

FIWARE TSC meeting minutes

Meeting Information

Date/Time of the Meeting:	November 16, 2020. 10:30-12:30 CEST
Name of the meeting:	FIWARE Technical Steering Committee (TSC) meeting
Venue/bridge info:	GoToMeeting: https://global.gotomeeting.com/join/296239285
Version	1.0

Attendees

Name	Kind of seat	(Y/N)
FIWARE TSC Members:		
Clara Pezuela	Atos (Platinum member) representative	Y
Laura Pucci	Engineering (Platinum member) representative (deputy)	Y
Piero Corte	Engineering (Platinum member) representative	-
Stefan Gessler	NEC (Platinum member) representative	Y
Johnny Westerlund	Red Hat (Platinum member) representative	-
Marcos Reyes	Telefónica (Platinum member) representative	-
Sirish Simha	Trigyn (Platinum member) representative	-
Martin Bauer	Core chapter	Y
Fermín Galán	Core chapter	-
Federico Facca	Core Connectors	-
Joaquín Salvachúa	Core Connectors	Y
Tejinder Kaur	Context Processing chapter	-
Guiomar Tuñón	Context Processing chapter	Y

Álvaro Arranz	Visualization, Monitoring and Analytics Chapter	Y
Davide Zerbetto	Visualization, Monitoring and Analytics Chapter	-
Gabriele De Luca	Interface to IoT and other systems	Y
Franck Le Gall	Interface to IoT and other systems	Y
Peter Detzner	Interface with Robotic systems	-
Jaime Martin-Losa	Interface with Robotic systems	-
Álvaro Alonso	Security and API Management	Y
Alain Galdemas	Security and API Management	Y
Francisco de la Vega	Data Publication and Trading	Y
Miguel Jiménez	Data Publication and Trading	Y
Jason Fox	FIWARE Tutorials	-
Kazuhito Suda	FIWARE Tutorials	Y
Alfonso Pietropaolo	FIWARE Lab	Y
Jagat Jot Singh	FIWARE Lab	-
Fernando López	QA Lab	Y
Pasquale Vitale	QA Lab	Y
Alberto Abella	Remarkable individual	-
Bin Cheng	Remarkable individual	-
Davide Dalle Carbonare	Remarkable individual	Y
Stefano De Panfilis	Remarkable individual	Y
Avihai Degani	Remarkable individual	-
Juanjo Hierro	Remarkable individual (chairman of the TSC)	Y
Francisco Melendez	Remarkable individual	-
Marius Snyman	Remarkable individual	Y
Markus Mirz	Remarkable individual	Y

Other members of the FIWARE Community present at the meeting		
Andrea	Individual - Martel Innovate	Y
Germán Molina	HOPU (Gold Member)	-
Angelo Marguglio	ENGINEERING	-
Andres Muñoz	UPM	Y
Sonsoles López Pernas	UPM	Y
Martino Maggio	Engineering - GE Owner (Idra)	-
Har Preet Singh	FIWARE Foundation	Y
Benjamin Hebgen	NEC - Scorpio	-
Benoit Orihuela	EGM	-
Ken Zangelin	FIWARE Foundation	Y
Masahide Matsumoto	Individual	Y
Roberto Castillo	Atos	-
Gernot Boege	FIWARE Foundation	Y
Peter Detzner	Fraunhofer IML	-
Dennis Wendland	FIWARE Foundation	Y
Alejandro Pozo Huertas	UPM	-
Stefan Wiedemann	FIWARE Foundation	Y

Proposed agenda topics

Following is a list of proposed agenda topics to be covered during the meeting:

- Follow-up on progress of components
- Relevant recent and upcoming events
- Action Points from previous follow-ups
- Reminder on agenda of topics to be followed up in upcoming FIWARE TSCs
- AOB

Addressed topics

Follow-up on components

Please upload presentations to the following [shared folder](#).

Cygnus

Link to [presentation](#).

Notes:

Update were made regarding support to NGSI-LD. Juanjo reminded that Ken explained in the last TSC that a new functionality was implemented in Orion-LD enabling subscribers to receive those notifications in NGSIv2 format. Therefore, it should be feasible to connect Orion-LD to Cygnus following such an approach to take advantage of data sinks different from the ones for PostgreSQL, Postgis and CKAN.

Cosmos

Link to [presentation](#):

Notes:

During the presentation, discussion about status of tutorials took place. The Tutorials for integration of NGSIv2 with Spark through Cosmos are ready so an **AP** was defined on Jason and Sonsoles to work on getting them incorporated to the set of Step-by-Step tutorials for NGSIv2. In addition, UPM agreed to start developing the step-by-step tutorial for NGSI-LD, FIWARE Foundation would bring support (**AP** on Rihab to contact Sonsoles).

Jason asked whether UPM could fulfill the form to gain the [Linux Foundation CII Best Practices Badge](#). **AP** on UPM to look into that.

Draco

Link to [presentation](#):

Notes:

Andrés elaborated on the idea of using Draco not only to transfer the stream of historic context data into multiple data sinks but also for development of NGSI system adapters.

AP on UPM to make NGSIv2/NGSI-LD connectors available within the NIFI Community. Support to NGSI-LD will be ready for the upcoming FIWARE Release, covering data connection to PostgreSQL and CKAN. Tutorials will be developed for them.

QuantumLeap

Link to [presentation](#).

Notes:

Discussion took place regarding how to manage entity relationships in a temporal series and whether the system is expected to be able to retrieve the graph of all entities with their state at any given timestamp. It was clarified that in NGSI-LD, attributes linked to relationships are handled as any other attribute and the system is only expected to return status at entity level, i.e., what are the values of attributes of a given entity at a given timestamp. Re-constructing the graph with the state of all entities in a given timestamp is left to applications.

Relevant recent and upcoming events/meetings

Great [FIWARE Smart Agrifood Day](#) on November 12th with good attendance. Very relevant presentations from EC officers with regards to strategy on IT within the EU Horizon 2020 program. Yalew Kidane from KAIST made a presentation on the Olliot EPCIS Mediation Gateway.

Please promote upcoming and past Smart Days. You can check recordings and slides from previous [Smart Days](#) here.

A detailed report was not given at the meeting but added here in the minutes for the sake of completeness: a FIWARE track took place during the [ROSWorld 2020 event](#) on November 12th. This event is the major annual event of the ROS Community. Good attendance of about 70-80 people. Micro-ROS related components were presented as well as [overall perspective on FIWARE and robotics](#), with a more detailed presentation on positioning of FIWARE in robotics-based agile production.

FIWARE Foundation will be present as Platinum Sponsor at the [International Fair on Smart Destinations](#) organized November 20th-29th as on-line event with strong involvement of the FIWARE iHub in Argentina. A [hackatour](#) has been organized around FIWARE Context Broker technology.

Some interesting [FIWARE Tech webinars](#) are taking place during the rest of November.

Take a look!

Background info:

Always keep in mind next [FIWARE Tech webinars](#) and advertise! A complete set of events are available on the [FIWARE events webpage](#).

Upcoming events (members are welcome to add more entries):

- [ROSWorld 2020 event](#) on November 12th.
- [Precision Farming Using FIWARE Smart Data Models](#) for Agrifood
- [FIWARE Industry Day](#) November 26th.
- [International Fair on Smart Destinations](#) November 20th-29th with [FIWARE hackatour](#).
- [Hannover-Messe Industry \(HMI\) fair](#) on April 12-16, 2021 (physical)

The FIWARE Foundation will have a presence with a booth at the HMI. People interested to be present at our booth please contact the FF marketing team.

Action Points from previous follow-ups

We didn't have time to review pending action points but they are included here for reference. Caretakers of the different action points are invited to update the status if a change on status has taken place.

Description	Caretaker(s)	Status
Report on current discussions regarding public and royalty-free availability of TM Forum Open APIs.	Ficodes	Meeting with TMForum took place on Wednesday Oct 28th but they indicated they need to double-check. APIs are Apache 2.0 license but implementation FRAND. Worst case we can develop an open source implementation.
FIWARE Foundation to kick-off the activities towards creation of curated Global Data Publication and Trading instance.	FIWARE Foundation	Progressing slowly. Still not at a level of maturity to bring at the TSC.
NEC are asked to provide feedback on the topics raised by Fermin during the call regarding some of the PRs active on some components of the IoT Agent library and components (see slides): 1. For Feature 752 : – We have raised the PR 780 and are working on the review comments on this. 2. PR 410 - There were 2 trivial comments,	NEC	PR 780 – Target to complete by end of October. → completion target: 24th November PR 410 – Target to complete by end of

we will incorporate them).		October. → completed
Telefónica to review PRs connected to support of NGSI-LD in the IoT Agent library. PR 849 , PR 854	Telefónica	A meeting for resolution of this PRs with a mediator (Franck) was called. No response yet but FF has had conversations with Telefónica which promised to give a response.
FICodes to check pending PR #330 on Perseo and see how current divergency in documentation can be solved.	FICodes	FICodes covered pending points and now pending final review (some comments still pending to be addressed formulated by Jason Fox). Expected to be closed soon. Francisco will double-check.
Data usage control support for Cosmos Spark connector	UPM	In progress. Planned for next release. Still ongoing.
Updates of Roadmaps on GitHub for OpenMTC, FIROS, APInf	Corresponding GE owners	Still pending. FIROS made a very small update but needs to be improved.
SOSS (ROS2 ↔ NGSI gateway) as incubated FIWARE GE	eProxima, FF	Working with the eProxima team with regards to SOSS. Will be tackled under the umbrella of the Robotics Tech Roadmap WG

Agenda of topics to be followed up in upcoming FIWARE TSCs

Check the contents of the next TSC considering the 8-week standard calendar below (background info). The TSC of September 7th matched “week 1”.

Background info:

In general, based on the content of today's call and the 8-week standard calendar below, you can derive the topics of the next TSCs.

A [folder](#) for exchange of working documents and minutes regarding the working groups has been created. Important: caretakers of each WG will be in charge of fine-tuning access privileges to their corresponding folder. We should allow anyone on the Internet to be able to find and view.

As per agreement taken in the TSC of June 3, the following 8-week calendar will be followed periodically:

- **Week 1:** Follow-up on progress of Core Context Management components part I (Status on ETSI NGSI/NGSI-LD standardization activities, Smart Data Models activities and of the different Context Broker implementations: Orion/Orion-LD, Scorpio, Stellio) + eventually, roadmap discussion on support of Digital Twin and RAMI 4.0 Asset Administration Shell concepts
- **Week 2:** Follow-up on progress of Core Context Management components part II (Cygnus, Draco, QuantumLeap, Cosmos) + eventually, roadmap discussion on blockchain
- **Week 3:** Follow-up on progress of components for the Interface with IoT (IDAS, Open MTC) and 3rd systems (e.g. EPCIS gateway) + eventually, roadmap discussion on IoT evolution aspects (interface with WoT, edge computing,)
- **Week 4:** Follow-up on progress of Interface with robotics components (Fast RTPS, Micro XRCE DDS) + eventually, report on status of roadmap discussion on robotics
- **Week 5:** Follow-up on progress of Context processing components (Kurento, Perseo, FogFlow) + eventually, roadmap discussion on integration with AI services
- **Week 6:** Follow-up on progress of visualization components (Wirecloud, Knowage) + eventually, roadmap discussion on integration with blockchain/DL technologies
- **Week 7:** Publication and Monetization components (Idra, BAE, Marketplace, CKAN extensions) + eventually, roadmap discussion on Data Economy support
- **Week 8:** Follow-up on progress of Security and API Management components + roadmap discussion on Identity and Data Access/Usage control + eventually, discussion

on mapping of IDS Connector concepts

A common topic regarding follow-up of any of the FIWARE components will be that of:

- Evolution to support NGSI-LD
- Compliance with FIWARE Contribution Requirements
- Creation of Tutorials
- Creation of Webinars

Any Other Business

The meeting closed.