





















...device configuration using FDT/DTM





The FDT Group

PROFIRILS & PROFINET

PROFIBUS & PROFINET
User Conference 2010
User 29/30 2010 Stratford on Avon
United Kingdom

- The FDT Group formed in 2003
 - open
 - independent
 - non-profit
 - association of 61 international companies
- Owner of the FDT Technology
- Responsible for maintenance, further development, and promotion of FDT Technology
- Responsible for certification and compliance testing of FDT products
- Dedicated to establishing and maintaining FDT
 Technology as an international standard with
 broad acceptance within the automation industry
- Open to all companies that wish to participate

www.fdtgroup.org



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FDT Group members

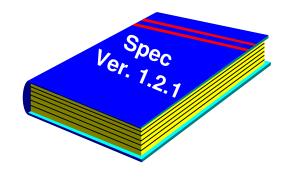






What is FDT/DTM?





- FDT = Field Device Tool (frame application)
 - Follows a published standard specification
- DTM = Device Type Manager (device driver)
 - Compatible with any FDT frame application

What is FDT/DTM?





FDT/DTM

- Open standardised technology independent of device or system supplier
- Independent of device type sensor, actuator, remote I/O, drives, etc.
- Full support of installed base
- Full device functionality
- Independent of communication protocol Ethernet, HART, PROFIBUS, Foundation Fieldbus, etc.
- Vertical integration by nested communication

FDT Frame Application

- Network Configuration
- Navigation
- User Management
- DTM Management
- Data Management

DeviceDTM



CommDTM

E.g. Ethernet, HART®, PROFIBUS, FOUNDATION™ Fieldbus

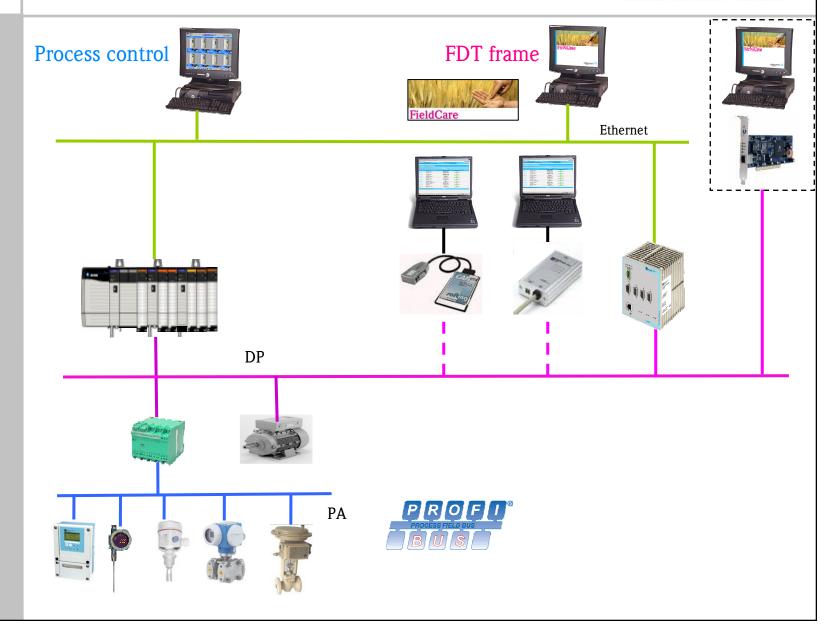
Plant Assets

Sensors, Actuators, Drives, Voltage Switchgear, Gateways, Remote I/Os, Controllers, etc.

Connection options - Profibus

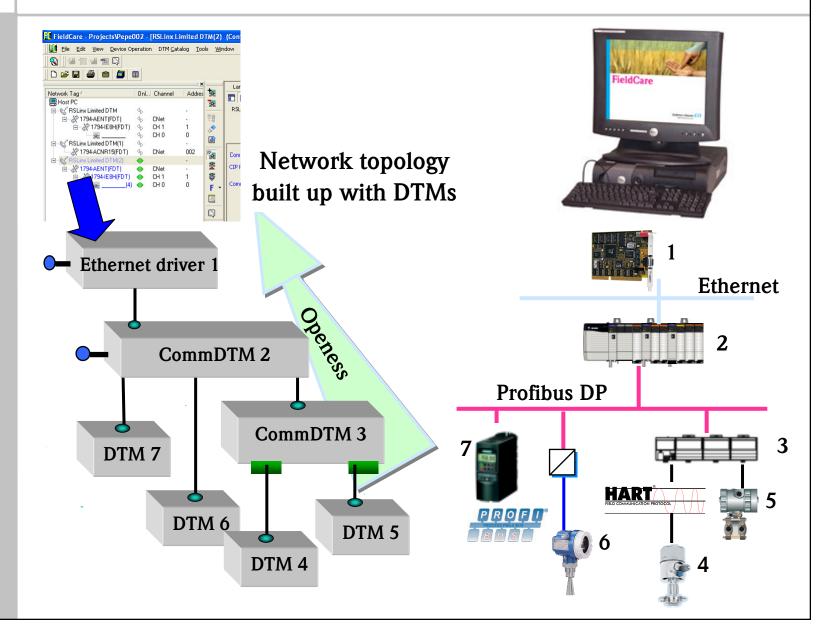






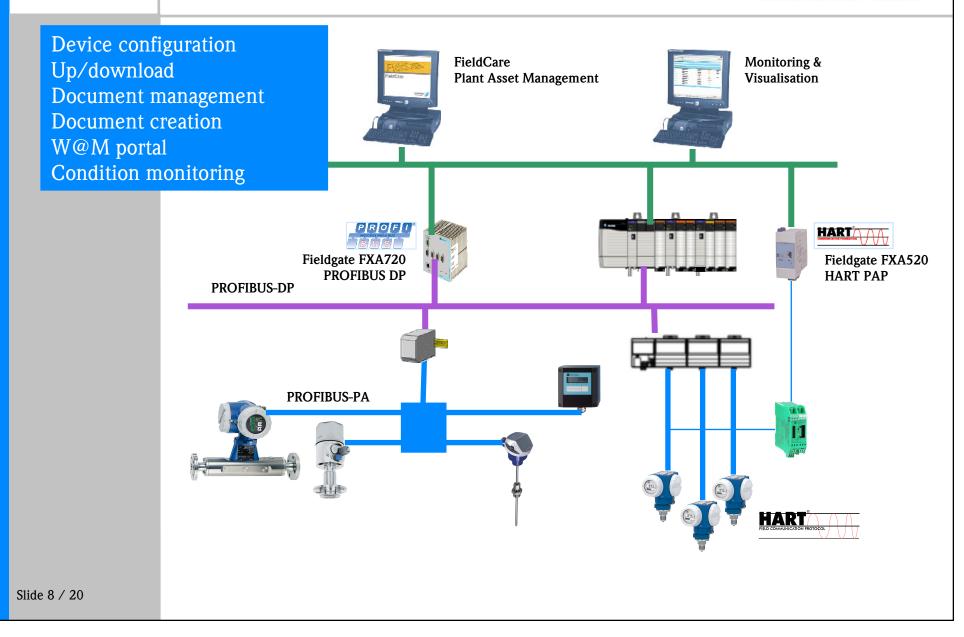
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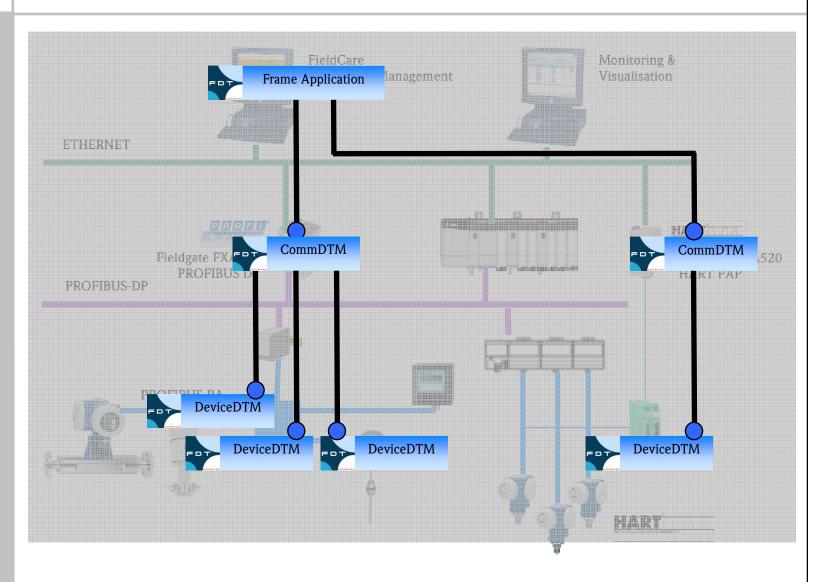
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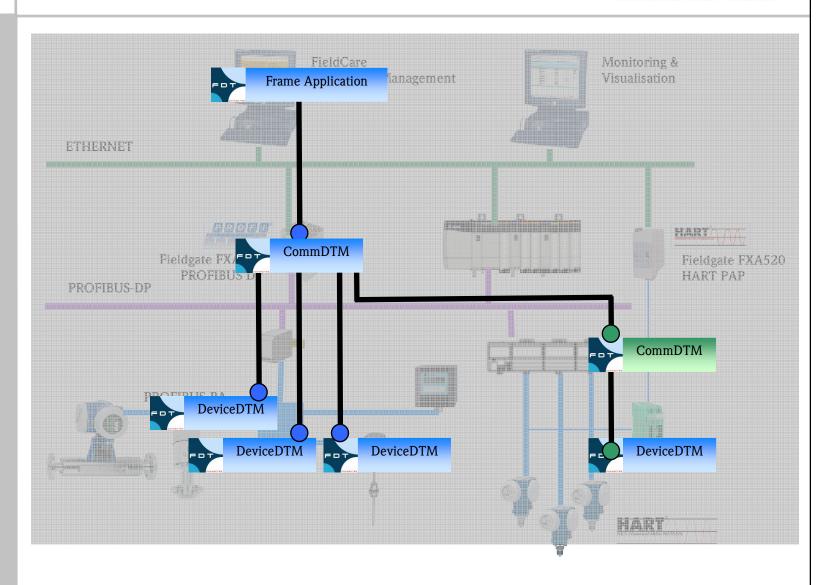
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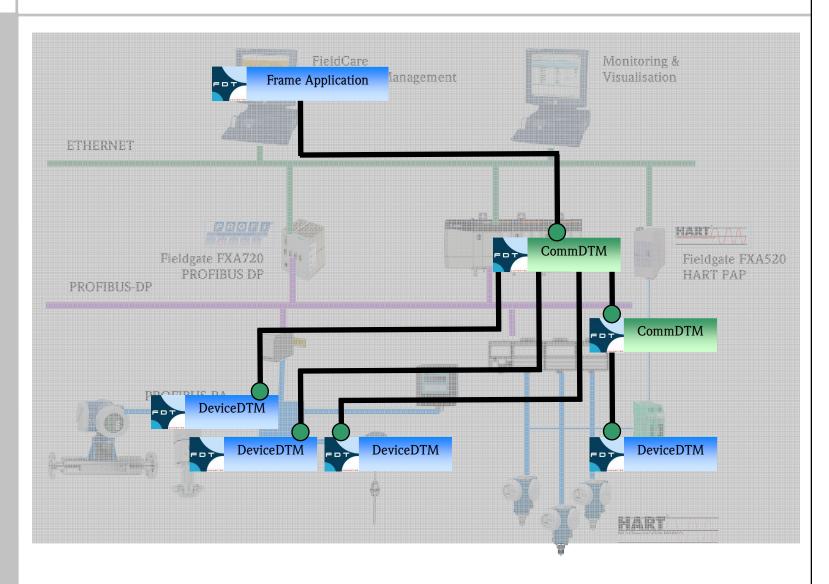
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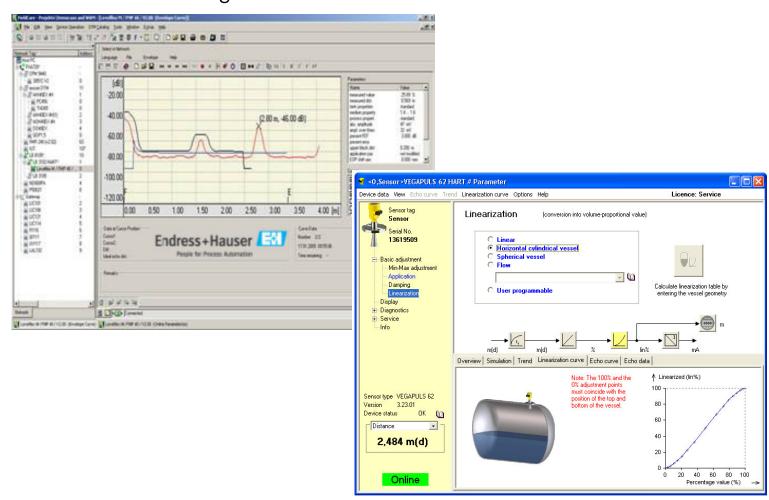


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Example 1: Radar Level Transmitter

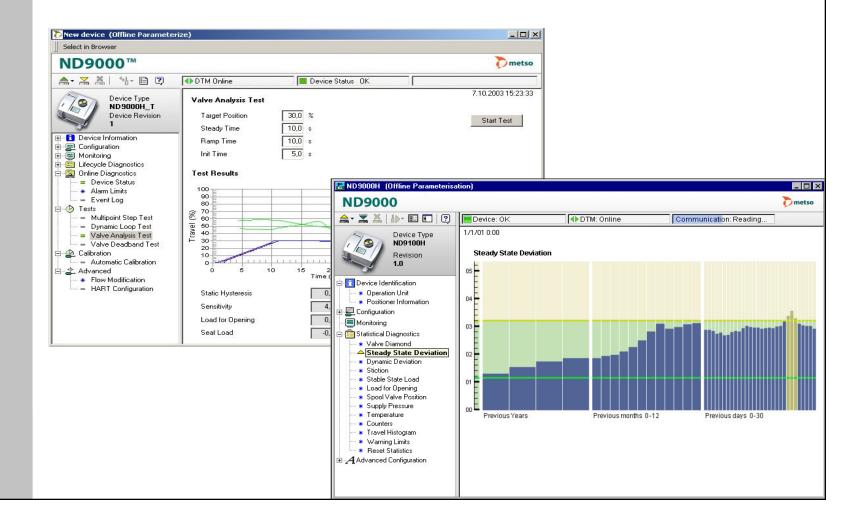
- DTM used for device configuration and advance instrument diagnostics
- DTM used for configuration of linearization



Example 2: Valve Positioner



- DTM enables advanced valve diagnostics
- Control valve diagnostics enables better decisions for shut down planning

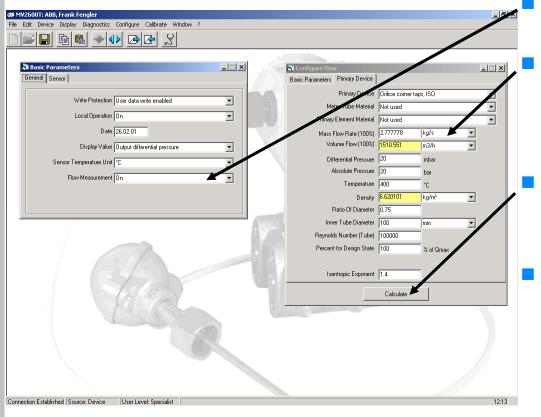


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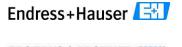


Example 3: Multivariable Transmitter

■ DTM used to calculate coefficients for dp flow transmitter



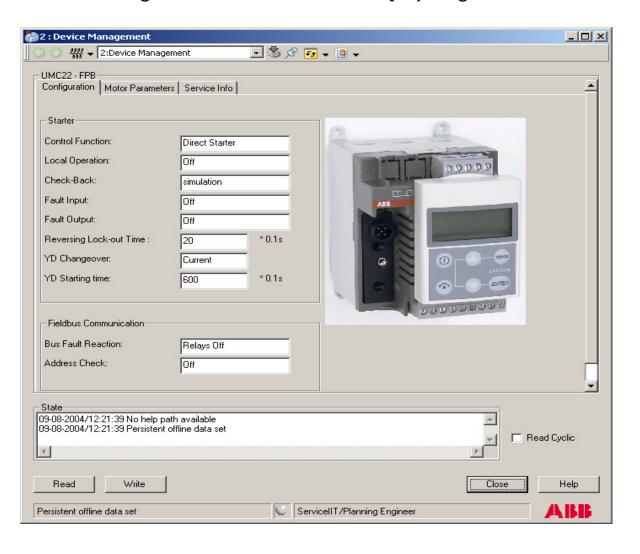
- Switch Flow Measurement "On"
- The calculation values of the Primary Device entered here are the basis for the flow calculation
- Calculate and you get special parameters as result.
- Download parameters in device.



Example 4: Universal Motor Controller



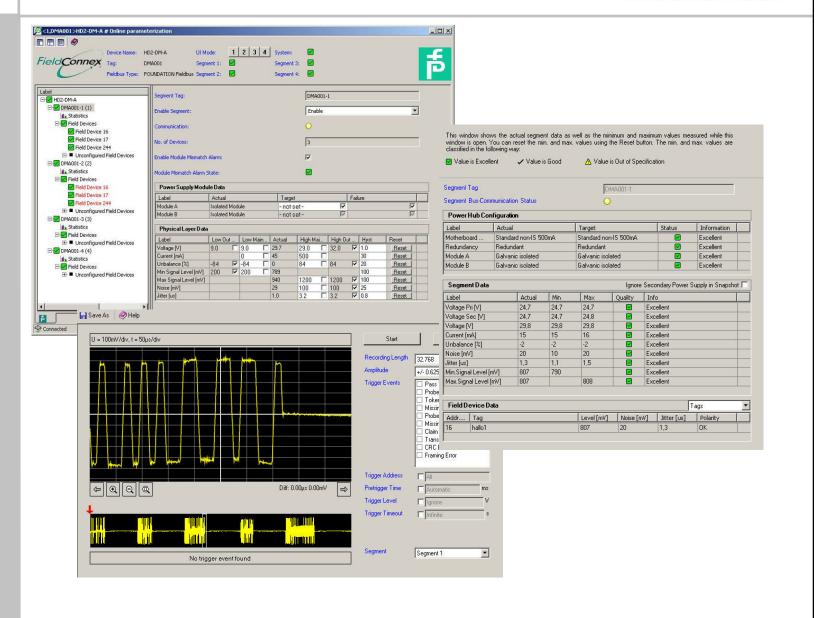
■ DTM used to configure motor controller an display diagnostic information



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Example 5: Segment Coupler





FDT frame -FieldCare

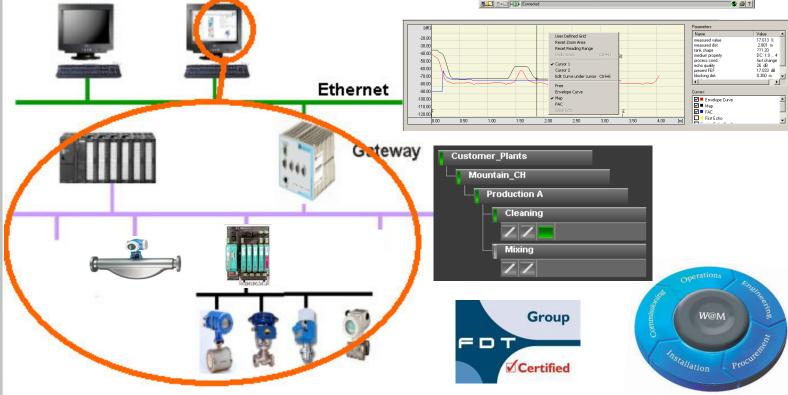




Plant asset management tool

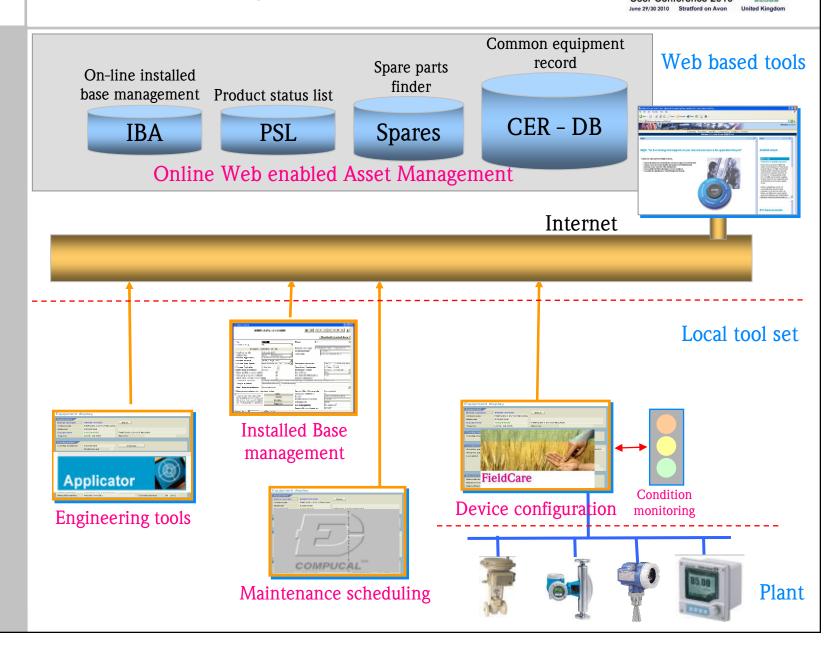
- Multivendor device configuration
- iDTM for HART & FF (Profibus in 2010)
- Reports and document management
- Supplied with CommDTM's
- Links to Web enabled Asset Management





Life cycle management tools





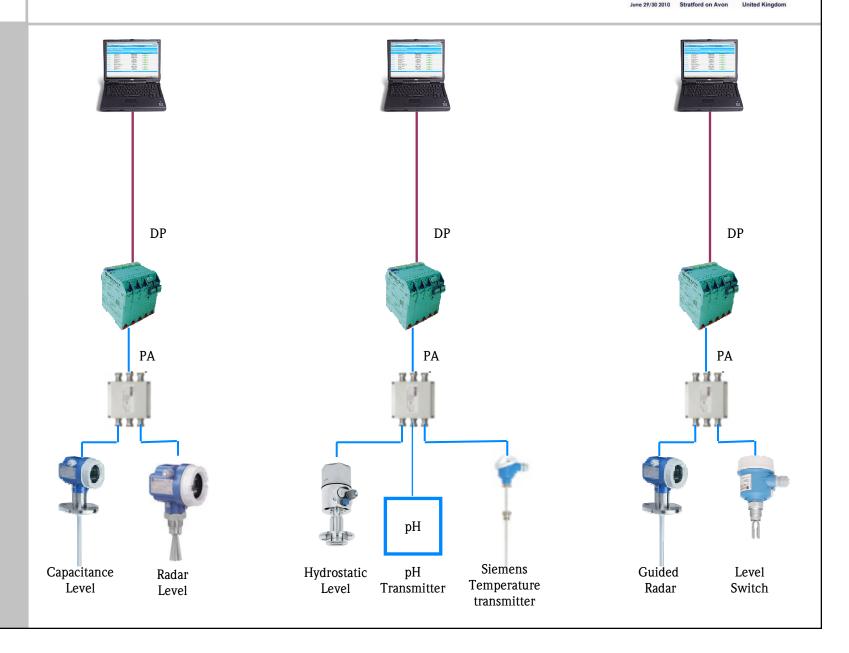
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FDT/DTM - Hands on



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