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Gartner COOL VENDOR 2020

FROST & SULLIVAN
BEST 2019 PRACTICES AWARD
EUROPEAN ROGUE DEVICE MITIGATION ENABLING TECHNOLOGY LEADERSHIP AWARD

CASE STUDY BRIEF

Zero Trust Security

Industry

Financial institution.

Scenario

Man-in-The-Middle (MiTM) network attack over a network printer.

Attack Tool

Raspberry Pi 4, configured in transparent bridge mode, spoofing a legitimate printer. Leaking PCL files being sent to the enterprise's network printer. Exfiltration done through the built-in AP functionality in the RP4 device.

Duration

Undetected by existing cybersecurity products (NAC/IDS/Other) runs completely passive with no inbound traffic manipulation – allowing it to operate for a long period of time.

Challenge

Enforcing a Zero Trust architecture for IoT devices that are being manipulated on the physical layer.

Result

The "printer" is considered a trusted device, bypassing micro-segmentation and Zero Trust security policy measures.

HAC-1 Solution

HAC-1 implements a Zero Trust Hardware Access policy by verifying the device's true identity with physical layer (L1) information. Extensive built in threat intelligence database for known-to-be-vulnerable devices provides additional valuable risk scoring.

Key Challenges

- Total visibility is required into all IT/OT/IoT assets – Knowing what you have , protecting what you own.
- Compromised devices impersonating as legitimate devices cannot be identified with existing solutions.
- Physical layer MAC-less devices cannot be identified by existing NAC/IoT security solutions as they are MAC-based.

Enterprises are challenged with gaining accurate visibility into hardware assets, especially in today's extremely challenging IT/OT/IoT environment. In order to address this challenge, ultimate visibility into your Hardware assets is required, regardless of their characteristics and the interface used for connection as attackers.

Sepio is the leader in visibility, control and mitigation of hardware assets and is disrupting the cybersecurity industry by uncovering hidden hardware attacks operating over network and USB interfaces. HAC-1, which orchestrates Sepio's solution, identifies, detects and handles all network devices including peripherals; no device goes unmanaged.

Give us 24hrs.

We will provide you with complete visibility and control for hardware devices and augment hardware risk mitigation.

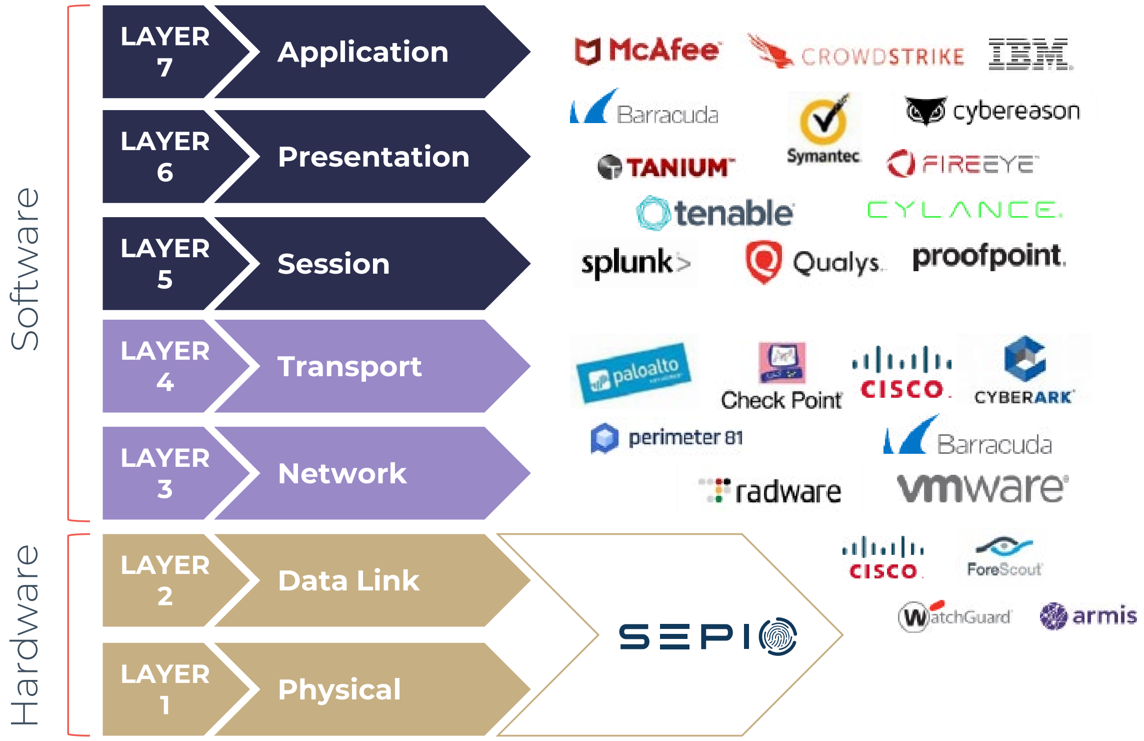
HAC-1 Benefits:

Complete Visibility of All Hardware Assets: With all devices and anomalies detected, enterprises benefit from a greater overall cybersecurity posture. Gaining full visibility of all hardware devices from endpoint peripherals to connected devices (IT/OT/IoT), Sepio uses unique physical layer hardware fingerprinting technology and data augmentation from endpoints and networks.

Full Control through Predefined Policies: Enterprise-wide policies enable compliance, regulation and best practices. With predefined templates and no baselining or whitelisting, and no requirement for a clean environment start, Sepio provides a fast and easy setup.

Rogue Device Mitigation (RDM): Threat mitigation upon discovery of rogue or threatening devices. Integrations with existing security platforms such as NACs and SOARs for mitigation and remediation enhancements.

Where Are We in the Cyber Security "Jungle"?



Software

LAYER 7 Application

LAYER 6 Presentation

LAYER 5 Session

LAYER 4 Transport

LAYER 3 Network

Hardware

LAYER 2 Data Link

LAYER 1 Physical

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About Sepio

Sepio delivers hardware access control (HAC) platform that reduces the risk of unapproved and rogue devices by providing complete visibility, control, and mitigation of all hardware assets. Sepio's hardware fingerprinting, augmented by machine learning, discovers all managed, unmanaged and hidden devices that are invisible to all other security tools. Sepio's solution enhances zero trust, insider threat, BYOD, IT, OT and IoT security programs.

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