

# Viakoo Device Firmware Manager

Automate Security Patching of IoT Devices

## Protect IoT Infrastructure from Cyber Attacks with Automated Firmware Patching on All IoT Devices

Security patches for IoT devices are implemented via device firmware updates, and missing those updates results in IoT device vulnerabilities. Multiplied by the thousands of devices across an enterprise means vulnerability to cyber attacks. Continuously updating IoT device firmware at scale is such a time-consuming manual process that it is effectively impossible to sustain. Viakoo Device Firmware Manager automates this process at enterprise scale to ensure all IoT devices have the latest security patches. Once updating is complete DFM logs the action for audit and compliance purposes, enabling the IoT device to be put back into production safely and repatriated as a full network citizen.

- Remediate IoT device vulnerabilities automatically and at enterprise scale
- Repatriate IoT devices safely back into production as full network citizens
- Automate IoT device audit compliance and governance
- Continuous security patching with automated firmware updates, at enterprise scale
- Built-in Chain-of-Trust to ensure firmware integrity

# No More Manual IoT Device Patching

Viakoo Device Firmware Manager provides capability to automatically update IoT device firmware on Loosely Coupled and Tightly Coupled IoT devices at enterprise scale. DFM works with devices from a wide variety of vendors, performing

updates with a secure Chain-of-Trust methodology that ensures integrity of the firmware. DFM is a module of the Viakoo Action Platform™ that together deliver full remediation and repatriation of IoT devices to complete an enterprise IoT security solution.

Tightly coupled devices are collections of devices that work together as a team to achieve a specific business outcome.



## Data to Insight to Action

Viakoo DFM gives you detailed information about your IoT devices - but most importantly automates taking action to secure them.



## Always Be Compliant

Whether to meet internal governance or to successfully pass external audits, Viakoo DFM guides your team to always be in compliance.



## Secure Chain-of-Trust

Viakoo DFM has a built-in chain-of-trust methodology to ensure devices have safety at scale in updating firmware.

## Gain Confidence in Your Firmware

DFM starts with a device discovery and compliance report, providing actionable insight into firmware status. Devices are updated with a few clicks, and DFM ensures only valid and functional firmware is deployed, along with a history of changes for audit purposes. DFM automates deploying firmware on thousands of IoT devices wherever they are.

## Dramatically Shrink Your Attack Surface

- Automate security patching of IoT devices
- Operate across the enterprise
- Eliminate repetitive manual efforts
- Enable tool consolidation
- Automate firmware compliance reporting

## Viakoo Action Platform Suite™

### The complete Viakoo Action Platform Suite includes

- Device Firmware Manager (DFM)
- Device Certificate Manager (DCM)
- Device Password Manager (DPM)
- Viakoo Action Platform

### Enabling the enterprise with the Viakoo Action Platform™ Suite

The Viakoo Action Platform with DFM, DCM, and DPM is a complete enterprise IoT device security solution solving the problem of managing 10,000s to 100,000s of IoT devices affordably. Delivered as a SaaS offering, the solution ensures all devices are inventoried, in compliance with internal policy, and are

continuously remediated and repatriated as full network citizens. This scalable, automated solution reduces an organization's risk, saves time and cost while delivering on IoT device ROI. The flexible and modular solution allows you to start small and grow over time while delivering value at each step. Get the Viakoo Action Platform data sheet.



## Viakoo Action Platform Modules

### Device Firmware Manager

Security patches are crucial for IoT device security. Security patches are made through IoT firmware upgrades and must be implemented continuously as they become available.

Device Firmware Manager automates the process of firmware updates on IoT devices, at scale across the enterprise. DFM provides compliance reporting complete with a history of changes for audit purposes. A secure “chain-of-trust” ensures only valid and functional firmware is deployed, and complete automation allows for updates of thousands of devices wherever they live.

### Device Certificate Manager

Device Certificate Manager enables governance adherence by automating the process of installing, revoking, and updating device certificates such as 802.1x, TLS/LLS, OPC-UA and others. DCM provides detailed information on both managed and unmanaged IoT devices, their certificate status, and automates action to maintain them. A Chain-of-Custody process is incorporated to ensure device certificates cannot be modified or compromised.

## Device Password Manager

Credentials, password strength and periodic rotation, are critical to IoT security and must be enforced continuously, at scale.

Device Password Manager automates the process of setting, maintaining, and managing IoT device passwords at scale. DPM automates

verification of password and password policy management for thousands of IoT devices from a wide variety of vendors, providing password status, automated checking, and an audit trail for governance.

Master the security of your cyber-physical systems with the Viakoo Action Platform.

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