

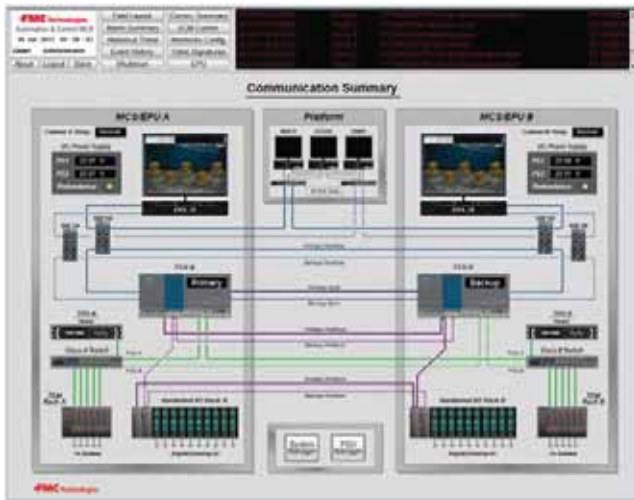
UCOS[®] Master Control Station

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TechnipFMC's UCOS Master Control Station (MCS) offers standardized offshore control based on robust, re-useable components, which improves execution, reduces delivery time and supports a zero-defect development process.

The unique configuration features of the UCOS MCS, along with TechnipFMC's commitment to a zero defect MCS project implementation process, enables rapid system delivery with uncompromising quality. A working UCOS MCS can be delivered in half the time of other MCS solutions.

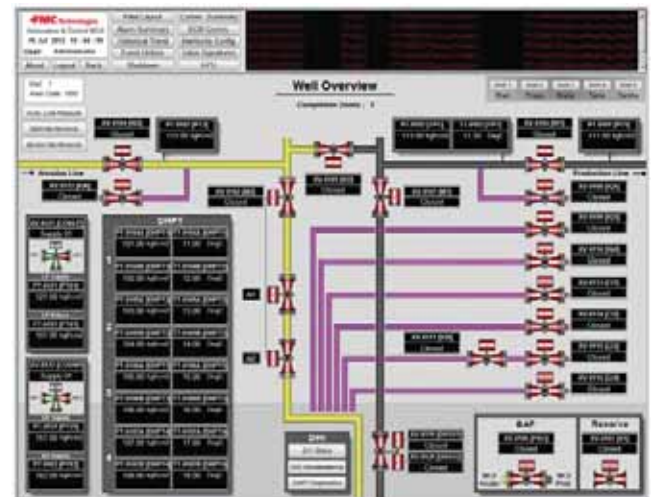
The UCOS MCS is built on a forward-looking platform to ensure robust and secure connections within the control system and to external systems.



TechnipFMC's UCOS MCS Communication Schemes

The UCOS MCS provides flexible and reliable performance by combining modular design with technologically advanced components.

Design requirements were provided by global teams to incorporate customer-specific requirements that would maximize adherence to a uniform world-wide MCS standard.



TechnipFMC's UCOS MCS Control Schemes

The UCOS MCS from FMC Technologies. Helping you realize the full potential of your field, securely and efficiently.

UCOS[®] Master Control Station

System Features

- True DCS functionality that includes a robust and fully redundant architecture featuring controllers that are software-based, industrialized, and fault-tolerant
- Standardized modular components assembled to meet customer specific requirements and ensure a faster delivery
- Template-driven development process that enforces standards, improves execution and drives zero defect quality
- Long-term historical data recording with integrated valve signature collection, display and automatic out-of-spec alarming
- Intuitive system design provides safe step navigation through complex user functions
- MCS configuration tools allow rapid scalability from one well up to fifty
- Includes native communication drivers to communicate with numerous third-party systems and devices

Reliability, Support and Options

- Based on field-proven DCS technology
- Independently audited for best-in-class cyber security
- Available 24x7x365 support
- Optional SPCU integrated into the MCS or in a separate unit
- Safe and reliable remote diagnostics



TechnipFMC's UCOS MCS Cabinet

- Hardware agnostic, hot-swappable components eliminate hardware obsolescence
- Bumpless software upgrades and strict revision control allow for easy life-of-field upgrades that include:
 - Latest OS compatibilities
 - Security updating
 - New evolving technologies
- All UCOS devices can be monitored and controlled from a third-party application via a standardized set of OPC tags

Control Features

- Well monitoring and control
 - Intelligent well control
 - Robust choke control
 - Dynamic DHI control
 - Dynamic CANBUS control
 - Flow calculation
 - Sand rate calculation
- Redundancy monitoring and control
- Subsea communications summary
- Shutdown control
- EPU monitoring & control
- HPU monitoring & control
- Valve signature archiving and display
- Alarm summary and LAST N Alarms
- Event history

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