Level Pressure Flow Temperature Liquid Analysis Registration Systems Components Services Solutions

Profibus process day

Transparency of diagnostics

Endress+Hauser

People for Process Automation

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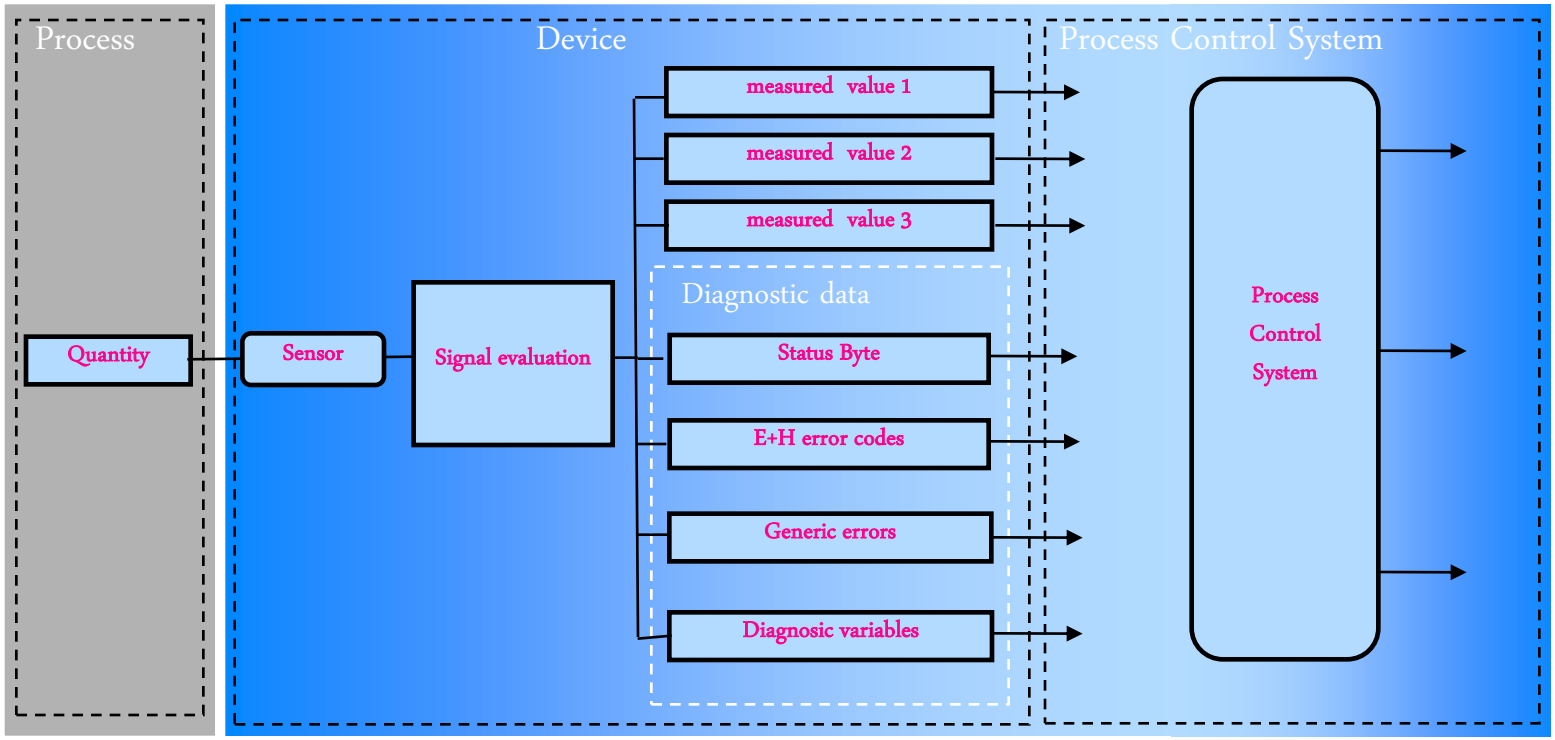
Available device diagnostic data



- Measured values: process variables (level, flow, density, pH etc
- Manufacturer specific error codes: device specific alarms and warnings (E641, E700 etc)
- Generic errors: common device errors (configuration error, maintenance required etc)
- Diagnostic variables: quality of measurement (excitation current, signal to noise ratio, sensor impedance)

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3 levels of diagnostic transparency

- Level 1
  - Device status byte
- Level 2
  - Faceplates
- Level 3
  - Condition monitoring

+ device configuration & asset management using FieldCare condition monitoring

+ diagnostic data, showing diagnostic text

Device status monitoring

Good
Bad
Uncertain

Level 1

Level 2

Level 3

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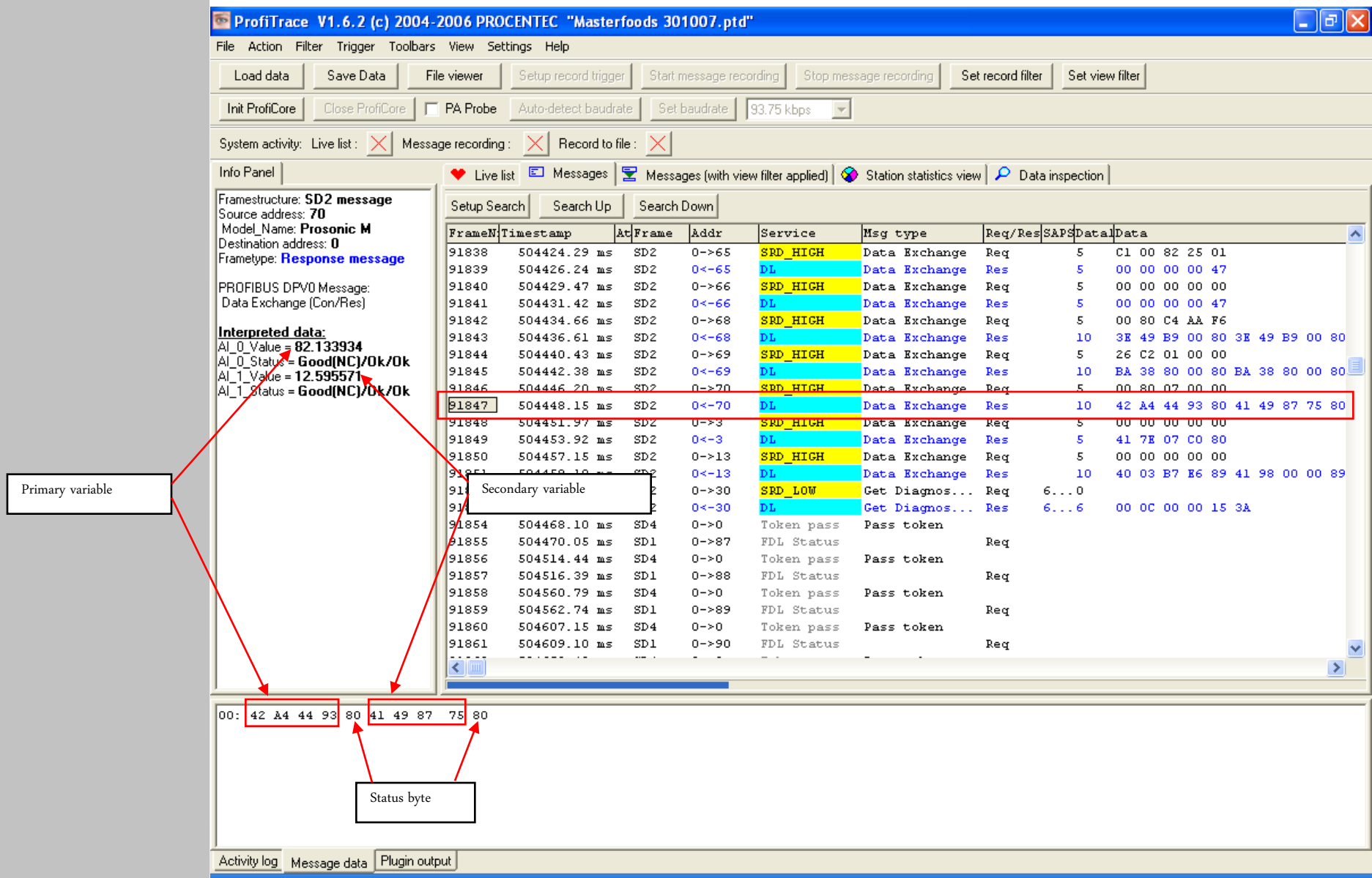
Level 1 – Status byte



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Level 2 - SCADA faceplates

Global Templates provide the following features:

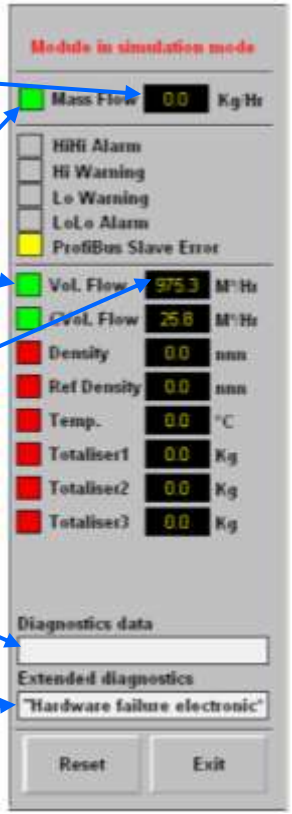
Primary Information

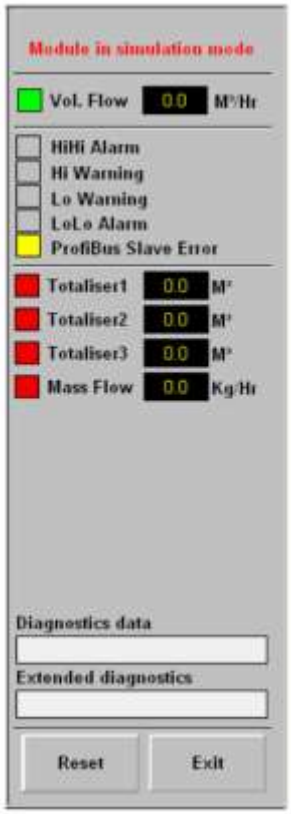
Measurement Quality

Extended Information

Diagnostics

Extended Diagnostics





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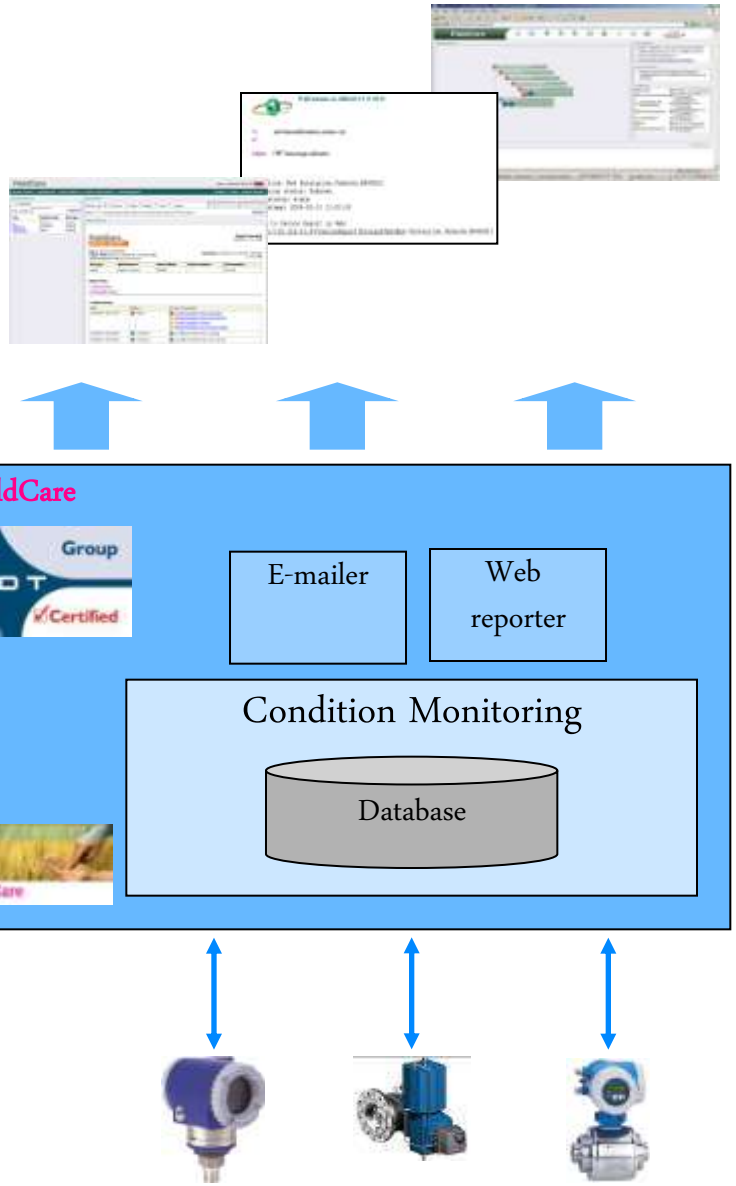
Level 3 - FieldCare Condition Monitoring

- Reads error status and diagnostic variables from field devices using the PROFIBUS communication network.
- Writes date and time stamped data in the database.
- Displays current plant condition using NAMUR NE107 symbols. Assigns predefined text descriptions.
- Generates e-mail notifications sent to defined addresses and provides a web based link to device reports.



Maintenance required

Out of Spec

Check function

Failure

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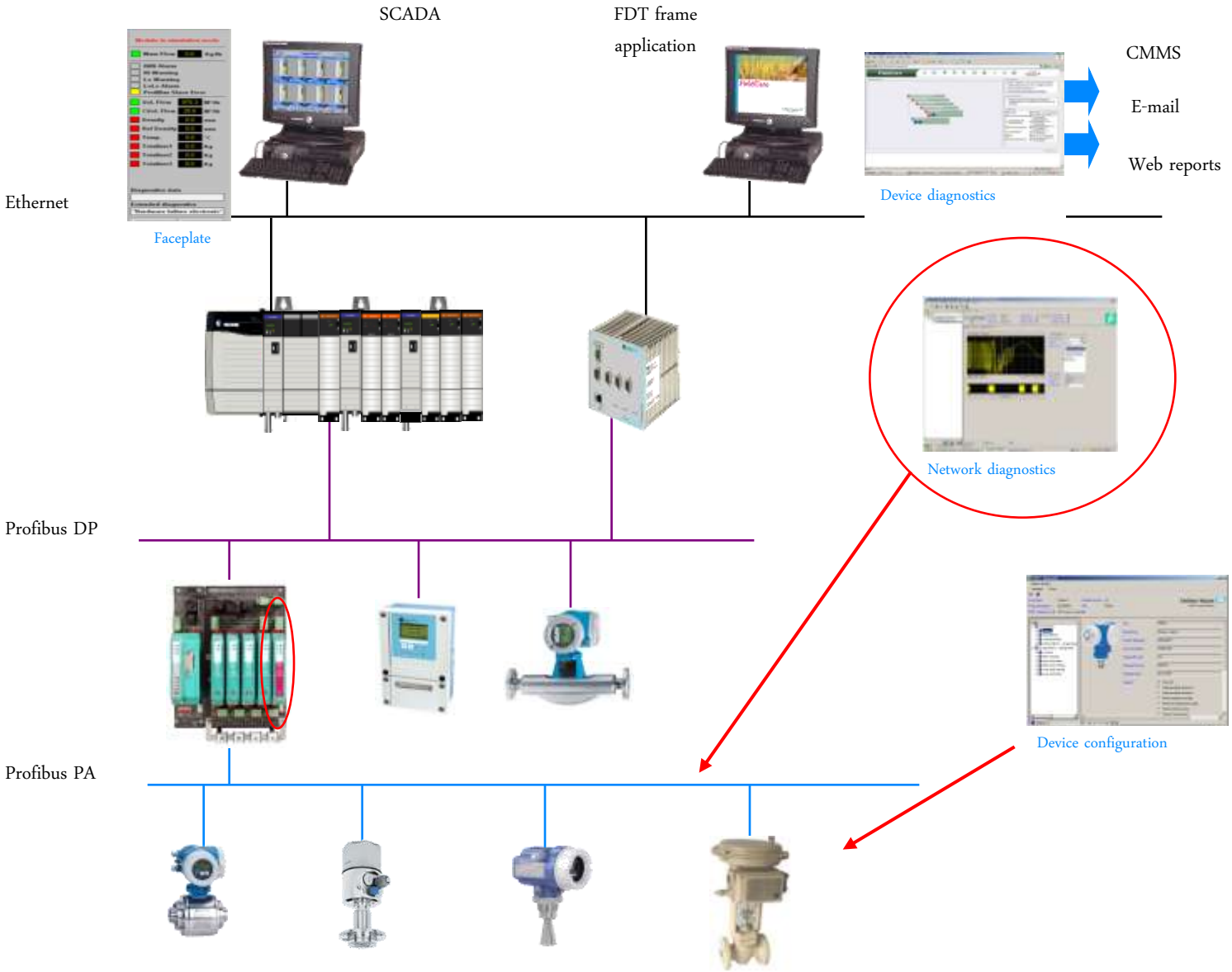
Diagnostics available from all levels



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...demonstration

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