



# FMS

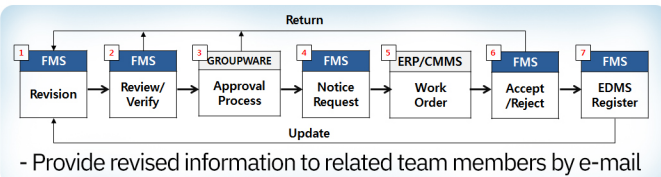
## Flowmeter Management Solution for O&M



The importance of systematic management of flowmeters has been increasing to improve accuracy in sectors that use flow information, such as mass balance, intercompany transaction, emission trading, etc. because of the nature of the plant industry such as refinery, petrochemical and energy plant. However, the flowmeter has not been managed systematically because it was recognized as a difficult item compared to the major facility managed by the Asset Master items of CMMS. The FMS makes it possible to unify information, manage change records, use accurate and consistent flow calibration method and calculate the amount of process operation by building a flowmeter database and systematically managing it.

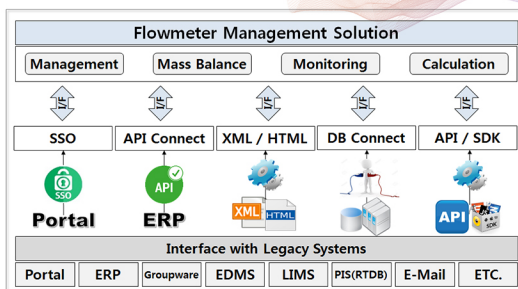
### KEY FEATURES

- Flowmeter register / Revise/ History management
  - Automation of internal calculation and update calculation method
  - History management, compare changes
  - Bulk upload of flowmeter data, screen by flowmeter type
  - Save Datasheet PDF
- Systemize the change procedure of flowmeter range



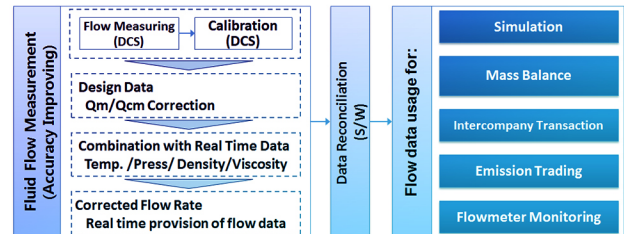
- Monitoring / Range change recommendation / Alarm
  - Auto-recommendation after comparing Design and Actual value
  - Alarming once real time flow rate is over max flow (QM)
- Unified mass balance calculation
  - Manage mass balance transparently and easily
- Simple and easy calculation
  - Calculate DP Meter, Density, Viscosity briefly
  - Accurately calculate L.K. Spink, ISO5167, ISO/TR15377 with same way
  - For liquid density, it can be checked by plot chart from calculation
- Case Study (Registration Unit balance Case)
  - Calculation and applying unit balance feed of product case

### SYSTEM ARCHITECTURE



### BENEFITS

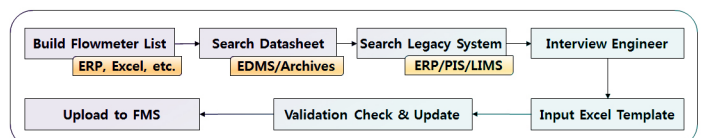
- Integral flowmeter management
  - Integrated management of flowmeter data
  - Blocks the disconnection and absence of change history of the flowmeter
  - Apply accurate and consistent calibration method
  - Calculate consistent Mass Balance
- Usage application of real time flow rate



- Increase in profits
  - Improved Data Reconciliation, decreased Mass Imbalance
  - Increased Accuracy and Reliability of LP (Linear Programming)
  - Reliability of advanced process control/real time optimization increased
  - Improve operation efficiency through accurate Yield Accounting
  - Increased reliability about intercompany transaction, emission trading

### FLOWMETER DATABASE 구축

- Build a database with existing flowmeter data collection
  - Apply automatic collection technique using Data Mining
- Application procedure for Initial database



- Update current ERP data by latest version
- Confirm finally by field inspection

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Engineering to O&M