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Open APIs for Open Minds



What is FIWARE?

FIWARE is the open source platform of choice for building Smart Solutions







OPEN SOURCE PLATFORM

A market-ready open source software, combining components that enable the connection to IoT with Context Information Management and Big Data services in the Cloud

SMART USAGE OF DATA

Standard APIs for data management and exchange, as well as harmonised data models.

SMART SOLUTIONS & SERVICES

Automation of processes across the entire value chain. Easy plug&play integration with other solutions and services. Part of a marketplace of portable and interoperable solutions.



What is FIWARE?







FIWARE FOUNDATION

FIWARE SUMMITS

FIWARE ECOSYSTEM

Actively promotes the FIWARE Adoption, supports the community providing shared resources and validates the FIWARE technologies.

A meeting place for developers, entrepreneurs, political decision makers, thought leaders, business executives and investors. More than 100 cities, 11 iHubs, various accelerator programmes, and strategic partnerships with GSMA, TM Forum, CEF, and ETSI, amongst others.



The FIWARE Ecosystem



FIWARE Mundus

A worldwide expansion of FIWARE into Latin America, North America, Africa, and Asia.



FIWARE iHubs

European network of business hubs working together for an easy implementation of FIWARE technologies in businesses.



FIWARE Accelerators

80 M funding for the most talented teams and business proposals building upon FIWARE technology. Discover our 16 accelerators.



The FIWARE iHubs





FIWARE for INDUSTRY inside the FIWARE CATALOGUE



FIWARE GENERIC ENABLERS

Generic Enablers (GE) offer a number of general-purpose functions, offered through well-defined APIs, easing development of smart applications in multiple sectors. They will set the foundations of the architecture associated to your application.

Specifications of FIWARE GE APIs are public and royalty-free. You can search for the open source reference implementation, as well as alternative implementations, of each FIWARE GE in the FIWARE Reference Architecture.



Beaing access, oathering.

processing, publication and analysis of context information at large scale.

Make delivery and usage of





interface to Nebuaris and Devices (IZTIO)

services trustworthy by Build communication efficient distributed meeting security and applications, exploit privacy requirements. advanced network capabilities and castly



Framework Concrepte, publish, cross acll and consume applications/services, addressing all business manage robotic devices.

DOMAIN SPECIFIC ENABLERS (DSEs)

The FIWARE Catalogue includes links to other catalogues bringing information about domain-specific enablers (DSEs) to be combined with those serving general purposes (Generic Enablers - GE). They may be helpful for those who plan to develop applications in the domains of energy, creative media, smart manufacturing, health and wellbeing and the agrifood sector.

The perfect solution to make your app focus on a specific vertical





30 & AR copabilities for web-based UI.

Roplications / Services

Ecocystem and Delivery





Please note that Domain Specific Enablers (DSSs) are different from FTWARS Generic Enablers (GSs). Some of them have been developed as part of the Ruture Internet APP large scale trials as domain specific extensions which are now available to you. Their development may not have followed the FTMCRS Developers' guidelines, and subsequently no quality assurance and suggest can be given. These may also be different regimes regarding availability of source code under well-known open source licenses, level of

Some DSSs may demonstrate they are not only applicable to the specific domain for which they were originally designed but to many other application domains. Those DSSs may eventually become a FTWARS GE by poing through the incutation process defined within the FTWIRE Open Source Community.

Note that suggest of DSS catalogues as well as DSSs is outside the control of FTWARS.

Smart Platform

 IoT.Backend.IoTBroker Reference Impl. by NEC

 IoT.Backend.ConfMan Orion Context Broker by Telefonica I+D

 IoT.Backend.DeviceManagement GE3 • IDAS by Telefonica I+D

 IoT.Gateway.ProtocolAdapter GE4 • ZPA by Telecom Italia

IoT.Gateway.DataHandling

GE5 • Esper4FastData by Orange

 Shopfloor Data Collection SE1 • SDC by Uninova & ATOS

 Secure Event Management SE2 . SEM by TXT

Dynamic CEP

SE3 • DyCEP by FZI & NISSATECH

 Dynamic Visualization & Interaction

DyVisual by DFKI

Virtual Platform

 Apps.Marketplace GE1 • Reference Impl. by SAP

· Apps.Repository

Reference impl. by SAP

Apps.Mediator

• Reference Impl. by Telecom Italia / Thales

Apps.Registry

Reference impl. by SAP

 Apps.LightSemanticComposition COMPEL by ATOS

Data.SemanticSupport

 Semantic Application Support by ATOS

· Collaborative Asset Management

SE1 • CAM by ENG

Collaborative Business Process

SE2 Management

. BPM by ENG.

• Supply Chain & Business

Ecosystem Apps

SCApp by TXT

 Data Interoperability Platform Services

DIPS by TXT

· Metadata and Ontologies SE5 Semantic Matching

SelMa by NTUA

· Management of Virtualized Assets

SE6 . MoVA by DITE

· Generation and Transformation of Virtualized Assets

GeToVA by UIBK

Digital Platform

Data.PubSub

GE1 - Context Awareness Platform by Telecom

· Apps.ApplicationMashup

• Wirecloud by UPM

· Data.UnstructuredDataAnalysis

UDA by ATOS

Unstructured & Social Data Analytics

SE1 • Anizer by NTUA

Semantic Mediator front-end &

SE2 back-end

SEMed by BIBA

• 3D Scanning Storage and Visualisation

3DScan by DATAPIXEL

Collaborative 3D Web Viewer

c3DWV by DFKI



FIWARE for INDUSTRY in H2020: 17 ENABLERS 8 SE+, 3GE+, 2NE, 4GE















KNOWAGE Business Intelligence

FIWARE COSMOS BigData Analytics

F4I ANLZER Sentiment Brand

F4I CBPM Orchestration





F4I DyVisual 3D Models Visual

F4I CAM **Assets Mgmt** F4I Cloud Man. Assets Planner

FIWARE Wirecloud Widget Mashup

F4I DyCEP Dynamic Events

FIWARE ORION Context Broker

F4I SEMED Sem. Mediator

F4I Secure Event Manager Broker



F4I openIOT **OPC-UA Wrapper**



Logistics for Manufacturing SMEs









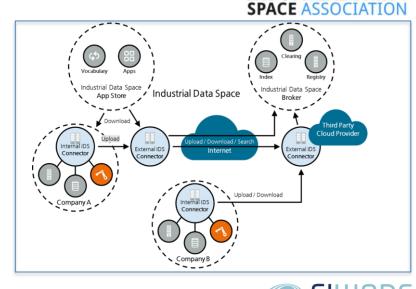






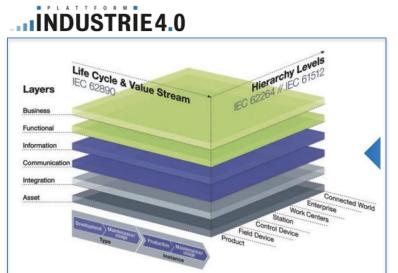
The next Task: Positioning of the four main Drivers of Industrial IoT

Industrial Data Space Reference Architecture



INDUSTRIAL DATA

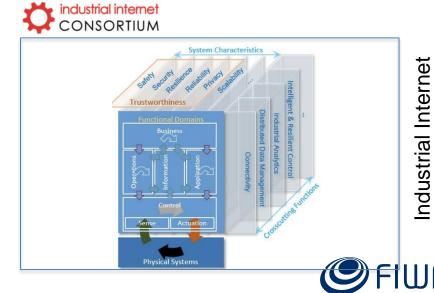




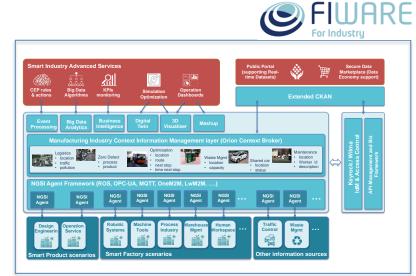


Archtecture

Reference



FIWARE Reference Archtecture



Thank you!

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