



**Private Public Partnership Project (PPP)**

Large-scale Integrated Project (IP)



### **D.12.3.2: FIWARE Software Release 5 (Cloud Chapter)**

**Project acronym:** FI-Core

**Project full title:** Future Internet - Core

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**Strategic Objective:** FI.ICT-2011.1.7 Technology foundation: Future Internet Core Platform

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# 1 Introduction

## 1.1 Executive Summary

This document accompanies Release 5 of FIWARE and provides a summary of the software implementations and related manuals associated to the Generic Enablers in the Cloud chapter. These Generic Enablers form the core business framework of the FIWARE platform by supporting the business functionality for commercializing services.

## 1.2 Approach of this Report

This report is formally formulated as focused on the software as such. However we have decided to concentrate additional pointers to other results of the project strongly bound to the software release: *Installation & Administration manual* and *User & Programmers manual*.

The core deliverables of Release 5 are actually the information linked from the summary tables to the different resources that we offer as Release 5 to the outside world. The goal is to have software that is useful, it works and is presented in a modern and appealing fashion. In other words, we do not focus on producing lengthy documents, what matters and makes a difference is whether such resources have the potential to attract a vibrant community and make it credible that we have prospects to allow adoption and widespread awareness of a platform that is perceived as serious and robust.

There are lower detail documents associated to the releases on github such as Release Notes and Change Logs. These are deliberately not appended to this document to keep it short and focused. In any case, they are publicly available and any prospective adopters will find them once they visit github and download the software for a more thorough study.

In the light of this, the aim of this document is to serve as a rough guide to the results delivered with Release 5 with brief tables that contain the essential pointers.

## 1.3 Intended Audience

This document is mainly oriented to provide an orderly report to the EC but it could be occasionally used by other actors in the FIWARE ecosystem who may profit from an overview of Release 5 in a summarized manner. The developers and potential adopters should normally use the catalogue and our public resources to gain access to this information in a more online fashion.

At the end of the day, this is a snapshot of the software delivered but the various repositories that we present in this document are evolving all the time with new releases and changes that are up to date on github, readthedocs, apiary,...

## 1.4 Changes History

Release	Major changes description	Date	Editor
v1	Initial draft	2016-09-28	Kenneth Nagin (IBM)
V2	Final version after coordination review	2016-11-10	Kenneth Nagin (IBM)

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## 2 Summary of Release 5

The following table provides the links to the most relevant materials associated to the FIWARE Software Release 5

GE Name	GE implementation	FIWARE Partner	Github Release for R5	Software repository	Installation and Administration Guide	User and Programmers Guide
Cloud Object Storage	None	IBM	OpenStack Swift 2.3.0 (Kilo) <a href="https://github.com/openstack/swift/releases/tag/kilo-eol">https://github.com/openstack/swift/releases/tag/kilo-eol</a>  Storlets (newton): <a href="https://github.com/openstack/storlets/tree/stable/newton">https://github.com/openstack/storlets/tree/stable/newton</a>	<a href="https://github.com/openstack/swift">https://github.com/openstack/swift</a>  <a href="https://github.com/openstack/storlets">https://github.com/openstack/storlets</a>	<a href="http://docs.openstack.org/developer/swift/howto_install_multinode.html">http://docs.openstack.org/developer/swift/howto_install_multinode.html</a>  <a href="http://storlets.readthedocs.io/en/latest/deployer_installation.html">http://storlets.readthedocs.io/en/latest/deployer_installation.html</a>	<a href="http://docs.openstack.org/developer/swift/">http://docs.openstack.org/developer/swift/</a>  <a href="http://storlets.readthedocs.io/en/latest/writing_and_deploying_storlets.html">http://storlets.readthedocs.io/en/latest/writing_and_deploying_storlets.html</a>
IaaS	None	IBM	OpenStack (Kilo): <a href="https://github.com/openstack/nova/releases/tag/kilo-eol">https://github.com/openstack/nova/releases/tag/kilo-eol</a>  cinder:	<a href="https://github.com/openstack">https://github.com/openstack</a>	The official OpenStack Installation and Administration guide can be found at <a href="http://docs.openstack.org">http://docs.openstack.org</a>	The official OpenStack User guides can be found at <a href="http://docs.openstack.org">http://docs.openstack.org</a>

			<a href="https://github.com/openstack/cinder/releases/tag/kilo-eol">https://github.com/openstack/cinder/releases/tag/kilo-eol</a>  glance: <a href="https://github.com/openstack/glance/releases/tag/kilo-eol">https://github.com/openstack/glance/releases/tag/kilo-eol</a>  neutron: <a href="https://github.com/openstack/neutron/releases/tag/kilo-eol">https://github.com/openstack/neutron/releases/tag/kilo-eol</a>			
Docker	FIWARE Docker Container Service (FDCS)	IBM	<a href="https://github.com/swarm-hooks/swarm/tree/multi-v1.1.0">https://github.com/swarm-hooks/swarm/tree/multi-v1.1.0</a>	<a href="https://github.com/swarm-hooks/swarm/">https://github.com/swarm-hooks/swarm/</a>	<a href="http://fiware-docker-container-service.readthedocs.io/en/latest/adminguide/admin-guide/index.html">http://fiware-docker-container-service.readthedocs.io/en/latest/adminguide/admin-guide/index.html</a>	<a href="http://fiware-docker-container-service.readthedocs.io/en/latest/userguide/user-guide/index.html">http://fiware-docker-container-service.readthedocs.io/en/latest/userguide/user-guide/index.html</a>
Cloud Self-Service Interfaces	Cloud Portal	UPM	<a href="https://github.com/ging/fiware-cloud-portal/releases/tag/5.4">https://github.com/ging/fiware-cloud-portal/releases/tag/5.4</a>	<a href="https://github.com/ging/fiware-cloud-portal">https://github.com/ging/fiware-cloud-portal</a>	<a href="http://fiware-cloud-portal.readthedocs.io/en/5.4/admin_guide/">http://fiware-cloud-portal.readthedocs.io/en/5.4/admin_guide/</a>	<a href="http://fiware-cloud-portal.readthedocs.io/en/5.4/user_guide/">http://fiware-cloud-portal.readthedocs.io/en/5.4/user_guide/</a>

<p>Policy Manager</p>	<p>Bosun</p>	<p>TID</p>	<p><a href="https://github.com/telefonicaid/fiware-cloto/releases/tag/v2.8.0">https://github.com/telefonicaid/fiware-cloto/releases/tag/v2.8.0</a></p> <p><a href="https://github.com/telefonicaid/fiware-facts/releases/tag/v2.8.0">https://github.com/telefonicaid/fiware-facts/releases/tag/v2.8.0</a></p>	<p><a href="https://github.com/telefonicaid/fiware-cloto">https://github.com/telefonicaid/fiware-cloto</a></p> <p><a href="https://github.com/telefonicaid/fiware-facts">https://github.com/telefonicaid/fiware-facts</a></p>	<p><a href="http://fiware-cloto.readthedocs.io/en/v2.8.0/admin_guide/">http://fiware-cloto.readthedocs.io/en/v2.8.0/admin_guide/</a></p>	<p><a href="http://fiware-cloto.readthedocs.io/en/v2.8.0/user_guide/">http://fiware-cloto.readthedocs.io/en/v2.8.0/user_guide/</a></p>
<p>Application Management</p>	<p>Murano</p>	<p>TID (contributor)</p>	<p><a href="https://github.com/openstack/murano/tree/stable/mitaka">https://github.com/openstack/murano/tree/stable/mitaka</a></p> <p><a href="https://github.com/openstack/murano-agent/tree/stable/mitaka">https://github.com/openstack/murano-agent/tree/stable/mitaka</a></p> <p><a href="https://github.com/telefonicaid/fiware-murano/releases/tag/5.4.3">https://github.com/telefonicaid/fiware-murano/releases/tag/5.4.3</a></p>	<p><a href="https://github.com/openstack/murano">https://github.com/openstack/murano</a></p> <p><a href="https://github.com/openstack/murano-agent">https://github.com/openstack/murano-agent</a></p> <p>(OpenStack Murano and Murano-Agent official repositories)</p> <p><a href="https://github.com/telefonicaid/fiware-murano">https://github.com/telefonicaid/fiware-murano</a></p>	<p><a href="http://murano.readthedocs.io/en/stable-liberty/install/index.html">http://murano.readthedocs.io/en/stable-liberty/install/index.html</a></p> <p>(OpenStack Murano official documentation)</p> <p><a href="http://fiware-murano.readthedocs.io/en/5.4.3/admin_guide/index.html">http://fiware-murano.readthedocs.io/en/5.4.3/admin_guide/index.html</a></p>	<p><a href="https://murano.readthedocs.org/en/stable-liberty/draft/appdev-guide/step_by_step.html">https://murano.readthedocs.org/en/stable-liberty/draft/appdev-guide/step_by_step.html</a></p> <p>(OpenStack Murano official documentation)</p> <p><a href="http://fiware-murano.readthedocs.io/en/5.4.3/user_guide/index.html">http://fiware-murano.readthedocs.io/en/5.4.3/user_guide/index.html</a></p>

### 3 Complementary information

To provide a complete and brief overview of the landscape of the FIWARE resources this section lists additional pointers to repositories that all the adopters of FIWARE should be able to find and exploit. All of them can be found following links from the website [www.fiware.org](http://www.fiware.org).

Resource	Location	Description
FIWARE Catalogue	<a href="http://catalogue.fiware.org/">http://catalogue.fiware.org/</a>	Repository of dedicated pages per GE implementation that contain all the pointers with relevant information relevant to understand them work with them.
FIWARE Academy	<a href="http://edu.fiware.org">http://edu.fiware.org</a>	Educational resources for the FIWARE technology
FIWARE wiki	<a href="http://wiki.fiware.org">http://wiki.fiware.org</a>	Collaborative workspace used by the FIWARE partners to collect and share information. The catalogue contains direct links to the most relevant wiki pages for each GE. For newbies we suggest the approach of exploring the catalogue to find the links you look for instead of navigating the wiki directly.
FIWARE Lab	<a href="http://lab.fiware.org">http://lab.fiware.org</a>	Environment to experiment with FIWARE. Play with FIWARE using the self-deployment facilities in our free sandbox and see how our technologies can help you.
FIWARE Open Specs	<a href="http://wiki.fiware.org/Summary_of_FIWARE_Open_Specifications">http://wiki.fiware.org/Summary_of_FIWARE_Open_Specifications</a>	High level description of the Open Specifications of the FIWARE GEs
FIWARE detailed APIs	<a href="http://wiki.fiware.org/Summary_of_FIWARE_API_Open_Specifications">http://wiki.fiware.org/Summary_of_FIWARE_API_Open_Specifications</a>	Detailed description of the APIs in the Open Specifications
Stack OverFlow (SOF)	<a href="http://stackoverflow.com/">http://stackoverflow.com/</a>	We accept public tickets of technical nature if tagged with one of the designated

		<p>labels (<i>fiware, fiware-orion, fiware-wirecloud, ...</i>).</p>
<p>FIWARE Q&amp;A</p>	<p><a href="http://ask.fiware.org">http://ask.fiware.org</a></p>	<p>Q&amp;A knowledge base. This repository accepts any type of questions, ranging from general FIWARE concepts not bound to a GE to low level technical details. Concrete questions on particular GEs or GERis can be asked here.</p>