



YOKOGAWA 

Co-innovating tomorrow™

## Main Automation Contractor (MAC)

Delivering Predictable Projects, Lower Risk, and  
Standardized Automation Across the Lifecycle

# Yokogawa as Your Main Automation Contractor

## Simplifying Complexity in Large-Scale Automation Projects

Managing multiple suppliers, EPCs, and automation systems across a project introduces risk, delays, and inefficiencies. Yokogawa's MAC approach consolidates these challenges into a single, accountable partner.

## One Partner. Total Automation Responsibility

A MAC integrates all automation systems into a unified architecture—reducing interfaces, improving design quality, and ensuring the automation strategy supports operational performance.

Early MAC engagement during FEED typically reduces execution-phase rework by 20–40%.

## Why Partner with Yokogawa



### One Point of Responsibility

A unified partner accountable for the complete automation scope—from systems and instrumentation to integration and lifecycle services.



### End-to-End Automation Scope

Includes DCS, SIS, FGS, instrumentation, analyzers, cybersecurity, and higher-level systems such as asset and alarm management.



### Integrated Project Execution

Centralized engineering, procurement, and project management ensures consistency across multiple EPCs and packages.



### Lifecycle Partnership

Seamless support from FEED through commissioning and long-term operation, ensuring continuity and performance optimization

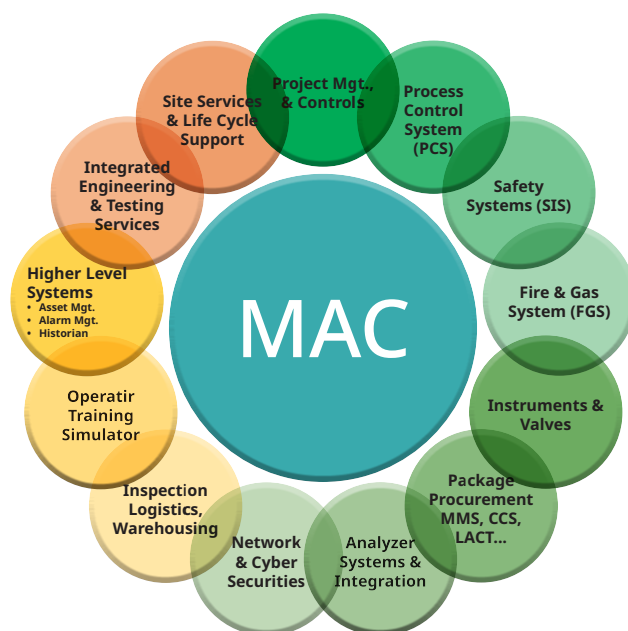


### Trusted Global Automation Partner

Proven delivery of complex global projects, deep expertise in automation and integration, a strong partner ecosystem, and a commitment to reliability, performance, and long-term collaboration.

## What Does a MAC Do

- Integrates process control, safety, instrumentation, and digital systems into a unified architecture
- Manages multi-vendor procurement and subsystem integration
- Provides centralized project control and execution across multiple EPCs
- Ensures automation design aligns with overall project and operational goals
- Engaging Yokogawa early—typically in FEED—enables better design decisions, improved cost control, and reduced execution risk.



# Yokogawa's MAC Approach and Execution Model

## Driving Measurable Value Across the Project Lifecycle

### VALUE 01 – Lower Project Costs

- Integrated procurement across all automation systems reduces duplication and inefficiencies
- Leveraging Yokogawa and partner ecosystems delivers optimal pricing and standardized solutions

### VALUE 02 – Reduced Risk

- Centralized automation responsibility minimizes technical and commercial risks
- Early risk identification and mitigation planning improves project outcomes

### VALUE 03 – Faster Execution

- Eliminates rework between FEED and execution phases
- Integrated engineering and testing accelerate delivery schedules

### VALUE 04 – Standardization & Efficiency

- Common automation standards across EPCs and subsystems
- Reduced engineering hours and simplified maintenance

### VALUE 05 – Lower Total Cost of Ownership

- Lifecycle integration reduces operational complexity
- Built-in maintenance, service, and system optimization capabilities

## Integrated Automation Across All Project Phases

### Planning & Definition

- FEED support, architecture design, cybersecurity strategy
- Alignment of automation with process design and operations
- Better early decisions reduce late-stage design changes and cost overruns.

### Implementation

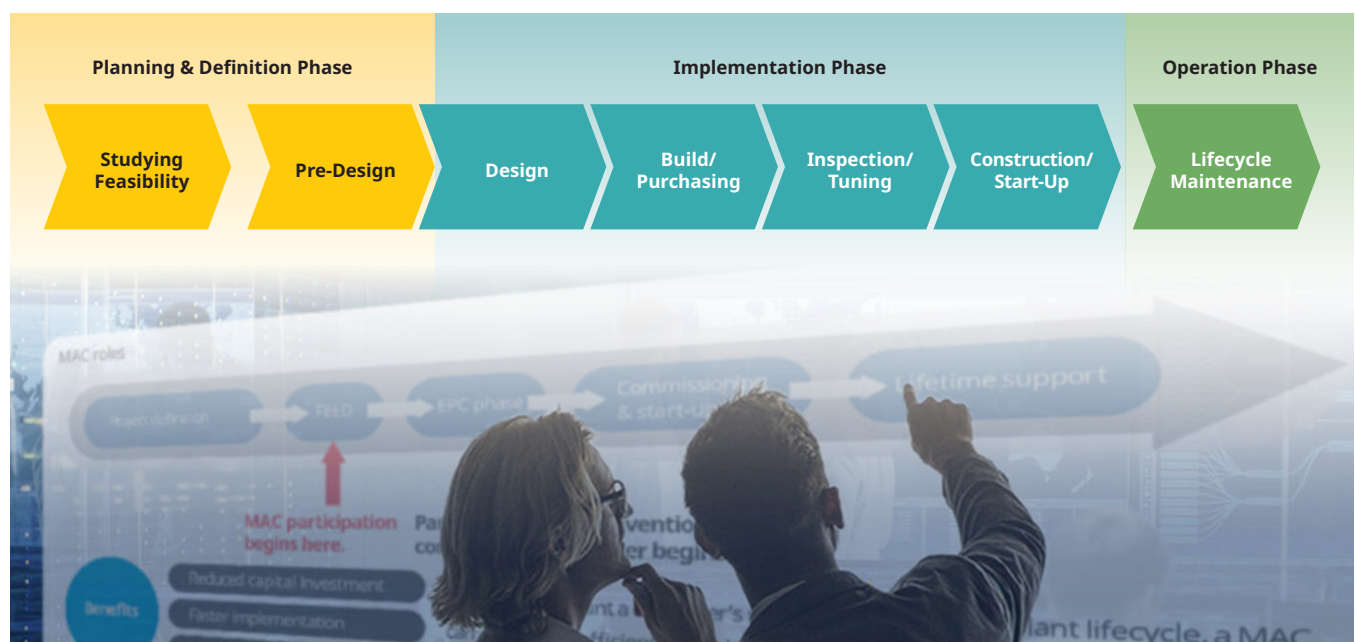
- Detailed engineering, system integration, testing, and deployment
- Centralized staging, FAT, and coordination across EPCs
- Centralized staging and FAT reduce site hours and accelerate commissioning.

### Operation & Lifecycle Support

- Commissioning, training, and performance optimization
- Long-term maintenance, upgrades, and continuous improvement
- Continuous optimization improves uptime and extends asset life.

### Integrated Team Approach

- Embedded teams working alongside EPCs and owner teams
- Shared design decisions to minimize rework and duplication
- Continuity from design through commissioning



# Project Spotlights



## Large-Scale MAC Deployment: Gulf of Mexico Offshore Platforms

### Scope

- Integrated MAC + MIV program across offshore developments
- Managed 60+ sub-suppliers and multiple automation packages
- Delivered engineering, procurement, logistics, and site services

### Key Contributions

- Centralized procurement and contract management
- Vendor coordination, inspection, and logistics oversight
- Warehousing and delivery aligned with construction schedules

### Outcomes

- Significant interface reduction, simplifying coordination and execution
- Improved schedule adherence through integrated planning
- Enhanced quality and consistency across all automation systems



## Major Chemical Company: US Gulf Coast

### Scope

- MAC delivery across two large-scale plants (ethylene & polyethylene) systems, and integration

### Key Contributions

- Parallel project teams managing separate EPCs
- Integrated testing and staged delivery
- Agile response to design changes and schedule constraints

### Outcomes

- On-time delivery despite evolving inputs
- Strong risk management through proactive collaboration
- High customer satisfaction and repeat engagements

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Yokogawa Corporation of America  
12530 W. Airport Blvd.,  
Sugar Land, TX 77478  
[www.yokogawa.com/us](http://www.yokogawa.com/us)

Yokogawa Canada, Inc.  
Bay 4, 11133 40th Street SE,  
Calgary, AB T2C 2Z4  
[www.yokogawa.com/c](http://www.yokogawa.com/c)

Yokogawa de México, SA de CV  
Urbina No. 18  
Parque Industrial Naucalpan  
Naucalpan de Juarez, Estado de México  
C.P. 53370  
[www.yokogawa.com/mx](http://www.yokogawa.com/mx)