



Integration Technology for Process Automation



ONE Device
ONE Package
ALL Tools

connect ANY
automation
protocol

rest
assured
it's SECURE

FDI
Package
Repository

CLOUD to
instrument
connectivity

configure
all devices
OFFLINE

HART
COMMUNICATION PROTOCOL



product
REGISTRY



FDI



FDI
products



FIELD COMM GROUP™
*Connecting the World of
Process Automation*

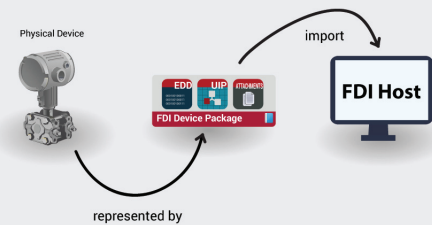
ask4FDI.com

ASK 4 FDI

WHY ASK FOR FDI?

FDI solves the problem of integrating field devices with the multitude of networks, operating systems, and control systems used in the process industries.

It has been developed and is supported by the automation industry's leading technology foundations and suppliers to address these needs.



FDI brings standardization to the packaging and distribution of all the software and tools necessary to integrate a device with a host system.

FDI combines the advantages of FDT™ with those of EDDL into a single scalable solution and provides benefits for users, field instrument device suppliers, control system manufacturers, and host system developers.

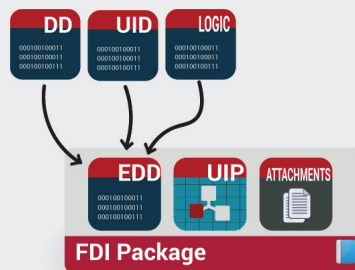
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ONE Device ONE Package ALL Tools

THE SIGNATURE SLOGAN OF FDI - WHAT DOES IT MEAN?

FDI standardizes the packaging and distribution of software and tools. Host systems need only one FDI Device Package per device type per protocol to successfully integrate each device.



A physical device is virtualized in software as an FDI Device Package. An FDI Device Package is a single file (*.fdix) which contains all the device information including device definitions, user interface plugins, certificates, device manuals and other components that are essential for managing the field device in the plant.

Therefore, "ONE Device - ONE Package - ALL Tools".

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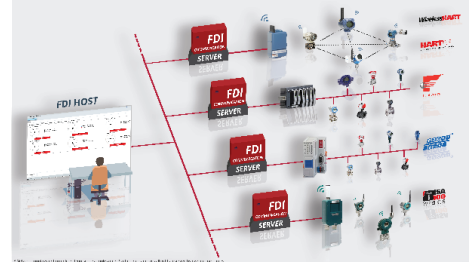
connect ANY automation protocol

IS FDI A NEW PROTOCOL?

No! FDI is an integration technology. Specifically, it is a feature of a host system (an asset manager, configuration tool, DCS, etc.) that brings standardization to device installation and configuration.

DOES FDI SUPPORT HART AND OTHER PROTOCOLS?

Yes! FDI includes native support for HART, WirelessHART, FOUNDATION Fieldbus, PROFIBUS, PROFINET and ISA100 Wireless.



Other protocols, like HART-IP, EtherNet/IP, Modbus TCP, and practically any proprietary protocol can work with an FDI host through a specialized software module called a Communication Server.

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rest assured it's SECURE

STATE-OF-THE-ART SECURITY


FDI technology deploys state-of-the-art security measures to mitigate possible threat vectors in the process industry.

An FDI Device Package is a sophisticated and standardized container with all the components required to describe a field device. There are two digital signatures applied to each FDI Device Package to ensure its authenticity and integrity - one by the manufacturer and the other by FieldComm Group.

- 1

CREATE


An FDI Package Originator creates an FDI Device Package as per the FDI specification.



FDI Package Originator
- 2

REGISTER


FDI Registration Authority issues the FDI registration certificate after successful conformance tests.



FDI Registration Authority
- 3

DIGITAL SIGNATURE


FDI Package Originator again digitally signs the registered FDI Package.



FDI Package Originator
- 4

VERIFY

FDI Host system shall check the signature and certification status by reading the FDI registration certificate.



FDI Host

FDI technology's security is enabled at multiple levels and undergoes rigorous testing and registration to ensure its safety from unauthorized access and tampering.

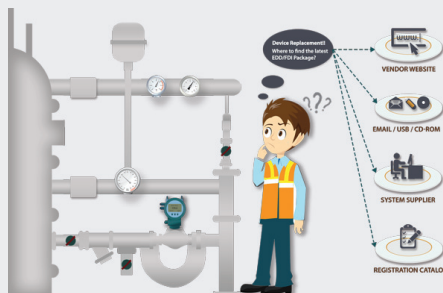
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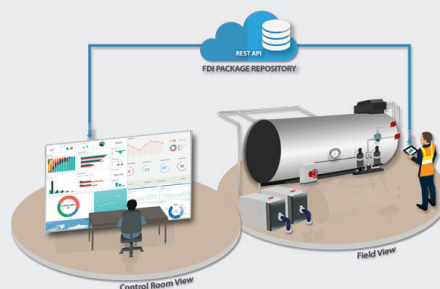
FDI Package Repository

THE AUTHORITATIVE SOURCE FOR REGISTERED DEVICE PACKAGES

The core of device revision management lies in keeping the system and handheld field communicator aligned with the latest devices and revisions.



Problems arise when multiple, non-standardized sources, for device drivers are available.



The solution is the FDI Package Repository - a single cloud based distribution source for registered FDI Device Packages, irrespective of vendors and protocols.

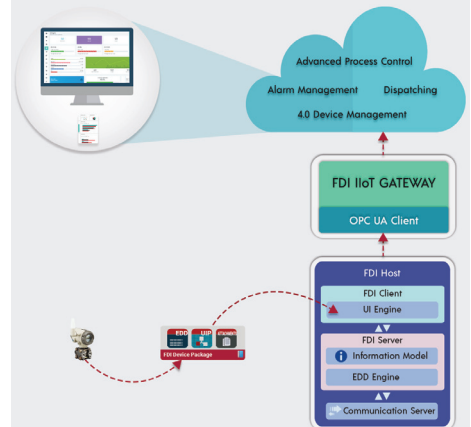
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CLOUD to instrument connectivity

FDI: BUILDING BLOCK OF DIGITAL TRANSFORMATION

Industrial Internet of Things (IIoT) and Industrie 4.0 are redefining manufacturing at an unmatched level of efficiency, productivity and performance. IIoT brings together intelligent devices, advanced analytics, and people at work; its services run in the cloud and interact with physical devices via virtual representatives - all with the aim of creating valuable process insights.



The FDI standard lays the foundation for system-wide interoperability and seamless communication via cloud services. FDI-Cloud integration will help in remote data visualization to increase the transparency in asset performance monitoring and optimization of business operations across the globe.

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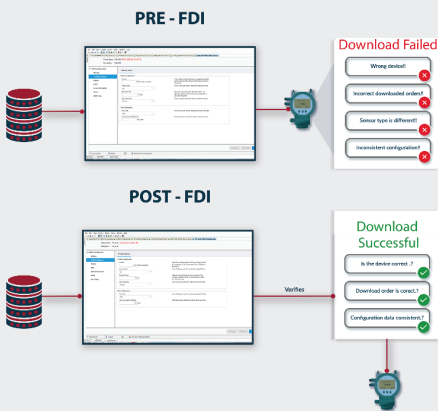


configure all devices OFFLINE

FDI STANDARDIZES OFFLINE CONFIGURATION

Commissioning is a critical phase in the plant life cycle. In many cases the commissioning phase, when done correctly, can help a project get back on schedule after it has fallen behind. It is essential that the quality, integrity and functionality of the systems be verified at each stage of commissioning.

In the past, there was no standardized root menu available in the DD for offline configuration and no specific way to determine the download parameters.



With standardization of the root menu for offline configuration in FDI, the device developer chooses the set of device parameters and their download order to remove inter-dependencies.

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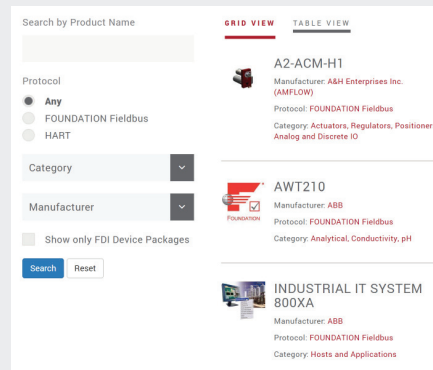


product REGISTRY



FIELDCOMM GROUP REGISTERED PRODUCTS

FieldComm Group has been registering instruments, systems and infrastructure for conformance to the HART and FOUNDATION Fieldbus protocols for nearly twenty years. Registered products undergo rigorous testing to assure conformance to the mandatory features of the respective protocol specifications.



FieldComm Group's Product Registry is a searchable registry of registered FDI, HART and FOUNDATION Fieldbus products from a multitude of manufacturers and categories. Products that carry the registration mark have been tested in the FieldComm Group lab to ensure conformance to the standards for interoperability and functionality regardless of manufacturer.

REGISTERED
PRODUCTS ▶



FDI products



FDI PRODUCTS FROM MEMBER COMPANIES

The FDI Products section on ask4FDI.com spotlights FDI products from FieldComm Group member companies. While the FieldComm Group registry (fieldcommgroup.org/registered-products) features only registered products, this section displays products that are both registered and not registered, but available on the market today.



FDI PRODUCTS ▶

