

SOLUTION SHEET

Enterprise IoT Management for the Trusted Software Supply Chain

One platform to manage and secure your software supply chain for seamless over-the-air updates and control of IoT fleets



THE CHALLENGE

Enterprises are increasingly expanding the reach of their mission-critical applications through the use of edge and IoT devices. Edge computing and IoT devices have become mainstream and critical to competitiveness and growth across a wide range of industries, including manufacturing, energy, healthcare, defense and finance. As IoT software development matures past the piloting stage, and into production and deployment to thousands of devices, the need to adopt modern DevOps processes and security best practices becomes imperative to ensure scalability, reliability, and protection that enterprises expect.

Edge and IoT development comes with its own challenges:

- Delivering trusted & controlled software updates
- Insufficient automation and lifecycle management
- Managing large fleets worldwide
- Maintaining DIY solutions that don't scale
- Secure access behind firewalls & limited networks
- Few insights to security risks & ability to respond

THE SOLUTION

JFrog Connect is an enterprise IoT management solution and an integral component of the JFrog Platform, redefining software protection and management for edge and IoT devices. Native integration with JFrog Artifactory and JFrog Security help to ensure trusted software development and releases across the software supply chain. By incorporating software artifacts management, software supply chain security, and offering enterprise-grade scale to the development, deployment, and management of IoT fleets, JFrog Connect sets the standard for efficient, secure, and controlled software development, with a proven enterprise platform for managing and securing the software supply chain, from developer to device.



As our business grew, JFrog Connect helped us enhance our operations. Being able to automate and push software updates across multiple devices at once saves us time and resources with each version we deployed. When you consider the cost of an engineer's time, it was an easy call.

- Senior Manager, DevOps



Smart Surveillance
Remote Security
Systems



AI Data Platform for
Anonymous Presence
Detection



Hospitality Automatic
Check-in Systems



Renewable Energy
Solutions for thousands of
AI Powered Platforms



Intelligent Robotic
Welding Systems in
Manufacturing



Military Contractor in
Secure, Isolated Air-
Gapped Environment

KEY FEATURES AND BENEFITS



BUILD TRUST INTO YOUR IOT SOFTWARE RELEASES

- A single source of truth for software components and application versions that are used by developers, security, IT, and DevOps personnel to accelerate faster time-to-value, mitigate risks, and minimize downtime.
- JFrog Artifactory universal management of binaries, packages, and dependencies proven to scale.
- JFrog Security offers end-to-end security scanning to find, identify, and remediate security vulnerabilities across the software development lifecycle.
- Download and deployment acceleration for large global fleets with JFrog Distribution.



STREAMLINE OVER-THE-AIR UPDATES

- Create and schedule automated software updates with reusable Update Flows for reliable updates that can be applied individually or across fleets at once - with support for automatic rollbacks when needed.
- Manage the end-to-end software supply chain (SBOM) - with full visibility and tracing into all dependencies and components versions (OSS, 3rd/1st party) running on the device, ensuring package integrity, security and traceability.



ACCELERATE TROUBLESHOOTING AND REMEDIATION

- Avoid insecure device passwords and firewall configurations. Out-of-the-box port-mapping allows you to securely connect to any deployed device on any network (including under NAT or behind a firewall) with a single click from the Connect dashboard.
- Remote Control (terminal web-based ssh) and Remote Access (port forwarding) lets you connect to any device and view its traffic in the local network. Along with automatic log collection and monitoring, these enable you to reproduce and debug issues to accelerate remediation quickly and safely.



GLOBAL FLEET VISIBILITY

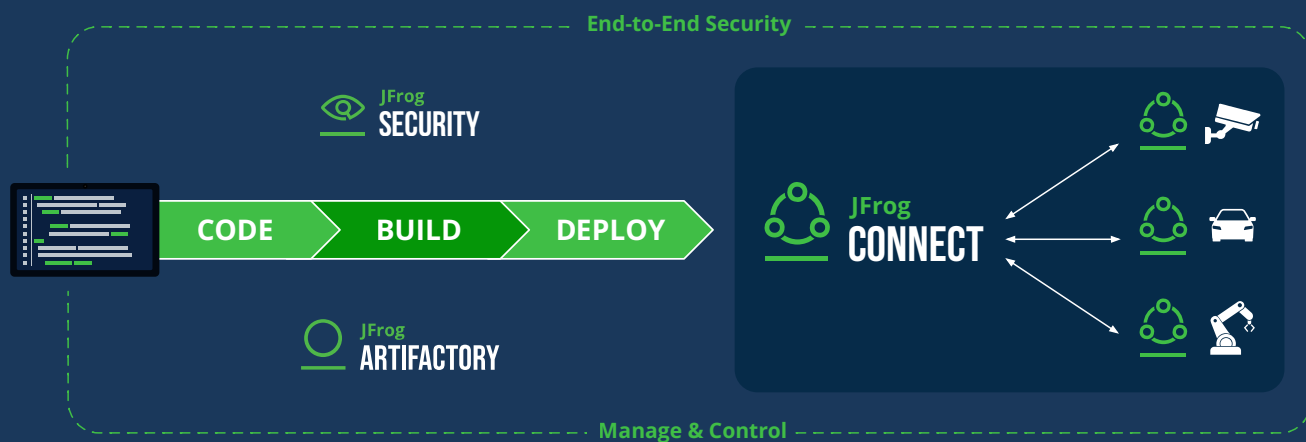
- Segment and filter devices based on hierarchical groups and tags to organize a large fleet of devices into an easily manageable inventory of both software and hardware.
- View status of the entire device fleet, including device state, model, OS, location, data, communication, and application version.



AUTOMATE MONITORING AND ALERTS

- Monitor and protect devices in the field through a single dashboard with full visibility into the health of all devices.
- Real-time monitoring of device resources (CPU, RAM, disk) along with automatic anomaly detection and customizable alerts that integrate with any third-party apps to alert and resolve issues quickly and efficiently.

ENTERPRISE IOT MANAGEMENT FOR A TRUSTED SOFTWARE SUPPLY CHAIN



CONTROL, SECURE AND MANAGE YOUR ENTERPRISE IOT FLEET

From pilot to production, JFrog Connect helps you deploy, update and manage your edge and IoT devices at scale. The combined integration of JFrog Connect, JFrog Artifactory, and JFrog Security, help to provide the automation, security, and reliability of modern DevOps and security best practices - from developer to device. You can start for free at <https://jfrog.com/connect/register/>

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ABOUT JFROG

JFrog empowers thousands of DevSecOps organizations globally to build, secure, distribute, and connect any software artifact to any environment using the universal, hybrid, multi-cloud JFrog Platform.

LEGAL STATEMENT

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