INTECH
AUTOMATION · INTELLIGENCE

Terminal Management Systems

Control & Automation Solutions

Solutions for efficient terminal operations

ISO Certified Offices
ISO 9001 : 2015

API Spec Q1 Registered

CSIA CERTIFIED

PMI Project Management Institute

Introduction

Terminal Management

Terminal management has traditionally been wrought with problems ranging from theft of product to inaccurate and inadequate control over operations. The advent of Industry 4.0 is creating a competitive landscape that not only favors technology adopters, it also punishes companies that still rely on inefficient systems. A good terminal management solution covers not only the accurate transfer of products, but helps improve facility performance, monitoring & control of operations on various levels of organizational hierarchy and safety as well – ushering companies into leading the Industry 4.0 revolution.

Why INTECH's Terminal Management Solutions?

At INTECH, we take pride in infallible automation systems that not only endorse Industry 4.0, but herald it as a benchmark for others to follow. INTECH has excelled system integration and led oil & gas automation around the world for over 25 years. Terminal automation at INTECH ensures a fully automated facility with thorough accountability of products, robust control and safety systems, transparency and visibility across business layers, and leading-edge security. INTECH's Terminal Management consolidates data and reports for both operational and strategic KPIs. Our solution thoroughly monitors losses, theft and other issues, ensuring quick ROI for companies investing in complete terminal management and automation.

Standards Used

API MPMS 2.2 A & B
Manual of Petroleum Measurement Standard chapters 2.2 A & B for measurement and calibration of liquids in tanks e.g. API 2550 & 2552

API RP 551
Process Measurement Instrumentation Systems

API RP 554
Process Control System

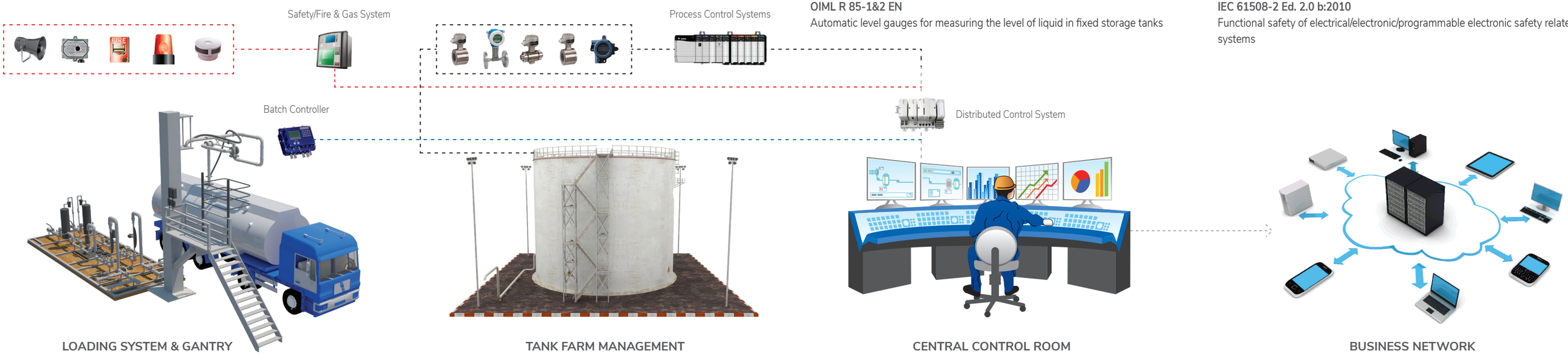
OIML R 85-1&2 EN
Automatic level gauges for measuring the level of liquid in fixed storage tanks

API 1620
Bulk design and operating practices to protect product quality of gasoline and distillate fuels

API 2350
Overfill protection for storage tanks in petroleum facilities

API STD 2560
Reconciliation of liquid pipeline quantities

IEC 61508-2 Ed. 2.0 b:2010
Functional safety of electrical/electronic/programmable electronic safety related systems



Complete Terminal Automation

LOADING SYSTEMS & GANTRY

- Batch Controllers
- Flow Computers
- PD Meters
- Air Eliminators
- Control Valves
- Transmitters
- Earthing & Verification
- Grounding & Overfill Protection
- Prefabricated Loading Skids

TERMINAL MANAGEMENT

- Automatic Tank Gauging
- Access Control Systems (Entry/Exit, RFID gate passes etc.)
- On-premise and/or Cloud-based ERP/Business System Connectivity, Cybersecurity, KPIs and Dashboards
- Distributed Control System (PCS, ESD, F&G, HMI, Historian)
- PAGA System

Terminal Management Software

INTECH has developed its extensive software library for complete front-end functionality and modularized terminal operations, which can be utilized to address any terminal operator needs. This functionality and associated system-based libraries provide efficient engineering practices compliant with various industrial standards and requirements.

Order Management	ERP Orders · TAS Orders
Loading Automation	Metering Systems and Batch controllers
Central Control System	ESD, F&G, Pump Control
Inventory Control	Tank Farm Management, Tank Gauging
Access Control	RFID, Smart Gates, CCTV and Software Data Validation

Terminal Operation & Maintenance

INTECH Terminal Operation & Maintenance (O&M) services take responsibility of your assets from start to finish, leaving you with practical solutions that cater for your terminal's needs. Our asset lifecycle responsibility assures availability, performance, quality, and safety to meet your goals. This value commitment is a key attribute that continues long after the project has been completed and promises a trustworthy relationship with all our customers.

- Startup, pre-commissioning & commissioning services
- Resident/on-call/remote operation, maintenance and training services
- Terminal survey and troubleshooting services
- Spare parts and obsolescence management services
- Safety and Control System audit services
- Advanced software solutions
  - Data validation & reconciliation (DVR), control loop optimization, alarm management

What Our Customers Say

Chevron

"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."

Project Supervisor

TOTAL

"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."

Sr. Engineer

Petroleum Development Oman

I commend you on your efforts in customizing the business analysis software for deployment for a Web Based Alarm Management Dashboard. It meets our objectives and has produced the desired results.

Control & Automation Leader

End User

Chevron
TOTAL
Shell
bp
Petroleum Development Oman
saudi aramco
ADNOC
National Iranian Oil Company
Kuwait Oil Company
sabic
eni
SOC
OMV
Basrah Gas Company
ExxonMobil
CNPC
PDVSA

EPC

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FieldComm Group MEMBER
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ICONICS

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