ABB Field Information Manager

FIM 2.0 Device Management Edition

Neil Shah, Product Manager – IA PCP
Trends in Device Management Tools

- FDI is the latest Device Integration standard driving Digitalization & sensor to cloud connectivity

- Software tools must be easy to install, use & maintain

- Device Management tool enables Asset Optimization

- Flexible – from standalone in the field to integration into control systems, from Tablets to Laptops, PCs & Workstations
Device Management tools
Why the user needs FDI powered ABB Field Information Manager

- Enables easy and efficient bulk device configuration of HART and PROFIBUS devices from a central location, enabled via device connectivity through System 800xA
- One tool for all needs - can be used in the Engineering station, in the Field, back of the panel or in maintenance workshop
- Utilize it for installed base,
  - supports Thorsis Ethernet to PROFIBUS DP Gateway for connecting to S800 IO and PROFIBUS Devices
  - supports both legacy DDs and new FDI packages; i.e. one tool for existing and new devices
- Leverages FDI technology, which combines the simplicity of EDD and information richness of DTM
- Quick to start – installs on Windows tablets and workstations, scans, identifies & enables access to device within 3 mins
- Connects to Online drivers repository – eliminates the trial & error search of Device drivers
- Fleet management and Asset management opportunities enabled via Connectivity to ABB Ability™ through OPC UA
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What’s new in FIM 2.0 Device Management Edition?

- Direct PROFINET Connectivity and SelectIO, S800 on Ethernet connectivity
- Direct Connectivity to S800 HART Devices independent of Control System
- Efficient access to ABB UMC through local port and highly optimized FDI Device Package
- Connect to PROFIBUS devices through PROFIBUS modem as well
- Compare device configuration with the compare view
- Connection to ABB Online Driver cloud for driver updates
- Connection to FieldComm Group Driver cloud for 3rd party HART device drivers
FIM 2.0 DME - Benefits

Use case 1 – Ease of use & navigation

- Traditional tools take many clicks to navigate to each instance
- User must remember the menus where a certain parameter is located

- FIM with its patented high performance UI, allows the user to access Device Menus at a touch
- The Device menu options can be accessed always in the same way, irrespective of the device make & model
FIM 2.0 DME - Benefits

Use case 1 – Ease of use & navigation

– With traditional tools navigation from one device’s multiple open views to another device is difficult
– The user struggles to manage multiple open or pinned windows (e.g. during Loop checks)
– FIM’s Device Bar allows the user to easily access all open devices
– This makes switching from one devices’ view to another devices’ view at the touch of finger
FIM 2.0 DME - Benefits
Use case 2 – Easy to maintain – Harness the power of FDI

- DTM based tools require the DTMs to be installed on each node
- DTMs are OS dependent software components & need to be maintained over their lifecycle
- Tools that support only EDD offer very limited functionalities, specially when Diagnostic data analysis is key for the future (Digitalization)

- FIM is based on FDI, that uses Device Packages & benefits from the simplicity of EDDs as well as offers graphic capabilities of DTMs
- Device Packages are not installed, but are just loaded in the machine
- FIM also supports UIP that enables graphic rich features like DTM
- FIM comes packed with Generic Device Packages that can be used with any HART device
- Additionally, FIM supports legacy HART DDs

One Device – One Driver
**Sensor to Cloud connectivity**

- Digitalization is opening up huge opportunities
- Digitalization of sensor data can help companies reduce OPEX & more importantly avoid unplanned shutdowns
- Sensor to cloud connectivity also enables easy & quick analysis of Asset data

- FIM comes with an OPC UA server that connects to ABB Ability™
- Sensor configuration & diagnostic data is available without any additional configuration effort
- This opens up huge opportunities – Remote service, remote verification, fleet reporting, analysis of sensor/actuator diagnostics

**Opportunities:**
- Remote service
- Fleet reporting
- Remote verification

- ABB System 800xA and FIM
- Devices & sensors

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August 14, 2019 | Slide 8 | 2PAA114401 en
FIM 2.0 DME - Benefits
Use case 3 – Cloud connectivity 2/2

**Device Driver clouds**

- **FIM 1.4** connects to Device Driver clouds for accessing new & updated Device Drivers

- **ABB Device Driver cloud**
  - The user can easily & quickly access the updated Device Drivers, download & start using them

- **Fieldcomm Group Device Driver cloud**
  - The user can quickly filter, sort & download the 1200+ HART Device Drivers from 3rd party suppliers, thereby wasting no time in finding the device driver

**Opportunities:**
- Allocates the right device driver

**Devices & sensors**
FIM 2.0 DME - Benefits
Use case 4 – S800 connectivity independent of Control System

- Configure, commission, diagnose HART devices connected to S800
- Through Thorsis gateway support in FIM 1.4
- Independent of Control System
  - TSA required
  - 5 Thorsis DP components can be connected to the Thorsis Ethernet Gateway – that means 5 or 10 PROFIBUS DP Segments
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Roadmap

Planned Roadmap

FIM 1.3 – 800xA S800, ABB Ability™

FIM 1.4 – S800 Gateway support, UMC support

FIM 2.0 – SelectiO, S800 on Ethernet, PROFINET & xStream Engineering support

FIM future – Asset Management Edition

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FIM 2.0 DME

Free trial and demonstration

– FIM trial version is available for free download at our webpage
  • Any user can register, download the tool & use it with a HART modem

– Features of trial edition (Device Window Edition)
  • Only 1 device tag
  • Can be used with HART, PROFIBUS connectivities, but not with System 800xA

Free trial software download

www.abb.com/fieldinfo