

Remote Commissioning of Profinet Devices Without On-Site Intervention

Accelerating machine startup by enabling full remote discovery and configuration of all network devices

A machine builder delivers a new production line to a customer site, where multiple Profinet devices—such as I/O modules, drives, and sensors—must be commissioned and configured before operations can begin. Traditionally, this phase requires specialized engineers to be physically present on-site to identify devices, assign network parameters, and ensure proper communication within the machine network.

With Corvina's Layer 2 Remote VPN, the entire commissioning process can be performed remotely, eliminating delays, travel costs, and logistical constraints.

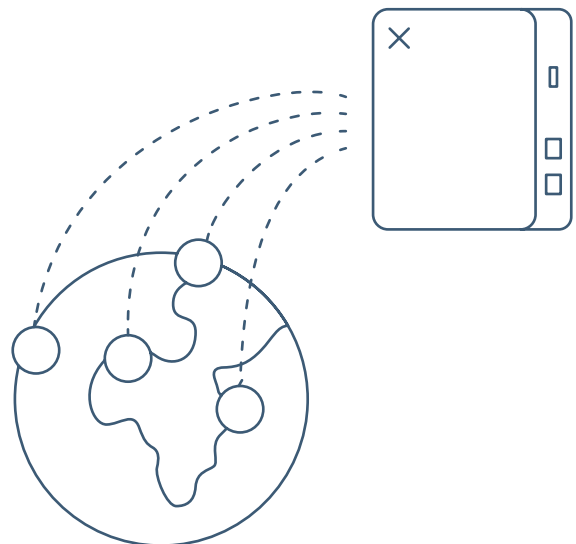
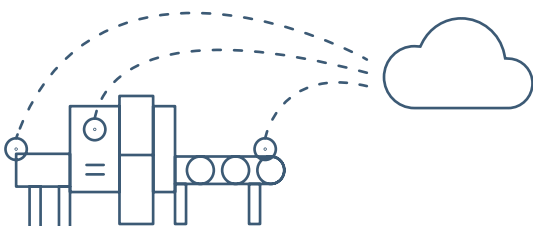
Technical Solution

Corvina establishes a secure Layer 2 VPN tunnel between the engineer's workstation and the remote machine network, extending the local Ethernet segment over the internet. This allows full access to the Profinet subnet as if the engineer were directly connected on-site.

Through this Layer 2 connectivity, the engineer can:

- Perform a complete scan of the Profinet network.
- Detect all connected devices, including those not yet configured.
- Identify devices without assigned hostname or IP address.
- Remotely assign device names (hostname) and configure IP parameters.
- Validate correct network topology and communication between nodes.

The transparency of the Layer 2 connection ensures that all devices—configured or not—are reachable and manageable without requiring any pre-existing network setup.



Benefits

- Zero on-site commissioning, reducing travel time and costs.
- Faster machine startup, minimizing production delays.
- Full network visibility, including unconfigured devices.
- Simplified deployment workflows, even in early commissioning phases.
- Immediate troubleshooting and reconfiguration, without physical access.
- Secure and reliable remote access, aligned with industrial cybersecurity standards.

This use case demonstrates how Corvina's Layer 2 Remote VPN transforms a traditionally manual and location-dependent activity into a fast, efficient, and fully remote process—bringing significant value to machine builders and end users alike.

X Platform

The All-in-One Industrial Automation Platform

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!

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