Topside Control System Integration

Automation Solutions for Offshore Assets
INTECH recognizes that all offshore and subsea projects are riddled with a significant degree of complexity. Multiple sources of concern ranging from political and environmental developments to risks of hazardous work locations and associated system integration activities erect significant barriers to making reliable decisions for offshore and subsea oil & gas end users. With over 22 years of experience in the automation industry, INTECH Process Automation helps its customers be at ease about key project decisions concerning automation system integration. INTECH’s offshore solution portfolio covers exploration and drilling, production facilities and supporting suppliers in these markets. Exploration and production are two distinct markets that apply different application technologies, and INTECH is a unique solution provider with project experience in both these markets. INTECH ensures all its projects are completed within realistic timelines, while maintaining safety and reliability in all project execution phases.

**SYSTEMS EXPERTISE**

**Master Control Station (MCS)**
- Vendor-neutral MCS
- Interconnectivity between different vendors’ subsea equipment
- Single set of controls for all variations of subsea equipment
- Open Architecture – Easily modified and quick availability
- Part of total subsea-topside application integration

**Hydraulic Power Unit**
- The heart of subsea production equipment
- Provides hydraulics to actuate subsea devices in extreme pressures
- Provides high availability and reliability
- INTECH provides Engineering, Design and Integration of HPUs
- Single source integration of MCS and HPU for subsea operations

**Wellhead Hydraulic Control Panel**
- Single and multiple Wellhead Control Panels
- Removable drawer module type or integrated fixed assemblies
- Fully enclosed assembly with the Hydraulic Power Unit
- Local and remote operation enabled system
- Option for SCADA-based control

**Integrated Control Systems**
- Complete offering including basic PLC and RTUs to fully integrated ICSS systems and third party startup & commissioning
- Vendor neutral automation systems expertise
- Proven for reducing operating costs and improving facility safety and efficiency
- Part of total subsea-topside application integration

**Power and Energy Management**
- Ensures sufficient power for operating conditions
- Monitors and controls load status of generator sets & power system
- Improves reliability of electrical distribution and optimises generation
- Designed on tested and proven load sharing and load shedding philosophies
- Solutions customized to local requirements across the world

**Fire & Gas/Safety Integrated Systems**
- Constantly monitor facility activity for hazardous conditions
- High quality SIL3 and industrial standards compliant systems
- Tightly integrated with the main control system to enhance overall facility availability and reliability
- Seamlessly integrate redundant project, maintenance and shutdown costs

**Electric Power Unit**
- Designed to cater for unique requirements
- Signal over power / hybrid copper and fiber umbilical interface
- Developed in close collaboration with subsea vendors to ensure system integrity

**Condition Monitoring Systems**
- Monitors facility equipment, predicts and performs maintenance against foreseeable outages
- Provides remote monitoring and diagnostic capability
- Identifies and predicts possible equipment wear out
- Dedicated maintenance support team available separately

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**CCTV, LAN, WIFI, Control Buildings**
- Seamlessly integrate with disparate control systems
- Provide transparent visibility at the highest corporate levels
- Ease the lives of plant & business managers

**PRODUCTION PLATFORMS**
- PRODUCTION SPARS
- SEMI-SUBMERSIBLE PLATFORMS
- TENSION-LEG PLATFORMS
- DRILLSHIPS
- FPSO/FSO

**TOPSIDES OVERVIEW**

INTECH Process Automation has worked on the world’s largest deep water FPSO in Agbami, Nigeria, with commissioning and O&M services on systems including ICSS, PMS, SIS and F&G for over 7 years.

INTECH Process Automation has also worked on the world’s deepest water operating FPSO, the Greater Plutonio.
Why INTECH

- **Experience**
  - 2000+ Engineering Man-Years
  - 23+ Business years

- **Global Presence**
  - Project Foot Print in 35+ Countries with offices in 14 countries around the World
What Our Customers Say...

**End User**

**Project Supervisor**

"I would like to commend INTECH’s on-site team for going beyond individual primary responsibilities, exhibiting a diverse skill set to progress towards project completion."

**Sr. I&E Engineer**

"The experience, knowledge and dedication of the INTECH Process Automation team was instrumental in executing a professional job towards the Control and Safety Systems of the project."

**Sr. Engineer**

"After successful commissioning I would express my satisfaction at duly meeting the project schedule. The work was done in most professional manner and we shall favourably consider your company for future work."

**EPC**

**OEM**

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**Vendor Expertise**

- **Chevron**
- **Schlumberger**
- **Total**

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**Standards & Certifications**

- **Rockwell Automation**
- **Honeywell**
- **Siemens**
- **ABB**
- **Emerson Process Management**
- **Yokogawa**
- **smar**
- **Advantech**
- **HIMA**
- **ul**
- **CE**
- **NACE**
- **harmonics**
- **IEC**
- **EEMUA**

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