

**D3.6.1**

# **DEPLOYMENT OF ENABLERS ON FIC2LAB**

**May 2015**

## **ABSTRACT**

This document reports on status and plans for deployment of enablers of WP3 on FIC2Lab.

This document is a deliverable of the FI-CONTENT 2 integrated project supported by the European Commission under its FP7 research funding programme, and contributes to the FI-PPP (Future Internet Public Private Partnership) initiative.

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#### DELIVERABLE DETAILS

[Full project title]:	Future media Internet for large-scale CONtentexperimENTation 2
[Short project title]:	FI-CONTENT2
[Contract number]:	603662
[WP n°]:	WP3: City guide platform
[WP leader]:	Olivier Duvoid (EBIZ)
[Deliverable n°]:	D3.6.1
[Deliverable title]:	Deployment of enablers on FIC2Lab
[Deliverable nature]:	Prototype (P) & Report (R)
[Dissemination level]:	Public (PU)
[Contractual delivery date]:	M26- May2015
[Actual delivery date]:	16/07/2015
[Editor]:	Loïc Ortola / Olivier Duvoid(EBIZ)
[Internal Reviewers]:	Serge Travert, TRDF / Pieter van der Linden, VIVITnet - VIV
[Suggested readers]:	N/A
[Keywords]:	Future Internet, Content, Media content, Use cases
[File name]:	FI-CONTENT 2_WP3-010_D3.6.1_V1.0.docx

## EXECUTIVE SUMMARY

This deliverable presents an overview of the current state of the FIC2Lab integration for the Smart City Services Work Package. It lays out both the already achieved tasks and the upcoming upgrades for each enabler.

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## ABBREVIATIONS

ARD	Consortium of public broadcasters in Germany: <b>Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland</b>
DCSIP	Dissemination and Communication Strategy and Implementation Plan
EPG	Electronic Programme Guide
GE	Generic Enabler
HbbTV	Hybrid Broadcast Broadband TV
IPTV	Internet Protocol Television
MDM	Mobile Devices Management
PMC	Project Management Committee
POI	Point Of Interest
SCG	Smart City Guide
SCTV	Social Connected TV
SE	Specific Enabler
SEO	Search Engine Optimisation
UGC	User Generated Content
VoD	Video on Demand

## 1 - OVERVIEW OF OBJECTIVES OF THE WP IN RELATION TO FIC2LAB SUPPORT

WP3 has worked hard on developing state-of-the-art technologies since the beginning of the FI-Content project. The aim of all partners has always been to put those tools to use, through many use cases to bring tomorrow's Smart City Services to a reality.

Along with Phase 3 came one of the biggest challenges: How to make those technologies known and usable for developers and end-users. The deployment complexity and the variety of technical stacks make testing and evaluating them all the more difficult. This is where FIC2Lab arrived as a communication, bootstrap, and deployment tool for all WP enablers.

Today, all WP3 partners agreed to put some efforts into the FIC2Lab as it becomes a true exposition window, and a great opportunity to get feedback from SMEs.

Being “integrated” into FIC2Lab means different things: some may just provide product videos, deployment guides, and API documentation, others may provide a complete infrastructure for testing, or live tweak features.

All partners have successfully provided the requirements for a successful integration, although some updates and improvements will be made in the future.

This deliverable lays out the current state and the future improvements on the roadmap.



## 2 - ENABLERS SELECTED FOR FIC2LAB.

### 2.1 - List of enablers selected and ported

Name	Supplier	Type	Comment
OpenDataSoft	ODS	Open Data / Datavisualization	
Context Aware Recommendation	LCI	Server-side enabler	
Fusion Engine	UPVLC, PRO	Data Fusion / Open Data	
OCDB (Open City Database)	FOKUS	Open Data / Server-side enabler	
POIProxy	PRO	Points of Interest	
AppGenerator	EBIZ	App generation / deployment	
3D-Map Tiles	DFKI	Server-side enabler	Common enabler
Social Network Enabler	PIX	Social networking	Common enabler

### 2.2 - List of enablers selected and currently being ported

Name	Supplier	Type	Comment
Asset Storage	DFKI	Server-side enabler	Common enabler

### 2.3 - Discussion of non-selected enablers

The WP decided not to port the following enablers to FIC2Lab for the following reasons:

Name	Reason
Recommendation As A Service	The enabler was initially built for Amazon Webservices and has been ported to FI-Ware infrastructure. However, the porting could not be finished due to technical incompatibilities. As a result the enabler is currently not using a GE and is not used anymore by applications in the project.

### 2.4 - Discussion of enablers reported in another platform

Content Enrichment	Reported in D2.6.1 as part of WP2
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### 3 - STATUS OF PORT TO FIC2LAB OF SELECTED ENABLERS

#### 3.1 - Summary of status

Enabler	Status on 30/06/2015	Further actions planned	Projected date for finalization
OpenDataSoft	Deployment completed	Enabler still running on AWS, ODS plans to port to FIC2Lab instances by mid-June	2015, June 15 <sup>th</sup>
Context Aware Recommendation	Deployment completed	Support only	
Fusion Engine	Deployment completed	Enhance integration with POI DP GE, following FIWARE POI discussions	2015, June 15 <sup>th</sup>
POIProxy	Deployment completed	Support only	
Open City Database	Deployment completed	Support only	
AppGenerator	Deployment completed	Support only	
3D-Map Tiles	Deployment completed	Support only	
Social Network	Deployment completed	Support only	
Asset Storage	Deployment in progress	Amend missing components to complete deployment	2015, July 31 <sup>st</sup>

Per enabler discussion of status:

*NB: detailed information about the Social Network Enabler is available in the deliverable D2.6.1. in the section 3.1.1.*

## 3.2 - OpenDataSoft

### 3.2.1 - Current status reported by Enabler supplier (ODS)

Criteria	Status	Expected date for update
Availability of Presentation	Done	
Availability of Visual/Photo	Done	
Availability of validated Docker Image OR Availability of production SaaS instance (Hosted on FIC2Lab or elsewhere).	Done. SaaS instance running on Amazon AWS. Will be ported to FIC2Lab instances later.	Deployment on FIC2Lab instances planned by 30.06.2015.
Availability of T&C for FI-PPP and beyond	Done	
Availability of Programming guide	Done	
Availability of Installation guide	Done	
Availability of API description (via swagger)	Not yet ok. API Description exists but is not yet available through Swagger ( <a href="http://docs.opendatasoft.com/collection/1382-using-apis-for-the-documentation">http://docs.opendatasoft.com/collection/1382-using-apis-for-the-documentation</a> and <a href="https://ficontent.opendatasoft.com/api/console/datasets/1.0/search/">https://ficontent.opendatasoft.com/api/console/datasets/1.0/search/</a> for the API console)	While studying the Swagger specification, we identified major improvements that could reshape OpenDataSoft APIs assets. These improvements are currently being implemented and shall be released by the end of the summer.
Availability of Bug tracking (infrastructure will be provided by FIC2Lab, but contact people and deputy shall be provided per enabler)	Done	
Availability of Demo instance endpoint (on FIC2Lab or elsewhere)	Done	
Availability of Test and or Demo script	Done(test instance is available at <a href="http://ficontent.opendatasoft.com">http://ficontent.opendatasoft.com</a> )	

### **3.2.2 - Assessment of status by FIC2Lab Task Force**

The OpenDataSoft Data Management SE has been successfully ported to the FIC2Lab portal. The enabler successfully passes all defined sanity checks.

Two tasks are still in progress:

- Hosting of enabler instances on the FIC2Lab Cloud  
Currently, this enabler, provided as a SaaS platform, is hosted on AWS. Port to FIC2Lab Cloud instances has not been completed yet and is targeted to be done in June 2015. The migration will be fully transparent to Enabler users (same URLs etc ...).
- Availability of Swagger scripts for testing OpenDataSoft APIs  
OpenDataSoft APIs are already documented and an API console is available for developers to test them. Swagger integration is planned but requires substantial refactoring of OpenDataSoft APIs, which is in progress. Full Swagger compatibility shall be reached by the end of August 2015.

This enabler is fully documented and showcased through video and links on the FIC2Lab portal.

### 3.3 - Context Aware Recommendation

#### 3.3.1 - Current status reported by Enabler supplier (LCI)

Criteria	Status	Expected date for update
Availability of Presentation	Done	
Availability of Visual/Photo	Done	
Availability of validated Docker Image OR Availability of production SaaS instance (Hosted on FIC2Lab or elsewhere).	Done	
Availability of T&C for FI-PPP and beyond	Done	
Availability of Programming guide	Done	
Availability of Installation guide	Done	
Availability of API description (via swagger)	Done	
Availability of Bug tracking (infrastructure will be provided by FIC2Lab, but contact people and deputy shall be provided per enabler)	Done	
Availability of Demo instance endpoint (on FIC2Lab or elsewhere)	Done	
Availability of Test and or Demo script	Done	

### **3.3.2 - Assessment of status by FIC2Lab Task Force**

- The Context Aware Recommendation SE code is open source and available on Github (<https://github.com/VizLoreLabs/LCI-FIC2-SE>).
- Demo instance is deployed and can be used for testing the server side modules and for testing a demo service with the accompanying Android application <http://89.216.30.67:8080/>
- Docker scripts and smoke test scripts are finalized. Integration into the FIC2 Lab is completed. Panamax Template script for composing two server side modules of the SE is developed. Docker files for both server side modules of the SE are developed and tested.
- Installation guide is available here: <https://github.com/VizLoreLabs/LCI-FIC2-SE>
- The developer guide provides details on how to use the demo instance for Context Aware POI Recommendation.
- Support for integration with the Publish/subscribe Context broker GE is under development.
- Demo instance utilizes the Foursquare API so it is fully functional wherever it is tested (it doesn't rely on any pre-composed city or event database).
- Detailed documentation on installation, setup and deployment is available as well as an interactive documentation of the provided API (via Swagger).
- Video presentation of the Context Aware POI and Action Recommendation based on the SE is provided (<https://www.youtube.com/watch?v=QVqcao4SxWI&feature=youtu.be>).
- The meta structure of the Context Aware Recommendation SE successfully passes the sanity checks ensuring smooth integration into the FIC2Lab.
- There is no Javascript playground for this SE as it does not work in this way. Users should either use Docker or demo instances.
- Three startups from FI WARE accelerator programs made inquiry about utilization of the Context Aware Recommendation SE in their developments. List-IT is now actively using it in its service and application development as part of Finodex accelerator program.

### 3.4 - Fusion Engine

#### 3.4.1 - Current status reported by Enabler supplier (UPVLC)

Criteria	Status	Expected date for update
Availability of Presentation	Done	
Availability of Visual/Photo	Done	
Availability of validated Docker Image OR Availability of production SaaS instance (Hosted on FIC2Lab or elsewhere).	Done. There is a docker image in DockerHub	
Availability of T&C for FI-PPP and beyond	Done	
Availability of Programming guide	Done	
Availability of Installation guide	Done	
Availability of API description (via swagger)	Done	
Availability of Bug tracking (infrastructure will be provided by FIC2Lab, but contact people and deputy shall be provided per enabler)	Done	
Availability of Demo instance endpoint (on FIC2Lab or elsewhere)	Done.	
Availability of Test and or Demo script	The SE does not support a demo script. Users should either use Docker or demo instances	

### 3.4.2 - Assessment of status by FIC2Lab Task Force

- The Fusion Engine code is open source and available in Github ([https://github.com/satrd/poi\\_fusion\\_engine3](https://github.com/satrd/poi_fusion_engine3)) .
- There is a ficontent2/docker folder for anyone interested in testing the SE as a Docker image. This is the case, for example, for FIC2Lab:
- There is a README.md file with anything you need to know for generating and using a docker image of this SE
- There is a Dockerfile for direct generation of the image from FIC2Lab
- There is also an image in Dockerhub (enolgor/poi-fusion-engine3)
- Documentation about installing, using and developing the Fusion Engine is available under the 'doc' folder.
- There is a demo endpoint at [http://158.42.188.5:8080/fic2\\_fe\\_v3\\_frontend/](http://158.42.188.5:8080/fic2_fe_v3_frontend/). The main menu includes:
  - Friendly configuration (how OCDs are set up)
  - On-line documentation
  - Demo examples for the FE applied to Tenerife and Valencia cities
- Swagger endpoint where developers can watch and test the API
- A short video presentation introducing the enabler is available at <https://www.youtube.com/watch?v=Mal27MkQjUE>
- The metastructure about the FE in the wiki successfully passes the sanity checks
- There is no Javascript playground for this SE as it does not work in this way. Users should either use Docker or demo instances.



### 3.5 - Open City Database

We have selected this enabler because of the interest of SMEs in an out-of-the-box city related data service that can be easily deployed and used in existing or new apps. The SE proved during the "Fallas 2015" event that it can power apps with data and social interactions in a real world setup with many participating users. Moreover, the very permissive license makes this SE interesting to third parties.

#### 3.5.1 - Current status reported by Enabler supplier (FOKUS)

Criteria	Status	Expected date for update
Availability of Presentation	Done	
Availability of Visual/Photo	Done	
Availability of validated Docker Image OR Availability of production SaaS instance (Hosted on FIC2Lab or elsewhere).	Done	
Availability of T&C for FI-PPP and beyond	Done	
Availability of Programming guide	Done	
Availability of Installation guide	Done	
Availability of API description (via swagger)	Done	
Availability of Bug tracking (infrastructure will be provided by FIC2Lab, but contact people and deputy shall be provided per enabler)	Done	
Availability of Demo instance endpoint (on FIC2Lab or elsewhere)	Done	
Availability of Test and or Demo script	Done	

### **3.5.2 - Assessment of status by FIC2Lab Task Force**

- The Open City Database (OCDB) code is open source and available on Github (<https://github.com/fraunhoferfokus/OCDB>).
- There is a dedicated entry page for the OCDB project at <http://fraunhoferfokus.github.io/OCDB/>.
- There is a quick deployment procedure available by utilizing docker. Detailed information on how to get, build, use and test the OCDB using docker is available at <https://github.com/fraunhoferfokus/OCDB/blob/master/README.docker.md> including a pre-build image that is publicly available at Dockerhub ([fraunhoferfokus/ocdb:latest](https://hub.docker.com/r/fraunhoferfokus/ocdb:latest)).
- The entry page offers instructions how to get quickly in touch with the technology before even installing on-premise or anywhere else by using a publicly available endpoint for testing purposes.
- For a deeper look into the technology there is a „hello world“ sample script available at JsFiddle helping to get an idea how the OCDB can be used from within own apps.
- Detailed documentation on installation, setup and deployment is available as well as an interactive documentation of the provided API (via Swagger).
- A first video tutorial is also available showing how to run and use the OCDB.
- The meta structure of the OCDB successfully passes the sanity checks making it smoothly to be incorporated in to the FIC2Lab.
- The OCDB is used within the Smart City Guide App and is one of the central components with in the deployment used during the „Fallas 2015“ event.

### 3.6 - POIProxy

#### 3.6.1 - Current status reported by Enabler supplier (PRO)

Criteria	Status	Expected date for update
Availability of Presentation	Done	
Availability of Visual/Photo	Done	
Availability of validated Docker Image OR Availability of production SaaS instance (Hosted on FIC2Lab or elsewhere).	Done. There is a docker image in DockerHub	
Availability of T&C for FI-PPP and beyond	Done	
Availability of Programming guide	Done	
Availability of Installation guide	Done	
Availability of API description (via swagger)	Done	
Availability of Bug tracking (infrastructure will be provided by FIC2Lab, but contact people and deputy shall be provided per enabler)	Done	
Availability of Demo instance endpoint (on FIC2Lab or elsewhere)	Done.	
Availability of Test and or Demo script	Done	

### 3.6.2 - Assessment of status by FIC2Lab Task Force

- Presentation:  
<https://www.youtube.com/watch?v=aWBzzo2Af8Y>
- Visual / Photo:  
<http://wiki.mediafi.org/lib/exe/fetch.php/ficontent:smartcity:enabler:poiproxy:thumbnail.png>
- Docker:  
<https://registry.hub.docker.com/u/fic2/poiproxy/dockerfile/>  
<https://github.com/Prodevelop/POIProxy/blob/master/Dockerfile>
- T&C  
POIProxy has a free license: <https://github.com/Prodevelop/POIProxy/blob/master/LICENSE>
- Programming and installation guide:  
<http://wiki.mediafi.org/doku.php/ficontent.smartcity.enabler.poiproxy.developerguide>  
<https://github.com/Prodevelop/POIProxy/blob/master/INSTALL.md>
- API description (swagger):  
<https://github.com/fic2/swaggerfiles/tree/gh-pages/poiproxy>  
<http://app.prodevelop.es/poiproxy/public/index.html>
- Demo instance endpoint:  
FIC2Lab  
<http://app.prodevelop.es/poiproxy>
- Test and demo scripts  
<https://github.com/Prodevelop/POIProxy-playground>  
<https://github.com/pixelpark/playground-example>  
<http://prodevelop.github.io/POIProxy-playground/app/>
- Meta structure sanity checks passed.

### 3.7 - AppGenerator

#### 3.7.1 - Current status reported by Enabler supplier (EBIZ)

Criteria	Status	Expected date for update
Availability of Presentation	Done	
Availability of Visual/Photo	Done	
Availability of validated Docker Image OR Availability of production SaaS instance (Hosted on FIC2Lab or elsewhere).	Done	
Availability of T&C for FI-PPP and beyond	Done	
Availability of Programming guide	Done	
Availability of Installation guide	N/A	
Availability of API description (via swagger)	Done	
Availability of Bug tracking (infrastructure will be provided by FIC2Lab, but contact people and deputy shall be provided per enabler)	Done	
Availability of Demo instance endpoint (on FIC2Lab or elsewhere)	Done	
Availability of Test and or Demo script	N/A	

#### 3.7.2 - Assessment of status by FIC2Lab Task Force

- The AppGenerator code is closed source. Its SDK and sample projects are OpenSource and available on Github (<https://github.com/e-biz/designmyapp>).
- The production SaaS instances are hosted on eBiz's servers. For instance:
  - Public instance of the public portal: <http://portal.designmyapp.mobi>
  - Public instance of the dedicated OpenStreetMap tool: <http://osm.designmyapp.mobi>
- There is a dedicated entry page for the DesignMyAppproject at <http://designmyapp.mobi/>
  - There are Presentations and visuals to understand what DesignMyApp is.
  - Detailed documentation and programming guide is available as well as an interactive documentation of the provided API (via Swagger).
- The meta structure of the App Generator successfully passes the sanity checks making it smoothly to be incorporated in to the FIC2Lab.
- The AppGenerator is used by eBiz and its partners, by OpenStreetMap, and during the Transmusicales Experiment.

### 3.8 - 3D-Map Tiles

#### 3.8.1 - Current status reported by Enabler supplier (DFKI)

Criteria	Status	Expected date for update
Availability of Presentation	Done	
Availability of Visual/Photo	Done	
Availability of validated Docker Image OR Availability of production SaaS instance (Hosted on FIC2Lab or elsewhere).	Done	
Availability of T&C for FI-PPP and beyond	Done	
Availability of Programming guide	Done	
Availability of Installation guide	Done	
Availability of API description (via swagger)	Done	
Availability of Bug tracking (infrastructure will be provided by FIC2Lab, but contact people and deputy shall be provided per enabler)	Done	
Availability of Demo instance endpoint (on FIC2Lab or elsewhere)	Done	
Availability of Test and or Demo script	Done	

#### 3.8.2 - Assessment of status by FIC2Lab Task Force

The enabler is fully deployed on FIC2lab.

### 3.9 - Social Network

#### 3.9.1 - Current status reported by Enabler supplier (PIX)

Criteria	Status	Expected date for update
Availability of Presentation	Done	
Availability of Visual/Photo	Done	
Availability of validated Docker Image OR Availability of production SaaS instance (Hosted on FIC2Lab or elsewhere).	Done	
Availability of T&C for FI-PPP and beyond	Done	
Availability of Programming guide	Done	
Availability of Installation guide	Done	
Availability of API description (via swagger)	Done	
Availability of Bug tracking (infrastructure will be provided by FIC2Lab, but contact people and deputy shall be provided per enabler)	Done	
Availability of Demo instance endpoint (on FIC2Lab or elsewhere)	Done	
Availability of Test and or Demo script	Done	

#### 3.9.2 - Assessment of status by FIC2Lab Task Force

As of the beginning of March the enabler is fully deployed on FIC2lab.

### 3.10 - Asset Storage

#### 3.10.1 - Current status reported by Enabler supplier (DFKI)

Criteria	Status	Expected date for update
Availability of Presentation	Done	
Availability of Visual/Photo	Pending	July2015
Availability of validated Docker Image OR Availability of production SaaS instance (Hosted on FIC2Lab or elsewhere).	Docker pending image	July2015
Availability of T&C for FI-PPP and beyond	Done	
Availability of Programming guide	Pending	July2015
Availability of Installation guide	Done	
Availability of API description (via swagger)	Pending	July2015
Availability of Bug tracking (infrastructure will be provided by FIC2Lab, but contact people and deputy shall be provided per enabler)	Done	
Availability of Demo instance endpoint (on FIC2Lab or elsewhere)	Pending	July2015
Availability of Test and or Demo script	Pending	July2015

#### 3.10.2 - Assessment of status by FIC2Lab Task Force

Enabler deployment is pending.Expected date of completion is July2015.



## 4 - SUMMARY AND CONCLUSION

WP3 successfully integrated their technologies into a common unified entry point. Each partner committed on supporting phase 3 and improving their integration with a clear roadmap. SMEs and third parties can now easily access the technologies, deploy them, tweak some of them, and get in touch with the related partners seamlessly.