



Overview | Manufacturing Solutions

Optimizing Industrial Environments with MCA's Carefully Curated Portfolio of Integrated Voice, Data, and Security Technology Solutions

In the fast-paced and highly competitive world of manufacturing and production, the need for reliable and advanced technology solutions is more critical than ever. Industrial workplaces face unique challenges that require robust communication systems, efficient data management, and comprehensive security measures to ensure smooth operations, safety, and productivity.

As the technology landscape evolves, manufacturing facilities must adapt to stay competitive and efficient. From optimizing production lines to ensuring worker safety, advanced technologies play a pivotal role in modern manufacturing. The integration of these technologies requires not only cutting-edge solutions but also expert deployment and support.

Manufacturing and production environments are complex, requiring seamless coordination between departments and systems. Effective communication tools manage workflows, respond to emergencies, and maintain operational continuity. Real-time data solutions monitor equipment

performance, track production metrics, and enable informed decision-making.

Our curated suite of voice, data, and security solutions is designed to address the specific needs of industrial environments. By leveraging our expertise and innovative technologies, we empower manufacturing facilities to enhance their operational efficiency, improve safety protocols, and maintain seamless communication.

Our team of experts is dedicated to providing tailored solutions that integrate smoothly into existing infrastructures, ensuring minimal disruption and maximum benefit. With MCA, manufacturing facilities can expect robust support and cutting-edge technology that drive productivity and safety.

Explore how MCA's tailored technology solutions can transform your manufacturing operations, ensuring your facility remains at the forefront of industry advancements. Let us help you achieve the operational excellence and competitive edge necessary in today's industrial landscape.



Integrated Technology Ecosystems for Manufacturing and Production Enterprises

Two-Way Radios and Radio Coverage Systems

Mobile Vehicle and Body Worn Cameras

Vehicle and Fleet Upfitting Services

Intelligent Video Surveillance and Analytics

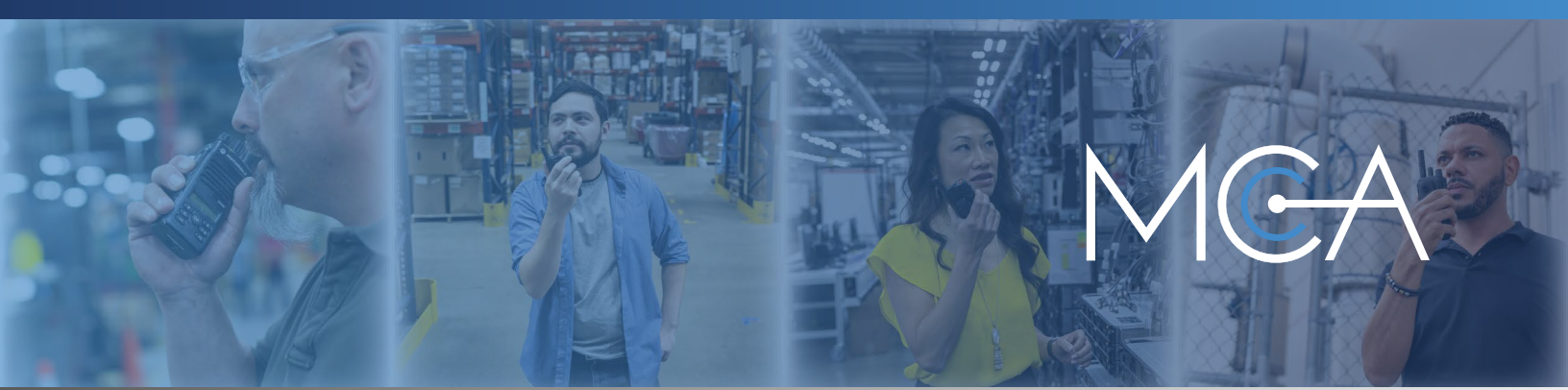
High Security Access Control Systems

Perimeter and Intrusion Detection Systems

In-Building Wireless and Broadband Infrastructure

Public and Private Cellular Networking

Mass Notification and Industrial IoT Systems



MCA supports manufacturing operations with solutions that enhance production efficiency and workplace safety. Our advanced communication and management systems facilitate robust networks for operational coordination, equipment monitoring, and safety alerts, ensuring seamless operation and improved productivity.

Voice Solutions

Voice solutions, also known as our Mobility System Solutions (MSS) and two-way radio (TWR) solutions, are specifically tailored to meet the demanding needs of manufacturing and production environments, enhancing communication, coordination, and operational efficiency across all levels of operation.

Two-Way Radios and Radio Systems

Our robust MotoTRBO two-way radio systems are essential for secure, reliable communication in manufacturing operations. These radios withstand harsh industrial conditions, ensuring seamless single or multi-site communications. When integrated with dispatch, work order ticketing, and incident management systems they enable effective coordination, real-time data access, and efficient resource allocation — ensuring superior coverage, interoperability, and rapid response in any situation.

Mobile Video Systems

Our advanced mobile video solutions, including vehicle cameras for logistics fleets and body cameras for training and safety monitoring. These technologies enhance situational awareness and accountability, providing real-time video streaming, recording, and monitoring — delivering expansive coverage and robust support for modern manufacturing facilities, ensuring safety and operational efficiency.

Vehicle Up-Fitting

Effective fleet communication is crucial for manufacturing environments. Our solutions include up-fitting ground-based freight vehicles, like tractor trailers, with mobile radios, routers, antennas, rugged laptops, cameras, and device mounts. These installations ensure drivers and field operatives maintain constant communication with headquarters, access real-time data, and manage operations efficiently. Our rugged laptops and secure mounts withstand the demands of industrial work, providing reliable performance in all conditions.

Security Solutions

Our security solutions are tailored to meet the stringent requirements of the manufacturing sector, offering comprehensive protection and enhanced situational awareness. Our surveillance, access control, and detection systems work together to create a secure environment for industrial operations.

Intelligent Video Surveillance and Analytics

Our advanced video surveillance solutions with AI analytics enhance security and situational awareness for manufacturers. Our systems provide real-time monitoring with facial recognition, object detection, and behavior analysis, enabling proactive threat detection, rapid response, and identification of unsafe behaviors and downed workers. These solutions integrate seamlessly with existing infrastructure, delivering high-resolution video and actionable insights to improve facility security and worker safety.

High Security Access Control Systems

Our access control systems ensure only authorized personnel access the manufacturing floor and critical areas. Using biometric scanners, RFID readers, and smart card access, these systems provide multi-layered security. Enhanced measures protect hazardous areas and valuable materials. Integrated with video surveillance and alarm systems, MCA's solutions create a comprehensive security network for critical assets and facilities.

Perimeter and Intrusion Detection Systems

To safeguard manufacturing facilities from external threats, MCA provides state-of-the-art perimeter and intrusion detection systems. These solutions include technologies such as motion sensors, infrared barriers, and seismic detectors to monitor and secure perimeters. Integrated with video surveillance and access control systems, our intrusion detection solutions enable rapid identification and response to unauthorized access attempts. These measures help prevent corporate espionage and ensure the security of valuable intellectual property and physical assets.





Data Solutions

Our data solutions cater specifically to the needs of government agencies, ensuring robust connectivity and enhanced communication capabilities across all levels of operation. Combined, these solutions form a robust framework that supports the unique and demanding requirements of government agencies, fostering a connected, secure, and efficient environment.

In-Building Wireless Solutions

We provide cutting-edge solutions, crucial for manufacturing facilities, especially those with hazardous materials. Public Safety DAS (*ERRCS*) ensures fire and rescue crews can communicate clearly facility-wide during emergencies. Cellular DAS supports facilities using industrial routers like the Semtech XR60 and smart radios like the Motorola ION, ensuring seamless communication throughout the facility.

Cellular Networking Solutions

Our industrial routers ensure secure and reliable communications for advanced manufacturing facilities — providing T1 connectivity with cellular failover for +99.99% uptime and parallel networking for systems like video surveillance. Our private LTE/5G solutions are ideal for facilities using extensive wireless and autonomous systems, offering expansive coverage and capacity for systems that need to operate independently of public networks, for enhanced security and control.

Mass Notification and Industrial IoT Systems

Our MNS and IIoT solutions are essential for worker safety and operational efficiency. MNS swiftly disseminates critical information during work floor accidents and incidents, enhancing worker safety and ensuring coordinated emergency responses. Our IIoT systems, for SCADA-based manufacturing, facilitate comprehensive equipment monitoring and automated alerts — improving operational efficiency, automating tasks, and gathering essential data for informed decision-making.

Our Services

MCA is dedicated to empowering manufacturing facilities with reliable, secure, and cutting-edge communication and security solutions. As a trusted partner, we provide the expertise, support, and integration needed to meet today's complex communication and security challenges, ensuring seamless operations and enhanced safety tailored to the unique needs of the manufacturing sector.

Professional Services

Our professional services offer manufacturing enterprises unparalleled expertise in system installations and implementations. With over 90 locations in 14 states, MCA's specialized field engineering teams ensure precise on-site deployments and seamless integration. We operate both inside and outside our footprint, providing robust communication infrastructures nationwide.

Managed Services

Our managed services deliver peace of mind through proactive system management and support. Our standard SLAs provide custom-tailored support. Our MTaaS program provides complete technology management without equipment ownership hassles, streamlining seamless infrastructure maintenance and upgrades. While, SecurePlan offers continuous monitoring and swift issue resolution for security systems, allowing facilities to focus on core operations with minimal disruptions.

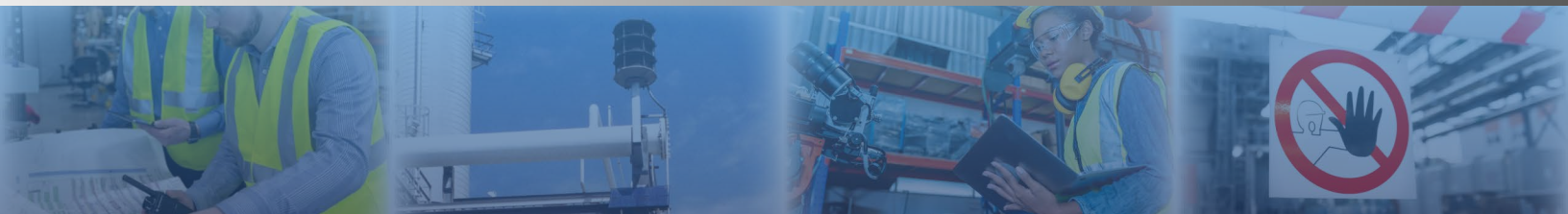
Integration Services

Our integration services are designed to unify and streamline manufacturing operations. MCA's command center software, custom APIs, and application development enable seamless integration across disparate systems, enhancing situational awareness and operational efficiency. Our audio-visual solutions for NOC environments provide centralized monitoring and control, ensuring that facilities can visualize and manage complex scenarios with ease and precision.

Partner With MCA as Your Trusted Advisor

MCA partners with manufacturing enterprises nationwide to deliver top-tier connectivity, security, and operational efficiency solutions. Our comprehensive voice, data, and security solutions, combined with extensive service offerings have been carefully curated to meet the unique needs of the manufacturing and production. Our teams are extensively trained and hold numerous industry credentials, ensuring we provide the highest quality service and support. We empower your workforce and boost productivity with advanced technology solutions tailored to modern manufacturing demands.

Contact Us Today >> 800.596.8205



About MCA

MCA is one of the largest and most trusted technology integrators in the United States, offering world-class voice, data, and security solutions that enhance the quality, safety, and productivity of customers, operations, and lives.

More than 65,000 customers trust MCA to provide carefully researched solutions for a safe, secure, and more efficient workplace. As your trusted advisor, we reduce the time and effort needed to research, install, and maintain the right solutions to make your workplace better.

Our team of certified professionals across the United States delivers a full suite of reliable technologies with a service-first approach. The MCA advantage is our extensive service portfolio to support the solution life-cycle from start to finish.

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The MCA logo is displayed in a large, white, sans-serif font. The letter 'C' is stylized with a blue circular graphic element inside it, resembling a signal or a network node. The background of the entire page is a dark blue gradient with abstract white line art patterns, including a network diagram of nodes and connections in the upper right corner.