Unlocking Manufacturing Intelligence:
How Raritan's KVM supports RPA Integration

Under the driving force of the Fourth Industrial Revolution, manufacturers have spent the last decade amassing important data from their production lines. The body of data collected is critical to the next phase of smart manufacturing – automation.

Raritan, a brand of Legrand, has been a pivotal player in this transformation, leveraging KVM to facilitate swift and precise data collection across various industries, including semiconductors. As smart manufacturing takes its next leap, Legrand is harnessing its group's resources to provide a comprehensive solution, merging KVM and RPA (Robotic Process Automation) technologies to simplify the process of upgrading production lines for manufacturers.

Paving the Way for Seamless Integration in Closed OT Environment

While enterprises commonly use IT systems, manufacturing environments have traditionally operated with closed and stable Operational Technology (OT) systems, primarily driven by stability and isolation requirements. Bridging the gap between Information Technology (IT) and OT systems has been a challenge in smart manufacturing.

Current practices often rely on Optical Character Recognition (OCR) technology to extract data from equipment screens, which has the potential for data quality issues.

These issues can be easily overcome with the implementation of KVM. With the ability to seamlessly interfaces with common OT peripheral devices like keyboards, monitors, and mice, KVM would ensure comprehensive and non-intrusive data capture.

Manufacturers can implement KVM without disrupting operations, facilitating the integration of diverse OT devices into the smart manufacturing ecosystem. This also addresses the persistent issue of labor shortages in the manufacturing sector by enabling remote device management and reducing manpower needed to operate these OT devices manually.

Raritan: Pioneering Smart Integration

As a seasoned player in KVM technology under the Legrand Group, Raritan has been instrumental in assisting manufacturers across industries in building OT equipment data capture systems. They have employed established solutions such as the Command Center Secure Gateway, Dominion KXIII switchers, Computer Interface Modules (CIMs), and Local Console Controllers (LCCs) with demonstrated success, particularly in semiconductor manufacturing.

Going beyond KVM, Raritan has tapped into the expertise of Legrand Group to create a holistic solution for integrating RPA. This is a significant stride towards true smart functionality.

The first and most crucial step in smart manufacturing is acquiring equipment data, allowing managers to monitor equipment status and inform production strategy. With RPA integration, the system is now capable of automating actions based on incoming data, significantly boosting the efficiency of OT systems.

Raritan's RPA solution combines its KVM products with third-party software, opening up potential for customization. This enables customers to tailor the RPA system to specific requirements unique to their facilities and industries. The integration process is handled by Raritan, sparing manufacturers the need to coordinate with multiple vendors and streamlining communication costs, downtime, and manhours during system deployment.
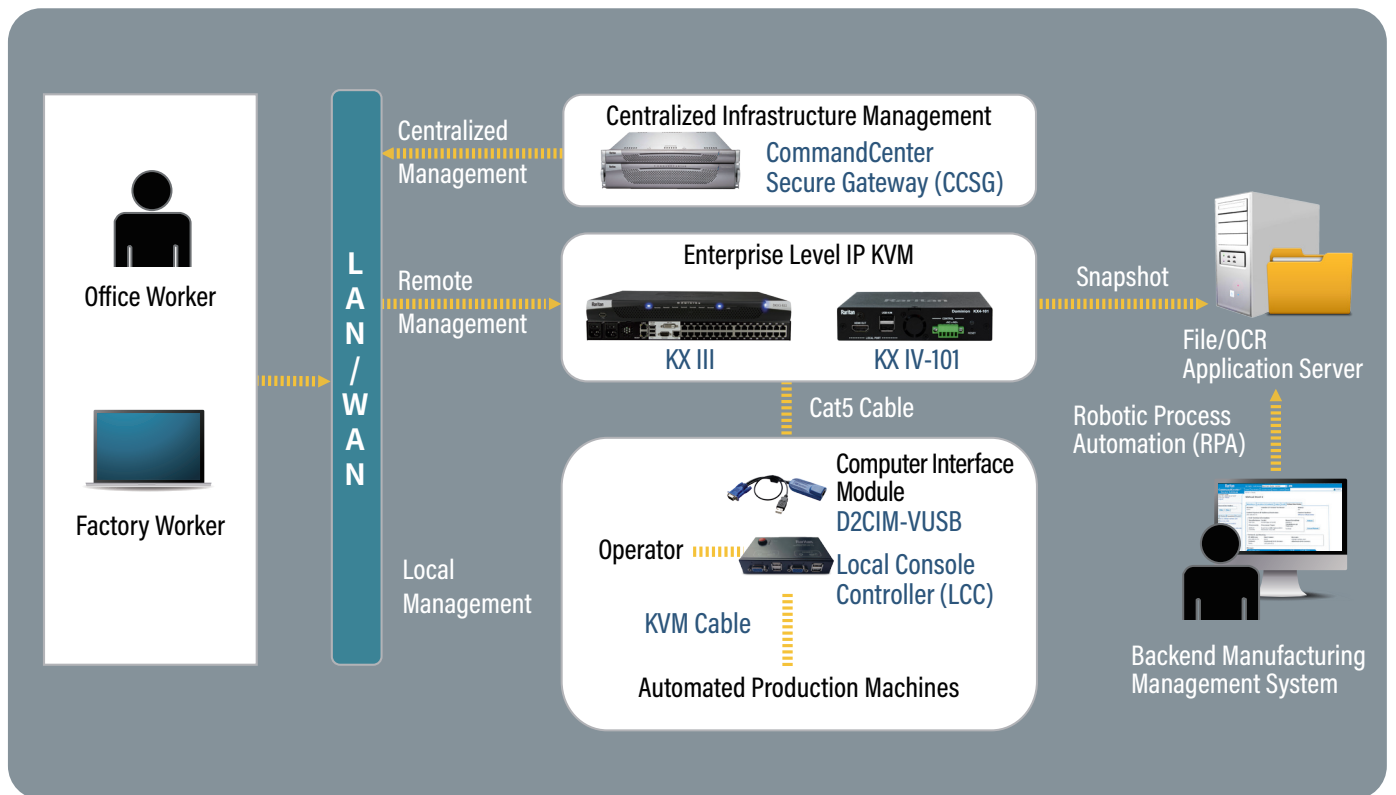
Unlocking Great Potential Across Industries

Raritan's KVM and RPA solution has been instrumental in automating and streamlining the manual-driven setup of return processes during the backend packaging phase for a leading global semiconductor packaging facility.

Beyond that, Raritan's solution has found applications across various industries, with semiconductor manufacturing being a prominent example.

The fusion of KVM and RPA not only significantly enhances production line efficiency but also offers remarkable flexibility across industries. Manufacturers from various sectors can swiftly develop optimized smart manufacturing systems tailored to their specific needs. Throughout the deployment process, Raritan leverages its extensive manufacturing sector expertise to support customers in upgrading their production lines and enhancing their competitive edge.

Raritan Manufacturing Automation Solutions Diagram

Ready to find out more? Contact Raritan today.
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