

Questionnaire for FIWARE usage assessment

Note: answers to some questions will be used to assign your app a score on a spreadsheet you can download using the following link:

<https://docs.google.com/spreadsheets/d/1Pq5PgYvh8WWyb58hniWKwWa-ZvUpqqqtIIVZVEBbpUNM/edit?usp=sharing>

Please, besides filling this questionnaire, download (or create a copy of) this spreadsheet and complete it with your own self-assessment to the coach of your FIWARE Accelerator project, following guidelines about scoring of answers highlighted between square brackets in this questionnaire.

1. FIWARE Lab usage (Cloud hosting services)

- a. Are you using the FIWARE Lab cloud hosting capabilities (VMs, Object Storage, Blueprints)?
 - i. yes/planned/no [yes=2pt, planned=1pt D:FIWARE Lab usage (cloud hosting)]
 - ii. if yes/planned, explain which resources and cloud services you need
 - iii. if not, why?
- b. Will you use the cloud GEs for setting up your own Cloud hosting service (public or private cloud)?
 - i. yes/planned/no [yes=4pt, planned=3pt D:FIWARE Lab usage (cloud hosting)]
 - ii. if yes/planned, explain how
- c. Will you define a blueprint of your app that will allow FIWARE Cloud users (e.g., FIWARE Lab users or commercial FIWARE cloud instance users in the future) to deploy instances of your app?
 - i. yes/planned/no [yes=4pt, planned=3pt D:FIWARE WLab usage (cloud hosting)]
 - ii. if yes/planned, explain how

2. FIWARE Lab usage (Global GE instances)

- a. Do you use global instances of GEs deployed on the FIWARE Lab (Cosmos, Open Data portal, Wirecloud portal, Keyrock IdM, AuthZForce PDP)?
 - i. yes/planned/no [yes=2pt, planned=1pt E:FIWARE Lab usage (global instances)]
 - ii. if yes/planned, explain which ones
- b. Do you use the FIWARE Lab global instances of the authorization and access control framework (Keyrock IdM, AuthZForce PDP) combined with the Wilma PEP proxy or your own developed PEP proxies to control authorization and access to your application, APIs or data?
 - i. yes/planned /no [yes=4pt, planned=3pt E:FIWARE Lab usage (global instances)]
 - ii. if yes/planned, explain how

3. Context information

- a. Does your application support a context-aware behavior based on the update, gathering, storage, publication, querying, or subscription on changes of context information (attributes describing relevant entities, events, information describing the status of real-world objects , etc.)?
 - i. yes/planned/no
 - ii. if yes/planned, explain which entities and attributes your app manages as context information
- b. Does your application use the FIWARE NGSI API supported by the Orion Context Broker to manage context information?
 - i. yes/planned/no [yes=2pt, planned=1pt G:Data/Context Management]
 - ii. if yes/planned, explain which entities and attributes your app manages as context information using the NGSI API
 - iii. if not, why?
- c. Does your application support integration of context information sources from 3rd parties with the Orion Context Broker using some sort of NGSI adapter component (e.g., through a NGSI adapter library that perform updates on context information using the NGSI API or a NGSI server endpoint registered as context provider using the NGSI API)?
 - i. yes/planned/no [yes=4pt, planned=3pt G:Data/Context Management]
 - ii. if yes/planned, explain

4. Big Data

- a. Does your application generates or gathers large amounts of data that you want to analyse later on?
 - i. yes/planned/no
 - ii. if yes/planned, explain which data, how much data and what kind of analysis)
- b. Does your application perform Big Data analysis on historic data about context using the Cosmos Big Data platform??
 - i. yes/planned/no [yes=2pt, planned=1pt H:Big Data]
 - ii. if yes/planned, explain
 - iii. if not, why?
- c. In order to perform big data analysis of historic Context Information,do you use the Cosmos shared cluster on FIWARE Lab or deploy the Cosmos GE in your infrastructure to deploy big data clusters on demand?
 - i. yes/planned/no [yes=4pt, planned=3pt H:Big Data]
 - ii. if yes/planned, how?

5. Complex Event Processing (CEP)

- a. Does your application require to detect complex situations and execute actions or take decisions upon events that take place?

- i. yes/planned/no
 - ii. if yes/planned, explain
- b. If your answer to the previous question was affirmative, do you use the Proton CEP?
 - i. yes/planned/no [yes=2pt, planned=1pt I:Event Processing]
 - ii. if yes/planned, how?
 - iii. if not, why?
- c. If your answer to the previous question was affirmative, do you use the Proton CEP to process events related to updates on context information integrating CEP with the Orion Context Broker?
 - i. yes/planned/no [yes=4pt, planned=3pt I:Event Processing]
 - ii. if yes/planned, how?
 - iii. if not, why?

6. Stream Oriented media processing

- a. Does your application need the processing of media contents (gathering, transcoding, analysing, producing/enhancing or publishing media)?
 - i. yes/planned/no
 - ii. if yes, explain
- b. Does your application require videoconferencing features (P2P or MP)?
 - i. yes/planned/no
 - ii. if yes, explain
- c. If your answer to any of the previous questions was affirmative, do you use the Kurento Stream-Oriented media processing GE?
 - i. yes/planned/no [yes=2pt, planned=1pt J:Stream-oriented Media processing]
 - ii. if yes/planned, how?
 - iii. if not, why?
- d. Do you integrate the Kurento Stream-oriented Media processing with Orion Context Broker in order to enrich context information or handle context information as input for media processing?
 - i. yes/planned/no [yes=4pt, planned=3pt J:Stream-oriented Media processing]
 - ii. if yes/planned, how?

7. Internet of Things

- a. Does your application connect to sensors or other types of devices to gather measurements or actuate on them?
 - i. yes/planned/no
 - ii. if yes, explain (which devices and protocols, how many, what for?)
- b. Do you use FIWARE IoT GEs for this purpose?
 - i. yes/planned/no [yes=2pt, planned=1pt K:Internet Of Things]
 - ii. if yes/planned, how? (which GEs, how?)
 - iii. if not, why?

- c. If your answer to the previous question was affirmative, do you integrate IoT Data with other sources of context information by means of connecting FIWARE IoT GEs to the Orion Context Broker?
 - i. yes/planned/no [yes=4pt, planned=3pt K:Internet Of Things]
 - ii. if yes, explain
 - iii. if not, why?

8. Open Data

- a. Does your application require to consume open data?
 - i. yes/planned/no
 - ii. if yes, explain (which formats, APIs, sources)
- b. Does your application publish open data?
 - i. yes/planned/no
 - ii. if yes, explain (which formats, APIs, where)
- c. If your answer to any of the two previous questions was affirmative, do you use the FIWARE Open Data Publication GE (extended CKAN) or a standard CKAN instance?
 - i. yes/planned/no [yes=2pt, planned=1pt L:Open Data Publication GE]
 - ii. if yes/planned, how?
 - iii. if not, why?
- d. If your answer to the previous question was affirmative, do you use the Open Data GE (extended CKAN) to publish datasets linked to NGSI resources as open data?
 - i. yes/planned/no [yes=4pt, planned=3pt L:Open Data Publication GE]
 - ii. if yes/planned, how?
 - iii. if not, why?

9. Advanced Web UI

- a. Does your application need to visualize 3D objects in web-based user interfaces or represent virtual worlds?
 - i. yes/planned/no
 - ii. if yes/planned, explain
- b. Does your application incorporate information about POIs (Points of Interest)?
 - i. yes/planned/no
 - ii. if yes/planned, how is info about POIs stored and visualized?
- c. If your answer to any of the two previous questions was affirmative, do you use any of the Advanced Web-based User Interface GEs in FIWARE?
 - i. yes/planned/no [yes=2pt, planned=1pt M:Advanced Web UI]
 - ii. if yes/planned, how?
 - iii. if not, why?
- d. If your answer to the previous question was affirmative, do you use any of the Advanced Web-based User Interface GEs in FIWARE to visualize context information available using the NGSI API (e.g., exported by the Orion Context Broker)?
 - i. yes/planned/no [yes=4pt, planned=3pt M:Advanced Web UI]

- ii. if yes/planned, how?
- iii. if not, why?

10. Wirecloud

- a. Does your application provide a modular user interface? Will you provide a (customizable) dashboard?
 - i. yes/planned/no
 - ii. if yes/planned, explain
- b. If your answer to the previous question was affirmative, do you use the Application Mashup GE (Wirecloud) to create web dashboards?
 - i. yes/planned/no [yes=2pt, planned=1pt N:Wirecloud]
 - ii. if yes/planned, how? (which widgets are you reusing or plan to create)
 - iii. if not, why?
- c. if your answer to the previous question was affirmative, does any widget you mashup using Wirecloud access to context information?
 - i. yes/planned/no [yes=4pt, planned=3pt N:Wirecloud]
 - ii. if yes/planned, how? (which widgets are you reusing or plan to create)
 - iii. if not, why?

11. Data Analytics

- a. Does your application perform analysis of datasets and advanced charts or visualizations? Do you need a Business Intelligence tool?
 - i. yes/planned/no
 - ii. if yes planned, explain (what kind of analysis, or visualization, which data?)
- b. If your answer to the previous question was affirmative, do you use the FIWARE Data Visualization and Analysis GE (SpagoBI)?
 - i. yes/planned/no [yes=2pt, planned=1pt O:Data Analytics]
 - ii. if yes/planned, how?
 - iii. if no, why?
- c. if your answer to the previous question was affirmative, do you use the FIWARE Data Visualization and Analysis GE (SpagoBI) connected to other GEs (Orion, CKAN, Cosmos)?
 - i. yes/planned/no [yes=4pt, planned=3pt, O:Data Analytics]
 - ii. if yes/planned, how? which other GEs (ckan, orion, cosmos,...) are integrated?
 - iii. if not, why?

12. Authorization and Access Control

- a. Do you need to implement some sort of authorization and access control mechanism in your application?
 - i. yes/planned/no
 - ii. if yes/planned, explain

- b. If your answer to the previous question was affirmative, is it your authorization system based on using the Wilma PEP Proxy, and the KeyRock IDM GEs?
 - i. yes/planned/no [yes=2pt, planned=1pt P:Authorization and Access Control]
 - ii. if yes/planned, how?
 - iii. if not, why?
- c. If you are implementing some sort of access control mechanism, is it your access control system based on using the access control GEs (AuthZforce PDP with Wilma PEP Proxy)?
 - i. yes/planned/no [yes=4pt, planned=3pt P:Authorization and Access Control]
 - ii. if yes/planned, how?
 - iii. if not, why?

13. Business framework functions

- a. Does your application need to sell applications or data?
 - i. yes/planned/no
 - ii. if yes/planned explain
- b. Does your application have or support a payment process that requires revenue sharing or payments settlement?
 - i. yes/planned/no
 - ii. if yes/planned, explain (stakeholders, revenue sharing models)
- c. If your answer to any of the two previous questions is affirmative, do you use the Business Framework GEs (Store, Marketplace, RSS) for monetizing your application?
 - i. yes/planned/no [yes=2pt, planned=1pt Q:Business framework]
 - ii. if yes/planned, how? (which GEs, how,)
 - iii. if not, why?
- d. If your answer to the previous question is affirmative, do you use the Business Framework GEs for monetizing data published by your application?
 - i. yes/planned/no [yes=4pt, planned=3pt Q:Business Framework]
 - ii. if yes/planned, how? (will you use the Business Framework linked to the Open Data publication GE (extended CKAN) for selling data?)
 - iii. if not, why?

14. Use cases

- a. Do you integrate Specific Enablers from one or more Use Case projects?
 - i. yes/planned/no
 - ii. if yes/planned, how? (describe which SEs from which UCs and how they are used in your architecture).

15. Additional questions

- a. Is there any feature you would like to have in the GEs that you are using or planning to use?
- b. Which additional GEs would you like to find in FIWARE?

- c. What are the FIWARE GEs that you found more useful when designing your app?
- d. What are the FIWARE GEs that you found more stable/mature while developing your app?
- e. Is there any service or capability do you miss to have in the FIWARE Lab?
- f. Do you find helpful the way the support is currently provided in FIWARE? Which additional mechanisms you would like to see?