

EDDL Cooperation Team

Field Device Integration (FDI) Project

ACHEMA 2009



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- **Single solution for integration of field devices into host systems**
- **Combines strengths of EDDL and Device Type Manager (DTM)**
- **Open specification that will be an international Standard**
- **Technology direction agreed by major suppliers**
- **Use cases agreed by major end users**

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- **Host system independent**
- **Platform and operating system independent**
- **Provides access to the full capability of the field device**
- **Supports FOUNDATION™, HART®, PROFIBUS® & PROFINET®**
- **Adoptable to support other fieldbus communication technologies**
- **Based on OPC UA client/server specifications & information model**
- **Specifications independently validated by the ECT organizations**
- **Provides backward compatibility with existing EDD's & DTM's**
- **Provides conformance test requirements to assure compliance**
- **Provides guidelines for field device and system developers**

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- Input from AIDA, NAMUR, WIB and PNO on use case development
- Use cases based on plant life-cycle model
- Requirements derived from use cases
- System architecture derived from requirements

Planning	Engineering	Commissioning	Operation/Maintenance
Process Design Device Selection	Location Requirements Engineering Field Topology Planning Redundancy Planning Segment Definition Device Instance Handling Communication Configuration Device Parameterization Function Block Assignment Function Block Parameterization IO Signal Assignment IO Signal Parameterization Control Application Engineering Alarm Engineering Operator HMI Setup Project Documentation	Topology Check Device Commissioning Data Synchronization Function Test System Commissioning Process Optimization	Operator Training Process Supervision Process Status View Production Parameter Setup Alarm Handling Condition Monitoring Device Calibration Define/Schedule Maintenance Action Diagnosis Establish Process Maintenance Mode Location Function Repair Device Repair Device Replacement Device Optimization Remote Service Online Data Access Simulation

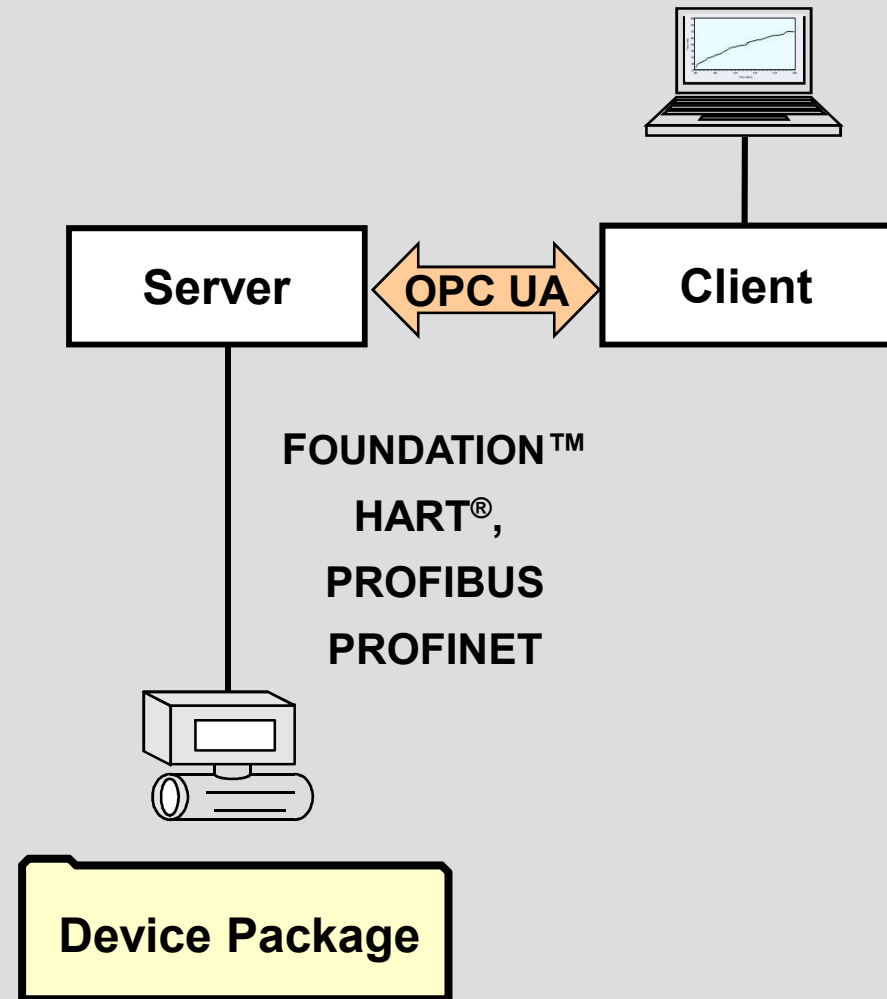
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■ System Architecture

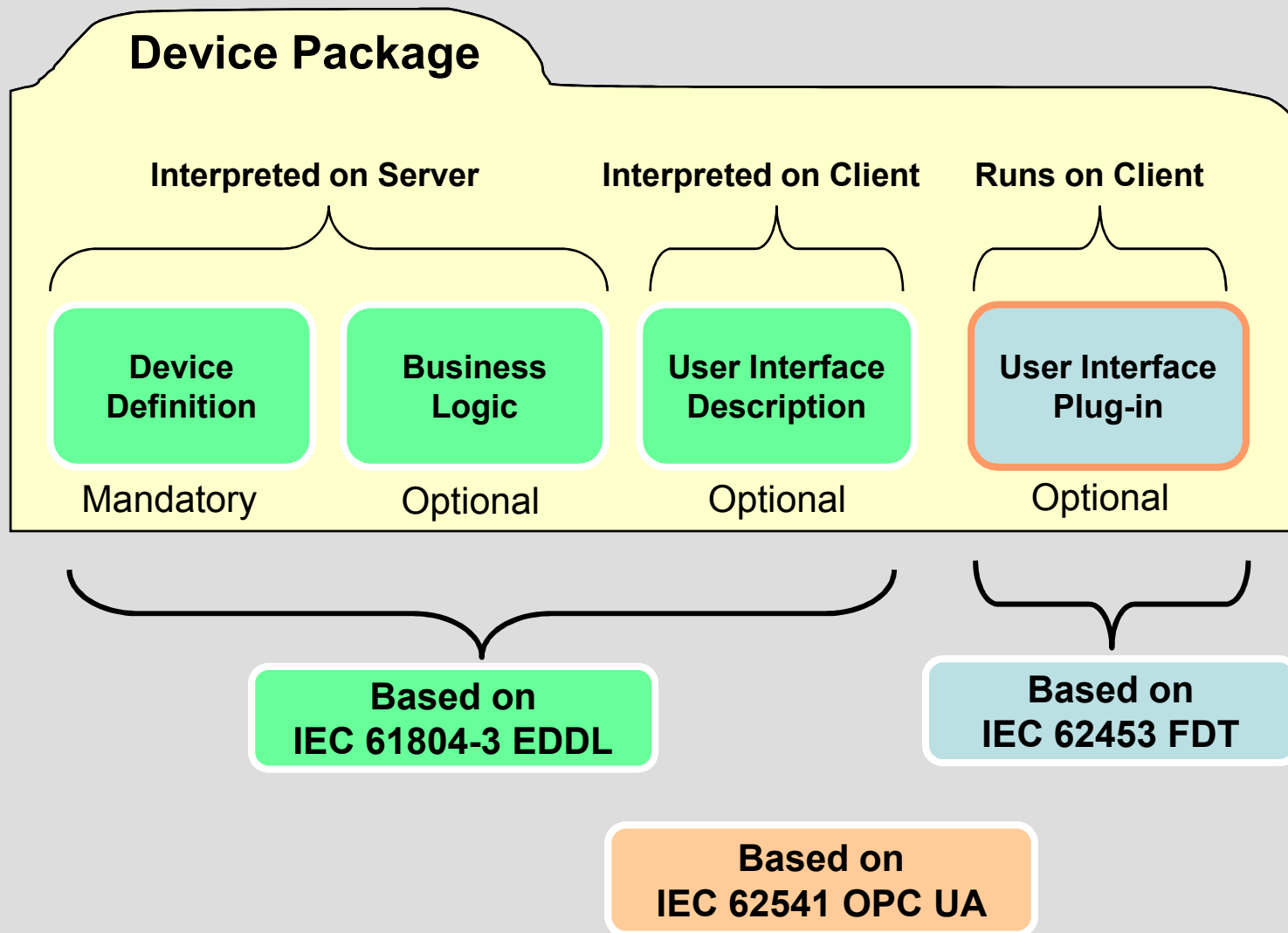
- Client
- Server
- Device Package

■ Backward Compatibility

- EDDL
- DTM



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The screenshot shows a software window titled "Client Window" with a standard toolbar. On the left, there is a panel for device configuration with fields for "<Device Instance Name>", "<Device Type>", "<Version>", and "<Manufacturer>". Below these are "UI Functions" including "UI Function 1" and "UI Function 2". The main area is divided into two groups: "Group 1" and "Group 2". "Group 1" contains three visual elements: a tank level indicator, a pressure gauge showing 0.0 psi, and a step function graph. "Group 2" contains a "Programmed Application" dialog box with "OK", "Apply", and "Cancel" buttons. Two callout boxes highlight these areas: a blue box labeled "User Interface Plug-In" points to the "Programmed Application" dialog, and a green box labeled "User Interface Description" points to the "Group 1" content area.

User Interface Plug-In

User Interface Description

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- ✓ FDI Project approved 1Q 2007
- ✓ FDI Project technical team kickoff meeting 2Q 2007
- ✓ Use case review with NAMUR and WIB 4Q 2007
- ✓ Use cases and requirements approved 2Q 2008
- ✓ System Architecture 3Q 2008
- ✓ Technology criteria 4Q 2008
- ✓ Technology selection 1Q 2009
- ✓ Draft functional specifications 1Q 2009
- Begin specification validation 2Q 2009
- Draft technical specifications 3Q 2009
- Final specifications 1Q 2010

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