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EIFFEL
Evolved Internet Future for European Leadership
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Report on the activities and actions carried out at
international level, including
Global EIFFEL standardisation issues

Abstract:

In this document we present an overview of activities that have been carried out by the EIFFEL consortium over the past 34 months in the project. These activities serve the objectives of WP4, i.e., they target dissemination and exploitation of EIFFEL results. This dissemination and exploitation is achieved through publications, presentations, and liaisons. Hence, the structure of this report follows these means for dissemination and exploitation. In addition, we briefly outline the activities surrounding FIPedia.org, the EIFFEL wiki for debating disagreements.

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Contents

1	INTRODUCTION.....	4
2	PUBLICATIONS	5
2.1	EIFFEL WHITEPAPER 'STARTING THE DEBATE'	5
2.2	CCR EDITORIAL PAPER	5
2.3	ECRIM NEWSLETTER 04/2009	5
2.4	ISOC NEWSLETTER 07/2009.....	5
2.5	ICT MOBILE SUMMIT PUBLICATION 06/2009.....	5
2.6	REARCH 2010 PAPER ON "VALUE-NEUTRAL ARCHITECTURE"	5
2.7	VARIOUS DISSEMINATION PUBLICATIONS	6
2.8	PLANNED WHITEPAPER ACTIVITIES.....	6
3	PRESENTATIONS.....	7
4	LIAISONS & ENGAGEMENT IN VARIOUS FORUMS	9
5	FIA SESSION IN GHENT	9
6	DISSEMINATION THROUGH ONLINE TOOLS	9
7	DISSEMINATION THROUGH FIPEDIA.ORG	9
8	GLOBAL STANDARDIZATION ISSUES	10
9	CONCLUSIONS.....	10
10	REFERENCES AND LINKS.....	11

1 Introduction

EIFFEL as a project as well as the think tank, which is organized throughout the project's activities, produces a variety of outcomes that are disseminated and exploited in the larger Future Internet dialogue beyond EIFFEL. Such dissemination and exploitation is realized in the form of publications, presentations at different forums as well as liaisons and engagements with various organizations. This dissemination does not only include direct outcomes of the think tank work. It also includes updates to the European and international community as to the activities of the EIFFEL project as well as the think tank.

In addition, various liaisons with different organizations and initiatives on research, operational and policy level support the dissemination and exploitation of EIFFEL results through establishing the necessary contacts for publications, newsletters, presentations and alike.

An important platform for dissemination is the utilization of online means. Maintaining an up-to-date public EIFFEL website is crucial. Furthermore, different online collaboration means like wikis and mailing lists are utilized within the think tank. A special position is taken by the FIpedia.org site, which serves as an engagement platform for Future Internet researchers and practitioners to agree on crucial disagreements. The online platform records this evolving dialogue among the community members.

With all these activities, the EIFFEL SSA intends to widen the visibility of the think tank's work. This report reports on these various activities, updated after M36 with activities during the last year of the EIFFEL SSA.

2 Publications

The EIFFEL publications can be distinguished between two different types of publications, namely one relating to the direct outcome of EIFFEL think tank activities, in the form of whitepaper or derived publications. The second one relates to publications on project and think tank activities in general, such as in newsletters or similar venues. This section outlines the publications made.

2.1 *EIFFEL Whitepaper 'Starting the Debate'*

As an outcome of the first EIFFEL think tank meeting in Frankfurt (in October 2008), a whitepaper draft was produced for discussion during the second EIFFEL think tank meeting in London (in February 2009). After integration of think tank members' comments and several editorial revision rounds, the final EIFFEL whitepaper [1] was finally published in July 2009 and published on the EIFFEL project website [1].

2.2 *CCR Editorial Paper*

In order to increase the visibility of the EIFFEL whitepaper (See Section 2.1), a shorter version was published as an editorial paper in the ACM Computer and Communications Review (CCR) magazine in October 2010 [4]. Its title was changed from the original whitepaper (starting the debate) to 'invigorating the debate'. The chosen venue aimed at the larger communication community to be invited into the dialogue initiated by the EIFFEL think tank. Since its publication, which coincided with the 3rd EIFFEL think tank meeting in Athens, a growing number of new invitees to the upcoming EIFFEL meeting has indicated to have read the CCR publication, i.e., the purpose of engagement is bearing direct fruits.

2.3 *ECRIM Newsletter 04/2009*

The EIFFEL meeting in London initiated the establishment of the Fipedia.org site (see Section 6). In order to create awareness for this initiative, the EIFFEL SSA published a short invited publication [2] in the special issue newsletter on Future Internet of the ERCIM (European Research Consortium for Informatics and Mathematics). The publication in April 2009 coincided with the site setup and the going-live of content on the Fipedia.org site. The chosen venue aimed at inviting the larger European community of computer scientists to the dialogue on the Fipedia.org site.

2.4 *ISOC Newsletter 07/2009*

In order to raise awareness of the EIFFEL think tank work in the community represented by the ISOC chapters, a brief newsletter article was published in the July 2009 ISOC newsletter [3]. This article briefly outlined the work of the think tank and the available material on its public webpage. It also pointed to the EIFFEL whitepaper, which had been published just days before the ISOC newsletter publication. With this effort, the ISOC community was invited into the dialogue.

2.5 *ICT Mobile Summit Publication 06/2009*

The EIFFEL SSA also published a short introductory article in the ICT Mobile Summit conference on EIFFEL, its motivation and objectives as well as its current outcomes. This publication venue aimed at addressing the European project community, being assembled for this annual conference.

2.6 *ReArch 2010 Paper on "Value-Neutral Architecture"*

The ReArch 2010 workshop, organised in conjunction with the ACM CoNext 2010 conference, is the third edition of this workshop. The workshop addresses various issues on re-architecting the Internet by soliciting unique contributions on this topic. This year's Call for Paper included a call for disagreement style submissions, originating from the EIFFEL TT activities (Bob Briscoe, one of the EIFFEL TT members is one of the workshop's organisers).

Ian Brown, David Clark and Dirk Trossen submitted a paper to ReArch, following this specific 'disagreement' call in the CfP. The paper was accepted and has been presented at the ReArch 2010 workshop in Philadelphia. The paper's disagreement addressed the question: "Should particular values be 'baked into' an architecture or should an architecture accommodate varying value sets?". This disagreement directly follows a main thread in the EIFFEL TT discussions. In the paper, Ian Brown presents a viewpoint to base architecture designs on agreed values, such as the UN declaration of Human Rights, while David Clark argues for accommodating varying value sets due to a variety of reasons. The paper is set into the wider context of FI discussions and it concludes with the point that

progress in such debates can only be made through methodologies for a thorough control point analysis of design propositions, something that was taken up by the think tank during the 5th TT meeting in Aveiro.

The presentation during ReArch 2010 highlighted the importance and relevance of such disagreements. It was seen as a useful contribution to the FI debate and as an interesting style of debate. Dirk Trossen presented the paper at ReArch 2010 with David Clark supporting the presentation.

2.7 *Various Dissemination Publications*

EIFFEL members have also been active in various other topical publications to promote the discussions of EIFFEL, such as:

- JERMAN-BLAŽIČ, Borka. Kot da bi letalu med letom zamenjali motorje: EU pristop k razreševanju raziskovalnih izzivov interneta prihodnosti. (On the Future Internet and the R&D) Delo (Ljubl.), 2008, letn. 50, št. 66, str. 21.
- JERMAN-BLAŽIČ, Borka. Shaping the Future Networked Society: The Future Internet Conference: perspectives emerging from research and development in Europe Quark (Ljubl.), 2008, ISSN 1318 – 2641, str. 11-13
- JERMAN-BLAŽIČ, Borka. Ko se bo internet ustavil (In case Internet stops running...) Znanost (Ljubl.), 2009, Vol. 51, no. 227, str. 24.
- JERMAN-BLAŽIČ, Borka. Kako razvojno prebroditi krizo (How to overcome the crises- FI and PPP. Znanost (Ljubl.), 2009, Vol. 51, št. 286, str. 25.
- JERMAN-BLAŽIČ, Borka. The future of the internet : tussles and challenges in the evolution path as identified by EIFFEL think tank. V: BERNTZEN, Lasse (ur.). Digital Society Conference, ICDS 2010. [S. l.]: IEEE Computer Society: = Institute of Electrical and Electronics Engineers, 2010, str. 25-30. **BEST PAPER AWARD for presentation and paper**
- JERMAN-BLAŽIČ, Borka, The future of the internet : tussles and challenges in the evolution path as identified by EIFFEL think tank, to be published in the International Journal On Advances in Internet Technology,

2.8 *Planned Whitepaper Activities*

After the 3rd EIFFEL think tank meeting in Athens, work has started on two more whitepapers on measurements. Drafts for both were discussed during the 4th think tank meeting in Brussels and during the 5th think tank meeting in Aveiro. Changes to the structure were proposed with a final publication shortly expected towards the end of 2010 or the beginning of 2011. In addition, a whitepaper on virtualization and privacy were started at the 4th think tank meeting in Brussels. Their release is planned for early 2011. Similar to the first whitepaper, additional dissemination venues, such as journals or newsletter, will be explored.

3 Presentations

Dissemination of project and think tank results is implemented to a large extent through giving presentations at various occasions. EIFFEL project members have been invited to different venues to present the objectives, process but in particular outcomes of the EIFFEL think tank. The following gives a brief overview of these presentations.

Venue	Presenter	Date	Summary
FIA Bled	Petri Mahonen	April 2008	Presentation during the presentation of the <i>Bled Manifesto</i>
1 st EU-Japan Symposium on Future Internet	Dimitri Papadimitrou	June 2008	Presentation of networking challenges and EIFFEL approach
FIA Stockholm	-	November 2009	Inclusion of EIFFEL whitepaper and think tank presentation on Eurescom memory stick
ICT Mobile Summit	George Polyzos	June 2009	Presentation of EIFFEL paper
IETF Stockholm	Dirk Trossen	August 2009	Presentation at ISOC-organized Future Internet event
2 nd International conference for ccTLD registries and registrars of CIS, Central and Eastern Europe	Borka Jerman-Blazic	September 2009	Presentation of FI activities with EIFFEL as focus
2 nd EU-Japan Symposium on Future Internet	Petri Mahonen	October 2009	Presentation on EIFFEL think tank to EU-Japan audience
D1 Cluster concertation meeting	Dimitri Papadimitrou	January 2010	Preparation for FIA Valencia
Future Internet Summer School, Aveiro (Portugal)	Dirk Trossen	May 2010	Presentation on EIFFEL activities to research community at summer school
Workshop on the PPP and Future Internet	Borka Jerman-Blazic	June 2010	R&D in the area of Future Internet and the EIFFEL project
Berlin Symposium on the Future Internet in an Enlarged Europe (UNITE workshop)	Borka Jerman-Blazic	September 2010	Invited lecture on the EIFFEL SSA
ReArch 2010 workshop	Dirk Trossen	December 2010	Presentation of the ReArch 2010 paper

The presentations aimed at various audiences:

- **FIA & PPP:** Being part of the FP7 programme, it is important for EIFFEL to not only keep a strong link to this FP7 activity but to regularly report on outcomes to the assembled FP7 audience. EIFFEL maintained a good visibility in the FIA through planned participation in a high visibility panel for Prague, which however needed to be cancelled on last minute. EIFFEL disseminated material to Stockholm for informing the wider community. Furthermore, the EIFFEL SSA co-organized the very first FIA in Bled and was invited to present the reasoning for the EIFFEL SSA in the session of the Bled manifesto presentation. EIFFEL also contributed to the preparations for the FIA Valencia and disseminated material during the FIA Stockholm. EIFFEL presented in various discussions related to the PPP on Future Internet.

- **ICT Mobile Summit:** this conference assembles the technical audience of many EC-funded research projects. A presentation (and publication) to this venue aimed at inviting the technical FP audience into the EIFFEL dialogue.
- **IETF/ISOC:** Although co-located with the IETF, the session during which EIFFEL presented current outcomes and activities of the think tank was organized by the ISOC as an attempt to bridge between IETF practitioners and FI researchers. The event also exposed EIFFEL to the international audience, in particular from Asia.
- **ccTLD conference:** This presentation created exposure of EIFFEL activities (and FI activities in general) to the operational audience of ccTLD registrars. This aimed at the ambition of EIFFEL to bridge between the research and policy community.
- **EU-Japan symposium:** Upon invitation of the EC, EIFFEL activities were presented at this symposium with the chance to create visibility towards the Japanese research community. This coincides with increased efforts to secure Asian participation at the think tank meetings.
- **ReArch 2010:** The accepted paper to the ReArch 2010 workshop was presented with very positive feedback and debate during the presentation. The organisers of the workshop were urged to continue this special call for disagreement discussions in future workshops.

4 Liaisons & Engagement in Various Forums

Liaisons are a vital tool of engagement for EIFFEL. WP3 is specifically chartered with the establishment and maintenance of liaisons for EIFFEL. The EIFFEL reports [5] and [6] give comprehensive overviews of the current liaison work within EIFFEL and shall not be repeated here in their entirety.

However, it is to be outlined here that the various liaison activities encompass various international and national Future Internet research activities, operational communities like the IETF/IRTF and GNAB, as well as policy communities like ISOC and ICANN. These engagements establish channels for disseminating EIFFEL outcomes, such as the EIFFEL whitepaper, to these initiatives. Some of the publications and presentations, such as to ISOC and IETF, directly resulted from these liaisons and engagements.

5 FIA Session in Ghent

The EIFFEL SSA was asked to organise part of the final session at the FIA in Ghent. For this, EIFFEL TT members agreed to participate in a session organised around disagreements, leading to a debate-style session with the expectation of high audience interaction. The EIFFEL TT members Karen Sollins, Rui Aguiar, Ian Brown, and Leslie Dagle have agreed to attend the session. Karen and Rui will debate contrasting viewpoints on privacy while Leslie and Ian will debate about values in architecture designs. Dirk Trossen will give a brief introduction of EIFFEL and its disagreement style, followed by the general moderation of the disagreement debate.

This session is seen as a final dissemination event for the EIFFEL SSA as a funded activity. It promotes the style of debate through the formulation of concrete disagreements. It was also disseminating and advertising EIFFEL white papers, which are available for FIA and any European project to use for their research, dissemination or exploitation purposes already.

6 Dissemination through Online Tools

Online dissemination is standard for any research effort nowadays. This is no different for EIFFEL. Apart from maintaining an up-to-date public EIFFEL webpage for event announcements, publications and alike, the dissemination of content within the think tank is organized via a think tank wiki and mailing lists. The think tank wiki requires registration. Currently, accounts have been created for all previous and current think tank meeting participants. The wiki includes detailed event information, draft versions of whitepapers to be created and discussion material from the meetings.

The mailing list for EIFFEL is used for general information dissemination on relevant material and content as well as for event announcements.

EIFFEL is also listed in online material of the EU (e.g., at http://fisa.future-internet.eu/index.php/Main_Page) as one of the FI SSAs.

7 Dissemination through FIpedia.org

As an outcome from the 3rd EIFFEL think tank meeting in London, the FIpedia.org site [9] was created. Deliverable D4.5 [7] outlines, in more detail, the rationale and history of this important EIFFEL dissemination and engagement tool. Here, only a brief introduction is given.

The EIFFEL meeting in London concluded with the realization that agreement on disagreements, i.e., the proper dialogue as to what a community actually disagree upon is important to move forward the Future Internet debate in many areas. In order to allow such debate (and agreement) on disagreements, the establishment of the FIpedia.org site was the outcome of this realization.

The site was established throughout March and April 2009 and is operational since early April 2009 in its current form. Figure 1 shows the current main page of the website (see [7] for more details on the layout and grouping of the content on the site).

The site has attracted so far some tens of active users and holds almost one hundred articles, in particular on the repository side of the website. The ERCIM newsletter (see Section 2.3) was the first public mentioning of the site, intended to attract non-think tank members to the site. The EIFFEL SSA is currently working on directly engaging with EU projects to contribute to the website, e.g., on

relevant disagreements or towards the repository. The EU projects PSIRP and PURSUIT have provided their state-of-the-art work directly onto the FIpedia repository, leading to a growing collection of work in this part of FIpedia.org

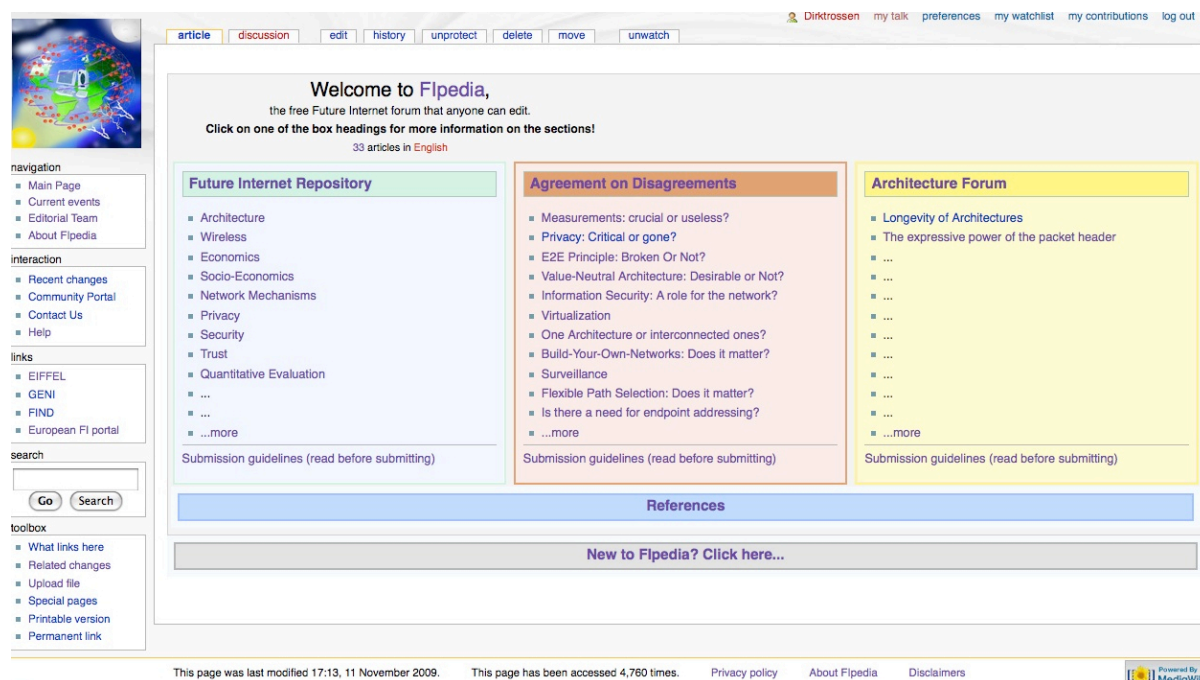


Fig.1: FIpedia.org main page

8 Global Standardization Issues

Various liaisons with international standardization bodies exist (see [5] and [6]) and already as early as 2007, the objectives of the (at that time future) EIFFEL initiative were presented to the ETSI Board of Directors. The outlined publications in the ISOC newsletter and the presentation to the ISOC/IETF community (see Section 2 and 3) aimed at raising awareness for the work of the EIFFEL think tank.

However, direct standardization contributions have not been made by EIFFEL. This is considered unrealistic given the largely different timeframes of EIFFEL and various standardization activities. But it is expected that various future dissemination activities will gear towards standardization bodies with respect to identified *disagreements*, such as in the areas of privacy, virtualization, measurements, and others. For instance, as an outcome of the 3rd EIFFEL think tank meeting, a measurement whitepaper is currently prepared by the EIFFEL think tank. We expect such whitepaper to be important for the dialogue between operational (including standardization) and research community.

9 Conclusions

The goal of the EIFFEL SSA to establish the envisioned community of Future Internet researchers and practitioners is starting to bear fruits in the form of outcomes from the organized think tank meetings. Specifically the first EIFFEL whitepaper has been publicized through online but also print media. Furthermore, the project established various means of disseminating current and future results to various communities, ranging from research over operational to policy communities. This is important for the expected results of the final year of the EIFFEL SSA.

10 References and links

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- [3] ISOC newsletter, "News from the front: Challenges for research and development of the future Internet identified by the EIFFEL Think Tank", available at <http://isoc.org/wp/newsletter/?p=1057>, July 2009
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- [9] FIpedia.org site available at <http://www.fipedia.org/fipedia>
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