

### 1.1.1 WP12: Communication, Collaboration and Dissemination

The main goal of WP12 is to ensure the on-line dissemination of FI-WARE results, the availability of promotional material, the ideation and realization of high impact communication actions and the definition and execution of collaboration activities with other projects in the context of the FI-PPP and beyond.

The main progress in the WP12 comprises the following tasks:

- During this period, Dissemination has coped a main role due to the inauguration of the FI-LAB and the first Hackathons involving real-life developers.
- Because of the above a significant amount of efforts have been spent in generating a new branding of Fi-WARE, new website, a better organization of contents for external viewers, promotional materials, stands decoration, events presence, demos, etc.
- Additionally, the common efforts in WP12 regarding scientific technical papers, articles and press releases has been kept.

The main results of the WP12 are:

- New branding design, logo and slogans to be used in on-line and physical promotional material.
- New Web design and contents.
- Promotional material: wrist-bands, brochures, poster, RaspberryPIs with FI-WARE software and z-wave sensors pack (UK Campus Party).
- Stand in London UK Campus Party.
- Stand in Santander Hackathon.
- Contributions to scientific papers as detailed in the FI-WARE wiki (Communication section).

The main deviations in the WP12 are: none.

The main proposed corrective actions in the WP12 are: none.

#### 1.1.1.1 Task 12.1: Web Site and promotional material

The objective of this task 12.1 is to configure and maintain the FI-WARE web site to inform about the project latest news and results and provide promotional material in specific events.

The breakdown of the contribution of each partner in this task 12.1 is:

- 01-TID: The main progress has been to collaborate with OG1 in the new branding design, promotional material generation and stands design/decoration. The main results have been the new Website and promotional material described in the main section.

- 02-SAP: (received by e-mail)

- 42-OG1:

- Main Progress:

Website has been redesigned and adapted to the new FI-Ware Brand Identity and guidelines. Content and structure are still under further revision to include all related webs to ensure consistency, usability and therefore maximize web traffic and user engagement.

Promotional materials have been designed both for permanent use (roll-up's, posters, infographics...) and for specific use during FI-Lab launching event at Campus Party Europe (T-shirts, Sweaters and Wristbands).

- Main Result:

Visits to website and all parameters related to engagement (page views, session time, etc.) experimented significant progress related with previous period.

Materials were produced and were broadly distributed among the developers' community. Moreover they served as leverage for Social Media activity through a typical on-off marketing action via Twitter.

- Main Deviations:

The nature of the Website (built on WordPress) recommend to use an external expert in this platform to ensure website maintenance & availability, avoiding delays in content changing or creativity adaptations.

Budget for Off-line production is getting short to cover the forecoming events, namely: Smart Cities World Expo in Barcelona, ICT Session in Vilnius, Campus Party Brazil, CoC Event in Brussels, Campus Party EU 2014 in Madrid and FI-PPP General Assembly in Athens. Promotional material has showed key to target engagement and therefore should be accordingly granted with a bigger budget.

- Main Corrective Actions:

Word Press Maintenance & Technical tasks are covered from M31 onwards – expert already in place.

Budget reallocation underway without any impact in project total figures within Other Direct Cost chapter, to ensure project needs are covered until M36.

New split will be included officially in next DoW Ammendment shortly expected, with the pre-approval and supervision of the WPL.

#### 1.1.1.2 Task 12.2: Communication activities

The objective of this task 12.2 is to coordinate, manage and deliver FI-WARE related publication and communication activities in coordination with the PFS.

The breakdown of the contribution of each partner in this task 12.2 is:

- 01-TID: The main progress is related to the celebration of Hackathons and the inauguration of the FI-LAB. The main results are: FI-LAB inauguration by the commissioner Neelie Kroes and the London and Santander Hackathons.
- 02-SAP: received by e-mail.
- 14-ATOS: xxx.
- 27-RED.es:  
Red.es has been focused its efforts on the deployment of the physical infrastructure for FI-LAB. Once the deployment has been completed, Red.es will start some communication activities. Furthermore, Red.es is writing an article about FI-LAB and Fi-ware that will be published in the next RedIRIS technical magazine (Digital).
- 29-DFKI: In this period DFKI has not contributed significantly to this task.
- 31-EPROS: In this period EPROS has not contributed significantly to this task.
- 32-IMINDS: In this period iMinds has not contributed significantly to this task.
- 40-FNE:
  - Main progress:  
Until and including M29:
    - FNE supported AE3 in T12.2.4 through an intense social networking awareness campaign, focused on, but not limited to, the activities of the Campus Party Europe in London. FNE acted as a distributor of the key messages launched by OG1 and other partners (Telefónica, etc) in its own social media accounts, mailing lists and websites. These included the Campus Labs website (see <http://www.campus-labs.com/webapp/reto/ver/FIWARE?lang=en>), the Campus Party website (see [www.campus-party.org](http://www.campus-party.org)), the 300K registered users at the Campuse.ro mailing list, and reminders and invitations sent through the Campus Labs, Campus Party and Campus Party Europe's accounts in Twitter and Facebook.
    - Communication strategy for the FI-WARE Challenges in coordination with TID.
  - M29 onwards:
    - Preparation of Campus Party Brazil's diffusion activities for 2014.
    - Supporting TID w.r.t. the FI-WARE Challenge on Smart Cities.
    - Preparations for the communication of the remaining challenges.
  - Main results:
    - FI-WARE and CPE: Target audiences (developers and entrepreneurs) reached
    - FI-WARE and CPE: Massive response w.r.t. the invitations and reminders for the CPE hackathon (see Task 12.4's section)
    - Extensive diffusion of FI-WARE among the Campus Party community (attendees and non-attendees to the CPE), preparing the path for future Campus Party events.

- Communication strategy for the FI-WARE Challenges ready (to be reported in D12.5.1 M33)
- 41-AE3:
  - Main progress:
 

AE3 participated in T12.2.4 by engaging influencers and stakeholders in the “Campus Party Europe in London” event. This was performed by personal invitation and other means. From M29 onwards, AE3 also collaborates with FNE for engaging more influencers at the upcoming Campus Party Brazil event in 2014.
  - Main results:
 

Engagement of influencers and stakeholders at the Campus Party Europe in London (September 2013):

    - Four top UK Government Ministers & Officials – including Ed Vaizey (UK Minister for Culture, Communications and Creative Industries); Vince Cable (Secretary of State for Business, Innovation and Skills and President of the Board of Trade); and Nick Hurd (Conservative Member of Parliament)
    - A Vice President of the European Union – Neelie Kroes (European Commissioner for the Digital Agenda) and Máire Geoghegan-Quinn (European Commissioner for Research, Innovation and Science)
    - More than 50 universities from across Europe and 30 from the UK
    - 105 press outlets including broadcast and nationals signed up.
    - Think Big and Mozilla twice daily workshops on app creation “Make the Web”
  - Key campaigners: Jon “Maddog” Hall Twinterview, Nolan Bushnell Treasure Hunt, and David Rowan Kickstarter Investment.
- 42-OG1:
  - Main Progress:
 

A full new brand identity has been developed to be used in all communication channels.

Communication actions have been centered on FI-Ware owned media, specifically the blog and the Social Channels. Regarding the blog a continuous post production is in place reflecting, in the appropriate tone and language, the major milestones of the FI-Ware activity: news, events...

Social Channels have been readapted to the new Brand Identity. The ecosystem has been completed with Google+ account and a discussion group and company page in LinkedIn. Flickr and YouTube has been extensively used as containers for materials generated. Twitter is as of today the center of the social strategy for news and material dissemination.

During events, apart from live coverage, a bunch of audiovisual materials have been generated, including photographs, promotional videos and interviews with key stakeholders/influencers. These are scheduled to be used as curated content for engagement via all digital channels.

- Main Results:

The brand identity is fully integrated within the marketing mix, providing consistency to FI-Ware communication.

Social Channels are in continuous grow, both in number of followers/members and in engagement rates.

Audiovisual materials are produced and starting to pay-off.

- Main Deviations:

One-to-One communications were expected to play a key role in the project.

However, due to legal restrictions and to avoid any issues with privacy laws in the different EU countries we have decided to limit OG1 task to produce the communication materials for e-mailings and use 3<sup>rd</sup> Party Databases to spread the message to, leaving the actual sending process to the respective Database owners. Therefore a significant budget within Other Direct Costs is free to be reallocated to other suitable concepts.

The On-line Conversation Screening expected to happen in September was delayed 1 month due to project priorities. This is a key element of the Social Strategy, especially in which concerns to digital PR (influencers, bloggers, forums, etc).

Volume of audiovisual materials is much larger than expected and is proven to be a valuable asset for FI-Ware communication and dissemination. Professional post-production is needed to be included in the project to ensure reasonable time-to-market of generated materials.

- Main Corrective Actions:

Budget allocated to Direct Marketing is to be transferred to other concepts (Off-line Production, Digital Production) to better meet project requirements. This is being supervised by the WPL and will be officially included in the next DoW amendment. On-line Conversation Screening is about to end. Results are expected to be available by next November 5<sup>th</sup>. A Digital PR plan will follow shortly after and shared with the FI-Ware Consortium.

Post-Production resources for audiovisual material are on-board and will be allocated to the new Digital Production chapter within the Other Direct Costs, without impacting the total figures in any manner.

#### 1.1.1.3 Task 12.3: Collaboration activities

The objective of this task 12.3 is to take care of the collaboration with other relevant initiatives and projects considering three main axes: ICT projects, other FI initiatives and the projects under the FI-PPP umbrella.

The breakdown of the contribution of each partner in this task 12.3 is:

- 01-TID: The main focus of this task has been to participate in different FI-PPP events and the collaboration with FIRE initiatives, such as AMPLIFIRE.
- 02-SAP: received by e-mail.
- 03-IBM-IL: xxx.
  - IBM supports FI-SPACE with the use of the CEP GE (WP6), and few issues in the CEP GE were fixed as a result of interlock with FI-SPACE.
  - IBM is actively collaborating with XiFi partners, on details of leveraging cloud infrastructure capabilities provided by DCRM GE, across XiFi nodes.
- 05-THALES: not in this task.
- 06-TI:
  - TI contributed to maintain the liaison between EIT ICT Labs in Italy (Trento and FI-WARE, in view of setting new ICT Labs projects starting the next year which could exploit the FI-LAB platform.
  - TI is supporting the cooperation with the *webinos* project, whose platform is adopted in the development of CDI Generic Enabler (WP7).
  - TI is also collaborating with the 4CaaS project in the adoption of FI-WARE's Publish/Subscribe Context Awareness Platform GE (WP6) as a prototype for the 4CaaS Context Management System, while its specifications and interfaces, especially NGSI, have been taken as reference specification for the evolution of the Publish/Subscribe functionality in 4CaaS.
  - TI contributed to the collaboration with the XiFi project, by providing the support for proper preliminary inclusion of enablers (in particular the Publish/Subscribe Context Broker and Semantic Annotation) within the XiFi nodes.
- 14-ATOS: xxx.
- 15-E-IIS:
  - Being ENG present in three out of five Use Case projects of Phase 2 the Engineering team in FI-WARE was responsible for the continuous alignment between Use Cases and FI-WARE messages to keep them consistent and complementary in front of the wider audience.
  - ENG also participated to most of the Use Case projects kick-off meetings to provide at those meetings the effectiveness of what FI-WARE is achieving at aiming at.
  - ENG contributed to maintain the liaison between EIT ICT Labs central offices and the FI-PPP as a whole and FI-WARE in particular to close the clear gap between the two important initiatives. This resulted in having EIT ICT Labs participating in the discussion of long lasting sustainability of the FI-PPP and FI-WARE technologies in particular.
  - ENG contributed to keep the liaison between EIT ICT Labs in Italy (Trento) and FI-WARE, in view of setting new ICT Labs projects starting the next year which could exploit the FI-LAB platform.

- 28-ZHAW:

ZHAW has set up a collaboration with Equinix Datacenters, in which we created a project sponsored by Equinix to set up and promote FI-WARE technology in their Zurich Datacenter.

In addition ZHAW is coordinator of the Openstack User Group Switzerland and has created and is chairing the Cloud Computing special interest group within the Swiss informatics society, in which we promoted FI-WARE technologies.

- 29-DFKI:

With respect to WP13 DFKI has collaborated significantly with FITMAN and FI-Content, which have shown significant interest in the WP13 GEs (all of the WP13 GEs originated in FI-Content). Further collaboration took place with the ICT projects VERVE (which is now using WP13 technology), SocialSensor where WP13 technology is being used for visualization purposes, and SCENE where the use has been discussed.

Recently, the new ICT projects DreamSpace, InterAct, and OSMOSE are strongly considering using WP13 technology. At the national level, both the KIARA middleware and the Web UI are strongly considered in the German BMBF project ARVIDA, to which DFKI contributed.

DFKI is further using WP13 GEs in many of its other projects, particularly with industry, as in the "M Plan3D" project with Daimler, the GUIDED-AB project in the Industry-4.0 context on autonomous buildings, a new project with Realtime Technologies (RTT), and several others.

On the research side DFKI is using WP13 technology extensively in many internal and external research project, including in particular the new Software Integration Platform (SIP) of the German Excellence Cluster on "Multimodal Computing and Interaction" in Saarbrücken and the German Software Cluster on Enterprise Software.

- 30-USAAR-CISPA:

CISPA has collaborated with the German Excellence Cluster regarding the security architecture of the KIARA middleware. Recently, it has contributed KIARA as a core asset for the proposal for a large DFG Collaborative Research Project (DFG Sonderforschungsbereich, SFB), where KIARA should be used and extended to specifically address privacy issues.

- 32-IMINDS:

- iMinds has started collaborating with DT on the development of business calculator models as opposed to existing excel based models.
- iMinds is actively interacting in a Flemish SWIFT project, where a business model and full TCO estimation model is constructed for a novel smart-grid windmill solution.

- 38-URJC:

- Main progresses: URJC is contributing to collaboration activities by using meetings and events for establishing contacts with other FP7/FI-PP projects and initiatives.

- Main results:
  - Contacts for requirements capture with FI-CONTENT2 project.
  - Contacts for establishing cooperation with NUBOMEDIA project (Stream Call 11).
- Main deviations: No clear strategy and objectives have been established for collaboration activities within URJC.
- Main proposed corrective action: Refine strategy so that clear objectives of cooperation activities are defined.
- 39-NAEVATEC:
  - Main progresses: Naevatec is contributing to collaboration activities by using meetings and events for establishing contacts with other FP7/FI-PP projects and initiatives.
  - Main results:
    - Contacts for requirements capture with FI-CONTENT2 project.
    - Contacts for establishing cooperation with NUBOMEDIA project (Stream Call 11).
  - Main deviations: No clear strategy and objectives have been established for collaboration activities within Naevatec.
  - Main proposed corrective action: Refine strategy so that clear objectives of cooperation activities are defined.

#### 1.1.1.4 Task 12.4: Dissemination Activities

The objective of this task 12.4 is to contribute to influencing the broader community and foster the adoption of FI-WARE results.

The breakdown of the contribution of each partner in this task 12.4 is:

- 01-TID: The main focus has been to generate material for beginners on how to start with FI-LAB and FI-WARE GEs. The main results are the Tutorials provided in the London and Santander Hackathons. Additionally, a lot of dissemination activities connected with the Fi-LAB inauguration have been performed.
- 02-SAP: received by e-mail.
- 03-IBM-IL:
  - A workshop concerning the FI-LAB cloud was coordinated and presented at the London Campus Party Event.
  - Tutorial videos and webinars about the cloud chapter have been produced, presented, and uploaded for online fruition on the FI-WARE educational site as well as on the FI-LAB homepage.
  - A paper on adaptive over-provisioning of cloud resources (a feature of the FI-WARE DCRM component) has been submitted to the IC2E 2014



conference.

- IBM's contributions to OpenStack (which is the foundation of DCRM GE implementation) have been presented at multiple developer events dedicated to OpenStack ecosystem
- 05-THALES:
  - Thales Services did perform during the period a number of Dissemination activities:
    - Dissemination towards FP7 ICT Projects. Especially PoSecco and OPTET (Operation Trust and Trustworthiness Enabling technologies) that Thales is leading;
    - Dissemination within Thales (Meeting with Head of DSC Advance Studies)
    - Dissemination towards FI-PPP Phase II Projects (Use Case Projects and XIFI)
    - Dissemination towards EIT-ICT Labs through participation to French node Steering Board
    - Dissemination within the context of FI-PPP Roadshow for Phase 3 (Paris, Eindhoven)
    - Dissemination towards SMEs (within the context of FI-PPP Liaison Project 2013).
  - TRT UK:
    - participated at the Campus Party event to support the FI-WARE Security activities
    - held webinars with the Use Case projects for the Content Based Security GE
- 06-TI:
  - TI contributed to a presentation at the Future Networks and Mobile Summit 2013, in conjunction with UNIROMA1 and ALU-I.
  - TI attended the Campus Party Event by contributing to the project initiatives taking place during the event.
- 07-FT: (1,18 PM)

Orange contributed in dissemination activities especially through interactions with the French Competitiveness clusters:

  - Secured Communications Solutions: presentations were done in June during the conference related to the Smart Specialisation Area M2M. This conference was the opportunity to introduce FI-Ware architecture on IoT and Big Data, announcing the launch of FI-Lab in September and inviting the Competitiveness Cluster to join the FI-PPP through call 3 published end of June 2013.
    - Additional exchanges happened in July 2013 and September 2013, in relationship with the Region Provence Alpes Côte d'Azur in Marseille (12/07/2013, 23/07/2013)

- Another presentation was done at the OCOVA conference in GAP the 10th of September especially providing more details on FI-Lab available for French SMEs.
- Systematics and Cap Digital (Competitiveness Clusters in Paris)  
Presentation was done at Future en Seine to explain FI-Ware architecture, FI-Lab and how both will support phase 3. This presentation included, in relationships with EC representative, explanation of the objectives of FI-PPP phase 3 and what could be SMEs projects.
- Images & Réseaux (Network and Content)  
Presentations were done in July and September for SMEs involved in the Competitiveness Cluster ecosystem to prepare phase 3 and invite the cluster to compete to the new call

Based on contacts linked during Future En Seine in June in Paris, Orange was invited by the Wallonia NCP to a specific presentation both Fi-Ware and Call 3 for SMEs in Namur on September, 17th 2013.

- 09-NSN-H: Contribution to and presentation of I2ND –NetIC webinars (Release 2) in June 2013. No deviation from plan.
- 11-DT: Regarding dissemination DT focused on scientific conferences. Together with Technical University of Berlin, papers were submitted and presented. The papers and presentations were based on the results from the workpackage WP7 activities:
  - 2nd International Conference on Information Technology , E-Government and Applications (ICITEA 2013), “Citizen-centric Smart Cities: M-Technology for realizing Smart Participatory Urban Sensing”
  - IEEE 2nd International Conference on Mobile Services (MS 2013), “Positioning Enabler for realizing location-based community services”
  - Future Networks & Mobile Summit 2013, “A new meta-model for Future Internet architectures”

Together with the XIFI-project and Fraunhofer Gesellschaft, it is planned to have a show case in November during the FUSECO-Forum

([http://www.fokus.fraunhofer.de/en/fokus\\_events/ngni/fuseco\\_forum\\_2013/index.html](http://www.fokus.fraunhofer.de/en/fokus_events/ngni/fuseco_forum_2013/index.html)).

More details – e.g. authors, etc. – are listed in the project Wiki.

- 12-TRDF: received by e-mail.
- 14-ATOS: xxx.
- 15-E-IIS:
  - ENG acted as a key presenter about FI-WARE in many of the Phase 3 information days starting from Dublin at FIA and till the last one in Brussels.
- 16-ALU-I: For the considered period the following main activities are reported
  - Contribute to the paper "A Common Open Interface to Programmatically

Control and Supervise Open Networks in the Future Internet” presented at Future Network and Mobile Summit 2013 in conjunction with UNIROMA1 and TI.

- Contribute and presentation of I2ND –NetIC webinars (Release 2) in June 2013.
- 17-ALU-D: Contribution to and presentation of I2ND –NetIC webinars (Release 2) in June 2013. No deviation from plan.
- 18-SIEMENS: In the reporting period, Siemens prepared a publication on an enhancement for the object detection feature of the Compressed Domain Video Analysis GE. The publication is planned to be submitted to the 2014 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP).
- 19-INTEL: Regarding dissemination of FI-WARE in this period Intel has:
- Prepared and delivered five GE webinars to the public (on Object Storage, DCRM and CDI GEs)
- Prepared and delivered presentations on both OCCI and CDMI at the Campus Party Workshop in London
- Presented FI-WARE OCCI and CDMI developments at FIA Dublin
- Prepared an ObjectStorage youtube video to introduce the Object Storage GE
- Presented “Interoperability and APIs in OpenStack” at EGI/ETSI Cloud Plug Fest, Madrid, Spain highlighting FI-WARE progress in OCCI and CDMI
- Submitted and presented workshop paper “Towards Standardised SLAs” for inclusion in proceeds of “Dependability and Interoperability in Heterogeneous Clouds (DIHC)” workshop at EuroPar 2013 featuring FI-WARE progress in OCCI, CDMI and SLAware
- Participated in ETSI Cloud Standards Coordination effort, drafting various sections of the final report including the infrastructure perspective, ensuring progress in OCCI, CDMI and SLAware was considered by the team
- Participated in ISO/IEC/ITU-T SC38 drafting of new cloud standards in Cloud Vocabulary and Reference Architecture, incorporating learnings from projects including FI-WARE
- 20-NEC:
  - Organization of Webinar introducing the IoT Broker GE to the FI-PPP community
  - Creation of course about the IoT Broker GE for the FI-WARE e-learning platform
  - Participation in the preparation of the FI-WARE Campus Party activity
- 21-FRAUNHOFER:
  - ... participated in the preparation and presentation of webinars for the CDI and S3C GEs
  - ... participated at the Campus Party event in London
- 22-INRIA:

- A webinar has been organized to introduce the Job Scheduler GE;
- Standardization effort for the Android Flow Monitoring Optional Security Enabler has progressed with a new revision of the Internet Draft, which has been presented to the IPFIX and NMRG groups;
- Two scientific papers and one journal article have been published (papers presented at IM'13 and CNSM'13, article published in IEEE Communications Surveys and Tutorials), in the context of the Android Vulnerability Assessment component of the Security Monitoring GE
- **23-UPM: xxx.**
- **24-UDE:** UDE has participated in the Campus Party event in London. Moreover, Prof. Klaus Pohl from UDE gave two keynotes where FI-WARE was presented: (1) at the 25th International Conference on Advanced Information Systems Engineering (CAISE'13), June 17-21 2013, Valencia, Spain. (2) at the Seventh IEEE International Conference on Research Challenges in Information Science (RCIS'13), May 29-31 2013, Paris, France, No deviations.
- **25-UNIROMA1: PUBBLICATIONS**
  - F. Delli Priscoli, L. Fogliati, A. Palo, A. Pietrabissa, V. Suraci, "Dynamic Class of Service Mapping for Quality of Experience Control in Future Networks", submitted to World Telecommunication Congress 2014, Berlin, Germany, 1 – 3 June 2014.
  - P. Garino, A. Palo, A. Simeoni, V. Suraci, L. Zuccaro, "Future Internet Architecture: the Connected Device Interface", submitted to World Telecommunication Congress 2014, Berlin, Germany, 1 – 3 June 2014.
  - C. Bruni, F. Delli Priscoli, G. Koch, A. Palo, A. Pietrabissa, "Quality of Experience provision in the Future Internet: an optimal approach", submitted to IEEE Systems Journal, Special Issue on Cognitive-inspired Network Systems.

**MS and BS THESES** The following Master theses (MS theses) and Bachelor theses (BS theses), all relevant to FI-WARE topics and all performed under the supervision of the University of Rome personnel involved in FI-WARE, have been, or going to be discussed at the University of Rome "La Sapienza":

- Valerio Di Matteo, "Design e implementazione di un Access Control List in un Web Server", BS thesis, October 2013;
- Federico Cimorelli, "Design e implementazione di una libreria Android per il controllo delle reti Openflow", MS thesis, March 2014.

#### **UNIROMA1 Research Grant related to Fi-ware**

- Guido Oddi is designing and implementing algorithms for the network resource management in the framework of the Future Internet, with particular focus on QoS and QoE measurement and control. He disseminated the concept and the objectives of the Future Internet in the context of the course "Controllo e gestione delle reti" ("Network Control and Management"), taught at the "Università degli studi eCampus".

### **UNIROMA1 Ph.D. CANDIDATES going to defend PhD theses related to Fi-ware**

- Andi Palo, in the third year of the Ph.D. studies, is concluding his work on Future Networks and Intelligent Connectivity as Enablers of the QoE in the Future Internet.
- Martina Panfili, in the third year of the Ph.D. studies, is concluding her work on Networks Resource Management, with particular attention to QoE measure and management.

### **UNIROMA1 COURSES**

- Ad hoc lessons and seminars, relevant to FI-WARE, performed by the University of Rome personnel involved in FI-WARE, in the framework of the courses "Network Control and Handling I" and "Network Control and Handling II" taught at the University of Rome "La Sapienza"

### **UNIROMA1 INSTRUCTION Guide AT OPENFLOW WIKI**

- The following page is a detailed step by step guide for the installation from source code of the kernel implementation of the Openflow switch in embedded devices with DD-WRT operating system.  
[http://archive.openflow.org/wk/index.php/UoR\\_:Openflow\\_Kernel\\_space\\_on\\_DD-WRT](http://archive.openflow.org/wk/index.php/UoR_:Openflow_Kernel_space_on_DD-WRT)

- 26-UNIS:

- main progress: introducing and publishing a new GEi. GE Webinars for developers. Participation in IoT Week 2013 in Helsinki, and Campus Party in London.
- main result: Backend ConfMan GE implementation for UNIS has been added to the FIWARE catalogue, with the supporting manuals.
- main deviation: none
- main proposed corrective action: none

- 27-RED.es:

Red.es has underspent in this activity because most of the manpower and the available funds will be spent when a FI-WARE event is organized. This is due to happen during the next semester. There are some ideas about doing a distributed event in several cities (Sevilla, Canarias Island and Malaga), which would imply more coordination effort.

Also Red.es is looking to create a working work in the Spanish Research community which has as a main goal show the Fi-LAB capabilities and how the Universities and Research Center can deploy their future services.

- 28-ZHAW:

ZHAW has contributed to several dissemination activities related to FI-WARE. This includes but is not limited to:

- Campus Party London: Organizing and running the Advance WebUI workshop

- Bachelor Thesis of Philipp Aeschlimann on “QoS in SDN for the KIARA middleware”
- 4th European Summit on the Future Internet: Panel Discussion “Thoughts on Future Internet”
- First (still ongoing) work on integration of FI-WARE technologies in the curriculum and course material of an elective course on Cloud Computing at ZHAW
- 29-DFKI:
 

DFKI has contributed to various dissemination activities related to FI-WARE and specifically to WP13. In particular this includes, but is not limited to, the following activities:

  - CeBIT 2013: The Display as a Service (DaaS) GE received the CeBIT Innovation Award 2013 at the large opening ceremony of CeBIT from the German Minister of Research and Education (BMBF). DaaS was also exhibited on the main BMBF booth and received significant media attention. On the same booth, which as dedicated mainly to Industry-4.0 (FoF), DFKI, CISPA, and EPROS presented the KIARA middleware architecture as a secure middleware for Industry-4.0/FoF applications.
  - Web3D 2013: DFKI published 4 papers regarding the Web UI GEs at this conference, which is the key conference regarding 3D on the Web. A special event was organized at this conference also regarding the standardization of XML3D at the W3C through the “Declarative 3D on the Web” Community Group.
  - Siggraph 2013: DFKI participate at several events promoting WP13 technology, particularly XML3D.
  - DFKI (Prof. Slusallek) gave the keynote presentation and showed demos of the DaaS GE at the OVAB 2013 conference, the main Digital Signage conference in Germany.
  - DFKI is co-chairing and regularly participated in dissemination activities of the “Declarative 3D for the Web” Community Group within the W3C.
  - Since CeBIT 2013 DFKI has done more than 30 demos to companies interested in Display as a Service, including big players such as Intel, Samsung, LG, Barco, and many others. Several direct industry projects have been started as the result of this.
- 30-USAAR-CISPA:
 

CISPA contributed significantly to the CeBIT 2013 presentation at the BMBF booth on Industry-4.0, which was focused on security aspects. The FI-WARE WP13 technology has also been presented within several security conferences and meetings, including a high-profile steering group meeting on “Security in Industry-4.0” organized by the German Ministry for Research and Education (BMBF) in September in Bonn.

- 31-EPROS:

- EPROS contributed to the CeBIT 2013 presentation at the BMBF booth on Industry-4.0, presenting the advanced middleware (WP13) as a solution for INDUSTRY 4.0 (<http://www.eprosima.com/index.php/en/company-all/news/20-eprosima-at-cebit-2013-the-middleware-for-industry-4-0>)
  - EPROS has been showing and demonstrating the advantages of the FI-WARE advanced middleware in MIP ( <https://mipsite.lsec.dnd.ca>), an interoperability organization for command and control systems with the participation of 27 countries.
  - EPROS has presented FI-WARE Advanced Middleware in the OMG Berlin event (<http://www.eprosima.com/index.php/en/company-all/news/21-eprosima-at-omg-technical-meeting-june-2013-berlin>)
- 32-IMINDS:
  - iMinds is pushing the information on the business calculations and its specifications to dissemination through new lectures and courses. The main elements of modeling and simulation has been added to the content of our courses.
  - iMinds has several Master thesises in which the business calculations are to be used in more detail:
    - Master thesis: What is a suitable BM for a CDN provider?, Ghent University, tbd, 2013-2014
    - Master thesis: ““Conflicterende belangen bij on-shore windmolenparken <dutch> - Conflicting interests in on-shore windmills <english>”, Alex Degrootte, 2013-2014
  - iMinds is preparing a paper positioning their work in FiWare and explaining the relevance in a broader context. This paper will be submitted begin 2014.
- 34-PLAYSIGN: Playsign contributed to preparing and running the Advanced Web UI workshop at Campus Party London.
- 35-LUDOCRAFT: Taking part of dissemination activities planning in the WP13 Winterthur kick-off meeting, in weekly telcos and head-to-head meetings of the Oulu-based WP13 developers.
- 36-ADMINO: xxx.
- 37-CYBER: Main progress and results;
  - Common meetings and information sharing in Zurich (kick-off), and Campus Party London
  - Co-operation with Fi-Ware streaming GE and IoT people started to push WP13 work to be compatible with their implementation
  - Cyberlightning public press releases
  - Contribution to EU Fi-Ware wiki

- 38-URJC:
  - Main progresses: URJC has actively contributed to dissemination activities by participating on the mayor events of the project and by generating scientific and technical publications on conferences and workshops.
  - Main results:
    - Active participation on the London Campus Party
    - Active participation on the FI-WARE Smart City event at Santander.
    - Paper and oral presentation at the IEEE WoWMoM 2013. The Fourteenth International Symposium on a World of Wireless, Mobile and Multimedia Networks.
    - Paper and oral presentation at the 2013 17th International Conference on Intelligence in Next Generation Networks
  - Main deviations: No significant deviations have been detected with respect to DoW planning.
  - Main proposed corrective action: No corrective actions have been considered necessary.
  
- 39-NAEVATEC:
  - Main progresses: Naevatec has actively contributed to dissemination activities by participating on the mayor events of the project and by generating scientific and technical publications.
  - Main results:
    - Active participation on the London Campus Party
    - Active participation on the FI-WARE Smart City event at Santander.
    - Paper and oral presentation at the IEEE WoWMoM 2013. The Fourteenth International Symposium on a World of Wireless, Mobile and Multimedia Networks.
    - Paper and oral presentation at the 2013 17th International Conference on Intelligence in Next Generation Networks
  - Main deviations: No significant deviations have been detected with respect to DoW planning.
  - Main proposed corrective action: No corrective actions have been considered necessary.
  
- 40-FNE:
  - Main progress:
 

Until and including M29:

    - FNE took part in the coordination activities for the Campus Party Europe in London, with great focus on the organization and subsequent reporting of the workshops on one hand, and on the organization and subsequent reporting of the hackathon on the other. Please see D12.4.1 and <http://www.campus-party.eu/2013/workshops.html> for details.



- Strategy for the FI-WARE Challenges: jury, timeplan, prizes, themes etc in conjunction with TID and NLnet.

M29 onwards:

- Preparation of Campus Party Brazil (2014) in full.
- Continuing with the definition of the Challenges' strategy

○ Main results:

- Practical approach towards FI-WARE at the CPE in London. Real hands-on contact with the developers' communities.
- Three different workshops performed at the CPE in London. Extensive coverage of very diverse types of FI-WARE GEs and technologies. All workshops very fully booked in advance.
- CPE Hackathon in London very successful (around 20 ideas were presented, covering many different themes, from tourism to IoT and advertising). 20K€ in prizes distributed to participants from all over the EU.
- CPE in London, encouraging result: The participants did this with just three workshops and no previous experience whatsoever with FI-WARE, which proved very encouraging for the consortium and the representatives of the EC.
- Clearer structure and strategy for the FI-WARE Challenges (to be reported in D12.5.1 M33)

○ Main deviation:

Not a deviation but FNE would like to point out that the majority of their work will be carried out in the following 6 months, as indicated in the Annex A. This is the reason why efforts and personnel costs appear to be less than 50% of the total at this point.

- 41-AE3:

○ Main progress:

Until and including M29: AE3 took part in FI-WARE's coordination activities for the Campus Party Europe in London, with great focus on the organization and subsequent reporting of the different sessions held inside the O2, including the FI-WARE opening; but also w.r.t. the project's branding inside the event.

Please see D12.4.1 and

[http://www.campus-party.eu/2013/Whats\\_on\\_at\\_Campus\\_Party.html](http://www.campus-party.eu/2013/Whats_on_at_Campus_Party.html) for details.

○ Main results:

- Institutional approach towards FI-WARE at the CPE in London. Contact with policy makers, European Commission, Governments.
- CPE in London: FI-WARE's and CPE's single opening conference at the main stage. Half a thousand campuseros attending. Speakers included Commissioner Mrs Neelie Kroes, Carlos Domingo, Director of Product Development and Innovation at Telefonica

Digital and Executive President of Telefónica R&D, Luis Ivan Cuende (young entrepreneur and winner of HackNow contest in 2011) and Deborah Rippol (Startup Weekend).

- CPE in London: Two more sessions at the developers' stage, including a round table focused on Smart Cities and Open APIs.
  - Extensive branding of FI-WARE during the CPE in London. FI-WARE "everywhere".
    - More results (CPE in London, overall terms) include:
  - One of the largest and best Campus Party yet – some 10,000 "campuseros" visiting over the four days
  - Around 5,000 visitors per day
  - 3,500 campers from 40 countries around the world
  - 52 buses with campuseros arrived from continental Europe
  - 250 speakers and over 500 hours of content
- 
- 42-OG1:
    - Main Progress:

OG1 has participated in two main dissemination events: Campus Party Europe and Smart City FI-Ware Event in Santander, providing live coverage, session recording and interviewing main stakeholders as appropriate. Special effort was destined to distribution of promotional material and coverage of FI-Ware seminars and hackathons.
    - Main Results:

FI-Ware visibility and relevance at events has been improved, from event promotion to event results dissemination, and especially during the events with participative dinamization actions which merge off-line materials with on-line communications.
    - Main Deviations:

Due to budget constraints a conventional, European-wide PR plan was not included in the proposal. However it looks fundamental to enhance project dissemination in a broader manner.
    - Main Corrective Actions:

A workaround plan for PR is underway to be able to meet project needs without impacting the budget. This will include alternative channels to reach PR objectives and especially to reach the different target audiences of the project. Plan is expected to be in place and running by mid-November (M31).
  - 43-UOULU: Planning, preparations and participation for London Campus Party including Challenge. Participation in FI PPP Information Day in Brussels, 3-4 October 2013. Preparations and presentation in FI PPP Phase 3 Information event in Oulu Finland (FI-WARE project; example of Finnish participation in FI PPP – Kari Autio, CIE), Press release by national broadcasting company "YLE":

[http://yle.fi/uutiset/oululaista\\_3d\\_-osaamista\\_hyodynnetaan\\_euroopassa/6796119](http://yle.fi/uutiset/oululaista_3d_-osaamista_hyodynnetaan_euroopassa/6796119)

- 44-CoS: Following the planned, we have been analyzing Fi-Ware potentials to identify the best way to bring it to market from the demand side. First step consisted in meeting TID to get a better knowledge of Fi-Ware enablers and applications. Next, in coordination with Ogilvy, we are working to choose the best examples to showcase in the Brussels event, ideally, to a pan-European representation of public sector. The objective, as currently settled, will be to move the public sector to open more data that can be used by developers to provide products/services useful to citizenship.
- 45-NLNET: received by e-mail.

### **Planning of effort in WP12:**

This WP has a weighted rate by month of the linear distribution of total effort per partner\* as follows:

M1-M9: 50 % of its linear distribution in 36 months

M10-M33: 100 % of its linear distribution in 36 months

M34-M36: 50 % of its linear distribution in 36 months

As result of amendment 4, planning has changed due it has been recalculated based in the new effort per partner.

\* Except E-IIS who has requested to follow its own particular planning.

### **Follow-up of effort in WP12:**

The following table depicts the planned resources vs. real resources (in PMs) for WP12:



Note: Worked cell contains the accumulative declared effort.

In general, the consumption of resources in this WP12 is according to plan except for some exceptions detailed in the paragraphs below.

The following image depicts the planned resources vs. real resources (in PMs) during period M25-M30 in WP12 by partner:

(FIGURE NOT UPLOADED)

Partners whose effort is **significantly lower** compared with the planning are the following:

- IBM-IL: IBM-IL's effort is lower than expected due to deferral of multiple events at which IBM plans to disseminate their work to the following period.
- THALES: xxx.
- DT: Since it was holiday session, there were not so many conferences and workshops. The spared resources will be speed for more dissemination activities, when the project will come to an end.
- UDE: This is due to the fact that UDE had several activities within this WP in the last reporting period that went beyond the small dedicated efforts for the entire project period (i.e., 1 PM). Nevertheless, during the reporting period, UDE has performed important dissemination activities as indicated in the periodic report.
- UNIS: No work contributed for the period.
- REDes: Red.es has underspent in this activity because most of the manpower and the available funds will be spent when a FI-WARE event is organized. This is due to happen during the next semester. There are some ideas about doing a distributed event in several cities, which would imply more coordination effort, but which could bring more

visibility to the event – these details shall be previously discussed with the project office.

- **USAAR-CISPA: xxx.**

- **NAEVATEC:** Effort dedicated to dissemination is under the initially planned as no more has been required to provide support in Campus Party and other FI-WARE hackathons. It is expected to attend more hackathons and FI-WARE events during second part of the project in order to achieve the expected effort for this task. Events and publications are evaluated as forum for FI-WARE dissemination in case that hackathons and other FI-WARE events do not allow to reach the initially planned amount of effort devoted to dissemination.
- **OG1:** Actual effort figures present a significant deviation from linear expected ones. Even if project is granted from May 1st, 2013 the Grant Agreement was signed in August 2013 due to longer than expected administrative and approval processes, preventing OG1 to use resources in full mode, specially for those activities that implied external costs. Committed total effort will be matched by project's end as many activities to be supported by OG1 have also suffered the same delay and have been shifted to happen in the remaining months of the project.
- **FNE:** FNE would like to point out that the majority of their work will be carried out in the following 6 months, as indicated in the Annex A. This is the reason why efforts and personnel costs appear to be less than 50% of the total at this point. FNE's work in WP12 is not linearly distributed over time.
- **AE3:** AE3 considers that they are on track considering a linear planning.
- **UOULU:** The reason is the late ramp-up of our project. They have now increased resourcing and should be catching up the planned effort.
- **NLNET:** mainly effective working. The overall planning of the challenges is also not as originally anticipated, it will likely be more sustained.

Partners whose effort is **higher** compared with the planning are the following:

- **TID:** Involvement in the events, hackathons and new branding of FI-WARE has resulted in some efforts overconsumption.

- **SAP: xxx.**

- **FT:** Orange spent lots of effort during the last 6 months to communicate and explain the usefulness of FI-Ware results, including FI-Lab, especially with many presentations to the French Competitiveness Clusters, presentation to SMEs of Wallonia or exchanges with the European IERC cluster.

- **TRDF: xxx.**

- **ATOS: xxx.**

- **INTEL:** Intel supported many communications, collaboration and dissemination activities in this period including the FI-LAB launch and workshops at the London Campus Party, FIA Dublin, and various presentations in relevant cloud interoperability conferences and workshops.

**ADMINO:** current effort is higher than expected due to London event. Preparing for it took lots of working hours

In summary, the status of this WP12 regarding consumption of resources is according to plan.