

Flowserve Technology Advantage provides plant management and operators with a comprehensive means to optimize equipment performance and manage life cycle costs.

Information – Expertise – Performance

Combining state-of-the-art data collection and analysis technologies, advanced equipment management solutions and unmatched industry expertise, Flowserve Technology Advantage bridges the gap between data and actionable information.

Information

Using advanced data collection and analysis technologies that synthesize data regarding equipment history, performance and plant operations into real-time information, Technology Advantage empowers customers to identify and implement proactive maintenance, upgrades or system modifications to extend equipment uptime.

Expertise

Flowserve Technology Advantage integrates unparalleled human and intellectual capital with real-time asset information. Flowserve engineers collaborate with customers to develop realistic and effective solutions for asset management while addressing pressing system and equipment issues.

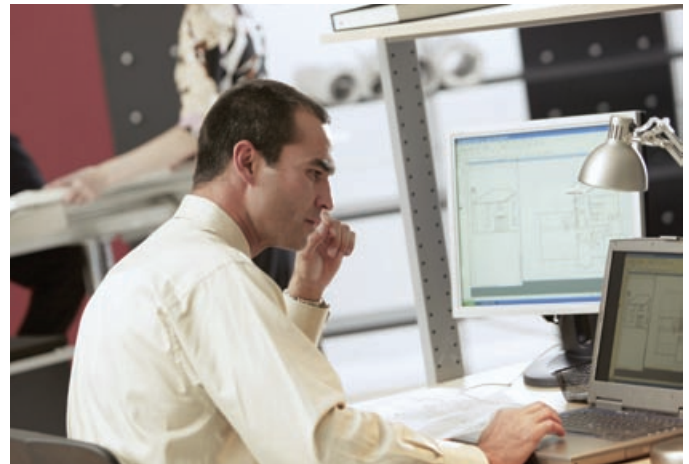
Performance

Through the application of advanced technologies and with the cooperation of Flowserve global product and industry experts, Technology Advantage allows customers to proactively manage equipment life cycle cost. The result is:

- More effective asset management
- Greater value from plant investments
- Equipment life cycle cost savings

Technical Services
LifeCycle Advantage™
Educational Services
Consulting

TECHNOLOGY ADVANTAGE™



Flowserve Integrated Solutions Group (ISG) is a cross-functional team that analyzes customers' systems to help increase plant availability, optimize output, reduce costs, reduce energy consumption and improve equipment performance.

As part of ISG, Flowserve Technology Advantage has been critical to the successful completion of several programs, including:

- **Bad actor assessments**
- **Energy assessments**
- **Online Assurance™ programs**



Equipment Monitoring

Flowserve offers wired and wireless equipment monitoring solutions for permanent and portable data collection of vital plant assets. Able to be integrated with existing monitoring devices, Flowserve technology allows the economical acquisition and prompt utilization of important equipment and process data. Plant operators can make timely and informed decisions that lower production costs and increase operational efficiency.

Advanced Diagnostics

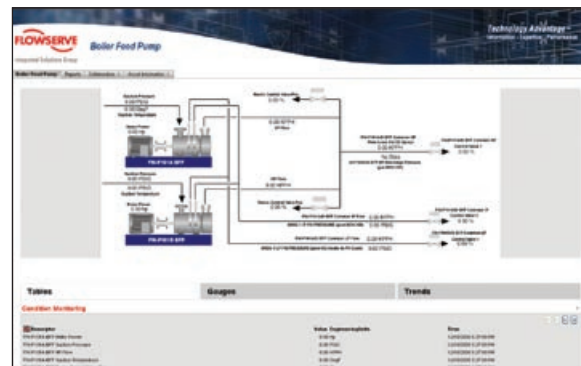
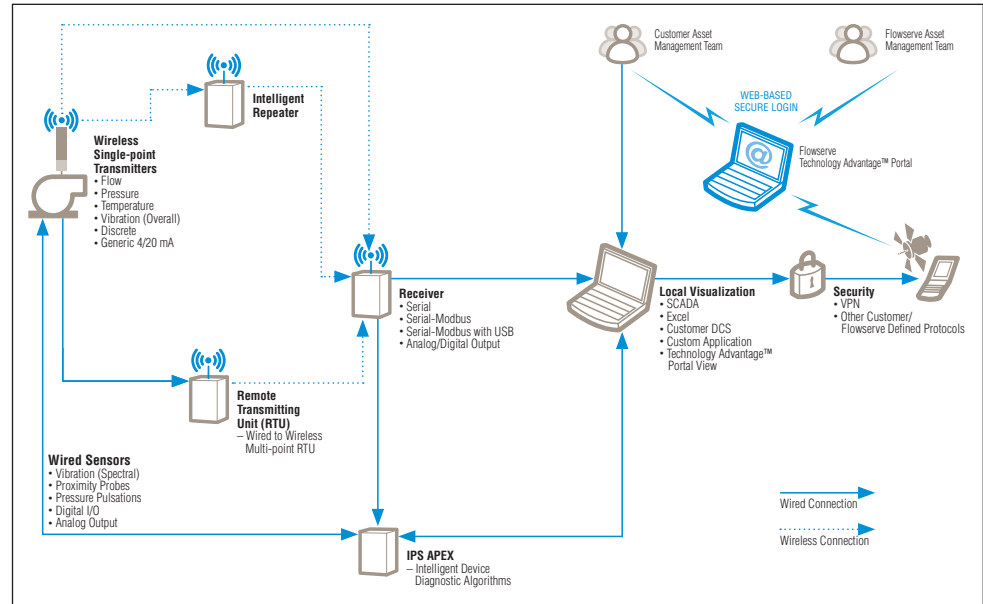
A critical component of Technology Advantage is IPS APEX™ – a machine-specific diagnostic tool. IPS APEX lowers life cycle costs by delivering actionable information to optimize process control and equipment operation. This flexible solution can intelligently diagnose reliability and operational problems while providing outputs to adjust equipment and system parameters.

Data Visualization With the Technology Advantage Portal

At the center of Technology Advantage is the Technology Advantage Portal. This Web-based data/information aggregation system offers a unique view of key performance indicators for pumps and other critical assets. Authorized personnel can:

- View ongoing performance metrics through easily interpreted visuals
- Monitor equipment performance
- Review historical equipment information

Flowserve equipment monitoring and diagnostic solutions deliver actionable information to optimize process control and equipment operation.



The Technology Advantage portal aggregates essential information and performance data for diagnostic, benchmarking and reporting purposes.

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