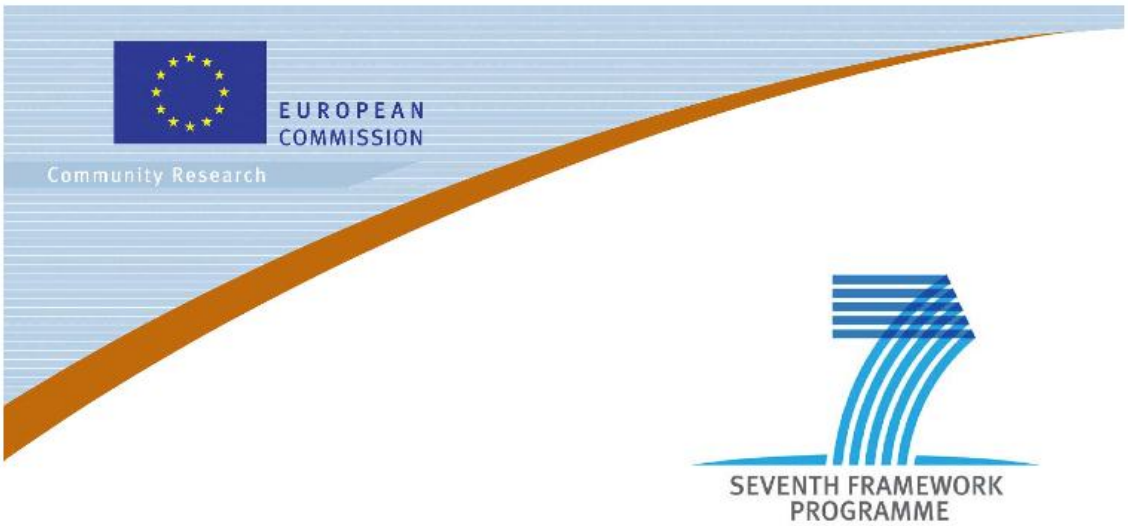


Private Public Partnership Project (PPP)

Large-scale Integrated Project (IP)

D.7.2.3: FI-WARE SW Release

Project acronym: FI-WARE

Project full title: Future Internet Core Platform

Contract No.: 285248

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

Project Document Number: ICT-2011-FI-285248-WP7-D.7.2.3

Project Document Date: 2014-07-10

Deliverable Type and Security: PP

Author: FI-WARE Consortium

Contributors: FI-WARE Consortium

1.1 Executive Summary

This version of the deliverable provides the details of the second software release of FI-WARE.

The software releases take place following three standard methods:

- **Publicly**: under the tool **Files** of the project called FI-WARE under the FI-WARE forge
- **Restricted to PPP members and the EC**: under the tool **Files** of the project called FI-WARE PPP Restricted under the FI-WARE forge
- **Offered as a service**: exceptionally, a few partners host their software delivery themselves on their private infrastructures. They can supply access to the PPP members or the EC (password protected location) if requested.

1.2 About This Document

The original purpose of this document (associated to the official deliverable D.7.2.3), is to accompany the official deliverable, marked as "P". The EC requires a report with each one of the deliverables of such nature and the present document satisfies such request by giving a succinct account of the software delivered for Release 3 for the respective chapter.

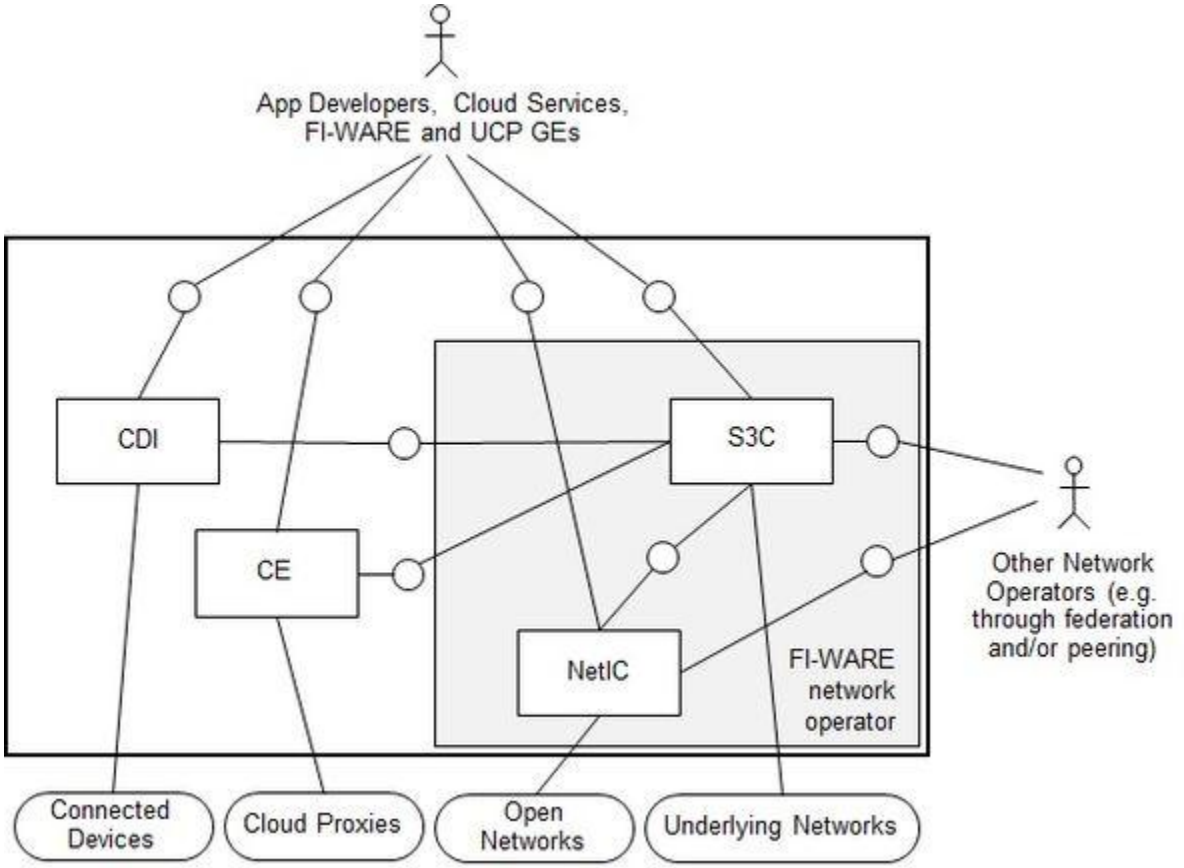
1.3 Intended Audience

This document and the sw deliverables described are mainly oriented to provide an orderly report to the EC but it could also be used by anyone who has interest in installing the GEi or who wants to gain knowledge of the actual software delivered in the 3rd Release of FI-WARE.

1.4 Chapter Context

The I2ND chapter defines an enabler space for providing Generic Enablers (GEs) to run an open and standardised network infrastructure. The infrastructure deals with highly sophisticated terminals, as well as with highly sophisticated proxies, on one side, and with the network operator infrastructure on the other side. This latter will be implemented by physical network nodes, which typically will be under direct control of an operator, or the node functionality will be virtualised – in this case the I2ND functionality can be accessed by further potential providers, like virtual operators. The I2ND chapter defines four GEs, as represented in the figure:

- CDI (Connected Device Interface) towards the Connected Devices. These devices include, but are not limited to, mobile terminals, tablets, set top boxes and media phones.
- CE (Cloud Edge) towards the Cloud Proxies. Cloud Proxies are gateways, which will connect and control a set-up of nodes towards the Internet or/and an operator network.
- NetIC (Network Information and Control) towards Open Networks. Open Networks are following the idea of flow based controlled networks, and can be used for virtualisation of networks.
- S3C (Service Capability, Connectivity and Control) towards Underlying Networks. The underlying networks are following standards such as Next Generation Networks (NGNs) or Next Generation Mobile Networks (NGMNs). In the case of the S3C specified in I2ND the baseline underlying network will be the Evolved Packet Core (EPC) by 3GPP.



Each of the GEs of I2ND have specific interfaces which can be accessed by Application Developers, Cloud Services, FI-WARE and third party Enablers. Besides typical interfaces to functionality offered by suche GEs, it is worth mentioning that:

- The GE S3C is the central point of the I2ND architecture. I2ND develops an enabling environment which can be used by network operators. Together with NetIC, both GEs build the environment of an operator, which might even be a virtual operator. S3C can be seen as the GE to run and steer the network infrastructure.
- The interfacing between S3C and CDI provides status and control information exchange of the device and remote control capabilities.
- Cloud proxies can be part of an operator infrastructure. Therefore it is necessary to have access to these network nodes through a standardised interface.

1.5 Structure of this Document

The document is generated out of an ad hoc wiki page.

The following resources were used to generate this document:

D.7.2.3 FI-WARE SW Release front page

D.7.2.3 FI-WARE SW Release report

1.6 Acknowledgements

The current document has been elaborated using a number of collaborative tools, with the participation of the Working Package Leader and Architect as well as those partners in their teams acting as GEi owners.

1.7 Keyword list

FI-WARE, PPP, FI-CoDE, Future Internet, Collaboration, Development, FusionForge, ICT, Living Lab, OIL, Steering Board, Roadmap, Reference Architecture, Generic Enabler, Implementation, GEi, GE, Open Specifications, I2ND, Cloud, IoT, Data/Context Management, Applications/Services Ecosystem, Security, Developers Community and Tools , ICT, es.Internet, Latin American Platforms, Cloud Edge, Cloud Proxy, Use Cases.

1.8 Changes History

Release	Major changes description	Date	Editor
v1	First draft	2014-07-10	TI
V2	Delivery version	2014-07-11	TI

1.9 Table of Contents

2 FI-WARE SW Release report

The following table provides a summary of the GEi's delivered up to Release 3.3 in this chapter.

GE Name	GE implementation	Partner	Repository	Release Code	Optional Notes
Connected Device Interfacing	A-CDI	Intel	FIWARE	I2ND-A-CDI 3.3.3-V1	
Cloud Edge		TRDF	FIWARE PPP Restricted	I2ND-CloudEdge 3.2	
Network Information and Control	OFNIC	UNIROMA1	FIWARE	I2ND-OFNIC 3.3	
Network Information and Control	Altoclient	ALU-D	FIWARE	I2ND-Altoclient 3.2.3	
Network Information and Control	VNEIC	ALU-I	FIWARE	I2ND-VNEIC 3.2.1	
Network Information and Control	VNP	NSN-H	SaaS		
Service, Capability, Connectivity and Control	EPC-OTT-API	DT	FI-WARE	I2ND-OpenEPC 3.2	
Service, Capability, Connectivity and Control	Network Identity Management	DT	FI-WARE	I2ND-NetworkIdentityManagement 2.3	
Service, Capability,	Network Positioning	DT	FI-WARE	I2ND-NetworkPositioningEnabler 3.2	

Connectivity and Control	Enabler				
Service, Capability, Connectivity and Control	Seamless Network Connectivity	DT	FI-WARE	I2ND-SeamlessNetworkConnectivi 2.3	
Service, Capability, Connectivity and Control	API_Mediation	FT	FI-WARE	I2ND-API_Mediation 2.3	
Service, Capability, Connectivity and Control	Telecom_AS	FT	FI-WARE	I2ND-Telecom_AS 2.3	

Notes:

- The field "Repository" has three possible values ("FI-WARE", "FI-WARE PPP Restricted" or "SaaS"), depending on the standard delivery method chosen.
- An empty GEi column means that the name of the GEi is the same as the GE name(only for GEi with a single implementation)