Advanced Analytical Instrument Management System
AAIMS

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The clear path to operational excellence

YOKOGAWA ◆

Advanced Analytical Instrument Management System

AAIMS

Benefits

- Auto data collection that minimizes errors due to manual data handling
- Easy monitoring of analyzer status and performance
- Reduction of 10-30% man hours through auto data validation and statistical analysis tools to plot SQC Charts.
- Improved analyzer availability and reproducibility rate
- Rapid deployment and minimum training costs achieved through template based engineering approach
- Substantial cost reduction and maximized plant operability

AAIMS is an Advanced Analytical Instrument Management System that provides real-time asset maintenance management functions for a wide range of on-line/in-line process analyzers from simple analytical devices such as pH, conductivity, and O2 to complex analytical devices such as gas chromatographs (GC) and Near Infrared (NIR).AAIMS improves on-line / in-line process analysis efficiency by accurately assessing and displaying the KPIs of each analyzer. AAIMS is a core building block of Yokogawa's VigilantPlant™ solutions designed for refinery, petrochemical, pharmaceutical, chemical, power and other industries. That brings operational excellence to visionary plants, creating an environment where plant personnel can
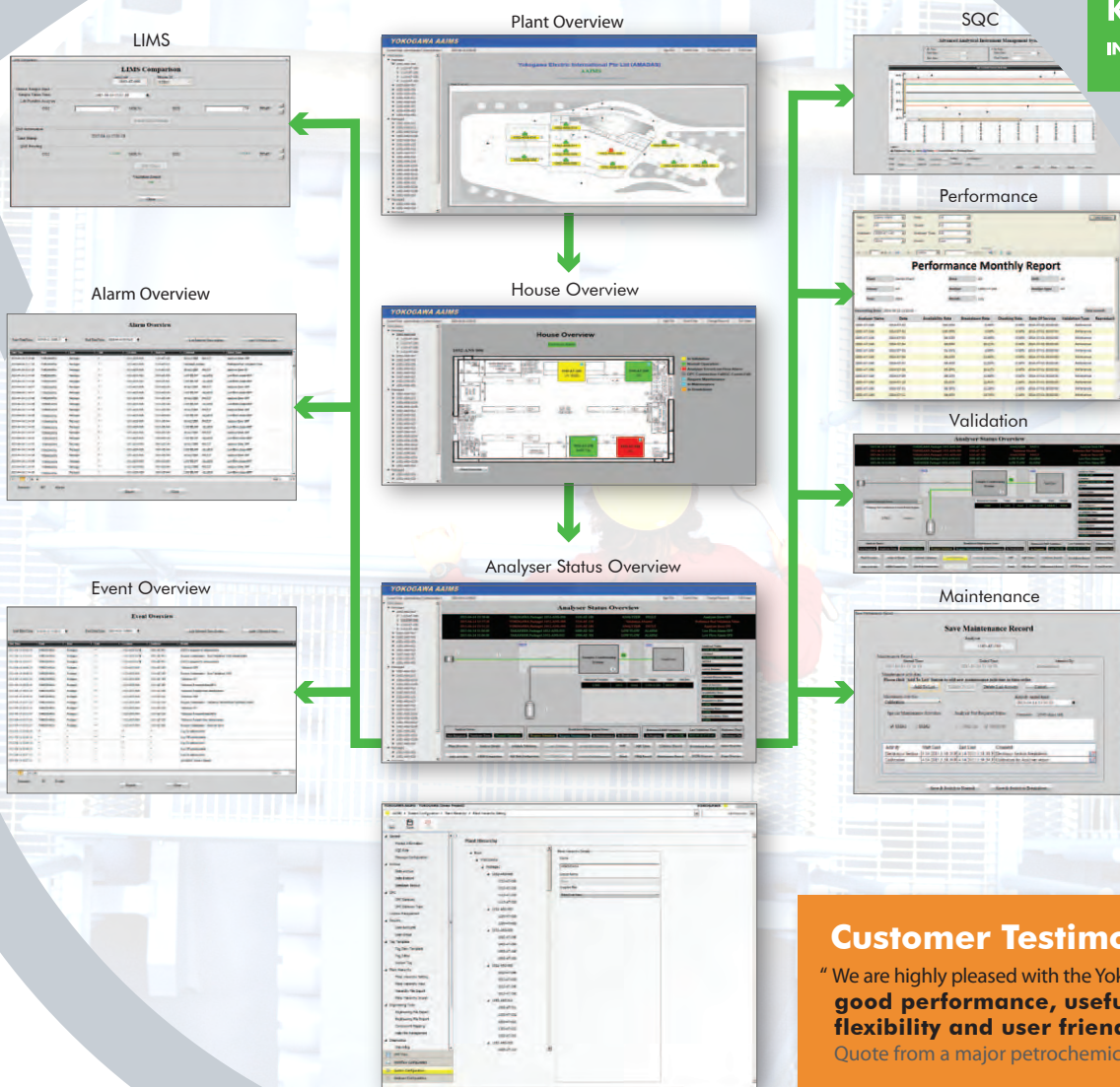
See Clearly | Know in Advance | Act with Agility

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LIMS

Plant Overview

SQC

Alarm Overview

House Overview

Performance

Event Overview

Analyser Status Overview

Validation

Maintenance

Key Features

■ Immediate on-line statistical analysis

Interpret and display analyzer KPIs such as availability, reproducibility, and problem frequency rates to improve analyzer performance.Plot the collected validity results and lab comparison results on statistical quality control (SQC) charts

■ Efficient analyzer maintenance

Identify problematic analyzers and improve maintenance efficiency

■ Standard human machine interface to view analyzer data

Access individual analyzer details through a drill down navigation methodology from the plant overview to each analyzer

■ Easy engineering configuration

Enhance the reusability of template-based application software solutions with the easy-to-use and highly flexible AAIMS engineering configuration tool

■ Operations interface

Interface with all types of analyzers to perform validity checks and generate reports for process operations

■ Automatic analyzer assessment

Automate the statistical analysis of data and automatically execute the validity check sequences

■ Real-time data acquisition

Automatically collect real-time measured data and fault alarms from analyzers
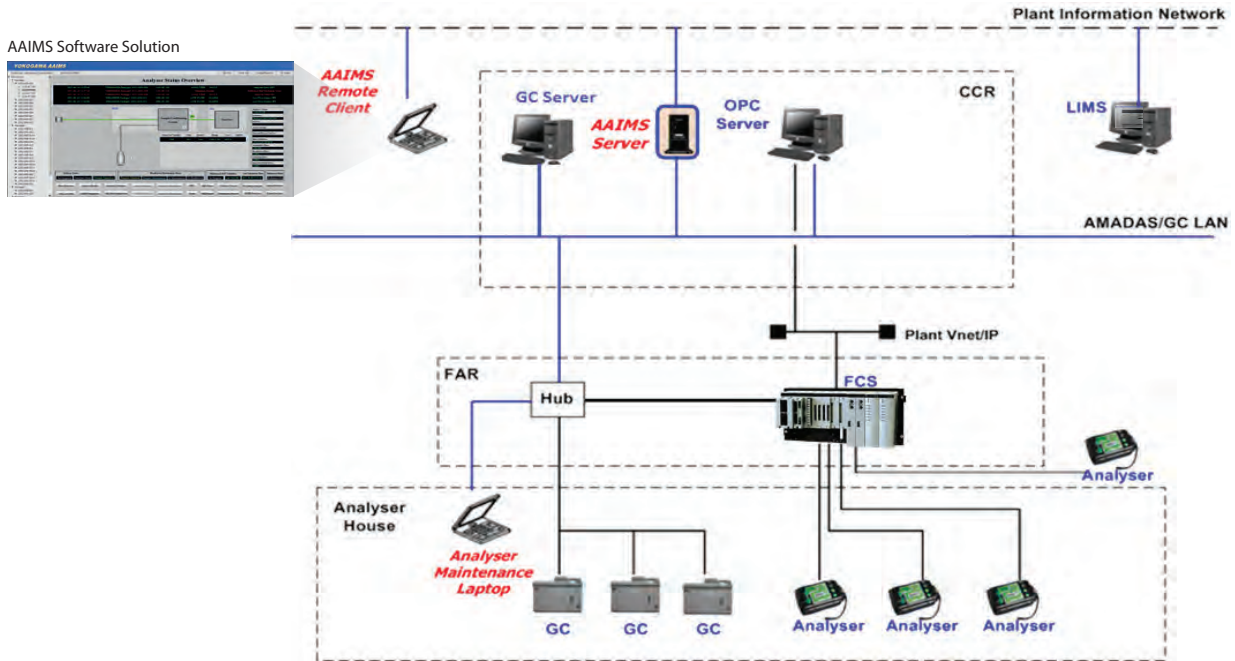
■ Standards Compliance

AAIMS makes use of the industry's best practices by implementing the ASTM standards
• ASTM D3764 Standards for System Validation
• ASTM D6299 Standards for Statistical Quality Control (SQC) evaluation, ASTM:American Society for Testing and Materials

AAIMS Network Architecture
Achieve the full potential of your plant's on-line process analyzers and maximize your operating profits

AAIMS Software Solution

A Yokogawa Commitment to Industry

vigilance.®

quality   innovation   foresight

What does Yokogawa *Vigilance* mean to the future of your business? ***Quality***. Through products that are built from the ground up and tested to the last hour, you're ensured continuous operation and more uptime. ***Innovation***. Your business will benefit from new insights and capabilities, bringing true predictability to your process. ***Foresight***. As the market changes, you'll have solutions that give you the continuity and flexibility to plan ahead and grow. Our partners know the difference. With Yokogawa, you can count on a lifetime of plant efficiency, from instrumentation to operation support. Let us be vigilant about your business.

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