The Enterprise Pipeline Management Solution

**Strong Data Model**
- High Performance with Multi-Million Tags Multi-Platform
- Windows, LINUX, and UNIX Support

**Web-based HMI**
- 24/7 Online
- Mobile Device Support

**Scalability and Distributed Control**
- Station HMI to Multi-Million Tags
- Redundancy to Quadruple

**Report by Exception**
- Minimize the CPU Load
- Only 2% to 4% of Total CPU load with 10,000 I/O per Second

**Regular Upgrade**
- Latest Technology Support

The Enterprise Pipeline Management Solution
http://www.yokogawa.com/industries/oil-gas/pipeline/

FAST/TOOLS
supervisory-control-and-data-acquisition-scada/

Contact Us
pipeline@cs.jp.yokogawa.com

YOKOGAWA ELECTRIC CORPORATION
World Headquarters
9-32, Nakacho 2-chome, Musashino-shi, Tokyo 180-8750, Japan
http://www.yokogawa.com/

YOKOGAWA CORPORATION OF AMERICA
12550 West Airport Blvd, Sugar Land, Texas 77478, USA
http://www.yokogawa.com/

YOKOGAWA EUROPE B.V.
Euroweg 2, 3825 HD Amersfoort, The Netherlands
http://www.yokogawa.com/

YOKOGAWA ENGINEERING ASIA PTE. LTD.
5 Bedok South Road, Singapore 469270, Singapore
http://www.yokogawa.com/

YOKOGAWA CHINA CO., LTD.
3F TowerC Century Crocodile Building, No.568 West Yan'an Road, Shanghai 200335, China
http://www.yokogawa.com/

YOKOGAWA MIDDLE EAST & AFRICA B.S.C.(c)
P.O. Box 10070, Manama, Building 3/7, Road 2516, Ras Al-Ein, Kingdom of Bahrain
http://www.yokogawa.com/

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The Enterprise Pipeline Management Solution (EPMS) provides a collection of standard pipeline applications to facilitate the management and operations of gas/liquids pipeline systems. Applications can be seamlessly plugged into the FAST/TOOLS real-time system platform similar to SCADA monitoring and control environment. EPMS consist of two packages; Gas Enterprise Management Suite and Liquid Enterprise Management Suite.

### Benefit

The EPMS package brings the following benefits based on 20 years of experience in engineering medium to large complex pipeline automations.

**Pipeline Management System Implementation**
- Better and faster implementation
- Knowledge centralization, retention and documentation
- Enhanced lifecycle management
- Reliable system using proved functions
- Dedicated consultant and product support

**Cost of Integration**
- Prevent application vendor and integration technology lock-in
- Establish a standards-based and IT/Security compliant application platform

**Reduced Cost of Ownership**
- Standard technology
- Scalable, flexible, reusable
- Lifecycle management

**Industry Standards Support**
- Implement best practices from pipeline industry standards
- Provide foundation for regulatory support and compliance

**Future Proof**
- IT architecture hedges against disruptive technologies and trends
- Increased process and data variety, volume, and velocity

### Functional Specifications

EPMS delivers the following interrelated and integrated functions:
- Processing of meter inputs for accurate measurement and flow calculations
- Management of gas data with the device scheduler and EFM log up-loader
- Schedule and monitor gas nominations
- Monitor the line-pack along the pipelines and segments
- Maximum Allowable Operating Pressure, MAOP, monitoring
- Drag reducing agent management and power management on compressors and pumps
- Controlling a manifold with the flow path manager
- Tracking and management of anomalies like pigs/scrapers, merge/hot spots and interfaces

### Overview

The Enterprise Pipeline Management Solution (EPMS) provides a collection of standard pipeline applications to facilitate the management and operations of gas/liquids pipeline systems. Applications can be seamlessly plugged into the FAST/TOOLS real-time system platform similar to SCADA monitoring and control environment. EPMS consist of two packages; Gas Enterprise Management Suite and Liquid Enterprise Management Suite.

### System Architecture

EPMS plugs into the FAST/TOOLS platform and inherits the FAST/TOOLS advantages in one common environment:
- One system/user management and configuration environment
- Some layout of pipeline displays can be used for process displays
- Some user authorization can be used within the whole application
- Standard features like reporting, history and configuration are available in the same environment
FAST/TOOLS Features

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Scalability and Distributed Control
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Regular Upgrade
- Latest Technology Support

Redundant Servers & Redundant Network

Full Redundant up to Quadruple

Automatic Synchronization

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