

- [1. Meeting Information](#)
- [2. Attendees](#)
- [3. Minute Taker \(optional\)](#)
- [4. Objective of the meeting](#)
- [5. Topics discussed and Agreements](#)
- [6. Summary of action points](#)
- [7. Main outcomes of the Bilateral Meetings](#)
 - [7.1 - Cloud & Tools](#)
 - [7.2 - Apps & Tools](#)
 - [7.3 - Security & Tools](#)
 - [7.4 - Data & IoT & Tools](#)
 - [7.5 - I2ND & Tools](#)
 - [7.5 - Testbed & Tools](#)
- [8. Reference documentation](#)

1. Meeting Information

Date/Time of the Meeting:	24/1/2012 - 26/1/2012
Inviting person:	
Minute taker:	All Wp9
Name of the meeting:	
Place of the meeting:	Madrid
Phone details (if PhC):	
Version	

2. Attendees

Name	Company / Organization
Matteo Melideo	Engineering
Davide Dalle Carbonare	Engineering
Paolo Fabriani	Engineering
Tim Jonischkat	UDE
Yosu Gorroñogoitia	ATOS
John Sandberg	Ericsson AB
Roosbeh Farahbod	SAP

3. Minute Taker (optional)

Meeting	Minute Taker	Date
WP9 meeting	All	24/01/2012

Next candidates (in order): ...

4. Objective of the meeting

Meeting folder: <mediawiki of each chapter>

Recap about the current status and bilateral meetings

5. Topics discussed and Agreements

Id	Topic
	Backlog Management Features will not be considered. User stories introduced in the Wiki are intended to last one month (one sprint) and are reported in the tracker. If we realize that a user story takes more than one month, we split the user story, but the new user stories will be recorded only in the tracker (pointing to the higher-level one), and not in the Wiki.
	Future Internet Application (FIAp) definition From the DoW: "An application that is based on APIs defined as part of GE Open Specifications." FIWARE framework should support the development of any sort of application/service compatible with FI Application definition. FI application definition should embrace the convergence of IoT, IoS, IoC, IoN and other FI technological pillars.
	Integration Environment Everything will be installed in one shared environment (excepting software that requires local installation, i.e. IDE). During the development phase, the catalogue

	will be hosted on the Ericsson cloud.
	M12 Deliverables Release a short document with the description of what has been implemented, the link to the source code (where source-code is available and it is applicable to provide access to), and the link to the working environment. If possible, include additional getting started guide (or user's guide). For software that requires local installation, provide software executable installation and installation guide.
	Catalogue One Catalogue (skip instance catalogue concept). The catalogue will initially be connected to the Testbed. It contains (items and relations of) • GE Open Specifications • GE Reference Implementations (e.g. java libraries etc aka "clients") • Reference to FI-WARE Instances (incl reference to Specific Enablers) Elaborate on a sustainable plan for maintenance of the Catalogue. Investigate if it makes sense to have a federation of catalogues and (automatic) replication of contents and in that case how to enable it.
	Deployment The deployment will be done on the IaaS and PaaS infrastructure offered by WP4. WP9 will take care of providing clients to API offered by WP4. ETICS role to be further Clarified OVF and RIF file templates provided by IBM to be studied.
	Change of priorities After the discussions we had with the various WP Chapters it has been decided to rearrange the priorities within WP9. The aspects concerning the deployment of FIAP are strategic to provide added value services.

6. Summary of action points

Id	Action point	Responsible
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AP-1	Think of what is a Future Internet Application from WP9 perspective. Deadline: 6th of February EoB	Contribution from ALL.
AP-2	Each partner should take care of updating its on part on the wiki and forges. Continuously	ALL
AP-3	Upload "Backlog entries examples by TID 11-08-09.xls" to the Tools Private Wiki Deadline: 31st of February EoB	ENG
AP-4	Identify possible solution for the deployment part of the IDE (T9.3), maybe in cooperation with WP4 Deadline: 4th of February EoB	EAB, ENG, UDE
AP-5	Review the overall architecture considering to have one single central Catalogue (no more FI-WARE Instance Catalogue). Deadline: 10th of February EoB	ALL
AP-6	Review the added value provided by the IDE and relative plug-ins. Deadline: 24th of February EoB	ALL
AP-7	Answer the questions on the Testbed WikiPage about TraceAnalyser, SoPeCo, PROSA and ETICS. Deadline: 1st February 2012	IBM, SAP USE and ENGINEERING

7. Main outcomes of the Bilateral Meetings

7.1 - Cloud & Tools

Attendees

Name	Company / Organization		Name	Company / Organization
Matteo Melideo	Engineering			

Davide Dalle Carbonare	Engineering			
Paolo Fabriani	Engineering			
Tim Jonischkat	UDE			
Yosu Gorroñogoitia	ATOS			
John Sandberg	Ericsson AB			
Roosbeh Farahbod	SAP			

WP4 and WP9 considered multi-tenancy as an assumption for all the GE Open Specifications (non necessarily implemented).

WP4 will offer IaaS and PaaS GEs.

The role of the catalogues and how the Cloud GEs should be used was discussed.

In addition, it was discussed if it would make sense to have the Cloud GEs exposed in the catalogues or just used directly in the IDE. There was also a discussion around when the provided cloud services will come into play; only at run-time or also during development time.

In the end, FI-WARE infrastructure provided by WP4 will be the default reference deployment environment for the Future Internet applications developed using FI-WARE IDE. It has been agreed that WP4 will provide the API to the IDE to manage the deployment phases while the WP9 will provide the GUI to interact with these (see AP-4). These APIs will also support the creation of new VMs into the Cloud infrastructure; the retrieval of the list of existing VMs (owned by the current user).

During the bilateral meeting two main deployment scenarios were defined:

- Fixed Configuration
 - Single VM
 - Composite (multiple VMs)
- Elastic Service
 - Self-scaling
 - Platform based scaling.

An opportunity considered is to offer, from within the IDE, the possibility to provide scaling rules patterns and to add a profiling systems using TraceAnalyser that allows to identify the optimal configuration for the auto-scaling rules.

The developer has to know in advance (during design time) if the application will be deployed in a cloud environment and will need support (e.g. load balancing, replication, fault tolerance). This information will be represented into the IDE at project level; the use of properties or facets will be investigated.

We discussed if there is a possible conflict between the IBM-IL Performance Analysis in WP4 tool and the Performance Analysis tool of WP9.3. It was clarified that IBM is **NOT** providing tools for FI-Application developer, so no duplication with WP9.3. The focus of IBM's PA is on run-time monitoring within the cloud infrastructure with the goal of improving resource allocation.

It was also discussed that WP9 should stay away from supporting GE "development" in the IDE. GE development is not even listed under 9.2, 9.3 in DOW.

Action Points:

WP4 should communicate the timeline for the GEs releases.

7.2 - Apps & Tools

Attendees

Name	Company / Organization		Name	Company / Organization
Matteo Melideo	Engineering			
Davide Dalle Carbonare	Engineering			
Paolo Fabriani	Engineering			
Tim Jonischkat	UDE			
Yosu Gorroñogoitia	ATOS			
John Sandberg	Ericsson AB			
Roosbeh Farahbod	SAP			

The first part of the meeting was to try to sync and understand each other. The role of the USDL and the role of the catalogue was clarified and we all agreed that they are not overlapping.

For WP9 the GEs released by WP3 are a set of APIs necessary to manage a service marketplace ecosystem where the services MUST be described using USDL. If the services are

not described using the USDL it will not be possible to exploit all the functionalities offered by the WP3 GEs.

FI Applications created through the IDE may expose services whose USDL descriptions will be generated (by their providers) using the corresponding Apps Service Ecosystem GEs, aiming at advertising them for further discovery and consumption.

The Deployment of the composite services is up to WP3.

The WP3 Generic Enablers will be considered as a complementary tool for the Wp9 IDE. The IDE will take care of Future Internet Application (FIAP) development based on the GEs available on Fi-WARE instances.

These FIAPs could also expose services that if described using USDL can be used, composed and managed using the WP3 GEs.

The catalogue will expose only the WP3 GE Open Specification, a link to the portal hosting the Apps Service Ecosystem and the related documentation for use.

Action Points:

WP9 to provide to WP3 a final decision about the deployment.

7.3 - Security & Tools

Attendees

Name	Company / Organization		Name	Company / Organization
Matteo Melideo	Engineering		Daniel Gidoïn	THALES
Davide Dalle Carbonare	Engineering		Pascal Bisson	THALES
Paolo Fabriani	Engineering			
Yosu Gorroñogoitia	ATOS			
John Sandberg	Ericsson AB			
Roosbeh Farahbod	SAP			

They offer 3 core Generic Enablers:

- Id Management (NSN)
- Context based Security & Compliance (ATOS)
- Data Handling (SAP)

Other Generic enablers are:

- Security Monitoring (THALES)
- Optional Security Service (THALES and SAP)
- Malware detection
- Database anonymization
- Secure storage

The *Id Management* GE will be ready by the first major release (M12).

An issue still to be further investigated are the dependencies of this GEs with the other GEs and how these affect the IDE and the development of FIAP.

Action Points:

- User Management + ID Management to be further discussed with Ericsson to try to see if there is an opportunity to converge using the WP8 solution → @ THALES to provide the right contact points
- Organize a PhC first week of February.

7.4 - Data & IoT & Tools

Attendees

Name	Company/ Organization		Name	Company/ Organization
Matteo Melideo	Engineering			
Davide Dalle Carbonare	Engineering			
Paolo Fabriani	Engineering			
John Sandberg	Ericsson AB			
Roosbeh Farahbod	SAP			

Data presented the Data Chapters tools from:

- Telefonica on Big Data management
 - engine module to be implemented according to the analysis to execute
 - client to be implemented (query, results format, ...)
- IBM on Complex Event Processing (CEP)
 - AMIT - Eclipse based programming interface
 - Proton - web based programming interface
- Thales on Location Server
 - the exposed protocol is MLP
 - no predefined clients
- Telecom on Context Management Service
 - Clients already available in different programming language
- Siemens on Query Broker, Metadata Processing Pipeline and Video stream classification.

The IBM GEs (in its current version AMIT) could be easily integrable into the IDE as it is provided as an Eclipse Plug-In.

WP9 will further discuss off-line with the various GEs responsible to check how to exploit these within the IDE other than in the Catalogue.

IoT presented the overall architecture of the Chapters showing the APIs that could be potentially exposed into the catalogue (i.e. ETSI M2M and NGSI).

WP9 asked them if IoT Chapter thought of API to allow the deployment into devices\sensors\actuators of Future Internet Applications or if it is possible to test and validate the Future Internet Application by simulating the behaviours of actuators and sensors in a virtual environment. → WP6 took a note to see if this can be handled.

FOSSTrack is an open source platform [www.fosstrack.org] exposing ETSI M2M interface. WP9 will together with Orange investigate if it makes sense to use it within the IDE and in that case how.

7.5 - I2ND & Tools

Attendees

Name	Company / Organization		Name	Company / Organization
Matteo Melideo	Engineering			
Davide Dalle Carbonare	Engineering			
Paolo Fabriani	Engineering			
Yosu Gorroñogoitia	ATOS			
John Sandberg	Ericsson AB			
Roozbeh Farahbod	SAP			

I2ND presented four Generic Enablers:

- CDI from Intel
- CloudProxy from Technicolor
- NetIC from AlcatelLucent
- S3C from Fraunhofer institute?

Two of these GEs could be of more value for the Tools; the CDI and the CloudProxy. (The other two are mainly targeted to large platform vendors and operators.)

For both of them there will be further off-line discussions to see how to possibly exploit these within the IDE.

Chris Wood (Intel) suggested to think of the IDE to provide a client for the CDI. WP9 will think of it and will come back on this point directly with Chris.

WP9 suggested to W7 to think about the possibility to offer the Future Internet Applications developers the opportunity to simulate the behaviours of their applications based on the network requirements they planned.

7.5 - Testbed & Tools

Attendees

Name	Company / Organization		Name	Company / Organization
Matteo Melideo	Engineering		Stefano De Panfilis	Engineering

Davide Dalle Carbonare	Engineering		Marika Stålnacke	Ericsson
Yosu Gorroñoigoitia	ATOS		Thorsten Sandfuchs	SAP
John Sandberg	Ericsson AB		Miguel Carrillo	Telefonica
Roozbeh Farahbod	SAP			

WP9 will provide the required information about SOPECO, TraceAnalyser and ETICS to the Testbed team by 3rd Feb 2012 at latest.

All the other data have been provided but may need to be updated once the dependencies with the other chapters are further clarified.

8. Reference documentation

- FI-WARE DoW:<url in FusionForge>