

## MEETING MINUTES (**corrected**)

### *Project Steering Committee meeting*

### *Meeting no. 2/2007*

### *21 May 2007*

Location: Room 3101 of "Franca Building", Universitat Pompeu Fabra, Passeig de Circumval·lació, 8, Barcelona, Spain. This is located on the 3<sup>rd</sup> floor of the building adjacent to the railway station "Estacion de Francia" ( <http://www.upf.edu/campus/english/index.htm?opcio=6> )

Time: Monday May 21, 2007 (09:30-16:30)

#### Project Steering Committee Meeting

Participants:

- a) PSC members: Ari Hottinen (NOKIA), Martin Schubert (proxy for FhG-HHI), Giorgio Taricco (PoliTo), Gerald Matz (VUT), Andreas Burg (proxy for ETHZ), Ezio Biglieri (FBM-UPF), Emanuele Viterbo (UNICAL), Christoph Mecklenbräuker (FTW).
- b) Yi Hong (UNICAL)

## Executive Summary

We discussed the outcome of the MASCOT technical review: We were evaluated well. We discussed how Nokia can be more involved with the demonstration aspects of the project. We organise an internal scientific workshop at UNICAL during December 3-4, 2007 to further enhance collaboration.

The first pre-financing for 2007 was distributed to the partners according to the decision of 5th PSC meeting. Responsibilities for upcoming Deliverables were assigned. We agreed on the MASCOT demonstration goals. Changes in the dates for MASCOT Deliverable D4.4 (Industry Course) and D4.5 (ETHZ Open House Event) were agreed.

Discussion on potential successor STREP project within FP7 was initiated: **The deadline for submissions to FP7 "ICT Call 2" is October 9, 2007 (Call Identifier: FP7-ICT-2007-2).**

Next PSC Meeting is organised as a phone conference on Friday Sep 14, 2007 (10:00-11:00 MEST).

## Detailed Minutes

1. There were no additions to the agenda
2. agreement on the date of the next PSC meeting
  - a. Next PSC meeting is organised by FTW as a phone conference on Friday Sep 14, 2007 from 10:00am to 11:00am (Middle-European Summer Time)
  - b. UNICAL will host the MASCOT internal scientific workshop during Monday-Tuesday December 3-4, 2007.

3. Discussion of MASCOT review outcome
  - a. See official review report ("[MASCOT-TeamReview- March2007.pdf](#)")
  - b. See Christoph's presentation ("[P2007-05-21review\\_discussion.pdf](#)")
4. Discussion on demonstration goals for the testbed in year 3
  - a. See the presentation ("[P2007-05-21review\\_discussion.pdf](#)")
    - i. Formulation of the goals in detail
    - ii. Agreement of a prioritization of these goals
    - iii. Definition of a coarse roadmap for each individual demonstration goal
5. Assessment of project progress (January-March 2007)
  - a. report from WP1 algorithms (Gerald Matz): Status was presented during the MASCOT technical review on March 14, 2007 in Brussels. **Gerald Matz requests input from all MASCOT partners for Deliverable D1.3.1 (MU-MIMO baseband algorithms).**
  - b. report from WP2 library and testbed (Andreas Burg): see presentations ("[WP2Summary\\_2007-05.21.pdf](#)" and "[Task23UpdatePlans\\_2007-05-21.pdf](#)") **Milestone M2.3.1 is delayed by two months: Completion of M2.3.1 is shifted to 31.07.2007.**
  - c. report from WP3 limits (Giorgio Taricco): Recent achievement is the computation of the capacity of the separately fading Ricean MIMO channel.
  - d. report from WP4 dissemination (cfm)
  - e. report from WP5 management (see also Agenda Item #6)
6. budget planning and reporting issues (cfm)
  - a. The 1<sup>st</sup> prefinancing for Period 2 was distributed to the MASCOT partners according to the decision of the 5<sup>th</sup> PSC Meeting on Feb 28, 2007 (Agenda item 7b in the meeting minutes "[M2007-02-28final.pdf](#)")
  - b. The 2<sup>nd</sup> prefinancing for Period 2 will be distributed as soon as the EC has sent the second payment (expected until middle of 2007)
7. IPR management
  - a. Christoph ask Teemu Soininen (NOKIA) to lead
    - i. the definition of rules and guidelines for the reuse of PEKH and the tracking of new knowledge in MASCOT,
    - ii. the build up of a MASCOT IPR portfolio.
  - b. Preparations for the MASCOT library: Selection of a set of VHDL reference designs
8. All partners are requested to report their MASCOT related collaboration visits to the co-ordinator: This reporting is important Input for the MASCOT annual report at the end of 2007.
  - a. Send an e-mail to Christoph with Cc to Katja
  - b. What to report: Who visits whom? Collaboration in which WP/Task? Start & end dates.
9. preparation of deliverables
  - a. status of deliverables
    - i. D3.1.1 Performance tradeoffs in MU-MIMO systems, due date: **M18**, editor: Giorgio Taricco: The deliverable D3.1.1 is in good shape, a first draft is expected early June for internal review.

- ii. D1.2.1 Multi-user space-time code design and database of specific code constructions, due date: M18, editor: Emanuele Viterbo. Emanuele asks for input from all partners on MU-MIMO code constructions, especially relating to the following two publications:
    - 1. Markus Gärtner and Helmut Bölcskei: Multiuser Space-Time/Frequency Code Design, in Proc. ISIT 2006.
    - 2. Gottfried Lechner and Andreas Burg: Design of spatially multiplexed LDPC Codes for Multi-User Detection, in Proc. EUSIPCO 2007.
  - iii. D2.1.2 Selected transceiver algorithms and corresponding complexity-performance tradeoffs, due date: M18, editor: Helmut Bölcskei. See slide #2 of Andreas Burg's presentation ("WP2Summary\_2007-05.21.pdf")
  - iv. D4.4 (Industry course organised by FTW), promised for 07.2007 according to the MASCOT Description of Work
    - 1. Ari Hottinen will check for the availability of suitable lecture rooms in Mid November 2007 and select the precise date and location in Helsinki.
    - 2. Christoph will inform Andy Houghton that we intend to shift this industry course to Mid November 2007, to be hosted by Nokia in Helsinki.
  - v. D2.3.2 (MIMO-MAC extensions, resp: Helmut Bölcskei or Markus Wenk, ETHZ), 12.2007
  - vi. D5.4 (2nd annual project review, resp: Christoph Mecklenbräuer, FTW), 12.2007
  - vii. D3.1.2 (capacity regions, resp: Giorgio Taricco, PoliTo), 12.2007
  - viii. D1.3.1 (baseband algorithms, resp: Gerald Matz, VUT), 12.2007. Gerald requests input from all.
  - ix. D4.5 (1st ETHZ open-house event, resp. Helmut Bölcskei, ETHZ), 12.2007 will be shifted into January 2008. Demonstration goals:
    - 1. Space-time codes mit offline processing
    - 2. A real-time MU-MIMO system with basic MU-MIMO MAC and link-adaptation or scheduling
  - x. Christoph will communicate the planned changes of delivery date in D4.4 and D4.5 to Andy Houghton.
10. cfm: organisation of MASCOT-related workshops and special sessions at international conferences,
- a. Ari Hottinen has organised a special session during SPAWC 2007, Helsinki, Finland, June 2007
  - b. Christoph has organised a special session during EUSIPCO 2007, Poznan, Poland, September 2007
  - c. No plans for Asilomar 2007
  - d. Gerald Matz and Christoph will contact Björn Ottersten before planning a special session for ICASSP 2008, Las Vegas. Potential topic of the special session: "Complexity-reduction at the receiver side".
  - e. No plans for ISIT 2008
11. Discussion on potential FP7 IST successor project

- a. **Potential research scope: Action Item to all: Please provide a short list of your favourite research topics to Christoph until June 15, 2007.** Christoph will cluster them and redistribute for further discussion. The following potential topics were briefly discussed during the meeting:
- i. Co-operative MIMO, virtual MIMO
  - ii. Network coding
  - iii. Non-linear MIMO
  - iv. Ari mentions cognitive radio and decentralised data fusion.
- b. Consortium
- i. Inclusion of partners from Eastern Europe: this would help politically in a new project proposal. (e.g. Jan Sykora, Czech Technical University of Prague)
- c. **Action Item Christoph:** find the next relevant FP7 calls and their deadlines
- i. **FP7 "ICT Call 2", Deadline is October 9, 2007 (17:00,** Indicative budget: 477 M€ ),  
Topics:
    1. **Pervasive and Trusted Network and Service Infrastructures** (new paradigms and experimental facilities –e.g. design of architectures and protocols for more security, mobility, future Internet)
    2. Components, systems, engineering (photonic components, micro/nano systems, networked embedded and control systems, networked embedded and control systems)
    3. Towards sustainable and personalised healthcare (virtual physiological human –e.g. patient-specific computational modelling and simulation of organs)
    4. **ICT for Mobility, Environmental Sustainability and Energy Efficiency** (ICT research in co-operative systems –e.g. vehicle-to-vehicle and vehicle-to-infrastructure communication, real-time traffic management, research towards „zero-accident“, ICT for energy-intensive )
    5. **ICT for Independent Living and Inclusion** (e.g. open, plug & play accessibility architectures and standards, ICT-enabled assistive systems)
  - ii. **FP7 "Joint Call ICT & Security",** Deadline is November 29, 2007, Topics called:
    1. ICT Theme: Technology building blocks for creating, monitoring and managing secure information infrastructures
    2. Security Theme: risk assessment for interconnected transport or energy networks, modeling and simulation for training, optimised situational awareness through intelligent surveillance of interconnected transport or energy infrastructures, ICT support for first responders in crises occurring in critical infrastructures
  - iii. **FP7 IST "FET Open Call" Deadline is December 31, 2008**
  - iv. **The EC wishes to increase the number of STREPs**

12. no other business.



The meeting was closed on Monday May 21, 2007 around 16:45.

// [cfm.](#)