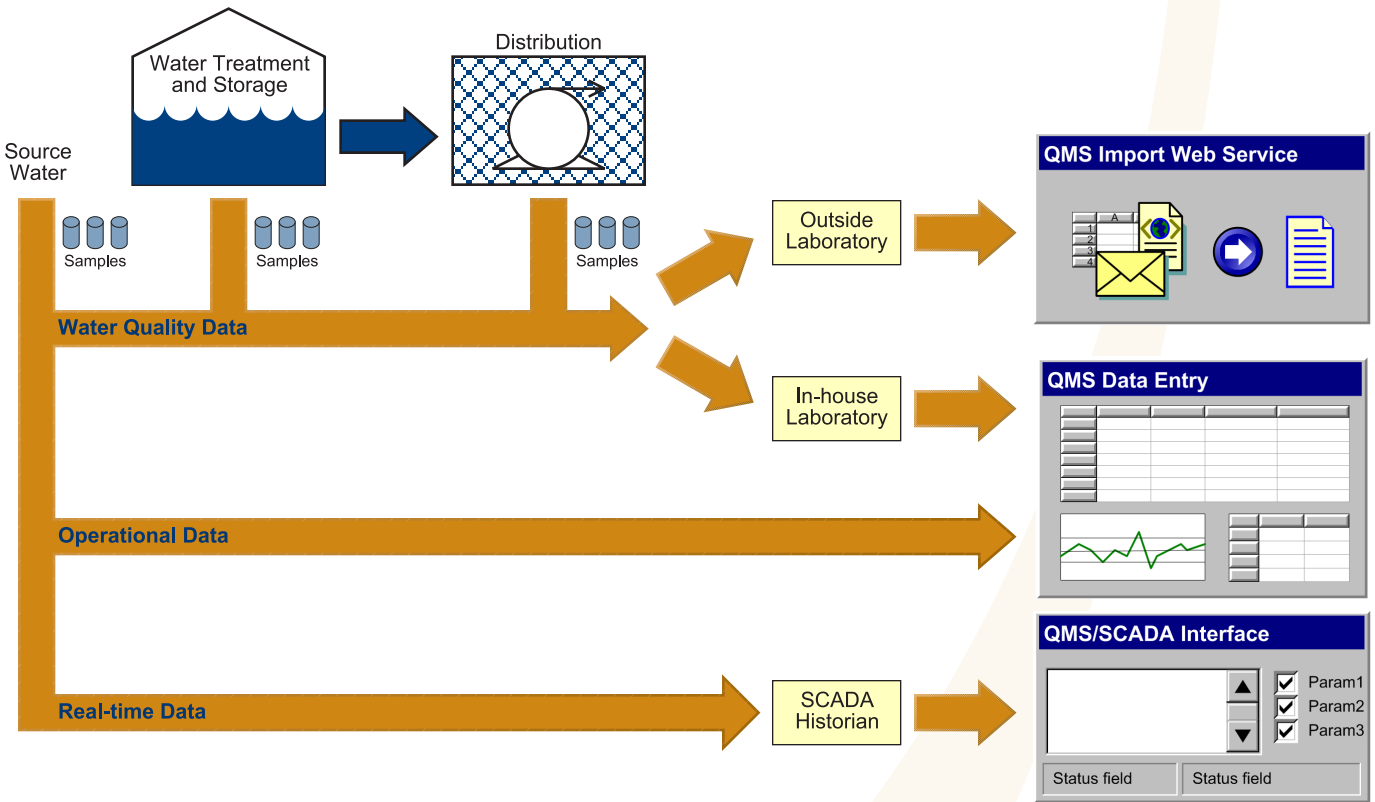


# QUALITY MANAGEMENT SYSTEM

## Functional Overview

### Information Management for Water and Wastewater Treatment



#### QMS Import Web Service

- ◆ Import results from external laboratories
- ◆ Supports spreadsheet and XML formats

#### QMS Data Entry

- ◆ Calculated results
- ◆ Limit checking
- ◆ Corrective actions
- ◆ Operator logs/comments
- ◆ Hot-key access to SOP documents
- ◆ Tight security and auditing
- ◆ Realtime SPC charting

#### QMS/SCADA Interface

- ◆ Integrate realtime data into QMS

#### Reporting and Analysis

- ◆ Web-based charting and reporting
- ◆ Compliance and annual report creation

## Quick Facts

### Information Management for Water and Wastewater Treatment

#### SAMPLE MANAGEMENT

- ◆ Tracks samples by sample and/or lot number
- ◆ Allows pre-scheduling of samples
- ◆ Identifies sampler and analyst separately
- ◆ Date-time stamps for sample transactions

#### DATA ENTRY

- ◆ Spreadsheet-style interface
- ◆ Easily sort/filter by Plant/Process/Step/Location
- ◆ Displays limits and units of measure
- ◆ Supports derived/calculated values
  - Extensive library of mathematical and statistical functions
  - Enhanced support for meter readings
  - Use previous result(s) for calculation
- ◆ Range checking for:
  - Reasonable limits
  - Specification limits
  - Control limits
  - Trend warnings
- ◆ Realtime SPC charting
  - Real-time control, X-Y charts
  - Configure and/or print graphs
  - Graphs previous  $n$  results
- ◆ Hot-key access to SOP documents

#### OPERATOR LOGS / COMMENTS

- ◆ "Notebooks" for result, lot, plant, and more...
- ◆ Relational and categorized
- ◆ Readily accessed from Data Entry
- ◆ Intuitive interface

#### CORRECTIVE ACTION

- ◆ Custom non-conformance reason lists
- ◆ Pareto analysis
- ◆ Non-compliance reporting

#### TEST / SPECIFICATION MANAGEMENT

- ◆ Role-based security
- ◆ Full audit trails
- ◆ ECN version control
- ◆ Separate approval process
- ◆ Exception-based specifications
- ◆ Handles numeric, text, and lookup data types
- ◆ Categorized by test method

#### REPORTING AND ANALYSIS

- ◆ Dozens of pre-defined reports
- ◆ Incorporates company logo
- ◆ Web-based reporting and charting tool
- ◆ Ad-hoc query wizard for non-power users
- ◆ Multiple graph types:
  - Line, bar, pie, histogram, pareto, control (XBar and R, XBar and S), n, P, EWMA
- ◆ Statistical calculations:
  - Min, max, average, count, standard deviation, skewness, kurtosis, process capability, control limits
- ◆ Saves report settings (global or personal)
- ◆ Exports to Excel

#### DATA IMPORTING

- ◆ Imports results from external laboratories
  - Spreadsheet "mapping" application
  - Supports Environmental Exchange Network eDWR XML schema
- ◆ Interfaces with SCADA historians



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