Arraya

IoT for Manufacturing

There's a revolution taking place in manufacturing. It wasn't long ago when manufacturers could get by with having production environments that were disconnected from their corporate business systems. In today's climate, increasing pressure to deliver high quality products faster than ever has begun to force out these traditional IT arrangements.

Internet of Things (IoT) technology gives the manufacturers of today access to the data needed to maximize flexibility and security while minimizing downtime. Arraya Solutions' Manufacturing/IoT practice is skilled at helping manufacturers gain the connectivity they need to keep pace in their industry. Our team uses proven methodologies to plan, design, implement and optimize an array of enterprise solutions, technologies and strategies.
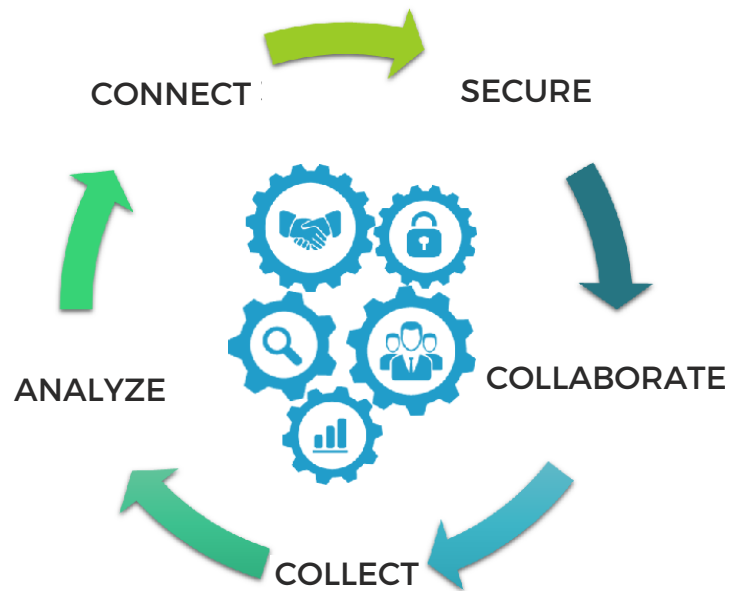
Put IoT to Work for You

CONNECT— In order to keep pace with today's changing manufacturing landscape, machines must be linked, not only within a manufacturer, but back through the supply chain.

SECURE — Increasing connectivity opens up new vulnerabilities. The positives outweigh the negatives, but time must still be invested to ensure the security infrastructure exists to keep the company safe from cyber criminals.
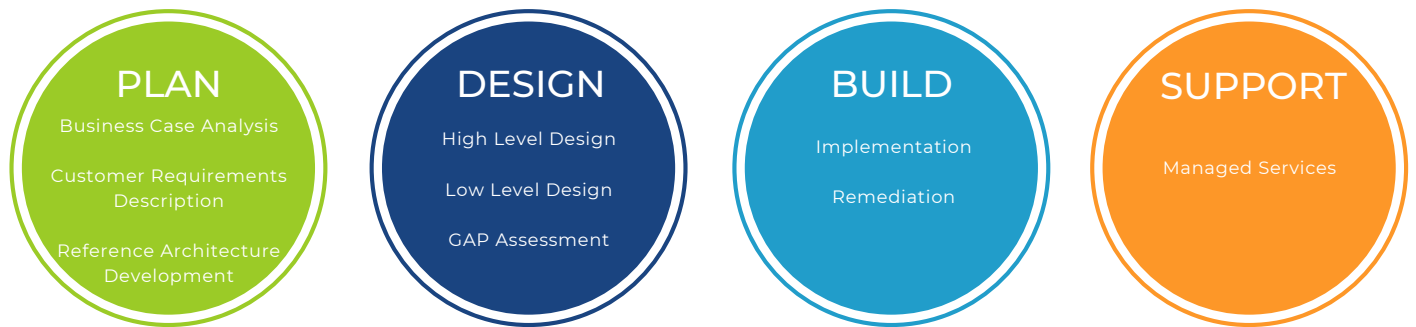
COLLABORATE — Closer relationships between machine-builders and their manufacturing customers are clear win-wins. For manufacturers, it puts a fresh and highly-knowledgeable set of eyes on their mission critical technology. As for machine-builders, they're able to achieve next-level customer satisfaction.

CONNECT   SECURE

ANALYZE   COLLABORATE

COLLECT

COLLECT — With IoT technology, manufacturers can now collect data from every step of a product's lifecycle from the supply chain, production, all the way to end users.

ANALYZE — Machine-builders bring a unique knowledge of their product to the table. Leveraging those insights better positions manufacturers to spot a trouble spot very early on and correct it before any damage can occur.

Connected Manufacturing

PLAN
Business Case Analysis
Customer Requirements Description
Reference Architecture Development

DESIGN
High Level Design
Low Level Design
GAP Assessment

BUILD
Implementation
Remediation

SUPPORT
Managed Services

Arraya's IoT solutions for manufacturers are built on Cisco's leading technology and our knowledge of the industry. Our team can assist with:

ENTERPRISE & PROCESS CONTROL CONVERGENCE — The line separating the responsibilities of these two areas has blurred in recent years, a trend exacerbated by IoT. Building a strong union between IT and OT requires a partner like Arraya who understands both sides. IT knowledge is something Arraya Solutions has in abundance, but our knowledge and experience aren't limited strictly to IT. Our team excels at reaching across the aisle to line-of-business units to learn what they need and what makes them tick. We recognize the importance of ensuring the solutions we deploy address the total continuum of a company's needs.

NETWORK ARCHITECTURE — The availability of operational environments and applications is critical. Arraya provides specialized networking services to align a connected manufacturing strategy more closely with business priorities while also ensuring secure integration. This enhances the manageability of manufacturing resources by delivering an optimized Industrial Control and Automation Network infrastructure that seamlessly integrates to the Enterprise Network infrastructure.

SECURITY — The security of sensitive data is always a top concern. Arraya's team can help devise a security Strategy covering IoT endpoints, engagements and ecosystems. This encapsulates everything from the devices themselves, to how those devices interact with the other elements making up the IoT, all the way through ensuring a framework is in place to ensure security throughout all of the interlocking components and processes which make up the IoT infrastructure.

REAL TIME DATA & ANALYTICS — Manufacturers have always collected and reviewed data to improve quality and efficiency. However, these efforts used to be reactionary and limited in scope. Arraya can help broaden that focus. By employing sensors and IoT technology, manufacturers can collect, store and analyze vast volumes of data. They can collect info from every segment of the product lifecycle – from the production line back through the supply chain and downstream to end users. Instead of reacting to problems, manufacturers can utilize this newfound wealth of data to get out in front of them.

Ready to get started? Contact us today to schedule an IoT Discovery Workshop.