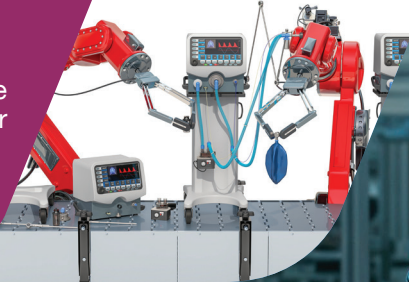# Mi-CAP
Collaborative Automation Platform

The Collaborative Automation Platform (CAP) is a powerful, next-generation solution built to be an Autonomous Machine Enabler and Collaborative Management System. Tailored for industrial applications, CAP transforms how organisations capture, process, and act on real-time data.

Overview

The Collaborative Automation Platform (Mi-CAP) is designed to transform how industries manage devices, assets, and customer experiences. By enabling seamless interoperability, Mi-CAP allows machine-to-machine communication and integrates smart automation to support real-time decision-making.
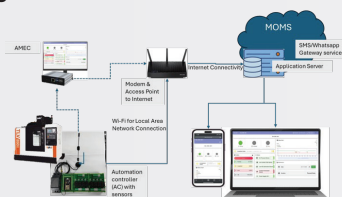
Designed in a 3-tier communication model that consists of the Mission Operations Management System (MOMS), Autonomy Management Edge Controller (AMEC), and Automation Controllers (ACs), Mi-CAP delivers precision, control, and automation across every level of its applications.

Mi-CAP empowers organisations to capture and analyse real-time data, automate workflows, and optimise operations. Enhancing efficiency and smarter decisions through CAP leads to new opportunities for greater productivity and operational excellence.

Key Features
- Dynamic & Responsive Dashboards
- Advanced Alarm Triggers
- Multi-Device Compatibility
- Scalable Architecture
- Customisable Automation Rules
- Secure Remote Operations

Deployment Architecture for Manufacturing Industry
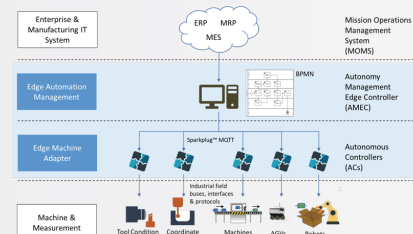
Technology Benefits
- **Easy Data Collection & Monitoring:** Monitor device data live and make faster, smarter decisions.

- **Customisable Dashboard:** Personalised views, interactive controls, scalable data integration, and enhanced monitoring for efficient overall system management.
- **Remote Control & Automation:** Manage connected devices easily anytime, anywhere.
- **Advanced Event Processing:** Detect anomalies and trigger alarms with complex event processing capabilities.
- **Customisable Rule Chains:** Tailor automation rules to fit specific use cases and workflows.
- **Seamless Integration:** Connect seamlessly with external systems and analytics tools.
- **Predictive Maintenance:** Detect potential system issues from an early warning to total system failure.

Applications
Industrial Automation
- Manufacturing & Smart Factories
- Autonomous Systems & Robotics
- IoT & Smart Infrastructure
- Agriculture

System Architecture of Mi-CAP

Dashboard for Motor Condition

AC Deployment for Manufacturing

AC Deployment for Agriculture Industry

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