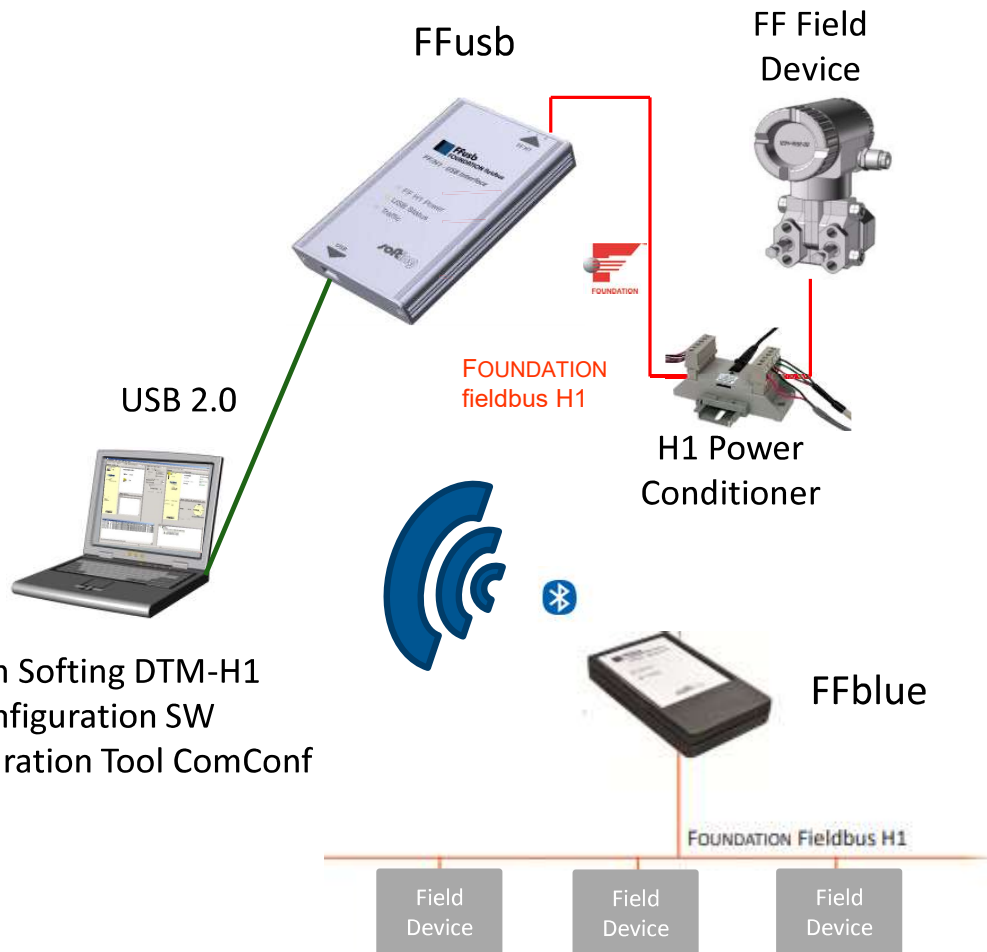


mobiLink – Enhancement of Existing Products



FDT Frame with Softing DTM-H1
 Proprietary Configuration SW
 Softing Configuration Tool ComConf



HART und FF DTMs (later PA DTM)
 Softing Configuration Tool ComConf (FF)

mobiLink – About FDT / DTM

FDT

- **Field Device Tool:** communication interface technology that enables communication between on-site field devices such as pressure sensors or flow meters and a control system, regardless of the communication protocol or the vendor of the field devices (Cross-platform basis)

DTM

- **Device Type Manager:** driver software that is created by the control system vendors and field device vendors for their own products based on this FDT technology
 - Users can easily connect control systems and sensors from different vendors to build an optimal plant control.

➔ Reduce the Workload in order to make engineering easier in terms of commissioning, diagnosis and maintenance.

Please note:

DD (Device Description) based tools use a different technology. For example:

- PDM (Siemens)
- AMS (Emerson)

➔ Cannot be used with mobiLink directly.

mobiLink – Configuration SW? Field Devices?



Softing Configuration Tool ComConf
FDT Frame with Softing DTM



Field Devices



ComConf (FF Configurator) (optional license required)

FDT / DTM based tools

- FieldCare (E+H)
- FieldMate (Yokogawa)
- Asset Vision (ABB)
- PACTware (freeware)
- Field Device Manager (Honeywell)
- Fisher FIELDVUE ValveLink (Emerson)

→ **Can be used with mobiLink directly. The customer only needs our mobiLink CommDTM.**

→ **Live demo with PACTware at the end of the webinar.**

Transmitters

- Density, Flow, Level, Pressure, Temperature

Valves

List of Suppliers:

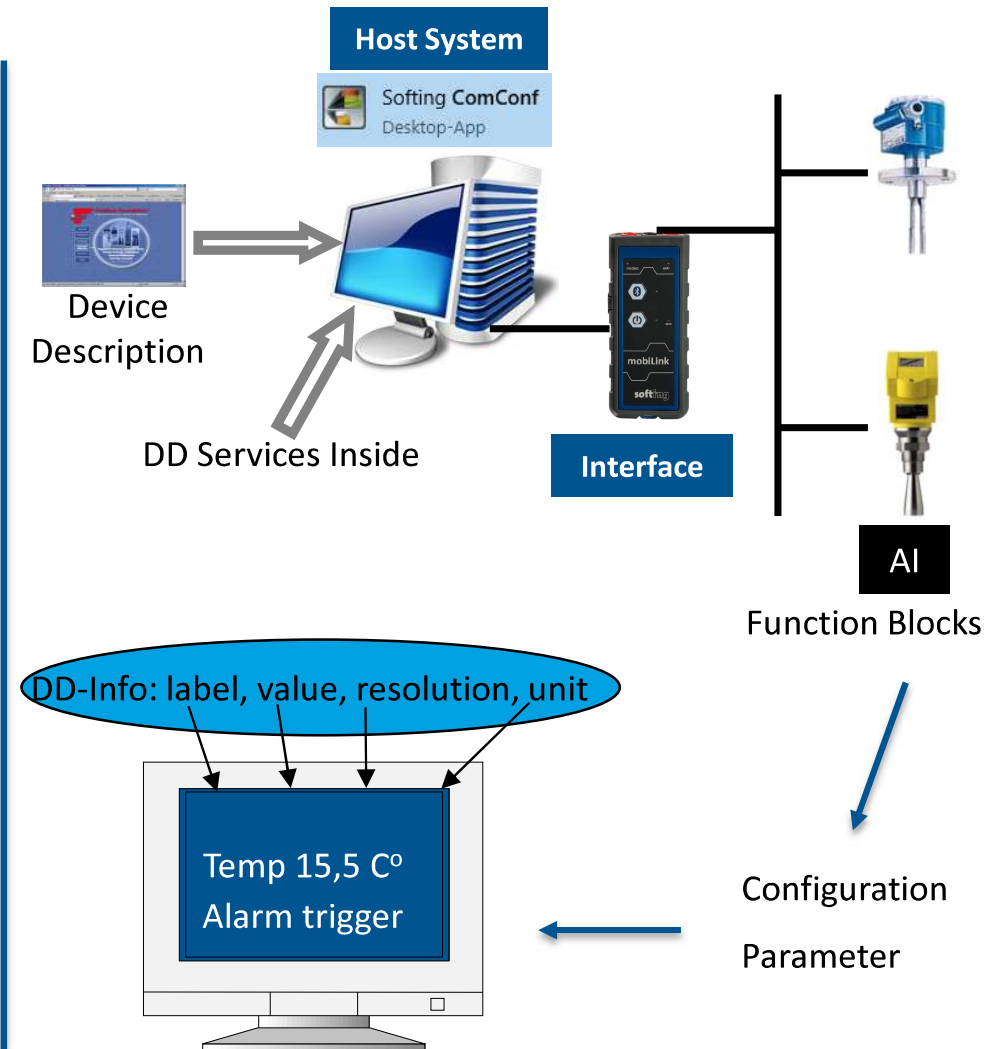
- FOUNDATION fieldbus:
http://www.fieldbus.org/index.php?option=com_mtree&Itemid=324
- HART:
<http://www.hartcommproduct.com/inventory2/index.php?action=listcat&search=search...&tec=&cat=7&mem=&x=11&y=12>
- PROFIBUS PA:
https://www.profibus.com/products/product-finder/?tx_solr%5Bfilter%5D%5B0%5D=technology%3APA+Devices

Foundation Fieldbus-H1: Technical Background

FF-H1 Characteristics

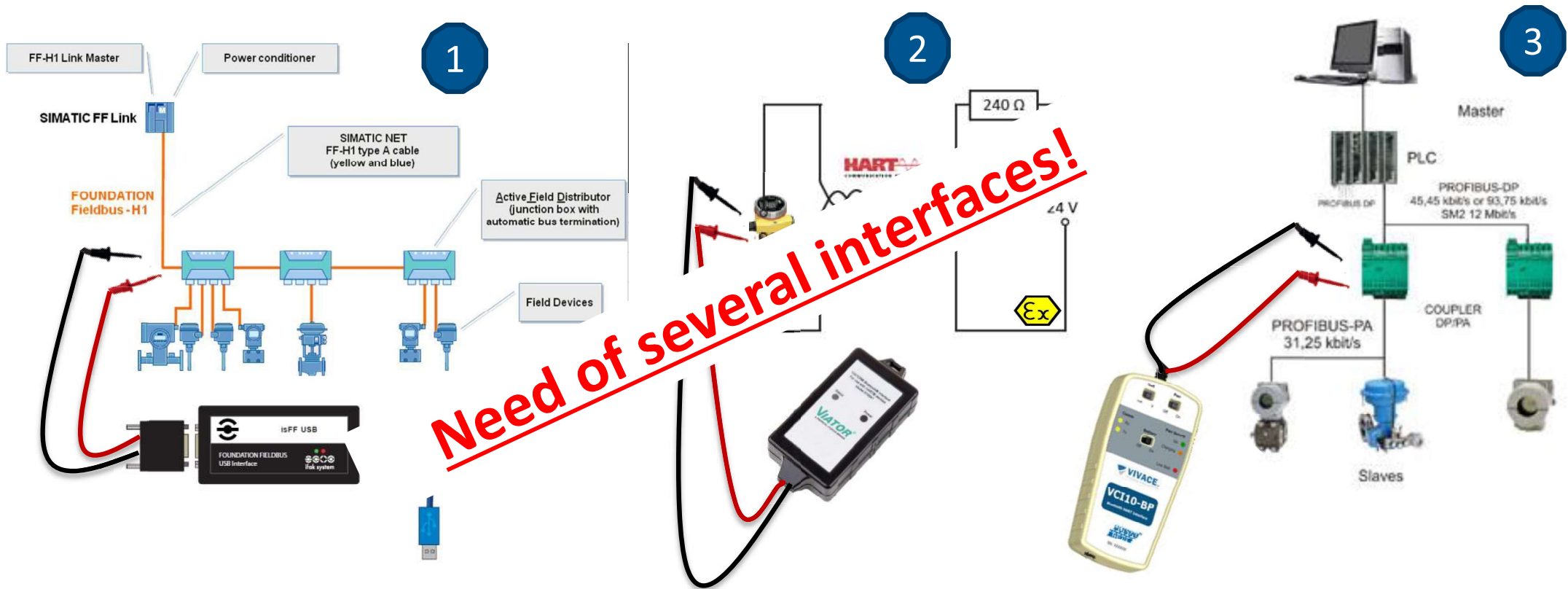
- The specification supports bus-powered field devices as well as applications in hazardous areas
- Fieldbus technology replaces the conventional 4 to 20 mA wiring in the field and enables bidirectional data transmission
 - A fieldbus is a digital, two-way, multi-drop communication link among intelligent field devices and automation systems.
- Physical Layer
 - IEC 61158-2
 - Baudrate: 31.25 kBit/s
 - Intrinsic safe operation supported (i.s.)
 - Power distribution over network supported (b.p.)
 - Max. Segment length: 1900m (cable type A)
 - Voltage modulation, Manchester encoding
 - Up to 16 end devices in non-Ex, 6 to 10 in Ex area

<https://fieldcommgroup.sharefile.com/home/shared>



Challenge / Application

“Imagine a site where several PA protocols have been implemented. For Maintenance /Diagnose purposes, a technician must access to field devices. One of the prerequisite is doing the job as fast as they can!”



mobiLink – Mobile Interface for Field Devices: Product Features

Applications

- Pre-commissioning, diagnose, maintenance, condition monitoring, parametrization and configuration

Single interface for the major Process Automation protocols:

- HART Master
- FOUNDATION fieldbus H1 Host
- PROFIBUS PA Master (Q3 2018)

Communication via Bluetooth or USB

- Perfectly suited for handheld host devices due to battery powered Bluetooth operation

Support of FDT Frame Applications and major Engineering Tools

- PACTware FDT Frame Application and HART Communication DTM included
- Communication DTMs for FOUNDATION fieldbus and PROFIBUS PA (optional)
- FOUNDATION fieldbus configuration tool ComConf (optional)

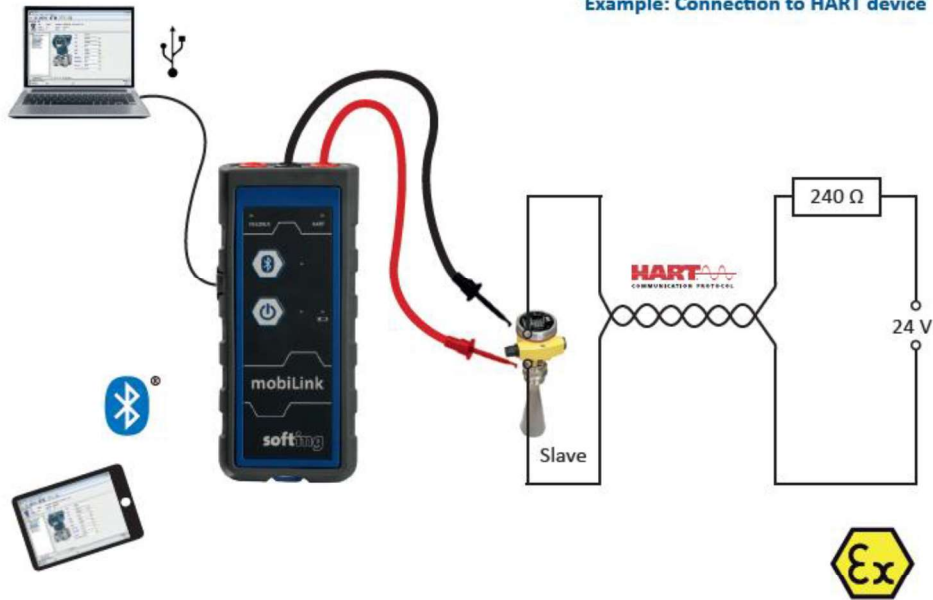
Approved for use in hazardous areas

- Ex approval for Zone 1 and Zone 2
- Suitable for connection to intrinsically safe circuits
- Suited for harsh environment (IP 54)

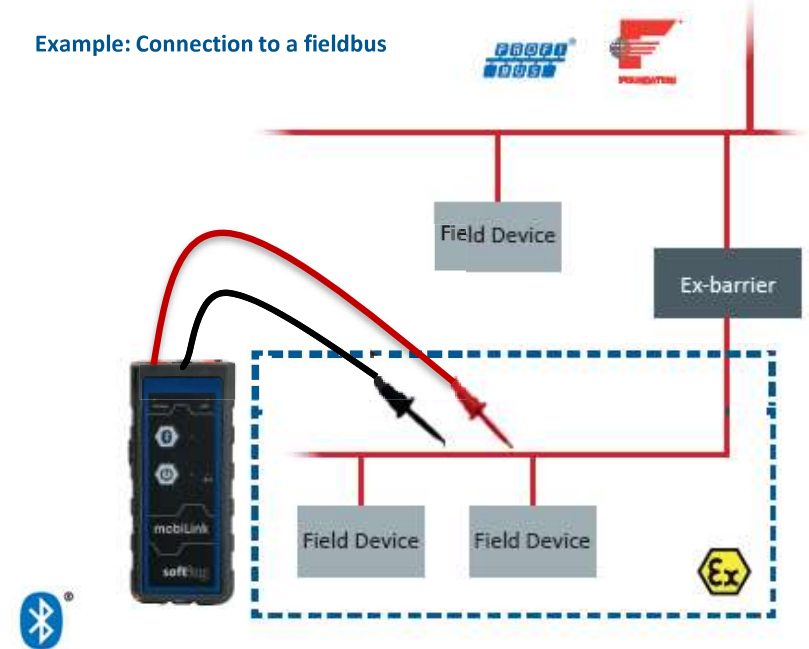


mobiLink – Use Cases

Example: Connection to HART device



Example: Connection to a fieldbus



PAD-EX® 01 DZ2



PAD-EX® 01 D2



With Windows 10 tablets / phones