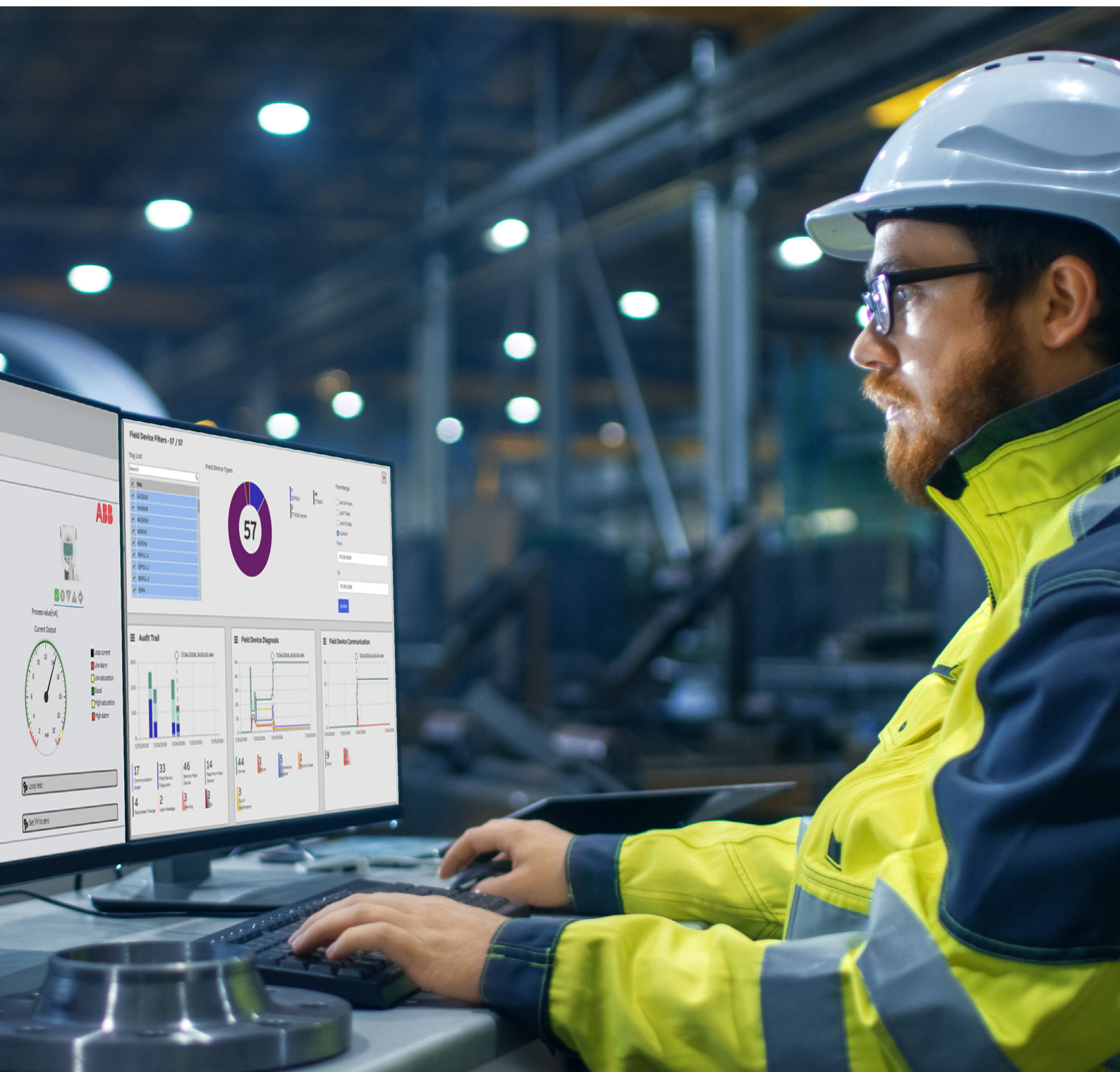


BROCHURE

# ABB Ability™ Field Information Manager

## Device management made easy



---

# Efficient use of field data for years to come

Smarter, more connected sensors. More data and more possibilities. Controlling process industries is becoming both more accessible and more complicated. That's why you need intuitive, efficient and future-proof field information management software to maximise the potential in new and next-generation field device technology. ABB Ability™ Field Information Manager lets you take control of large fleets of field devices and uphold operational efficiency and measurement accuracy.

Functional design and an intuitive interface give best-in-class field experience, while advanced automated functionality boosts engineering efficiency with fast configuration, commissioning, diagnostics, and maintenance. Connectivity options for both your legacy devices and devices with the latest protocols ensure a future-proof solution.



# Device management is becoming more complex

## More and more data to manage

Field devices are continually becoming smarter and more connected. A fleet of devices and sensors means a growing amount of data to manage. It's easy to see that it becomes increasingly important to visualise and interact with the data and transform it into knowledge. If you do it successfully, you can both ensure measurement accuracy and reduce operational and maintenance costs.

## Demands on efficient configuration

Configuring field devices is traditionally associated with significant effort. With a large number of

devices, it is also almost impossible to completely remove the risk of errors. To reduce both the effort and the risk of mistakes, reliable automated configuration is an efficient way forward.

## A mix of new and old devices

Most industries have field devices from different generations, and most users want an efficient way to manage all generations of devices in the same software. Ideally, you would like to standardise the handling of old and upcoming devices, embracing the FDI standard and unleashing its potential.



# Intuitive, efficient, future-proof field device control

ABB Ability™ Field Information Manager is ready to make your work more efficient today while preparing you for the next generation of field device technology.

## **Functional design for best-in-class field experience**

Field Information Manager is designed to support field instrumentation technicians and engineers in their specific tasks and workflows. You can get started in only a few minutes to connect to devices, assign device drivers and get access to device configuration and diagnostics data.

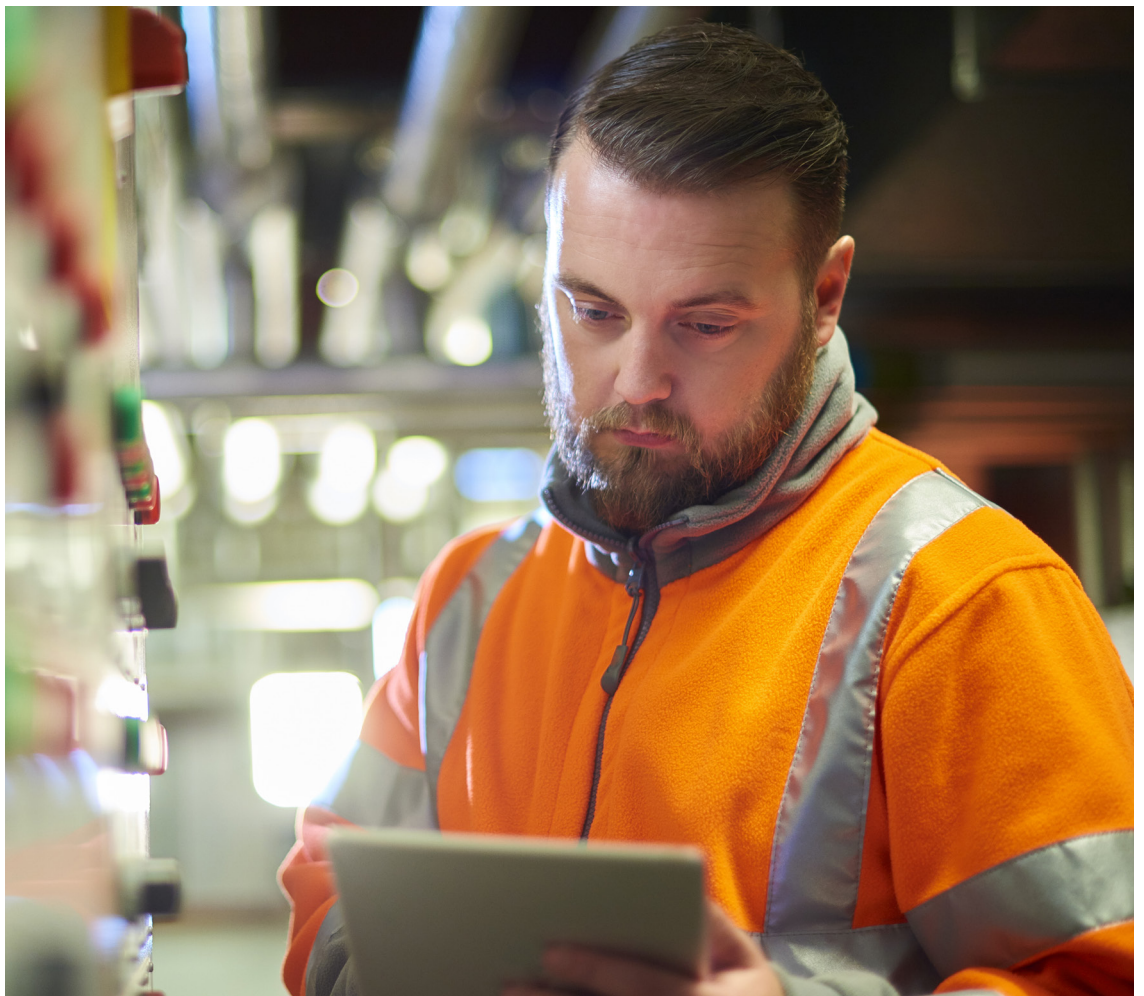
## **Built for engineering efficiency**

ABB Ability™ Field Information Manager is easy to use and built to make work efficient, with a zero-configuration approach and powerful device

configuration and diagnostic tooling. For instance, it provides online and offline datasets, device configuration comparison and bulk loop check functionality, including automatic loop check reports. FIM is fully integrated into ABB Ability™ DCS System 800xA and ABB Ability™ Symphony Plus.

## **Future-proof**

ABB Ability™ Field Information Manager is built to enable digital transformation for your fleet of field instrumentation by leveraging the latest field device technology, such as FDI, PROFINET including PA Profile 4.02, and OPC UA.



# Intuitive and flexible

With ABB Ability™ Field Information Manager, you get an intuitive, best-in-class field experience. The intuitive multi-user interface allows easy navigation and data interpretation, and you can choose from different views to organise the data in a simple, accessible menu. All field devices are handled with a harmonised look and feel, so it is easy to switch between them.

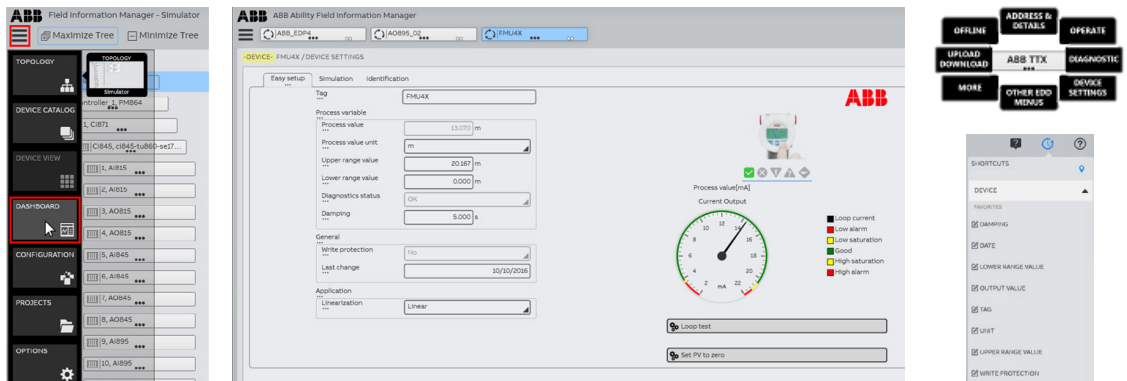
ABB Ability™ Field Information Manager can be installed on any Microsoft Windows device, including touch-based tablets. This means you also have full functionality when you need to work in the field, near the devices. As ABB Ability™ Field Information Manager supports online drivers' repositories, you always have the latest drivers for your field devices.

## Smooth navigation and data interpretation

It is easy to get started with ABB Ability™ Field Information Manager. The user interface works intuitively, as you expect, whether you use a tablet with touch navigation or a PC with a mouse and keyboard.

Device information is just a click away. Regardless of make and model, all devices are accessed the same way, with the same menu options. Tabs provide structure for the field device's data.

You can manage multiple devices by viewing them simultaneously and switching between them.



Easy and intuitive navigation through the menu overview and device views

Easy installation on Windows servers, workstations, and tablets.



Engineering station



Field Tablet



Cabinet Panel



Any Microsoft Windows 10 device

## Easy installation and quick startup

The ABB Ability™ Field Information Manager offers the installation flexibility you need. It can be used in engineering stations, on field tablets, on the back of cabinet panels or on maintenance workshop PCs.

The time from installation to field device access is usually less than three minutes. In that time, you have installed the software on a Windows server, workstation or tablet and scanned and identified the field device, so it is ready to be accessed.

**Use it standalone or integrated into ABB's DCS**

When used as a standalone solution, it accesses data from the field devices through a comprehensive variety of modems and gateways.

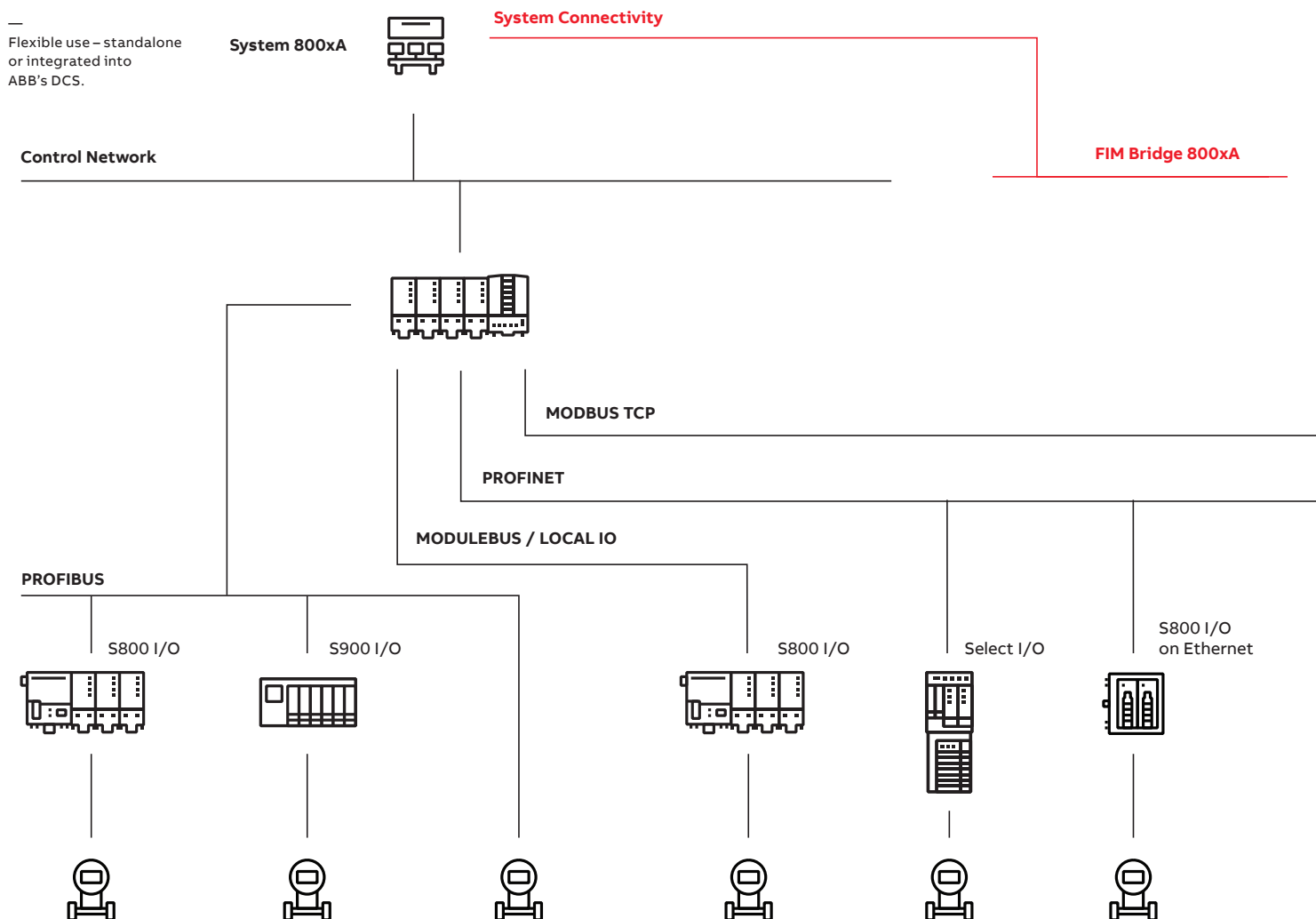
However, the ABB Ability™ Field Information Manager is even better together with the ABB Ability™ DCS. As the best possible device management system for Ability™ DCS, designed for efficiency in large systems, it enables advanced use cases such as automated loop checks. It also automatically retrieves the hardware topology, routes data through the ABB controller and interfaces with the field devices.

**Connect to driver repositories online**

Instead of traditional trial-and-error search of device drivers, ABB Ability™ Field Information Manager can connect to online drivers' repositories to find the right package easily.

**ABB Device Driver cloud**

The FIM tool automatically checks for updated matching drivers from the ABB Cloud repository, downloads them securely, and assigns them to the device.

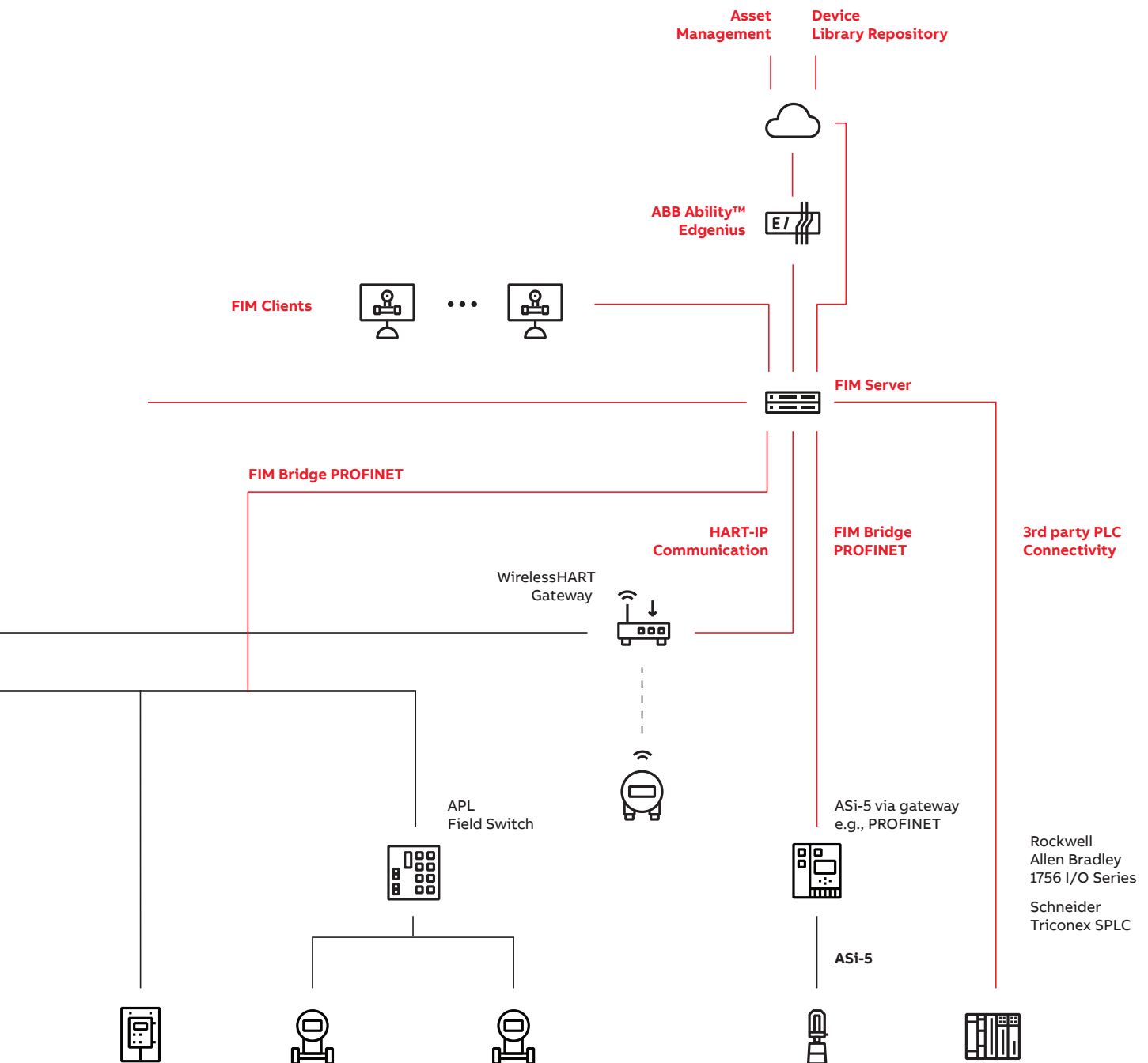


**FieldComm Group Device Driver cloud**

FIM finds the matching driver from the FieldComm Group cloud repository, downloads it securely and assigns it to the device automatically. You can quickly filter, sort and download the complete list of device drivers from the FieldComm group.

**Offline repository support**

You can also download device types in the DMZ environment and move them to production ABB Ability™ Field Information Manager. You then have your own on-premises controlled device catalogue available.



# Efficient

ABB Ability™ Field Information Manager is built to make work easier and more efficient during configuration and commissioning.

## Zero configuration

When ABB Ability™ Field Information Manager is installed on your system, it automatically uploads the topology from the underlying systems of all field devices installed in the field. It scans the devices, identifies them, and assigns an appropriate driver. After this configuration step, the whole hardware topology of field devices is accessible from the topology view in a single click.

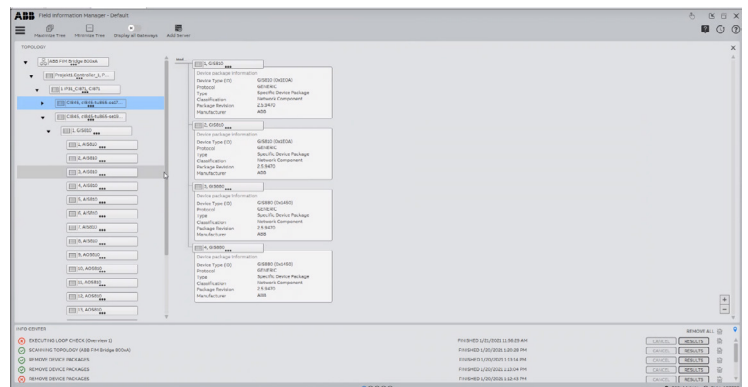
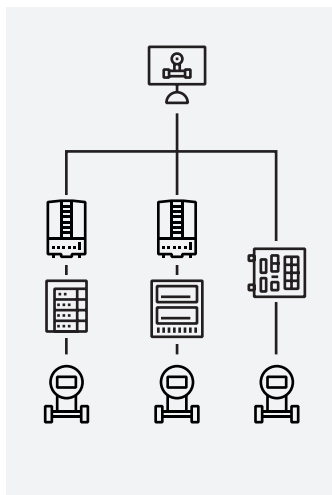
## Device configuration made easy

The intuitive workflow of ABB Ability™ Field Information Manager makes device configuration efficient and easy. It makes it possible to work

from a central location with full multi-user support and offers powerful CSV import and export features for bulk engineering tasks.

Templates with pre-configured parameters are also included for the initial configuration of field device types, and generic names can be assigned to parameters to streamline the parameter names across device types. A practical compare view lets you quickly visualise configuration differences between engineering and online devices, and a built-in audit trail can track all changes, which is helpful for regulated industries.

The whole topology is available in a live list, just a click away.



## Comprehensive device status dashboards

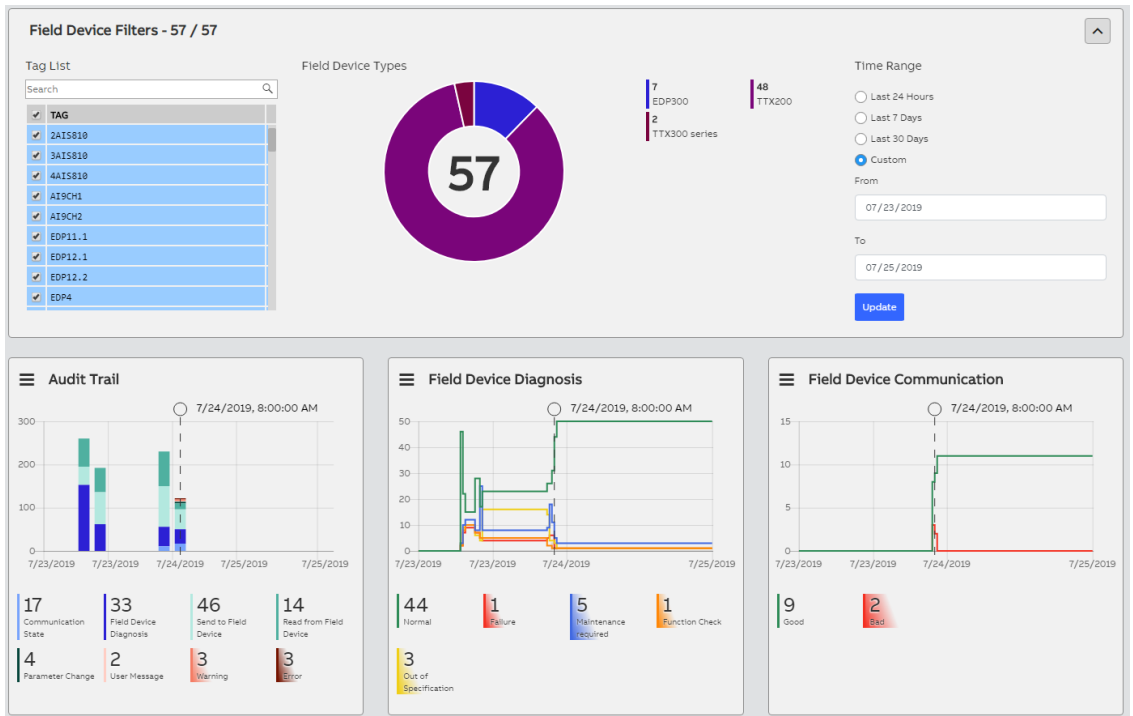
The comprehensive device status dashboards give a quick and accessible overview of the status of your fleet of field devices. For example, you can see changes in the device communication status and diagnostics according to NAMUR NE107 and follow the changes over time in detailed audit trails.

## Automated loop check

With the automated loop check functionality, you can reduce the time for device loop checks from hours to minutes. During commissioning, ABB Ability™ Field Information Manager can perform automatic, hands-free, multi-point smart sensor loop checks, testing and documentation. ABB Ability™ Field Information Manager also provides autogenerated loop and alarm check documentation for project management.



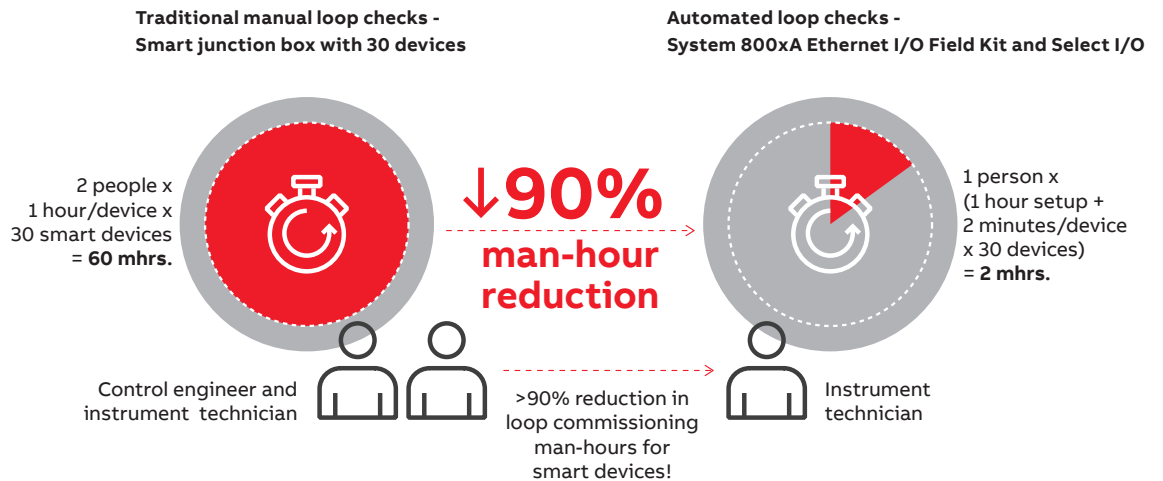
A quick and accessible overview of the status of your field devices.



**An easier procedure**

In the traditional manual way, a technician in the field with a handheld terminal worked with the control room to check one field device at a time. They performed their checks while continuously communicating and recorded the results manually.

ABB Ability™ Field Information Manager automated loop checks are done by one person in the field or the control room. These automatic checks are performed simultaneously for a few or tens of devices, and documentation is automatically generated, eliminating the risk of manual errors.



# Futureproof

With the ABB Ability™ Field Information Manager, you can rely on one software to handle your entire fleet of devices. You get support for the latest field device technology and your legacy devices to enable digital transformation for your entire fleet of field instrumentation.



### Ready for the future with FDI

ABB Ability™ Field Information Manager supports both EDDs and FDI packages. The FDI technology combines the simplicity of EDD and the information richness of DTM. It unifies device drivers, configuration tools, diagnostics and documentation with an independent and downloadable software package compatible with any FDI-registered host system. This means significantly simplified software installation and maintenance compared to FDT/DTM technology. ABB Ability™ Field Information Manager also supports FDI User Interface Plug-in (UIP) that enables graphic-rich features like DTM.



One software to handle both legacy and next-generation field devices.



### Ready for asset management solutions

With OPC UA Server connectivity on the ABB Ability™ Field Information Manager server node, you can get support for fleet and asset management solutions such as ABB Ability™ Edgenius Edge and ABB Ability™ Genix APM Predict. ABB Ability™ Field Information Manager OPC UA Server then acts as a gateway between all field devices and the asset models.

The Process Automation Device Information Model (PA-DIM) can be applied on this OPC UA interface to further streamline the interface being used for the data streaming via ABB Ability™ Edgenius Edge to cloud.

This solution opens for seamless sensor configuration and diagnostic data, which enables other digital opportunities: condition monitoring, remote service, remote verification, fleet reporting, analysis of sensor/actuator diagnostics, etc.

**HART**  
COMMUNICATION PROTOCOL

**HART-IP**

**WirelessHART**

**PROFI**  
**BUS**

**PROFI**  
**NET**

**ASi**

**ABB** Field Information Manager - Default

[-SV430FD] ...

-DEVICE: FSV430FD / DEVICE SETTINGS

Easy Setup Detailed Setup Simulation Identification

Easy Setup

Long Tag 34A322 ABB F5x400(0x1AA3)

Language English

Process Mode Liquid Volume

DO Function Frequency

Lower Frequency 0.25 Hz

Upper Frequency 10500.00 Hz

Unit Qv m<sup>3</sup>/h

Unit Density kg/m<sup>3</sup>

Unit Temperature degC

Unit Pressure mbar

ABB

Loop current 0.288 mA

DEVICES SETTINGS DEVICE SETUP

SEND UNDO CLOSE

INFO CENTER

Activities Notifications Reminders REMOVE ALL

SCANNING TOPOLOGY (ABB FIM Bridge 800xA/System/Contr... FINISHED 12/6/2023 2:42:19 PM

SCANNING TOPOLOGY (ABB FIM Bridge 800xA/System/Contr... FINISHED 12/6/2023 2:41:43 PM

SCANNING TOPOLOGY (ABB FIM Bridge 800xA/System/Contr... FINISHED 12/6/2023 2:36:58 PM

CANCEL RESULTS

CANCEL RESULTS

CANCEL RESULTS

COMMON NAMES

NAMESPAC

PA-DIM

DEVICE

(0 / 230)

ActualDensitySignalType (0/14)

ActualVolumeFlowRateSignalType

AnalogSignalType (0/14)

AnalyticalMeasurementSignalType

CheckFunctionAlarmType (0/2)

ControlSignalType (0/17)

DiscreteSignalType (0/7)

FailureAlarmType (0/2)

FlowMeasurementSignalType (0/

LevelMeasurementSignalType (0/

MaintenanceRequiredAlarmType

MassFlowRateSignalType (0/16)

MultiStateDiscreteSignalType (0/

NormalizedVolumeFlowRateSign

OffSpecAlarmType (0/2)

PADIMType (0/14)

PressureMeasurementSignalType

TemperatureMeasurementSignal

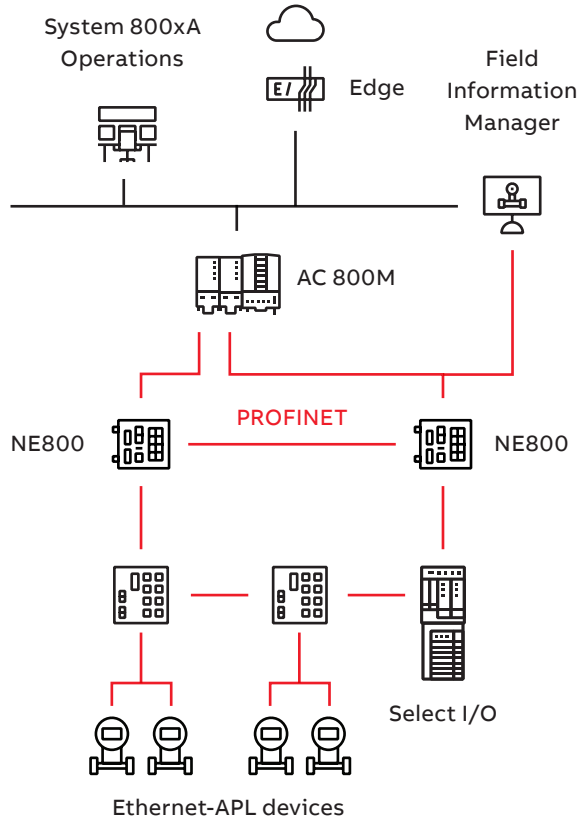
Totallizer SignalType (0/16)

TwoStateDiscreteSignalType (0/

NIMFA/SFC10HR FIM ACCESS

Field Information Manager - FSV400 FDI device settings example





Typical System 800xA® configuration with APL devices and remote I/O connected over PROFINET

**Ready for Ethernet-APL**

ABB Ability™ Field Information Manager is ready for the new Ethernet-APL devices entering the market. Leveraging the FIM Bridge PROFINET, a direct bridge to the PROFINET network is established.

FIM can then use advanced features to scan and auto-detect and assign device packages to the connected Ethernet-APL devices. This direct connection separates the mission-critical control system from the device management tool in accordance with the NAMUR Open Architecture (NOA) model.

Ethernet-APL devices are integrated via FDI packages or the latest PA Profile 4.02 device package. The latter is used where plant owners want to benefit from field device interoperability. Ethernet-APL field switches are also integrated into FIM, allowing configuration following the same workflow and tooling as the Ethernet-APL devices configuration.

The high data throughput provided by Ethernet-APL enables asset management applications for maintenance, health, and performance monitoring across the fleet of field instruments.



---

# Summary

**The ABB Ability™ Field Information Manager offers an intuitive, best-in-class field experience. Smart functions and automated processes make device management work more time- and resource-efficient.**

**The ABB Ability™ Field Information Manager is an innovative Field device management solution that is easy to use, built for engineering efficiency, and ready to take your field device management into the future.**





---

[abb.com/fieldinfo](http://abb.com/fieldinfo)

---

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG.

Copyright© 2024 ABB  
All rights reserved