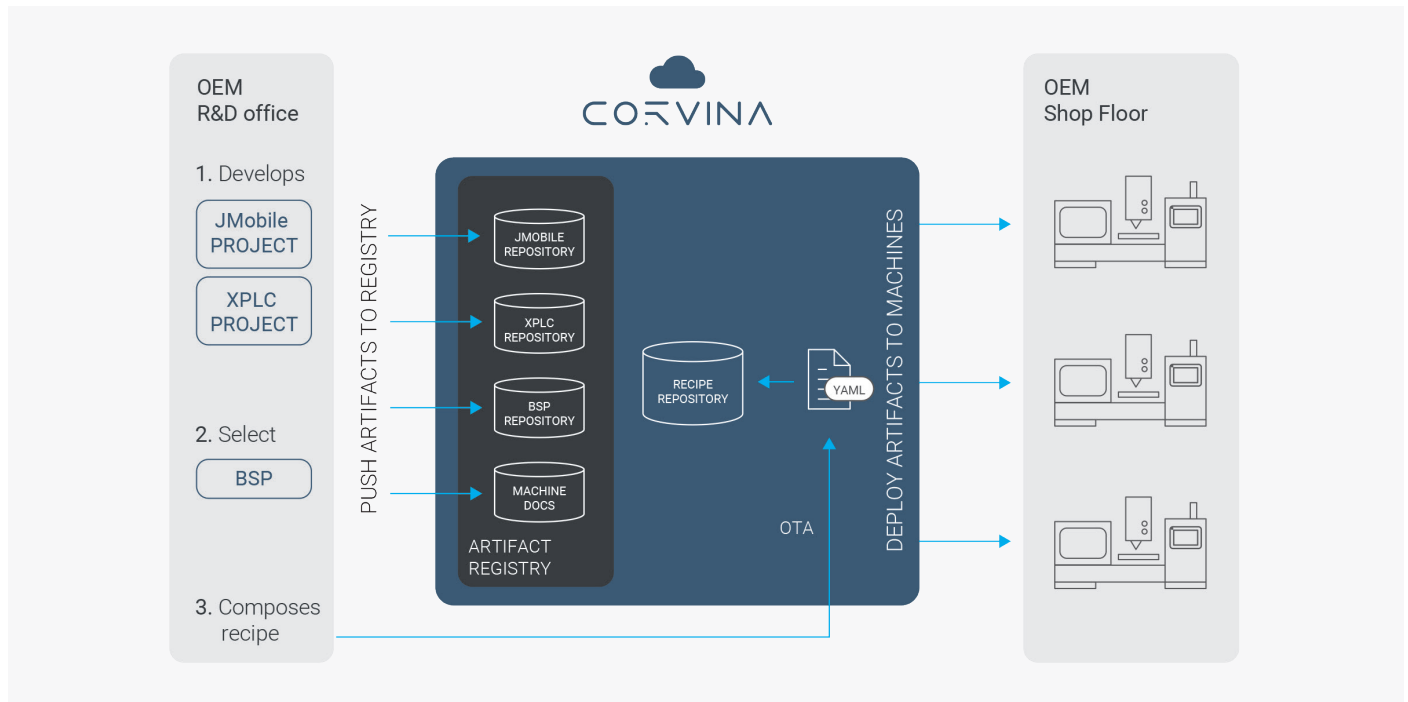


Why CEM, Corvina Edge Manager

Remote Firmware Updates for Industrial IoT Edge

A manufacturing company uses a network of IoT-enabled machines across its factory floors to monitor and control production lines. These devices are deployed in various locations, making manual updates and maintenance time-consuming and costly. To ensure optimal performance, the company regularly needs to deploy BSP (firmware) updates and software patches to address security vulnerabilities, enhance functionality, and improve machine performance.



Solutions with Corvina Edge Manager

Leveraging the Over-the-Air (OTA) capabilities of Corvina Edge Manager, the company is able to efficiently oversee and update all its IoT Edge devices from a single, centralized platform. The procedure includes the following steps:

1. Remote Device Monitoring & Diagnostics: The company can track the version of each software and firmware installed on Edge in real-time through Corvina's Edge Manager dashboard, that provide easy identification of devices that need updates or maintenance.

2. Over-the-Air Updates: Instead of sending technicians to physically update each device, Corvina CEM OTA system allows the company to deploy firmware and software updates securely to all devices across the factory floor in a matter of mouse click. Updates can run immediately or be scheduled to occur during off-peak hours to minimize disruption to production.

Corvina Edge Management streamlines the update process, ensuring devices across the factory stay current, secure, and efficient, without disrupting production.

3. Automatic & Secure Deployments: Corvina ensures the OTA updates are encrypted and authenticated, maintaining the integrity of the updates. Additionally, rollback features allow the company to revert to previous versions in case of any issues.

4. Scalability: With thousands of IoT Edge devices in use, the OTA system supports bulk updates, ensuring all devices, regardless of location, stay up-to-date with the latest firmware and software without the need for manual intervention.



Reduced operational downtime due to faster and more efficient updates.



Minimized need for on-site maintenance, saving costs on travel and labor.



Enhanced security with the latest patches deployed automatically.



Increased device longevity and performance due to regular updates.

The X Platform world

In the dynamic world of industrial automation, the X Platform exists to bridge the gap between the aspirations of machine builders and the real-world needs of factory owners. The platform serves as a comprehensive toolbox, helping you address current challenges while preparing for future ones.

The X Platform is more than just technology; it's a partnership. It empowers you to tailor solutions to your unique challenges, ensuring that you remain at the forefront of industrial innovation. The goal is to give machine builders the freedom to focus on what they do best: creating outstanding machines that meet the needs of factory owners like you.



What is a Today's Need...

1. Edge Security - Protecting your data and your business.
2. Remote Access & VPN - Simplifying system integration, providing you with the ability to monitor and adjust processes anywhere.
3. Edge Management - Making updates remotely: time and resource saving.

... a Tomorrow's Want ...

1. Remote & Condition Monitoring - Giving you the tools for proactive diagnostics.
2. OEE & Energy Efficiency - Monitoring and managing resources for sustainable growth.
3. Performance Consultancy - Offering insights into optimizing your machinery's potential.

... and a Future Vision?

1. Marketplace Integration - Creating potential channels for resource and information exchange.
2. Virtual Logic Control - Preparing for the possibilities of AI-driven process enhancements.

Your Challenge,
Your Solution,
Our Technology

Keep in Touch!

Contact us

sales@corvina.io
+39 045 875 0404

