

FI-PPP 3rd Phase Scenario: Opportunities for SMEs

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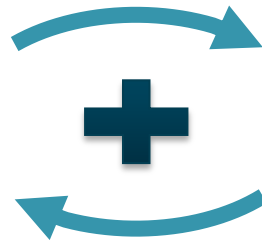


May, 13rd 2014

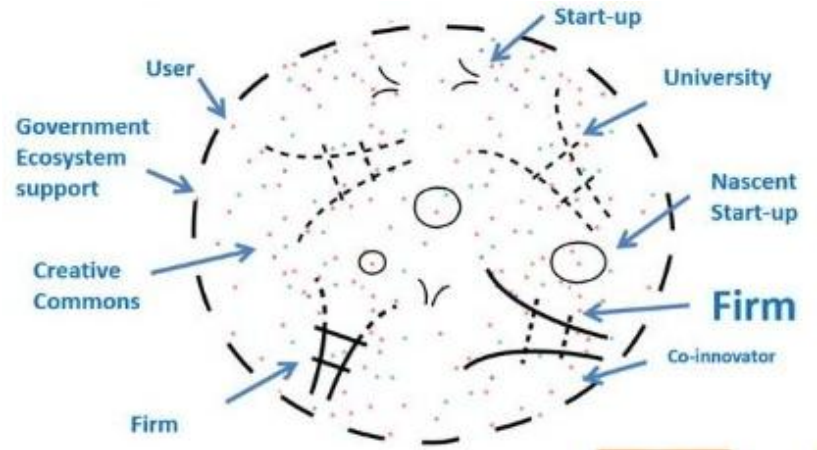
FI-WARE, FI-Ops and FI-Lab



Technology



A true open innovation ecosystem



FI-WARE = advanced OpenStack-based Cloud +
rich library of Generic Enablers + developers
tools



Driven by
implementation



Sustainability
ensured

the meeting point around which a dynamic innovation ecosystem is created

- FI-LAB will be a **case example of a FI-WARE Instance**. It:
 - A sandbox to test and use Generic Enablers
 - Cloud facilities distributed through Europe (5+12 data centers)
 - What you get: free Virtual Machines (5) + 10Gb + **real data from Smart Cities**
- Each FI-WARE GEi has a specific support tracker
- Entrepreneurs can **setup accounts for free**, adhering to certain terms and conditions
- Liaison with so-called application sponsors (e.g., cities) to enrich the environment



The suite of tools easing deployment and operation of FI-WARE instance nodes

■ A distributed cloud to empower service offering for/in Smart Cities

- Tools to deploy and federate the data centers using FI-WARE framework
- The XIFI Cloud is based on 5 European regions
- It will cover 15 regions between April 2014 and April 2015

■ By facilitating access to the distributed FI-LAB Cloud the FI-Ops offering enables:

- Local and regional public authorities to build and offer smart services more rapidly
- You can use FI-Ops to connect your city with FI-WARE and other Smart City infrastructures to the Cloud



How the ecosystem is actually emerging: the case of Smart Cities

■ Some cities already connecting to FI-Lab:

- Italy: Lecce and Puglia Region, Trento, Torino
- Spain: Sevilla, Málaga, Santander, Valencia, Sabadell, ...
- Finland: Espoo
- Discussion with cities in other countries ongoing

■ FI-WARE Challenge on Smart Cities:

- Launched end of October
- 300+ teams (individuals, startups, SMEs – few researchers) applied to the challenge ([ES](#), [EN](#))
- 20 final teams run the [final in CPBR 14](#)
- quite amazing results!



FI-WARE – relevant links

Website	Objective
www.fi-ware.org	Official website
catalogue.fi-ware.org	A kind of executive summary per Generic Enabler => easiest way to find specific components
edu.fi-ware.org	the e-Learning platform to discover Generic Enablers Features you can find detailed courses per Generic Enabler
wiki.fi-ware.org	To have much more details (Open specs, Open APIs, architectures pictures)
lab.fi-ware.org	To join FI-Lab, create your account and test Generic Enablers

Opportunities for SMEs

■ Open Specs: **FREE**

- Documentation is available
- You can understand main features of Generic Enabler: (can be re-use for multiple verticals and associated service platforms)
- Become part of the community and share with us, and with your ecosystem

■ API: **FREE**

- For your developers to plug your own software on top of Generic Enablers
- To develop your own instances of Generic Enablers and be compliant & interoperable
- Open or create your platform/services to/for other verticals

■ License models (for concrete software)

- 70% are now in Open Source => you can contribute !



What comes next!!

- **Be ready for September 2014 (announcement of calls mid-September)**
 - Discover FI-WARE Generic Enablers
 - Use FI-Lab to play with new technologies
- **Be engaged in 2015**
 - Bring your « commercial » ideas
 - Be funded to do innovation
 - Build your new products/services
- **Find additional funding with ACCELERATORs support**
 - Bootstrap your own new business
 - Think Big to become Bigger (international business)



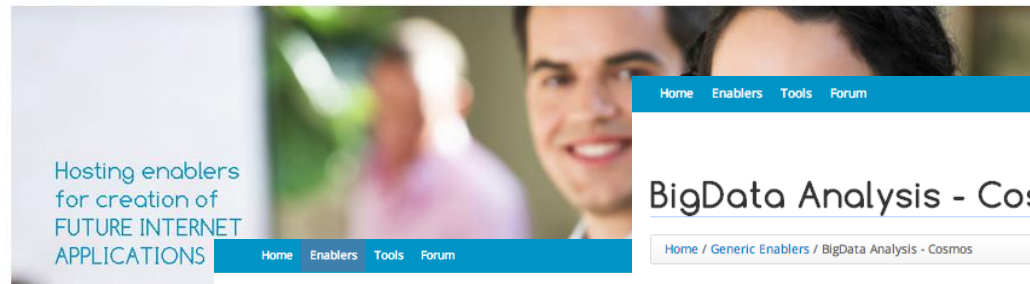
Thanks !



Follow @Fiware on Twitter !



FI-WARE Catalogue (<http://catalogue.fi-ware.org>)



Welcome to the FI-WARE Catalogue. Start using a Generic Enabler.

About the Catalogue



The FI-WARE Catalogue is the central place for finding and using Generic Enablers of the FI-WARE platform. Apart from this, you will also find tools and best practices to help you develop the applications of the FI-WARE platform.

Generic Enablers

Home / Generic Enablers

Browse by Chapter

Data/Context Management

BigData Analysis - Cosmos

Monitoring and control of the BigData Analysis GE
DATA/CONTEXT MANAGEMENT

Complex Event Processing (CEP) - IBM Protege

Complex Event Processing GE
DATA/CONTEXT MANAGEMENT

Compressed Domain Video Analysis - Cosmos

Provides a set of tools for analyzing video streams in the compressed domain
DATA/CONTEXT MANAGEMENT

Location - LOCS

Location management of mobile devices via A-GPS, CID and WIFI
DATA/CONTEXT MANAGEMENT

BigData Analysis - Cosmos

Home / Generic Enablers / BigData Analysis - Cosmos

Overview Creating Instances Documentation Downloads Instances Terms and conditions



Chapter:
Data/Context Management
Version:
Updated:
2013-10-24
Rating:
★★★★★
Average: 5 (1 vote)
Contact Person:
Francisco Romero Bueno
frb@tid.es

What you get

Cosmos is an implementation of the Big Data GE, and it is based on Hadoop ecosystem. Current version of Cosmos allows users to:

- Upload big data files to HDFS by means of a SFTP Injection server.
- Upload big data files to HDFS by means of HttpFS (in addition to standard WebHDFS).
- Upload and run MapReduce jobs from the Master node.

There is also a module in charge of receiving context data from Orion (Context Broker GE Implementation) and storing it in HDFS.

Why to get it

Big Data processing is the technology used to process huge amounts of previously stored data in order to get relevant insights in scenarios where latency is not a highly relevant parameter. These insights take the form of newly generated data, which will be at disposal of applications using the insights.

Open specifications

The Open Specifications

BigData Analysis - Cosmos

Home / Generic Enablers / BigData Analysis - Cosmos

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Francisco Romero Bueno
frb@tid.es

★★★★★
No votes yet

★★★★★
No votes yet

Please login to be able to subscribe to this GEI.

Experiments/Trials within the FI-PPP

Projects being part of the FI-PPP program can use the Cosmos product under the conditions established in the FI-PPP Collaboration Agreement that they should have signed as beneficiaries of the program.

FI-LAB (Open Innovation Lab)

Development, testing and experimentation of applications using:

- experimental instances deployed on the FI-WARE Open Innovation Lab facilities (see section "Experimental Instances" under the "instances" tab linked to this entry)
- versions of the software downloaded from resources under the "downloads" tab linked to this entry

Is subject to the terms and conditions established in the "FI-WARE Open Innovation Lab: Use Terms and Conditions". Any other use is not permitted.

External Availability

Software associated to the Cosmos product is provided as open source under Apache License, Version 2.0. Please check the specific terms and conditions linked to this open source license at <http://opensource.org/licenses/Apache-2.0>.

Please note that software derived as a result of modifying the source code of the Cosmos product software in order to fix a bug or incorporate enhancements is considered a derivative work of the product. Software that merely uses or aggregates (i.e. links to) an otherwise unmodified version of existing software is not considered a derivative work.

FI-WARE websites

- Everything is on www.fi-ware.org

FI-WARE
OPEN APIs FOR OPEN MINDS

HOME ABOUT ▾ BLOG **CATALOGUE** **FI-LAB** **DEVELOPERS** CONTACT

Search

€200,000 in prizes for social apps

FI-WARE

EDUCATION CITIZENSHIP SOCIAL INCLUSION CROWDSOURCING HEALTH

Participate until April 24th

Present your idea for the **Smart Society Challenge** #FIware800k

Campus Party™

FEATURED VIDEO

FI-WARE AND ENTREPRENEURSHIP

FOLLOW US ON TWITTER

Tweets Follow

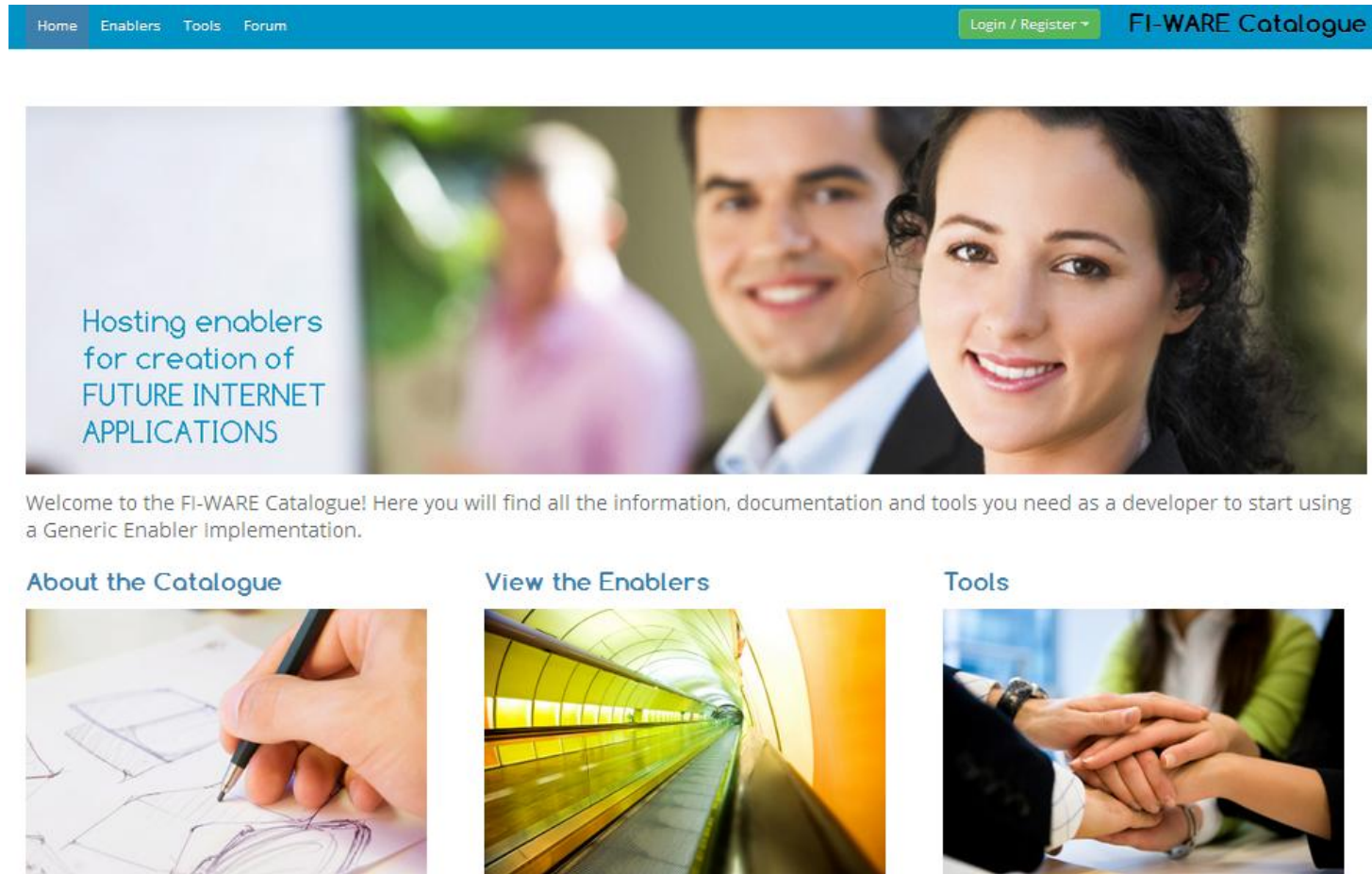
Carlos Ralli Ucendo 14 Apr
@carlosralli
On my way to Santander to talk on @FIware at Jornadas Atlánticas event.
Retweeted by FI-WARE
Expand

FI-WARE 23h
@FIware
MIDEOS| FI-WARE, FI-Lab and

FI-WARE is an innovative, open cloud-based infrastructure for cost-effective creation and delivery of Future Internet applications and services, at a scale not seen before. FI-WARE API specifications are public and royalty-free, driven by the development of an open source reference implementation which accelerates the availability of commercial products and services based on FI-WARE technologies.

FI-WARE websites

- catalogue.fi-ware.org a kind of executive summary per Generic Enabler



FI-WARE websites

- catalogue.fi-ware.org a kind of executive summary per Generic Enabler

Access Control - THA Implementation

[Home](#) / [Generic Enablers](#) / Access Control - THA Implementation

Overview

[Creating Instances](#)

[Documentation](#)

[Downloads](#)

[Instances](#)

[Terms and conditions](#)



What you get

The API allows to manage authorization policies, and based on those policies, provides authorization decisions for requests to REST APIs of other GEs/services in FI-WARE. The API of the Access Control GE itself follows the REST architecture style, and uses the XACML (eXtensible Access Control Markup Language) standard for the policy syntax and evaluation, as well as for the authorization decision request/response format.

Provide Feedback

Provide feedback



FI-WARE websites

- edu.fi-ware.org the e-Learning platform to discover Generic Enablers Features

You are not logged in. (Login)



Home Available Courses My Courses My Dates My Activities News

Navigation

Home

> Courses

Welcome

Welcome to the FI-WARE eLearning platform, where you can find training courses, lessons and many other contents regarding FI-WARE technology.

Feel free to start browsing our offering from the categories listed below, or from the *Available Courses* section (main menu bar), click on them and access the lessons.

Few quick steps and you can easily get access to all the public courses published in this platform.

1 Select a Category

- Cloud Hosting (2)
- Data/Context Management
- Internet of Things (IoT) Services Enablement (1)
- Applications and Services Ecosystem and Delivery

2 Select a Course

 **FI Application Project Management**

This course introduces the concepts and usage of the FI Application Fi-CoDE, to create and manage Fi-based application projects.



< April 2014 >

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

FI-WARE websites

- edu.fi-ware.org : you can find detailed courses per Generic Enabler

You are currently using guest access (Login)



Home Available Courses My Courses My Dates My Activities News

Home ► ...tData - GE location within the FiWare architecture

Navigation

- Home
 - Site pages
 - Current course
 - ...tData - GE location within the FiWare architecture**
 - Participants
 - General
 - ...tData - GE location within the FiWare architecture
 - ...GE - Esper4FastData - Introduction to CEP concepts

News forum

- Gateway Data Handling GE - Esper4FastData - GE location within the FiWare architecture**
Gateway Data Handling GE - Esper4FastData - GE location within the FiWare architecture
- Gateway Data Handling GE - Esper4FastData - Introduction to CEP concepts**
Gateway Data Handling GE - Esper4FastData - Introduction to CEP concepts
- Gateway Data Handling GE - Esper4FastData - Quickstart**
Gateway Data Handling GE - Esper4FastData - Quickstart

Search forums

Advanced search

Latest news

(No news has been posted yet)

Upcoming events

There are no upcoming events
Go to calendar...

FI-WARE websites

- wiki.fi-ware.org the place to find much more details

The screenshot shows the FI-WARE wiki page titled "How to get started with FI-WARE". The page is redirected from another source. It features a navigation menu on the left with links like "Main page", "Quick Tour", "Our Vision", "Architecture", "Open Specs APIs", "Roadmap", and "Implementations". The main content area lists various topics under "How to get started with FI-WARE", including "Quick FI-WARE tour", "Overall FI-WARE Vision", "FI-WARE Architecture", "FI-WARE Glossary", "Summary of FI-WARE Open Specifications", "Summary of FI-WARE API Open Specifications", "Materializing the FI-WARE Vision", "FI-WARE Technical Roadmap", "Developer Community and Tools", "FI-WARE Agile Development Methodology", "Releases and Sprints numbering, with mapping to calendar dates", "FI-WARE FAQ", and "The FI-WARE partners". Red arrows point from the text "Key points !" to the following items: "FI-WARE Architecture", "Summary of FI-WARE Open Specifications", "Summary of FI-WARE API Open Specifications", and "Materializing the FI-WARE Vision". The right sidebar contains sections for "Events and hackathons" and "FI-WARE Testbed".

193.49.124.107

page discussion view source history

Welcome

(Redirected from ...)

This wiki comp...

How to get started with FI-WARE

- Quick FI-WARE tour
- Overall FI-WARE Vision
- FI-WARE Architecture
- FI-WARE Glossary
- Summary of FI-WARE Open Specifications
- Summary of FI-WARE API Open Specifications
- Materializing the FI-WARE Vision
- FI-WARE Technical Roadmap
- Developer Community and Tools
- FI-WARE Agile Development Methodology
- Releases and Sprints numbering, with mapping to calendar dates
- FI-WARE FAQ
- The FI-WARE partners

Events and hackathons

FI-LAB or FI-WARE technologies,
lab-help@lists.fi-ware.eu

organization, etc., don't hesitate to
fi-ware.eu

questions on the following FAQ page:

each event ;)

FI-WARE Collaboration & Dissemination

- Communication, Collaboration and Dissemination

FI-WARE Testbed

- Testbed Design
- Testbed V1 Integration Plan (FI-PPP restricted access)
- Testbed V1 Integration Report (FI-PPP restricted access)
- Testbed V2 Integration Plan (FI-PPP restricted access)

Key points !

FI-WARE websites

FI-WARE Architecture

Following is a description of the Reference Architecture linked to the Enablers (GEs) being supported in each chapter is provided, including the Enabler (GE) exposes to application developers or it uses to connect.

- Cloud Hosting
- Data/Context Management
- Internet of Things (IoT) Services Enablement
- Applications/Services Ecosystem and Delivery Framework
- Security
- Interface to Networks and Devices (I2ND)

Security Chapter

- Security-Monitoring: Mulval Attack Path Engine Open API Specification
- Security-Monitoring: Mulval Attack Path Engine Web Application Open API Specification
- Security-Monitoring: Scored Attack Paths Open API Specification
- Security-Monitoring: Remediation Open API Specification
- Security-Monitoring: Service Level SIEM Open API Specification
- Security-Monitoring: IoT Fuzzer Open API Specification
- Security-Monitoring: Android Vulnerability Assessment Open API Specification
- Identity Management Open API Specification
- Privacy Open RESTful API Specification
- Data Handling Open RESTful API Specification
- Access Control Authorization Open RESTful API Specification
- Context-based Security & Compliance Open RESTful API Specification
- DBAnonymizer Open RESTful API Specification
- Secure Storage Service Open API Specification
- Content Based Security Open RESTful API Specification
- Malware Detection Service Open API Specification
- Android Flow Monitoring Open Specification

API

Cloud Hosting Chapter

- FIWARE.OpenSpecification.Cloud.DCRM
- FIWARE.OpenSpecification.Cloud.SM
- FIWARE.OpenSpecification.Cloud.SelfServiceInterfaces
- FIWARE.OpenSpecification.Cloud.CloudEdge
- FIWARE.OpenSpecification.Cloud.ObjectStorage
- FIWARE.OpenSpecification.Cloud.SDC
- FIWARE.OpenSpecification.Cloud.PaaS
- FIWARE.OpenSpecification.Cloud.Monitoring
- FIWARE.OpenSpecification.Cloud.JobScheduler
- FIWARE.OpenSpecification.Cloud.Edgelets

Open
Specs

Data/Context Management Chapter

- FIWARE.OpenSpecification.Data.BigData
- FIWARE.OpenSpecification.Data.PubSub
- FIWARE.OpenSpecification.Data.CEP
- FIWARE.OpenSpecification.Data.Location
- FIWARE.OpenSpecification.Data.MetadataPreprocessing
- FIWARE.OpenSpecification.Data.CompressedDomainVideoAnalysis
- FIWARE.OpenSpecification.Data.QueryBroker
- FIWARE.OpenSpecification.Data.SemanticAnnotation
- FIWARE.OpenSpecification.Data.SemanticSupport
- FIWARE.OpenSpecification.Data.Middleware

Materializing the FI-WARE Vision

- Materializing Cloud Hosting in FI-WARE
- Materializing Data/Context Management in FI-WARE
- Materializing Internet of Things (IoT) Services in FI-WARE
- Materializing Applications/Services Ecosystem in FI-WARE
- Materializing Security in FI-WARE
- Materializing the Interface to Networks and Devices in FI-WARE
- Materializing Advanced User Interfaces in FI-WARE
- Materializing Common base technologies in FI-WARE
- Materializing FI-WARE Cross-Chapter functions

From description
to
concrete softwares

Social channels



Channel	URL
Web page	http://www.fi-ware.eu
Twitter (main account)	twitter.com/Fiware
Twitter (testbed status)	twitter.com/FWTestbedStatus
Wiki	http://wiki.fi-ware.eu/
Facebook	http://www.facebook.com/pages/FI-WARE/251366491587242
Flickr	http://www.flickr.com/photos/76605615@N04/sets/
Picasa	https://picasaweb.google.com/110187051505314119413
LinkedIn	http://www.linkedin.com/groups/FIWARE-4239932