/ **Sparklight**®
Business

PRECISION METAL MANUFACTURING

This precision manufacturing company is a build-to-print job shop specializing in sheet metal fabrication, machining (metal and plastic), and powder-coat finishing. Founded with a small team, it has grown to more than 65 employees and now operates in a modern 124,000-square-foot facility.

CHALLENGE

A precision manufacturing leader in Nampa, ID, was struggling with a legacy wireless network that was inefficient and unreliable. This network, having been pieced together over time, failed to meet the growing demands of their operations, causing frequent network-related downtime, directly impacting the productivity of their manufacturing machines and assembly lines.

To address these issues, the company partnered with Sparklight Business to implement a modern, fully managed wireless solution designed to deliver consistent performance, improved reliability, and simplified network management.

SOLUTION & IMPLEMENTATION

1. **Assessment and Planning:** A detailed evaluation of the existing network was conducted, focusing on identifying dead zones, interference sources, and bandwidth bottlenecks. The assessment provided a clear understanding of the network requirements and areas for improvement.

2. **Deployment:** Cisco Meraki wireless access points and managed PoE switches were deployed throughout the facility, ensuring seamless and reliable network coverage. Fiber runs were installed between network racks to ensure high-speed connectivity across the facility.

3. **Ongoing Support:** A managed services agreement was established to provide continuous support and maintenance for the network including regular performance monitoring, security updates, and technical support to ensure optimal performance.

REALIZED OUTCOMES

1. **Enhanced Network Reliability:** The introduction of wireless access points and managed PoE switches provided a robust and reliable network infrastructure, significantly reducing the frequency of downtime due to network failures.

2. **Extended Network Coverage:** The use of fiber runs ensured that network coverage could extend throughout the entire plant without loss of signal strength or connectivity, enabling seamless network access across all areas of the manufacturing facility.

3. **Increased Productivity:** With enhanced network stability and coverage, the manufacturing machines experienced fewer interruptions, leading to a noticeable increase in productivity and operational efficiency.

4. **Secure and Scalable Network:** The Meraki solution delivered stronger security for sensitive manufacturing systems and data. Its scalable design also supports future growth as the company expands its operations.

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