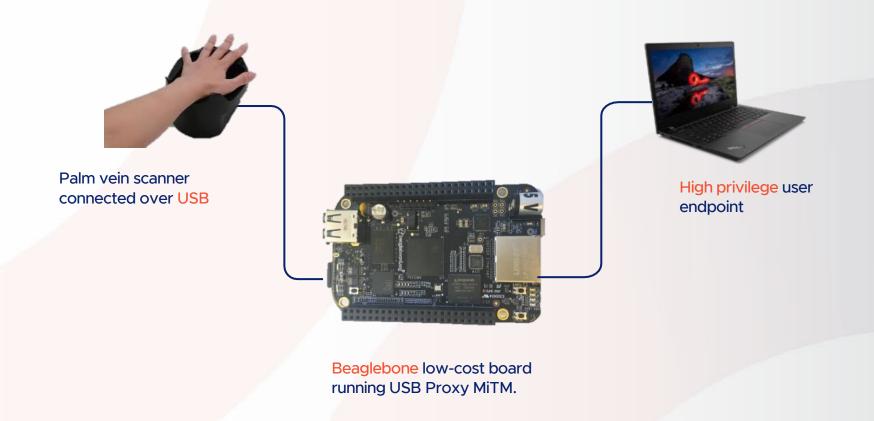
Use cases



ATM use case: FiXS The new ATM malware in LATAM

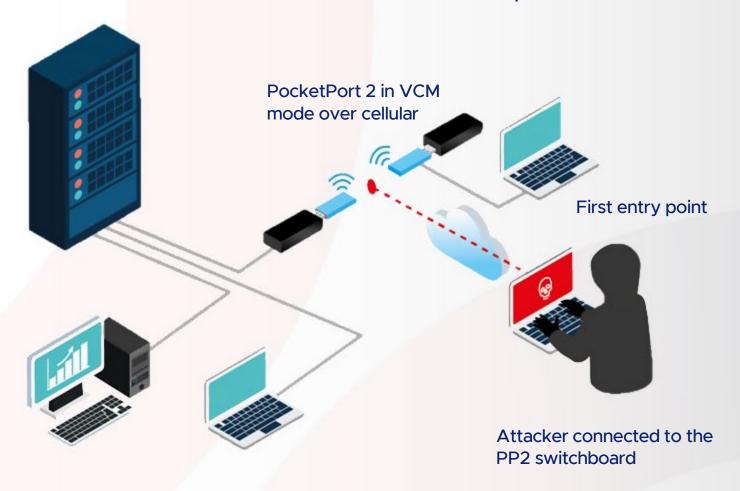


USB use case: Bypassing biometric security measures





Network use case: MiTM transparent attack





Peripheral asset attacks

Way In



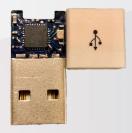
Depending on attacker's "style" and prior knowledge of the target, they will either:

- Use HID emulation for binary payload
- "Send" the target PC to a pre-known/prepared web URL to download the payload
- Act as a Network Interface and inject the payload into the PC
- Use USB Proxy MiTM attacks

Way Out







- Exfiltrate the data directly to the attack tool
- Use an integrated Wi-Fi to remotely extract
- Connect to the internet and exfiltrate the data
 "invisibly" such as adding comments on youtube
- Use continuous and invisible remote shell into corporate PCs



Network asset - MiTM & 802.1x bypassing

- Unmanaged switch & uncontrolled (MiTM) hardware are completely invisible to NAC and IDS/IPS
- Any device that is connected poses a risk-
 - Spoof to be a legitimate device and send traffic into the network
 - Intercept/manipulate traffic between a legitimate asset and the network
 - Invisibly infect/attack a legitimate asset without being flagged
 - Create as invisible and continuous foothold in the infrastructure







Questions our customers ask themselves

- ? Do I see all my assets?
- ? Are there any vulnerable assets?
- ? Are the assets, what they say they are?
- Is there something connected in the middle?
- ? Do I have regulatory compliance gaps?



Existing technologies blind spots



Friend or Foe?







Same MAC



MAC:00D085045802

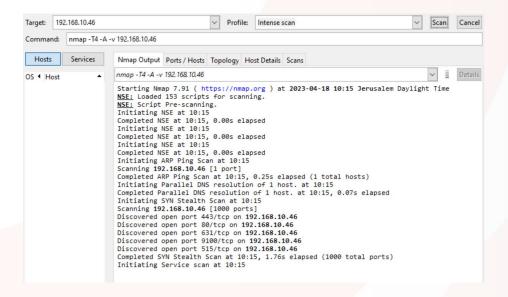


MAC:00D085045802

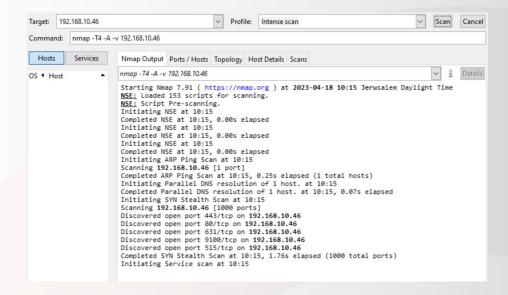


Same Ports







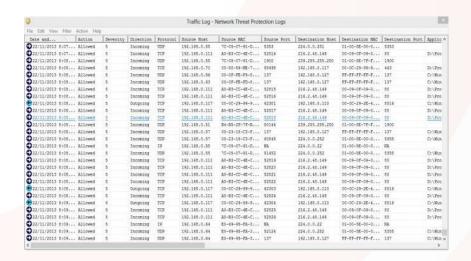


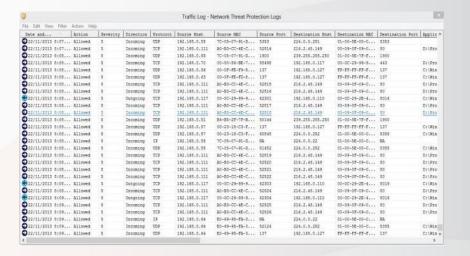


Same Traffic







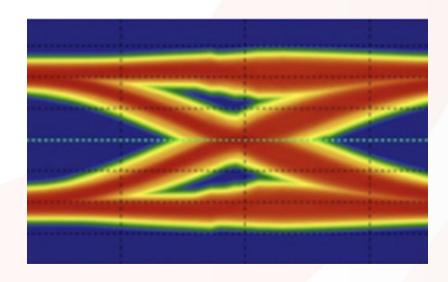


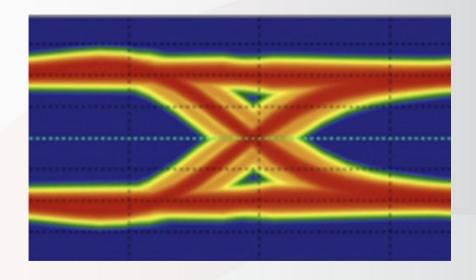


Different Asset DNA!

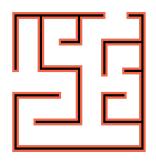












Passive network probing is an IT/OT nightmare

Sepio's trafficless solution avoids cumbersome deployments and privacy issues, vertical, type and protocol indifferent, at any scale, without effecting the network performance.





XDR/EDR device control still has blind spots

Sepio's enhanced visibility provides unmatched rogue device mitigation, while supporting USB entitlement at scale.





Go beyond legacy NAC solutions

Embrace Sepio's Zero Trust Hardware Access (ZTHA) to augment your ZTNA initiatives across all your assets (IT/IoT/OT).

Establish trust validate assets, enforce regulatory compliance with a single low TCO solution.



Sepio's unique approach



Sepio's approach: Identify and validate

- Visibility and identity gaps
- Business value





Harnessing new data source.
Getting to the true source of asset risk without traffic monitoring

- O Create an Asset DNA
- Risk assessment
- Asset mapping





How do we do it?

Asset DNA

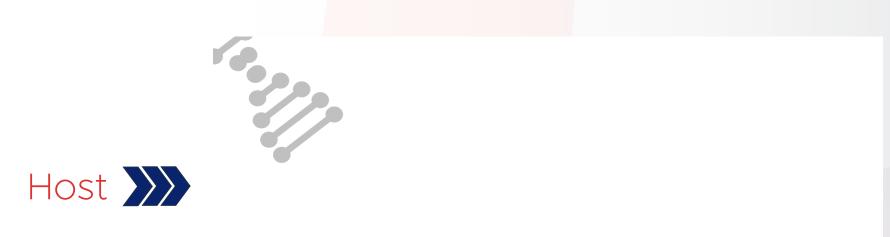


Asset DNA provides a single source of truth, focusing on EXISTENCE – rather than ACTIVITY.

With our patented technology, we now harness a new data source – physical layer to accurately identify and classify your assets.



Introducing Asset DNA







ARF - Risk Assessing





Sepio's proven value for FIS





Finance Business Benefits

GG

Sepio sheds light on items I couldn't identify and now I can make better decisions; I can contextualize what a device is where I wouldn't have had visibility otherwise.

Director of Network Architecture and Engineering, Tier 1 Financial Institution

- Complete asset visibility
- Mitigate rogue devices and supply chain risks.
- Close NAC gaps and fortify micro segmentation
- Support regulatory compliance
- Budget and resource planning
- Apply assets usage policy entitlement, at scale.



Who benefits from our data?

SIEM/SOAR

- Instant alerts when unwanted or rogue devices are connected, eliminating unnecessary noise
- Contextual information, i.e., asset location, expedites response time to prevent crises
- Publicly recognized asset vulnerability module (OSINT and proprietary) for an immediate mitigation

Security team

- Understand what needs attention with actionable data
- Enforce organization policies and establish trust at the asset level
- Greater ROI by radically improving the efficacy of existing tools

ITAM & CMDB

- Reduce complexity with a consolidated source of asset visibility across all environments
- Reduce hardware clutter
- Ensure operational efficiency of assets

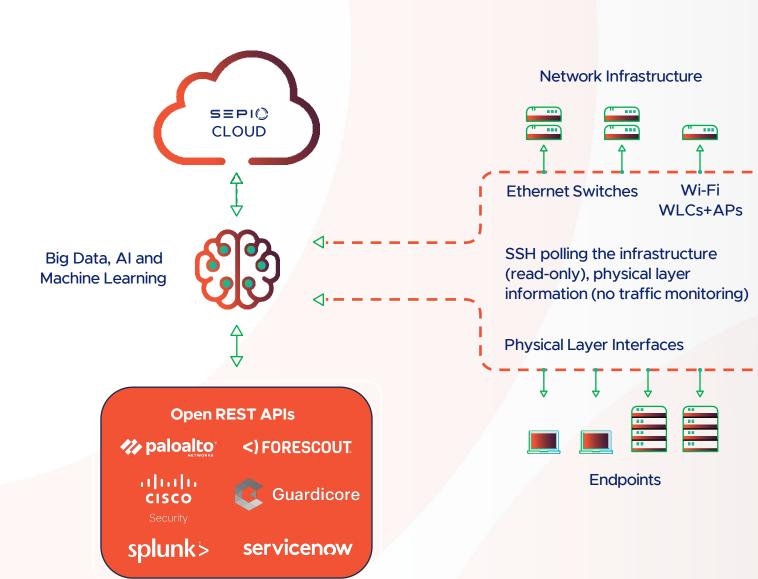
CAASM

- Augment existing data sources
- Validate security controls
- Remediate issues



Architecture and Deployment aspects





Discover & Mitigate

- O All connected assets
- O Asset vulnerabilities
- O Shadow IT
- Spoofed assets



Sepio agent deployment options

- Fixed agent
- Session based
- Dissolvable agent



Typical Customer Journey

Workshop with extended team

Identify key use cases – endpoint or network

PoV – installs in hours; standard duration up to 2 weeks Develop deployment and integration plan Present business case for approval



Deployment process

Install the software only Sepio Platform using preferred method

Cloud, virtual, on-prem or via Azure

Using the browser UI, import a license

Import switches/WLC to Sepio



Deploy Sepio agents

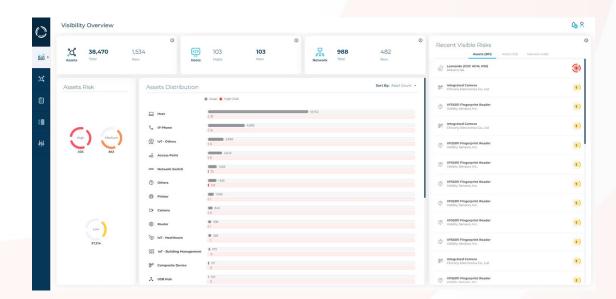


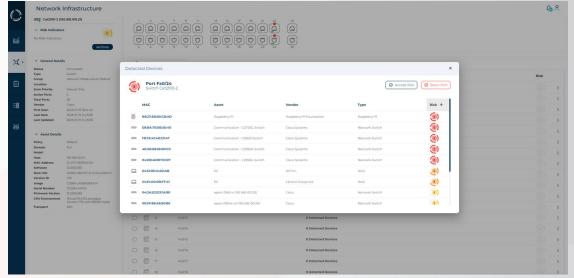
Complete integration in upstream systems

marketplace

Can be done manually by providing IP-SSH username - SSH password Can be done by importing CSV file

Supports Windows/RHEL/Debian Can be installed manually or using a distribution tool







Sepio's Asset Risk Management solution

