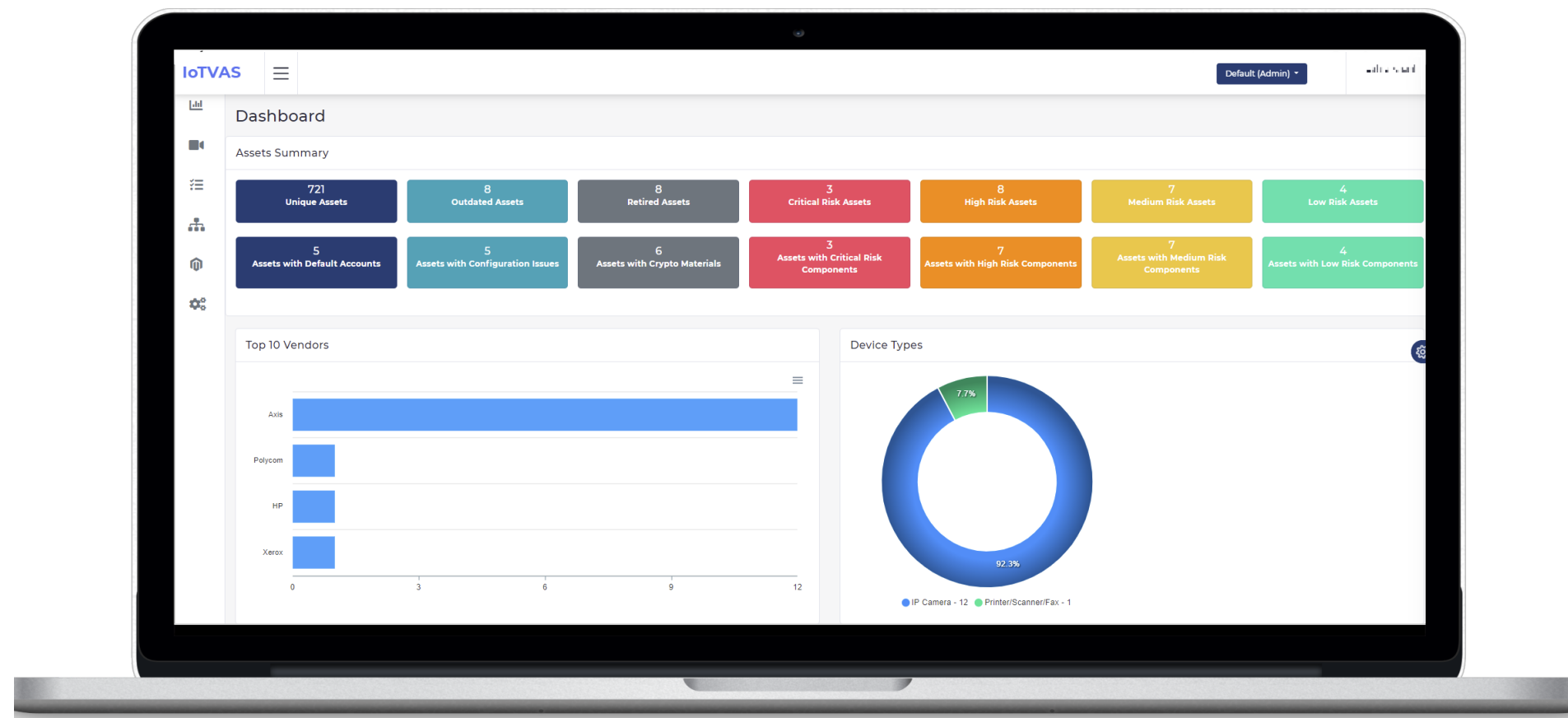


FIRMALYZER

Connected device discovery and vulnerability assessment made **automated, proactive and effective**



THE PROBLEM

The number of network-connected devices in enterprise networks is growing which unlike workstations, laptops and servers are not properly identified and monitored by IT security teams within organizations. While many consider these devices to be “simple”, most of them run flavors of Linux or a real time operating system included with their firmware that are vulnerable in the same way as servers, desktop operating systems and applications. The only difference is that IT administrators cannot install OS monitoring agents or anti-malware software on OT/IoT devices as they do for their fleet of servers and workstations. This makes these devices a prime landing point, attack pivoting and malware persistence in enterprise networks. Therefore, a compromised IoT device may remain undetected for months while being used as a launchpad for attacking internal hosts or exfiltrating sensitive data.

THE CHALLENGE

Traditional endpoint security or vulnerability assessment solutions are impractical for OT/IoT/connected devices vulnerability management for the following reasons:

- They bring very limited visibility into device internals. There is often no OS/service exception and crash reporting by these solutions.
- They often depend on agent installation which is impractical for IoT devices as they have diverse platform architectures.
- They perform active network scanning but since OT/IoT devices are often resource constrained, active scanning causes OS crash in most of them.

IOTVAS SAAS PLATFORM

IoTVAS SaaS discovers IoT/connected devices and their security risks. The platform includes a lightweight software agent that discovers your connected device assets in the local network or on the internet without network traffic capturing or requiring access to device credentials.

It can be integrated with any asset discovery solution that can discover and expose the device manufacturer and model name.

IoTVAS vulnerability detection engine is specifically built for enterprise IoT/connected device security and is based on our global-scale proprietary firmware vulnerability knowledgebase that is constantly growing and evolving automatically as our analysis engine automatically collects and processes new device firmware binaries on behalf of device manufacturers and consumers. Through this knowledgebase, our vulnerability detection engine gains in-depth visibility into the applications running on a target IoT/connected device, their vulnerabilities and associated risks. IoTVAS also keeps tracking the vulnerable devices as they change IP address or move around the network.

THE FIRMALYZER DIFFERENCE



PRIVACY PRESERVING

Does not collect sensitive data



SAFE ON DEVICES

Vulnerability detection does not affect devices



AGENTLESS

No need to touch devices



PROACTIVE

Detects vulnerabilities before they are exploited



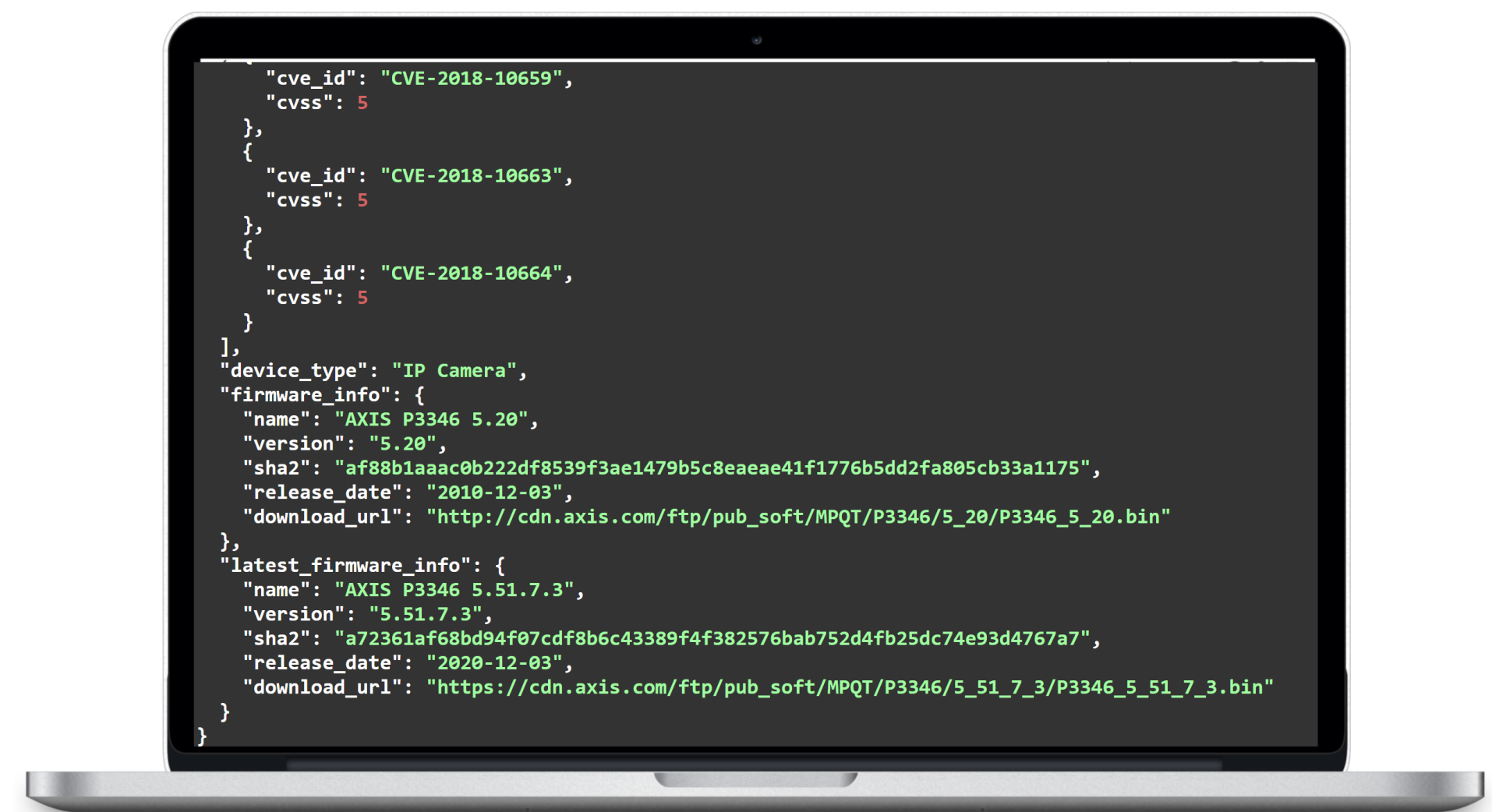
RELIABLE

No false-positives

IOTVAS API

IoT/VAS API is an IoT/connected device identification and vulnerability assessment solution that can be easily integrated with asset discovery, network port scanners and IT vulnerability scanning tools and enable them to perform:

- *Accurate identification of device manufacturer, model name, device type, device end of life status, firmware version and firmware release date*
- *Safe and in-depth vulnerability assessment of identified device including publicly known vulnerabilities (CVE) and unknown vulnerabilities in device firmware code including vulnerable 3rd party components, default credentials, crypto keys, certificates and default configuration issues.*



KEY ADVANTAGES

- Uses device fingerprints based on the network service banners of the device, hence there is no need for collection of the device network traffic
- Identifies devices in the absence of their MAC addresses, hence it can detect remote devices in segmented networks and over the internet
- Provides in-depth real-time device firmware risk analysis of the identified device without requiring the user to upload firmware file
- Easy integration with industry standard security tools such as Nmap and OpenVAS

COMPANY PROFILE

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