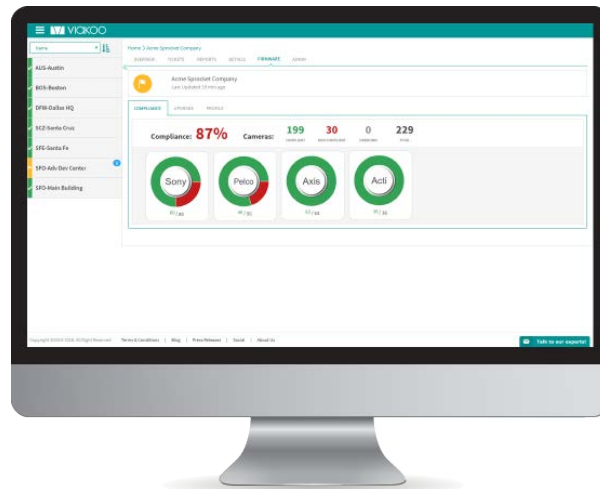


# Camera Firmware Update Manager

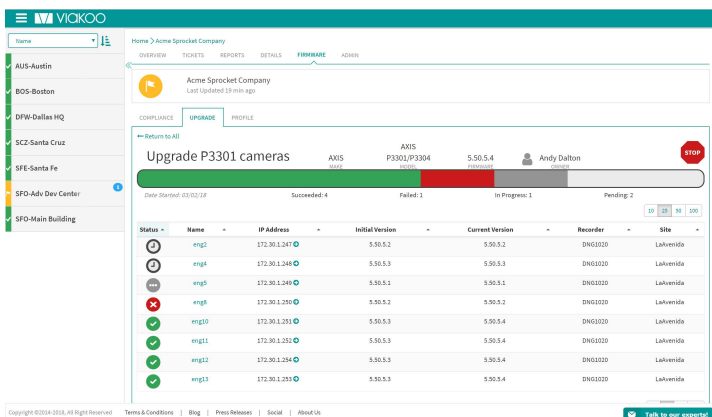
## Safety & Security at Scale

Automate Firmware Compliance  
Achieve Sustainable Cyber-Hygiene  
Report on Firmware Status  
Operate Across Multiple Sites  
Eliminate Manual Effort



### Product Overview

Viakoo's Camera Firmware Update Manager (CFUM) provides capability to automatically update firmware on camera devices from one or more vendors, and perform these updates with a chain-of-trust method that ensures integrity of the firmware. CFUM adds to other foundational capabilities in Viakoo that help organizations achieve sustainable cyber hygiene.



Detailed feedback on camera firmware updating process

*"Viakoo's Camera Firmware Update Manager automates one of the most critical and time-consuming tasks in making a physical security system secure."*

Tony Cassell  
President, Tangent Consulting

### Why You Need CFUM

In 2017 TrendMicro, a leading cyber-security firm, found slightly over 50% of surveillance cameras they were tracking in the United States were infected with one or more malware agents. To make camera devices safe and secure from cyber-threats, camera manufacturers are providing firmware updates more often than ever. To fall behind on updating camera firmware means potentially running with malware or other cyber-threats inside your security network.

Yet for many organizations the time and cost of manually upgrading their camera devices is prohibitive. Viakoo's CFUM is the industry's only solution to automate firmware upgrades across a security system with multiple camera vendors and VMS manufacturers from a single management console, with a chain-of-trust methodology for improved safety and security.

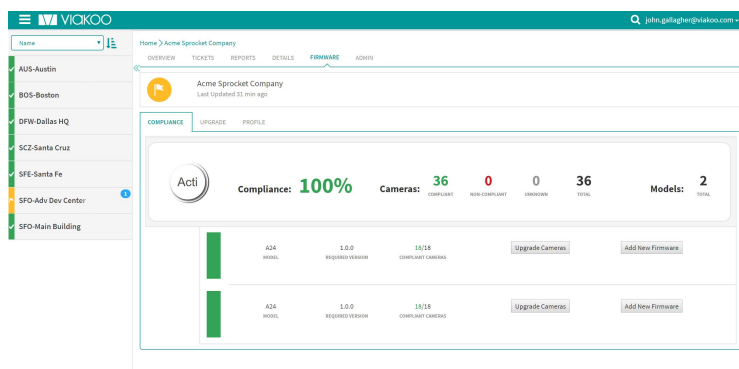
## Feedback, Control, and Reporting on Firmware Upgrade Process

Viakoo's CFUM is designed to be operated from a single management console, and can be performed at any level of your security system hierarchy. Firmware upgrades are accomplished through the three primary interfaces:

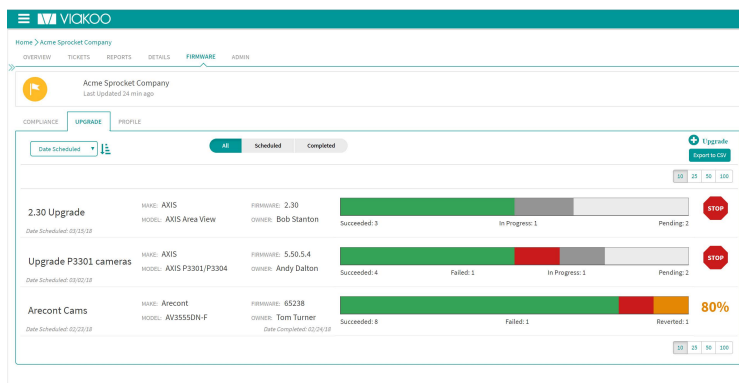
**Compliance:** The compliance tab shows the upgrade status for all devices (by percent and count), summarized by make/model of camera device.

**Upgrade:** The upgrade tab reports on the status and progress of firmware update jobs, providing feedback and control over the upgrade process.

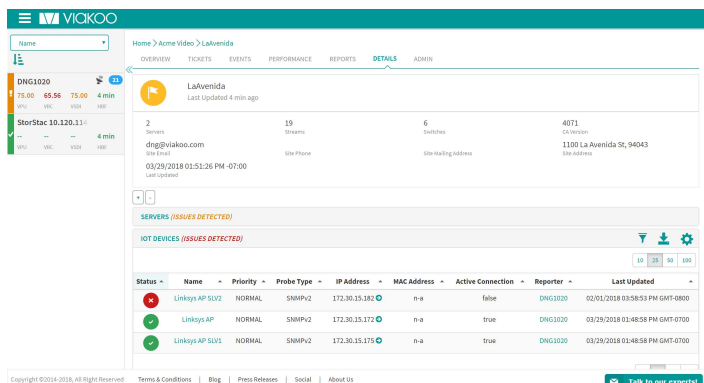
**Profile:** The profile tab is where the firmware versions for updating are managed for compliance definition and chain-of-trust deployment.



Compliance Tab Shows Progress Towards Achieving Full Compliance



Upgrade Tab Provides Control of Upgrade Process



Viakoo IoT Tracker

## Combines with Viakoo's Integrated Cyber-Hygiene Capabilities

Viakoo contains many key pieces of an overall cyber-hygiene strategy, including:

- Automatic inventory discovery
- IoT device tracker
- Camera password checker
- Alert Management
- Continuous system verification
- Governance with QoS metrics

## About Viakoo

Viakoo automatically verifies performance of physical security systems and delivers automated proof of networked physical security system compliance. Leveraging purpose-built technology, Viakoo quickly and automatically detects physical security system failures, diagnoses problems, alerts users with repair information, and maintains historical records on operations.

