MEASUREMENT & ANALYTICS

ABB Ability™ Smart Device Manager 2.1

Device management made easy

Introducing ABB Ability™ Smart Device Manager 2.1

Safety & house keeping

No matter where you are, please:

- Be aware of your surroundings
- Know the local emergency procedures
- Understand the escape routes
- Do not delay exiting the area
- Help visitors and people with special needs to exit safely
- Meet at a designated muster point to be accounted for

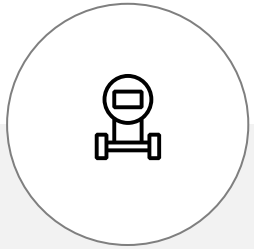
If driving, please follow local country rules for safe operation of a motor vehicle:

- Where allowed, participate hands-free
- If you need to hang up, please note we will be recording and distributing the webinar after the series has been completed
- Webinar recording will also be published on myLearning

Agenda

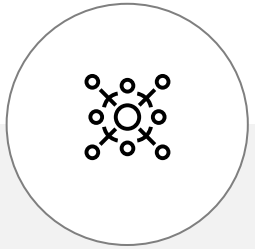
→ Field Device Management
→ Introduction to SDM2.1
→ SDM Journey
→ Technical Insights
→ Value proposition
→ Key Benefits
→ Offering & Ordering tool
→ Contact

Field Device Management
Challenges



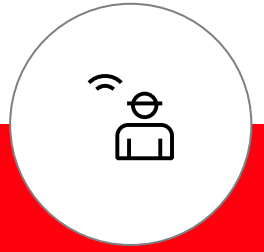
Smarter Devices means more connected devices hence more data

How can I visualize and interact with the data easily? How to transform the data in knowledge to reduce operational and maintenance costs?



How to drastically reduce the efforts for device commissioning

How to reduce errors and efforts when configuring devices ? How to support automated configuration of these smart devices ? How to configure these efficiently ?



Mobile workforce means more software flexibility

How can a single software support different needs of different field users ? How to ensure compatibility to any hardware of field devices.

Large installed base of legacy devices calls for standardization

How to ensure compatibility of legacy devices and new devices? How to embrace new FDI standard and unleash its potential?

ABB Ability™ Smart Device Manager 2.1
Customer’s key requirement

- **USABILITY!** No guideline, no training, just device management.
- Request data access to the wealth of data from intelligent devices.
- Request to integrate a bunch of vendors and devices in one application.
- Request a tool replacing application specific handheld terminals.
- Need to exchange these data platform independently.
- Need to manage devices of the newest generation – based on FDI device packages - as well as the installed base – based on EDD.
- Need to manage locally on the device, in the control cabinet and in the workshop.
- Need to drastically reduce the efforts for device commissioning.
- Need standardization of Large installed base of legacy devices

ABB Ability™ Smart Device Manager 2.1

Introduction

ABB Ability™ Smart Device Manager 2.1

The ABB Ability™ Smart Device Manager is the next generation Handheld Configurator with FDI based device management and is equipped with high-performance rugged tablet with innovative graphical user interface that helps field engineers to effectively work with the process instrumentation.

SMART DEVICE MANAGER

Intuitive

Functional design for the best-in-class field experience

Efficient

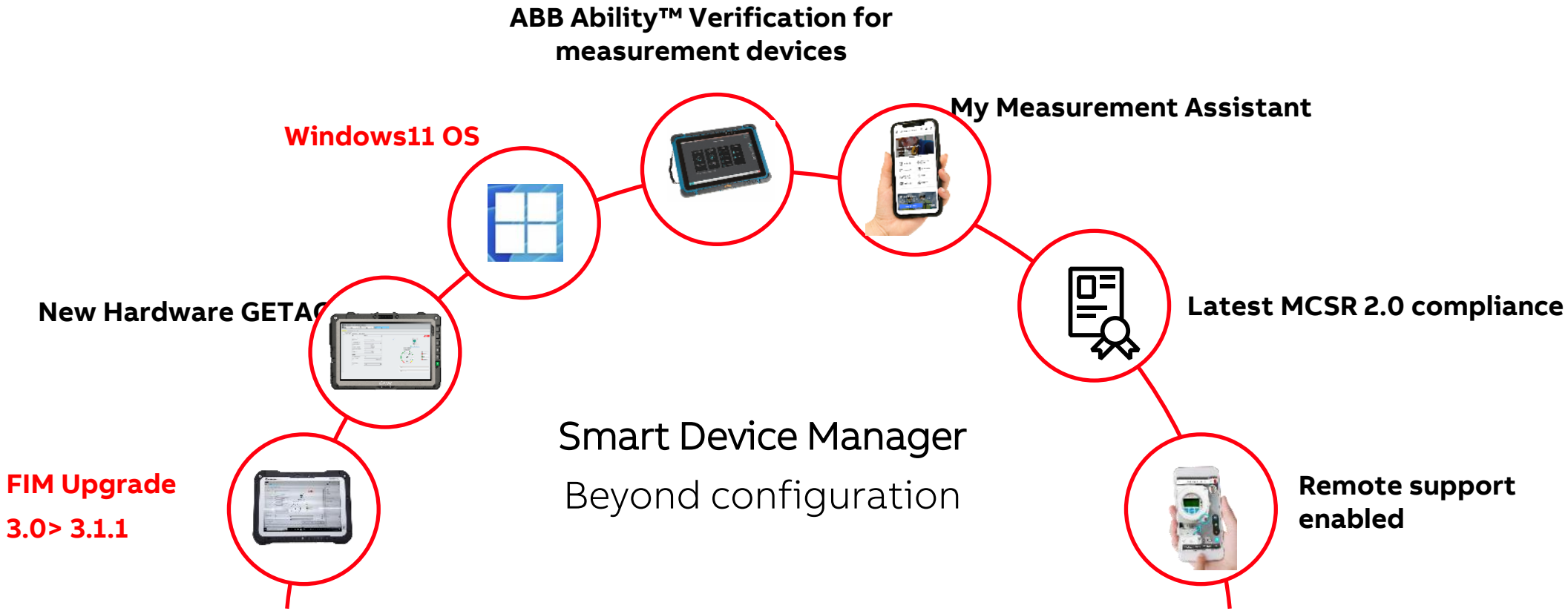
Built for engineering efficiency

Futureproof

Supporting latest field device technology

ABB Ability™ Smart Device Manager 2.1

What's new?



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Fully Rugged Next Generation Tablets for best-in-class field experience

General Purpose Handheld Configurator – STANDARD

- Fully Rugged Tablet 10.1inch FHD Lumibond ® display with Getac sunlight readable technology (1,000 nits) and capacitive touchscreen
- 10.1" Wide Viewing Angle TFT LCD WUXGA (1920 x 1200) Protection film
- Quad-Core processor for rough environments Rugged body with 6ft (1.8m) drop resistant.
- Windows 10 and above operating systems
- Versatile I/Os connectivity including Thunderbolt™ 4
- Up to 6-8 hours battery life with user replaceable battery

General Purpose Handheld Configurator - PREMIUM

- Rugged Tablet 10.1inch WUXGA 1920 x 1200 LED-backlit screen with 10-point capacitive multi-touch + digitiser electronic stylus pen; anti-reflective and anti- glare screen treatments
- Engineered to withstand drips, drops, dust and grime TOUGHBOOK® computers thrive and survive in the hardest of environments
- Windows 10 and above operating systems
- Semi-rugged body with multiple 1.2 m drops to concrete and IP65 sealing providing protection from dust and water splashes
- Up to 6-8 hours battery life with user replaceable battery

ABB Ability™ Smart Device Manager 2.1

Functional design for the best-in-class field experience

Intuitive user interface for easy navigation and data interpretation

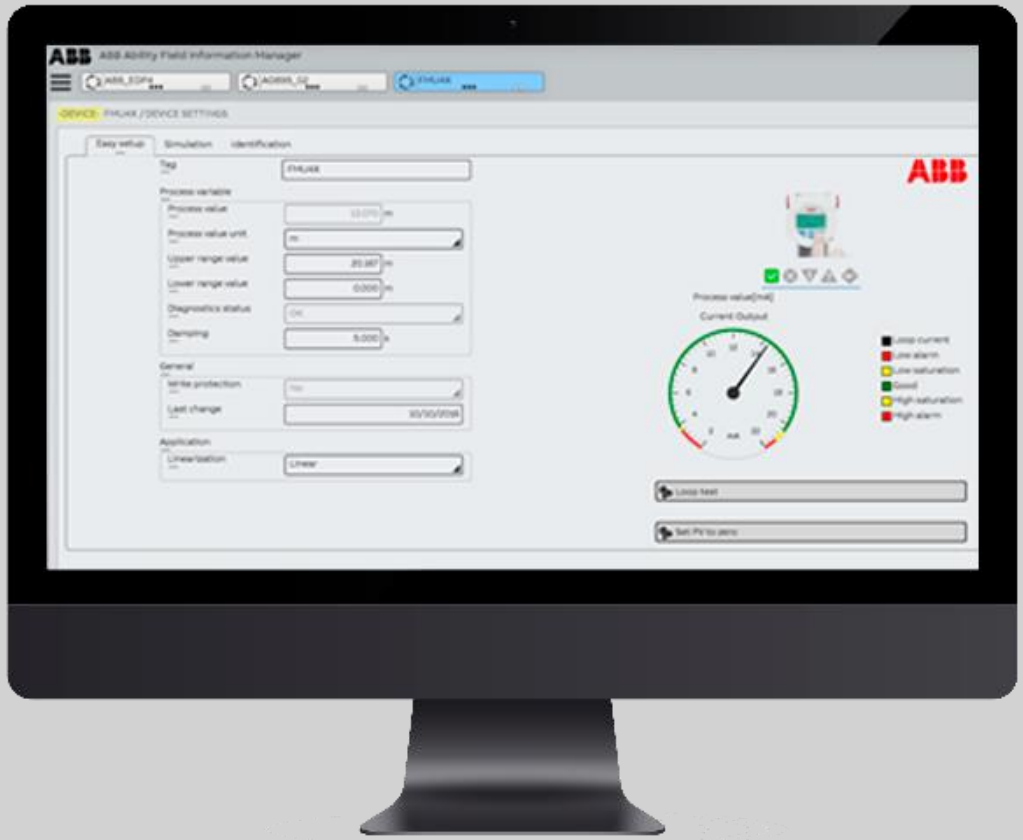
- Same look and feel - The Device menu options can be accessed always in the same way, irrespective of the device make & model
- Native touch navigation or normal PC navigation (mouse, keyboard)
- The UI supports multiple device views allowing the user to switch the view of the devices in a simple manner and manage multiple devices in a more efficient manner

Flexible and simple architecture

- STANDARD or PREMIUM editions - use it as you prefer
- Quick to start – installs on Windows tablets and workstations, scans, identifies & enables access to device within 3 mins

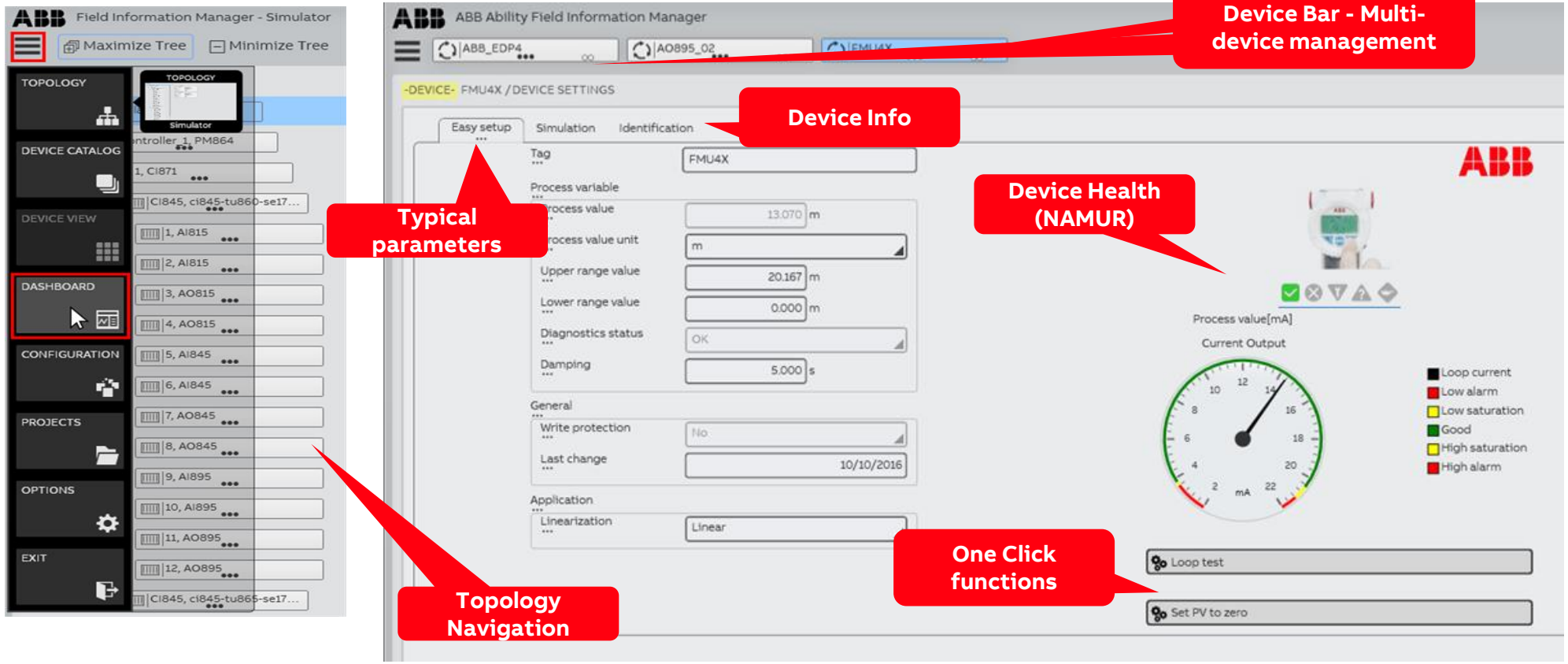
Connects to Online drivers repository – eliminates the trial & error search of Device drivers

- ABB Device Driver cloud
- FieldComm Group Device Driver cloud
- Offline repository support



Functional design for the best-in-class field experience

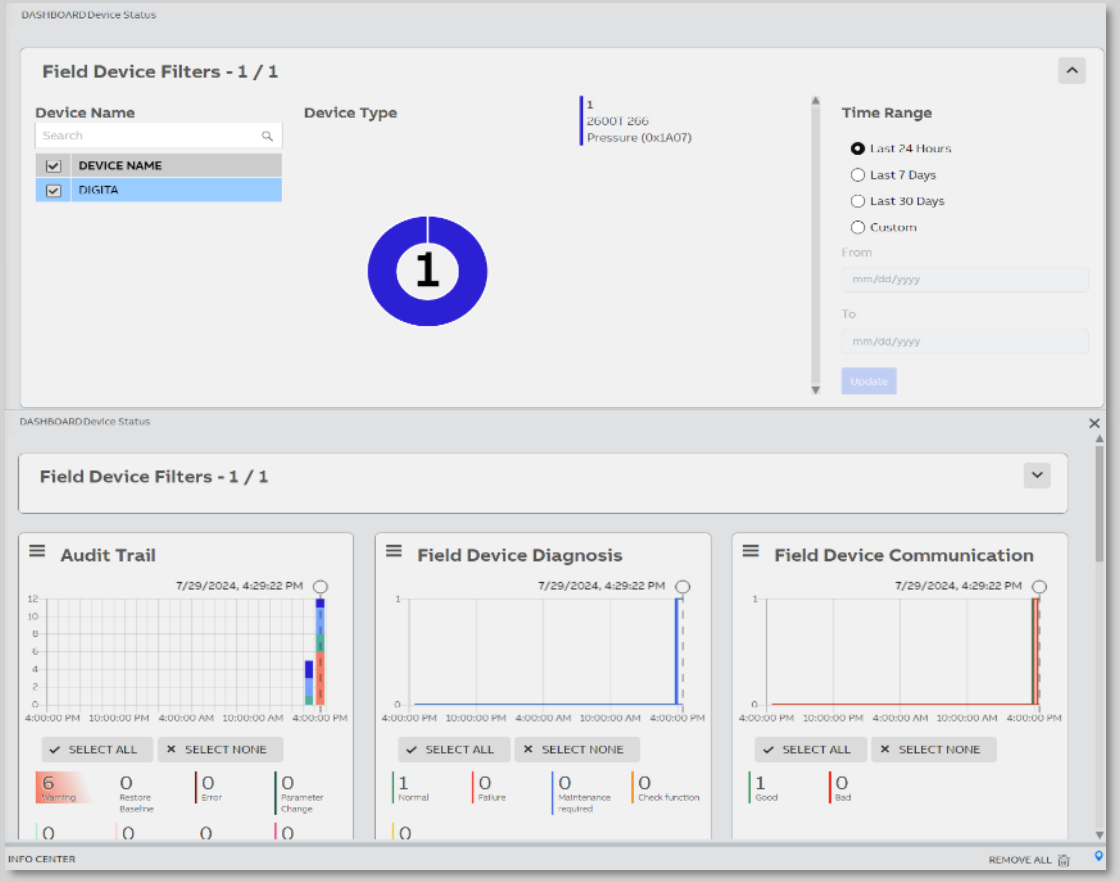
Intuitive user interface for easy navigation and data interpretation



Functional design for the best-in-class field experience
Comprehensive device status dashboards

FIM provides comprehensive device status dashboards covering:

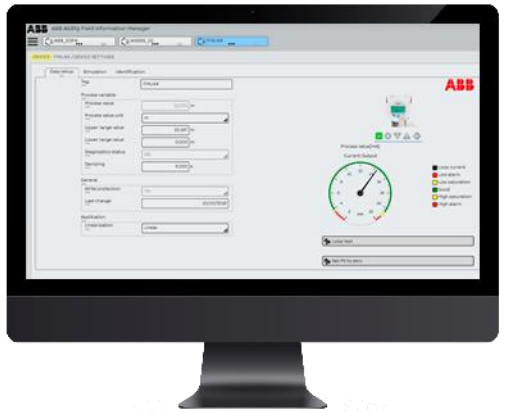
- Change in device communication state
- Change in device diagnostics according to NAMUR NE107
- Detailed Audit Trail showing device status and events over time including:
  - Download of device dataset
  - Upload of device dataset
  - Modified device parameter through online menus
  - User message



Functional design for the best-in-class field experience

Flexible and simple architecture

INSTALL WHERE NEEDED



ENGINEERING STATION

FIELD TABLET

CABINET PANEL

ANY MICROSOFT WINDOWS 10 DEVICE

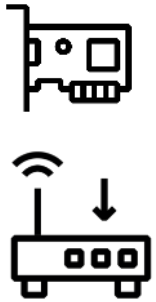
installs on Windows tablets and workstations, scans, identifies & enables access to device within 3 mins

Functional design for the best-in-class field experience

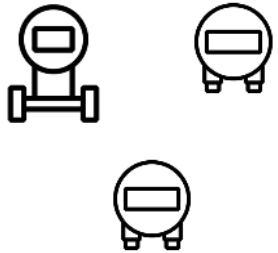
Standalone or Hand-held - use it as you prefer

STANDALONE

Manager 2.0 Standalone



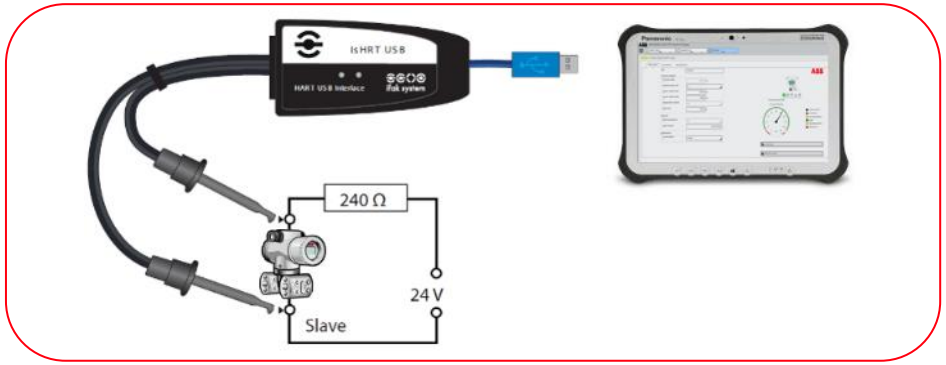
Modems and Gateways

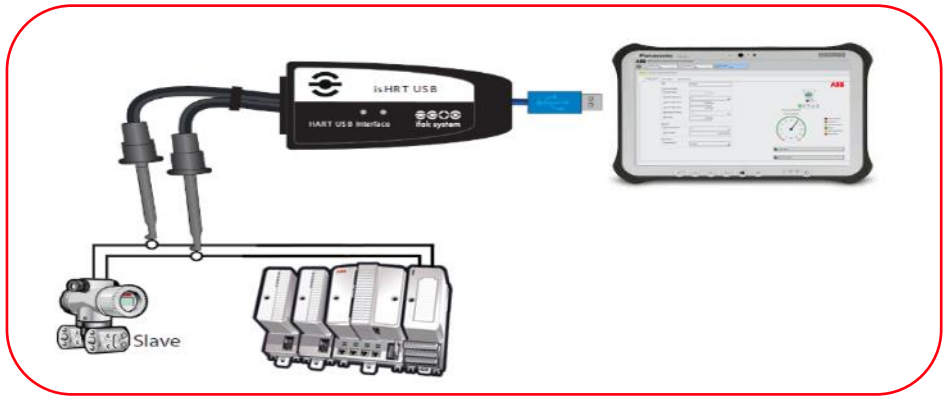


Field Devices

Smart Device Manager 2.0 as standalone may access the data of the field devices through different Modems and Gateways.

HAND-HELD





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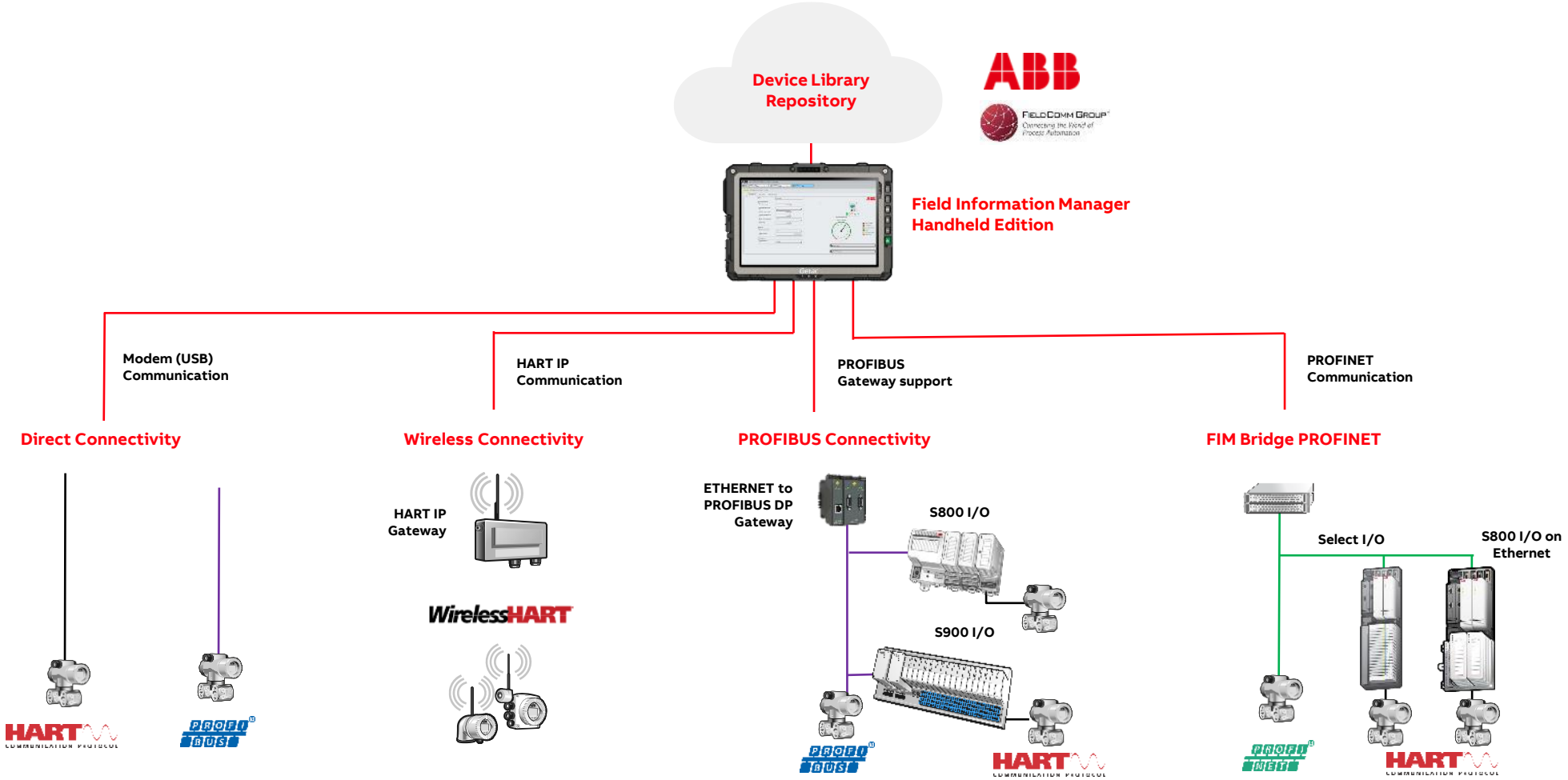
Standalone – Direct connectivity to Field – FIM on Windows Tablet



Functional design for the best-in-class field experience
Connects to online drivers' repository

ABB DEVICE DRIVER CLOUD

Smart Device Manager 2.0 finds the matching driver from the ABB Cloud repository, downloading it securely and assigns it to the device automatically.

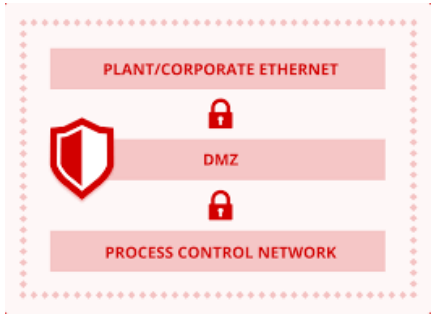
FIELDCOMM GROUP DEVICE DRIVER CLOUD

Smart Device Manager 2.0 finds the matching driver from the FieldComm Group cloud repository, downloads it securely and assigns it to the device automatically.

OFFLINE REPOSITORY

Device Types can be downloaded in DMZ environment & moved to production Smart Device Manager 2.0

- Allows to have own on-premise controlled device catalog.



Smart Device Manager 2.0 provides updated drivers on-demand

Supporting latest field device technology
Wide range of Field protocols support

Smart Device Manager 2.0 supports many different fieldbus protocols

Support for HART 5, HART 6 and HART 7 devices

Support for Profibus DP/PA devices

Support for Profinet devices

Support for OPC UA Field devices – At additional cost

ABB Ability™ Smart Device Manager 2.1
Value propositions

INTUITIVE
Functional design for the best-in-class field experience

- **Intuitive user interface** for easy navigation and data interpretation
- **It can be used in an Engineering station, in the Field, back of the panel or in maintenance workshop**
- 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**

EFFICIENT
Built for engineering efficiency

- Compare instrument configuration to various sources of project data for early detection and correction of errors
- Individual and **bulk handling of dataset of smart field devices.**

FUTUREPROOF
Supporting latest field device technology

- **Leverages FDI technology**, which combines the simplicity of EDD and information richness of DTM
- supports wide range of field protocols as **Profibus, HART, HART IP, Profinet and OPC UA**
- supports both **legacy DDs and new FDI packages**; i.e., one tool for existing and new devices
- **Fleet monitoring solution** for all Field instruments in the plant.

ONE DEVICE
Supports ABB Digital Instrumentation Solutions

- Beyond configuration
- Multipurpose Windows hardware
- Latest Windows OS support
- ABB Ability SRV500 Verification Tools
- ABB Ability My Measurement Assistance
- Cyber secured – meets latest ABB‘s Minimum Cyber Security Requirements.
- Remote Support

- Independent of customer IS Policies & IT support
- Ease of User access controls

ABB Ability™ Smart Device Manager 2.1
Key Benefits

- It is the 1st FDI-based host in the market fully embracing the FDI Common Host Components.
- Works with latest windows OS, meeting all windows security requirements.
- initiates a paradigm change for configuration and parametrization of Fieldbus devices.
- employs innovative & far superior ease of use features, user-friendliness & exceptional navigation features.
- makes configuration, commissioning, diagnostics and maintenance of field instrumentation faster and easier than ever before.
- scans, identifies and enables access to the device within 3 minutes.
- enables online and offline parametrization, documentation of parameters and settings and creation of standardized templates.
- Universal configurator for all ABB/non-ABB field devices including legacy support.

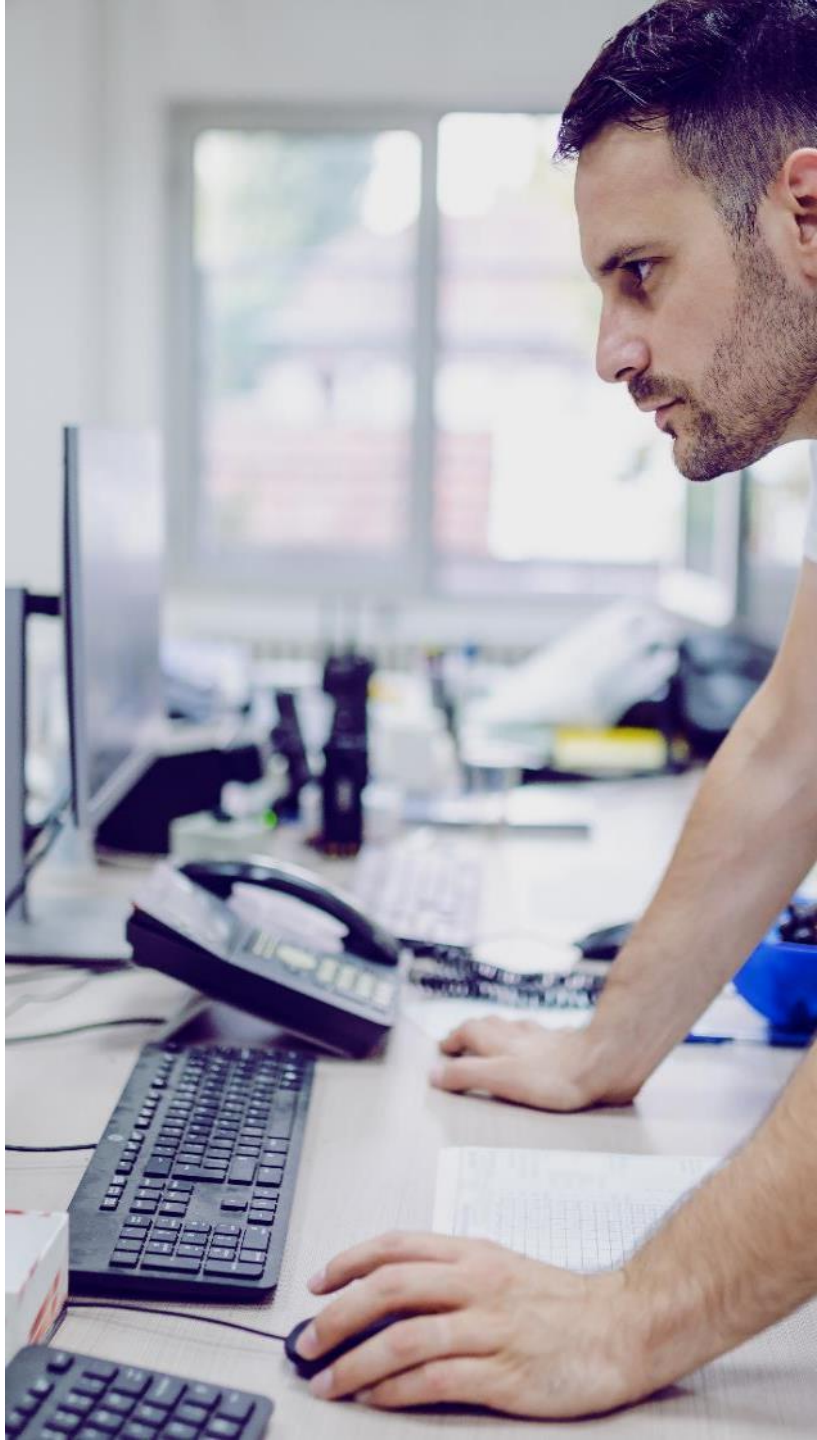
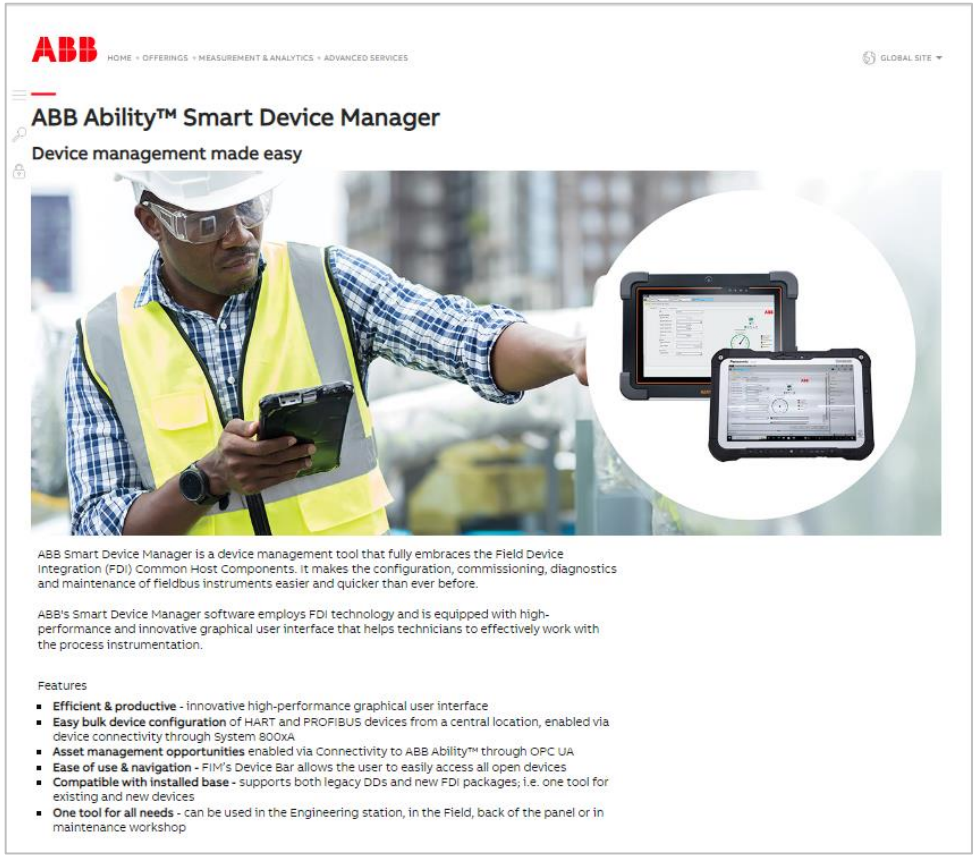


ABB Ability™ Smart Device Manager 2.1
Contact

[ABB.com Smart Device Manager 2.1 WEBPAGE]



[INSIDE+ Smart Device Manager 2.1 WEBPAGE]

ABB Ability™ Smart Device Manager 2.1
Learning

E-LEARNING

ABB ABILITY™ FIELD INFORMATION MANAGER – GETTING STARTED

11%
In Progress

In this course you will learn all you need to start using Field Information Manager (FIM), the innovative tool for easy, intuitive and efficient field devices management, built around the real customer needs.

CURRICULUM CODE:9TPC002613 VERSION NUMBER:1
MODULES : **1** | COURSES: REQUIRED - **9** | OPTIONAL - **0**

CANCEL ENROLLMENT SHARE BOOKMARK

Language	:	English
Assessment	:	None
Survey	:	None
Duration	:	Not Available
Provider	:	IN-IAPCP.Training@abb.com
Contact Support	:	Not Available

SWITCH TO TREE VIEW

1 MODULE(S)

MODULE 1

1 . FIM - INTRODUCTION
Required | Completed

2 . FIM - GETTING STARTED
Required | Yet To Start

3 . FIM-CONNECTIVITIES
Required | Yet To Start

4 . FIM-WORKING WITH DEVICES
Required | Yet To Start

FIM - INTRODUCTION

Learn everything about available documentation, download of the software and first steps in the tool. Enjoy the overview regarding navigation in FIM, device handling and all available views and functions.

100%
Completed

WEB-BASED

Class Code	: 9CSC019703-GLB-EN
Language	: English
Provider	: IN-IAPCP.Training@abb.com
Enrolled by	: Self
Enrolled on	: Nov 23, 2022
Completed By	: Self

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