FIELD DEVICE MANAGER OVERVIEW

June 2017
FDM Basics
FDM Basics

• What is it?
  - CONFIGURATION TOOL for smart field devices
  - MAINTENANCE TOOL for diagnostics/troubleshooting
  - Connects to Experion and non-Experion I/O (e.g., MUXs, SM, Wireless, RTUs)

• Who wants/needs it? Why?
  - CONTROL ENGINEERS commissioning and configuration
  - INSTRUMENT TECHS for troubleshooting and maintenance

• What does it do for them?
  - INSTRUMENT ASSET MANAGEMENT
  - REMOTE ACCESS to smart devices all over the plant
  - REPOSITORY for device databases

Field Device Manager Key Messages

• FDM is Important
  - Absolutely core to Experion! A must for RTU, OW, SM, etc.
  - Essential effective instrument asset management
  - Integral Component of IIoT implementation

• FDM is Simple
  - Easy to set up! Customers report no problems with FDM installation!

• FDM is Reliable and Stable
  - FDM capacity, reliability, performance and stability are best-in-class!

• FDM is Vibrant and Growing
  - Adding many new features and functions in the future! Very well supported!
FDM Benefits

• Saves Time & Cost
  - Brings instruments to you!
  - No walking/driving/climbing, no searching, no work permits
  - Finds and accesses the right devices quickly!
  - Optimized for fast data access!

• Lowers Safety Risks
  - No need to go into hazardous areas
  - Less risk to process and personnel

• Simplifies Maintenance Tasks
  - Automatically highlights and shows instrument faults!
  - Intuitive interface regardless of instrument protocol!
FDM Benefits

• Freedom of Choice through Open Standards
  - Supports whatever protocol you use – HART, Profibus, ISA100 Wireless, Fieldbus and (coming) DE
  - Both DD/EDDL and FDT/DTM standards in the same tool!

• Flexible and Scalable
  - Supports any size project – very small to very large
  - Even runs in a Win 7 laptop/desktop for the Maintenance Shop!
FDM Supported Protocols

• HART, HART IP and Wireless HART
  - via Experion and Safety Manager HART I/O
  - via non-Experion HART multiplexers & modems
  - via HART-over-Profibus gateway devices
  - via RTU2020 & WDM (HART-IP Servers)
  - via other HART-IP Servers (TBD)

• Profibus DP and PA
  - via Profibus Gateway (PGM)
  - via Profibus Communication and Device Type Managers (DTMs)

• Foundation Fieldbus
  - via Experion-connected FIM2, FIM4, FIM8

• ISA100 Wireless
  - via Wireless Device Manager (WDM)

• DE Protocol
  - via TPS/ESVT
FDM 500
New Feature Summary
What's New for FDM R500.1

• Support for Experion 500
  - Support for Win 10 and Win Server 2016
  - Dot Net Framework 4.6.2 support

• Universal I/O Phase 2 support
  - Single modem per channel for awesome performance!

• HART Host Registration
  - 100% assurance of HART interoperability!
  - Major improvements in FDM user experience!

• Profibus Gateway Module (PGM) Enhancements
  - Handles Profibus DP and PA as native devices
  - HART-over-Profibus alerts same as native HART devices
  - DTM Support for DP; DTM or FDI for PA

• One Wireless R300 Enhancements

• RTU2020 R120 Enhancements

• Instrument Sentinel Visual Integration

FDM is an essential part of Experion PKS!
Universal I/O Phase 2 Support

- Single modem per channel for awesome performance!

- Experion R432.1 introduces support for a new Universal Input/Output (UIO) module - the UIO-2, that sports a new hardware design to reduce overall dimensions of IOM and IOTA for both redundant and non-redundant versions. This leads to reduced UIO footprint in the cabinet and increased cabinet density.

- FDM R500 supports UIO-2 and will be available in the Network View under the C300 node. A significant feature of UIO-2 is that all its 32 channels can be configured as either AI or AO, and with each channel having its own modem, UIO-2 offers superior HART handling capabilities. All FDM features supported for the HART I/O are also supported for the UIO-2. Also, support for UIO-2 is similar to that of any other Series C IO module supported by FDM.

FDM is an essential part of Experion PKS!
What's New for FDM R500.1

HART Host Registration

- FDM R500 complies with the mandatory HART Electronic Device Description Language Standard with the implementation of HART specs 510, 511, 512 and 513.

- **FIRST product to pass new HART Host Registration requirements!**

- As a result of this compliance, significant changes have been made including:
  - User Interface enhancements
    - Help icon for each parameter
    - Indications for read-write, read-only, and edited parameters for variable controls
    - Tooltips to indicate overflowing label or field text
    - 5 column layouts versus 3 column layouts in a row of control
    - Improved/new chart and graph controls that are 100% compliant
    - Button support to launch image, grid, graph and chart controls in Table view
  - Data modeling requirements
    - Full support for data precision as defined by the standard (e.g. float, double, hexadecimal, etc)
    - Complex reference handling (e.g. nested collections, arrays, etc)
  - Methods and actions
    - Pre/post read, write and refresh actions
    - Compliance for method built-ins (such as menu_display, etc)

FDM is an essential part of Experion PKS!
What's New for FDM R500.1

Profibus Gateway Module (PGM) – Native Integration

• Need for a Comm DTM mechanism for connecting Experion connected PGM and Profibus devices with FDM has been eliminated.
  - Like HART and FF, FDM now provides native integration (eliminating the need for the FDT Comm Console Client) for PGM and Profibus devices.
  - Avoids issues of capacity, usability, scalability and configuration of PROFIBUS and HART devices connected via the PGM Comm DTM.
  - Significant advantage is enhanced network stability because of reduced communication channel drops over time (3 to 4 days) and during high load conditions.

• The PGM native integration solution allows for identification of PGM and Profibus devices including:
  - Profibus DP devices (MCCs, Siemens Simocode Pro V/C) and Remote I/Os (e.g. Turck Excom, Stahl)
  - Profibus PA devices on the network
  - HART devices connected to remote I/Os (HART over Profibus)
  - Device DTMs can still be used to open these devices inside the FDM client. However, the identification of these devices is a native capability.

FDM is an essential part of Experion PKS!
What's New for FDM R500.1

Profibus Gateway Module (PGM) Enhancements

• Until FDM R500, Profibus devices were supported using DTM only. FDM R500 has been enhanced to support Profibus DD/EDDL while still retaining support via FDT/DTM for PROFIBUS PA devices through FDI Package. A simple context menu is available for PROFIBUS PA devices that provides users ability to view DD/EDDL provided by the device manufacturer. FDM R500 has adopted FDI Package for Profibus devices to read device-specific information that is used for interpreting the responses received from the device. Only EDD content in the FDI package is used in FDM R500, while future releases will support the complete FDI Package specifications.

• Other Enhancements
  - Auto discover and update devices by FDM
  - HART-over-Profibus alerts same as native HART devices
  - DTM Support for DP; DTM or FDI for PA
  - Station Maintenance View (like HART and FF) - a major differentiator!
  - Process Lock – lock if ACTIVE in Experion
  - Explicit Lock – Device Access Control, same as HART devices

FDM is an essential part of Experion PKS!
What's New for FDM R500.1

• One Wireless R300 Enhancements
  - Supports Wireless HART devices

• RTU2020 R120 Enhancements
  - Display Expansion I/O in FDM Network tree
  - Support ISA100 devices in RTU Network

• Instrument Sentinel Visual Integration
  - Re-establish broken functionality
  - Device Information Page in Sentinel

FDM is an essential part of Experion PKS!
Migration and Experion PKS compatibilities

• FDM Migration to current release is supported from previous 4 releases.
  - FDM R450 → R500
  - FDM R440 → R500
  - FDM R430 → R500
  - FDM R410 → R500

• FDM R500 System Compatibility:
  - Experion PKS R500
  - Experion PKS R432.1
  - Experion PKS R431.3
  - Experion PKS R410.9
  - Safety Manager 152.1 or higher
  - OneWireless R220 or higher
  - RTU 2020 R100.1 or higher
  - TPS R685 or higher
# FDM R500 Capability Summary

<table>
<thead>
<tr>
<th>FDM Capability</th>
<th>HART</th>
<th>Profibus DP</th>
<th>Profibus PA</th>
<th>Fieldbus</th>
<th>ISA100</th>
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<tr>
<td></td>
<td>DD</td>
<td>DTM</td>
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<td>Audit trail</td>
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<td>Bulk offline operations</td>
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<tr>
<td>Bulk history</td>
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<td>Import / export (tags, audit trail, history, and offline configuration)</td>
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<td>Third-party application integration [FHM]</td>
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<td>Connects to MUXs, modems, Safety Manager, and OneWireless Adaptor</td>
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<tr>
<td>Provides MUX monitoring¹</td>
<td>●</td>
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<tr>
<td>Connects to Comm/Gateway DTM</td>
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<td>●</td>
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<tr>
<td>Dynamically updates devices</td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

| Note 1 – Not supported for RTU2020. |
FDM Feature Review
# FDM Features and Capabilities…

<table>
<thead>
<tr>
<th>Device</th>
<th>Security</th>
<th>Data Management</th>
<th>Integration</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Tag Consistency</td>
<td>• Role-Based User Management</td>
<td>• Instrument Database</td>
<td>• Alarming (a.k.a MUX Monitoring)</td>
</tr>
<tr>
<td>• DD/EDD and DTM Support</td>
<td>• Windows Integrated Security</td>
<td>• Audit Trail</td>
<td>• Third-Party App Integration</td>
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<tr>
<td>• Complete Device Discovery</td>
<td>• Single Sign-On</td>
<td>• Device Library (EDDs, DTMs)</td>
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<tr>
<td>• Automatic Network Updates</td>
<td>• Device Lock Management</td>
<td>• Print</td>
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<tr>
<td>• Device Configuration</td>
<td>• Device Access Lock</td>
<td>• Import and Export</td>
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<tr>
<td>• Offline Device Configuration (HART)</td>
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<td>• Back up &amp; Restore</td>
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<tr>
<td>• PVST – through DTMs</td>
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<td>• Migration Tool</td>
<td></td>
</tr>
<tr>
<td>• Device History</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>• Compare devices</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>• Device Health Scan</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>• Device Documentation</td>
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<tr>
<td>• Bulk Operations</td>
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<tr>
<td>Search &amp; Views</td>
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<tr>
<td>• Quick Search</td>
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<tr>
<td>• Advanced Search</td>
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<td></td>
<td></td>
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<tr>
<td>• Dashboard</td>
<td></td>
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<td></td>
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<tr>
<td>• Online Vs. Offline</td>
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<tr>
<td>• Display Filters</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>• Plant Area View</td>
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</tbody>
</table>

**ALWAYS THE RIGHT TOOL!**
FDM Features and Functions

• Configuration of devices
  - On-line configuration and diagnostics
    - via DD/EDDL files or DTMs
  - Off-line configuration (optional)
    - Stored in FDM database
    - Can download to device later when online

• Device communications
  - With Experion HART or FF enabled IO
    - No extra wiring or hardware -- via Ethernet/FTE
  - With HART modems for bench configuration
    - Generic HART modem, COM or via USB modems
    - DE HART Modem for MCToolkit
  - With HART devices connected via hardware multiplexers
    - TPS/TDC/FSC/Safety Manager or any third party system
  - To Safety Manager RUSIO/RUSLS connected devices
  - Via Comm/Gateway DTMs (HART & Profibus)
  - Via Profibus Gateway Module (PGM) using DTMs
  - Via HART-IP to RTU2020 or to OWA-connected HART
FDM Features and Functions

• Integration with Experion
  - Auto build for devices connected to Experion
    ▪ HART and Fieldbus
  - Import of device topology from SM RUSIO
  - Database changes made online
  - Optional MUX Monitoring (HART only)
    ▪ Integration of diagnostic alarms from MUX- and SM-connected devices to Experion

• Security
  - User access guarded by login and password
  - Prevents changes during control to devices connected to Experion PKS
  - Application level security for devices connected to multiplexers

• Status and Diagnostics
  - Easy indication of device status
  - Access to diagnostics and procedures to troubleshoot
FDM Features and Functions

• User Management Functions
  - Robust role-based user management for creating accounts and login authentication
  - Flexible tools to define Groups, Roles and Users
  - Single sign-on available to bypass login process

• Display Filtering
  - Enables user to define filtering criteria
  - Applied to Network View tree
  - Supported for all protocols, including HART, PROFIBUS and FF

• HART-Over-Profibus
  - Supports configuration of HART Devices over PROFIBUS network
  - Uses third party HART over PROFIBUS gateway DTMs
  - Both DD/EDDL and DTM view supported
FDM Features and Functions

• Instrument database functions
  - Configuration History
    ▪ Save all database parameters in a “checkpoint”
  - Compare history (HART only, FF in the future)
  - Audit Trail – log of user actions with the device
    ▪ Parameter changes, diagnostics, calibration, etc.
    ▪ Stored along with user name and reason for action
  - Device documentation
    ▪ Ability to store documents related to a device in the database
  - Import / Export
    ▪ Device tags, audit trail records, offline configurations, device history
    ▪ CSV, Excel, HTML, XML formats
  - Ability to backup current database and restore it later

• Integration with MC Toolkit
  - Synchronize FDM database with MC Toolkit data
  - Upload from devices to MC Toolkit to FDM history
  - Download from FDM to MC Toolkit to devices
FDM Topology & Capacity

- **Multi-Server Environment**
  - FDM Client connects to any FDM Server (no limit)
  - One Server at a time!
  - Client switches Servers on-the-fly

- **Capacity**
  - Up to 16,000 devices max per FDM Server
  - Up to 6 Experion Servers per FDM Server
  - Up to 25 MUXs per FDM Server
  - Up to 25 MUX Monitoring connections per FDM Server
  - Up to 25 RCIs per FDM Server
FDM Example – Server RCI Connections

- **6 network connections max per RCI**
- **25 network connections max per FDM Server**
- **Total of 4 RCI nodes in this example**
- **Total of 11 network connections in this example**

**Experion Servers count as RCI nodes**

- **10 Experion Servers max per FDM Server**
- **10 Experion Servers max per FDM Server**

**Comm DTM Network**
FDM MUX Monitoring – Non-Experion HART

• MUX Monitoring
  - Brings device alarms and info from Non-Experion MUXs to Experion
  - FDM Gateway sends status/data to Experion from FDM Server
  - Tool included to automatically populate tags in Experion
  - VERY POWERFUL!!
FDM Components – MUX Monitoring

Continuous monitoring in Experion of HART devices attached to hardware multiplexer/remote I/O network. Device alarms reported in Experion along with HART variables.

- Licensed per multiplexer network

- FDM Server
- FDM Client
- Experion PKS Interface Driver
- Points (HART instruments, IO, Controller)
- FDM RCI (included with the FDM Server)
- Server Hardware Multiplexer Interface
- RS485 to RS232 Converter
- Multiplexer Monitoring
- Multiplexer points
- Experion process points
FDM Dynamic Scanning (HART)

- Optional parameter refresh
  - Every 40 seconds
  - Applies to PV, SV, TV, QV, etc.
  - Option disabled by default

- Useful maintenance tool
  - Monitoring device response
  - Looking for status changes
  - More flexibility in managing bandwidth for HART devices
FDM Device Health (MUXs & FDT Comm)

Device Health and Network Scan Settings

- Separate features for MUXs and FDT Comm devices
- Enabled by default
- MUX scan default values of 10 sec for device health scan and 2 min for network scan
- FDT connected device default is 5 minutes – Comm DTMs must be active
- Selectively monitor devices of interest
- Very flexible
FDM Bulk Operations

Bulk Operations – Bulk History & Offline Template Save

• Bulk History
  - Good for snapshots of devices as commissioned
  - Saves history for a large number of devices

• Bulk Offline Template Save
  - For creating offline configurations of available device types
  - Same as Bulk History, but can be edited and used for downloading to
    devices later

• Common UI for Both Operations
  - Invoked from FDM Client → Tools → Bulk Operations
  - User selects required devices from Online Network
  - User can save a report of the operation
  - User can abort at any point in time
FDM Bulk Operations (cont’d)

Bulk Operations UI

- Select the desired bulk operation
- Option to filter the available network tree
- Devices currently available in the FDM network
- Prefix for the records to be saved
- Devices selected for Bulk History / Bulk Template
- Buttons to select/de-select devices
- Time interval within which each device must be loaded and history/template saved
FDM Bulk Download

• Allows configuring multiple devices simultaneously
• Applies to multiple offline configurations
• Download to one or more device types
• Two options…
  - Manual selection or…
  - …CSV file to specify device versus offline configuration
• Previous FDM Bulk Offline Download…
  - Applied to single offline configuration
  - Download limited to single device type

VERY USEFUL PROJECT TOOL!!
FDM Client – Basic Device Info (DD files)
### FDM Client – Device Compare

#### Compare Configuration

**Selected device:** STT_08_1  
**Connection Status:** Online  
**Date & Time:** 03/17/2008 13:49:03 STT_1

**Compare with:**  
**Devices:** EVC3 STT_08_1  
**Connection Status:** Online  
**Date & Time:** 03/17/2008 13:50:53 STT_2

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<th>STT_08_1 03/17/2008 13:50:53 STT_2</th>
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FDM Client – Offline Configuration
FDM Components – Offline Configuration

- Allows users to configure devices without them being physically present
  - Especially useful for Greenfield projects
  - Licensed per FDM server
  - HART only at present
Station Detail Display of HART Data (Main)

FDM HART View (DD or DTM) for Maintenance

Normal HART Detail Display Data for Operations
Station Detail Display of HART Data (Maint)

Device Alarms and Alerts for Maintenance

FDM Client View for Maintenance
FDM Plant Area View (PAV) Overview

• Helps focus attention on problem areas

• View and monitor smart devices based on geographical location or any logical grouping category

• Very versatile and time-saving

• Up to four (4) hierarchical levels

• Quickly locate a device in the FDM Client View from PAV

• Available starting as an FDM R430 patch
PAV Features

- Enables you to group available devices based on geographical location or logical association
- Easily identify a device location and monitor the device directly by its location
- Grouping strategy follows ANSI/ISA–88.01–1995 standards
- Can filter devices by health or connection status
- Two modes
  - Edit – Create a view (as many as you want) and add/edit devices
  - View – Open any view to monitor/zoom, navigate to devices
FDM Components – FDM HART Multiplexer

- FDM HART Multiplexer (FHM) is an emulated hardware multiplexer that allows third party applications access to HART devices connected to Experion IO or hardware multiplexers.
  - Licensed by blocks of devices (16, 32, 64, 128, 256…)

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FDM HART MUX is NOT for connecting to hardware MUXs. It makes FDM “look” like a MUX to a 3rd party application.
FDM Components – Audit Trail

• FDM records all actions performed by the user. Examples of the recorded actions include:
  • Device parameter changes
  • Device method executions and results
  • Discovery of devices on the network
  • Malfunctions reported by devices or the networks connected
• Licensed by blocks of devices (16, 32, 64, 128, 256…)
• “First come first served” – points consume audit trail licenses as they use them
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