



## **Minutes**

**The 6th MC meeting, University of Bern, Bern, Switzerland, May 9-10, 2006**

## **1. Approval of the Agenda**

The Local Organizer, Prof. Torsten Braun opens the meeting at 9:20 with a presentation on the University of Bern. The Chair, Dr. Koucheryavy, welcomes all the participants.

The agenda of the 6<sup>th</sup> MCM meeting is approved as follows:

1. Agenda
2. Status of the Action in the second operational year
3. Budget
4. Review of the second operational year
5. 7th MC meeting details
6. Changes in the COST Program
7. Changes in the COST 290 budget
8. 8th MC meeting proposals
9. New participant presentation
10. Initial discussion on the final report
11. Close of the meeting

This meeting is organized with the MC meeting plus sessions for technical presentations (9 Technical Documents on May 9 and the WWIC2006 plenary session on May 10).

## **2. The Action**

At present, 24 countries plus Russia have signed the MoU of COST 290 Action.

We have 3 MC meetings in the second operational year (this is the last MC meeting of this second year). The WWIC2006 conference has been co-located with the 6<sup>th</sup> MC meeting.

2 STSM have been approved: one from the University of Siena, Italy, to TUT, Finland, on the TCP performance in WiFi systems based on the IEEE 802.11e standard ("Optimization of the Transport Layer Performance in a Wireless System based on the IEEE 802.11e Standard"); another from TUT, Finland, to INRIA, France, dealing with TCP modeling and scalable multicast ("TCP NewReno Modeling and Design of Scaleable Multicast Feedback Mechanism"). Finally, a third STSM (from the University of Limerick to Russia) is under evaluation.

Dr. Koucheryavy explains that many publications have derived from the 1<sup>st</sup> STSM by Orlando Cabral.

All the information about the approved STSMs is on the COST290 Web site, page "STSM @ cost290.org"; see the snapshot below.

[News](#)

[Meetings](#)

[Participants](#)

[MC members](#)

[Signatories](#)

[Working Groups](#)

[Technical Docs](#)

[STSM](#)

[PR](#)

[Motivation](#)

[Main Objectives](#)

[Programme](#)

[Dissemination](#)

[MoU \(pdf\)](#)

[Related Actions](#)




[Related Projects](#)

[Jobs@COST290](#)

[Internal](#)

[Contacts](#)

[Join us!](#)

### STSM: Short Term Scientific Missions

**STSM evaluatoin board**

1. Dr. Giovanni Giambene, University of Siena, Italy (Chair)
2. Prof. Pascal Lorenz, University of Haute Alsace, France
3. Prof. Saverio Mascolo, University of Bari, Italy
4. Prof. Vasilios Siris, University of Crete/FORTH, Greece
5. Manuel Alvarez-Campana, Polytechnic University of Madrid, Spain

**List of STSMs with related documents**

STSM number	Visitor and Title	Host	Report	Evaluation
STSM(05)001	Orlando Cabral (Univ. of Beira Interior, Portugal)	University of Cyprus, Cyprus	<a href="#">pdf</a> 🔒	<a href="#">pdf</a> 🔒
	<a href="#">Enhanced UMTS Cost / Revenue Optimization in Offices Scenarios</a>			
STSM(06)002	Ivano Alocci (University of Siena, Italy)	Tampere University of Technology, Finland	<a href="#">pdf</a> 🔒	<a href="#">pdf</a> 🔒
	<a href="#">Optimization of the Transport Layer Performance in a Wireless System based on the IEEE 802.11e Standard</a>			
STSM(06)003	Roman Dunaysev (Tampere University of Technology, Finland)	INRIA, France	<a href="#">pdf</a> 🔒	<a href="#">pdf</a> 🔒
	<a href="#">TCP NewReno Modeling and Design of Scaleable Multicast Feedback Mechanism</a>			
STSM(06)003	Title			

### 3. Budget

Dr. Koucheryavy described the budget situation for the first operational year (2004-2005). The Grant Agreement for the second year is available on-line (<http://www.cost290.org/private/grantagreement/2005-2006/>). The budget assigned is 131,124 €

#### Budget allocated for secretariat:

24,000 €

#### Other Allocations:

5,000 € + 5,000 € for a workshop

10,000 € for STSMs

87,000 € for MC meetings (29,000 € per meeting)

At present the expenditures for MC meetings are as follows:

4th meeting in Würzburg = 20,485 €

5th meeting in Delft = Around 20,000 €

6th meeting in Bern = Not more than 15,000 €

The current expenses are around 94,500 €. Hence, we need to give back around 37,000 €, but this will not influence the allocated budget to COST 290 for the third operational year.

According to the above, there is no problem with the travel reimbursements that will be carried out according to the ESF rules. Dr. Koucheryavy has provided a short survey on the ESF COST Reimbursement rules as follows:

- *Air tickets*: Economical fare, up to 1,200 €
- *Train/bus or long-distance bus*: Most economical route by first-class rail or bus

- *Private/rented car:* (i) 0.20 € per kilometer (no fuel, toll, ferry, parking) for one person traveling alone; (ii) 0.30 € per kilometer (no fuel, toll, ferry, parking) for two and more persons traveling (paid only to the responsible person) for not more than 2,000 km mileage
- *Local transportation expenses:* Up to 25 € in total without receipts; for higher costs, receipts are needed
- *Taxi fares:* Only if no reasonable public transportation is available; receipt is required. If the cost is more than 40 € an explicit justification is required
- *Accommodation:* Room and breakfast on a base of a fixed rate 110 € per night (maximum one night before and after the meeting; If more, explanation has to be provided)
- *Meals:* Lunch (including coffee breaks) and dinner expenses are reimbursed at a fixed rate 20 € each.

COST 290 adopts ESF rules as reimbursement rules.

#### **4. Review of the second operational year**

The second operational year is from July 1, 2005 to June 30, 2006. We have 3 MC meetings in this year, 51 Technical Documents, 2 STSMs, and a Workshop (WWIC 2006 conference). A preliminary financial report for the second operational year has been submitted in time to the COST ESF. The review meeting has been postponed to October/November 2006 due to changes in the COST Program.

#### **5. 7th MC meeting details**

Prof. Nikola Rozic (University of Split, Croatia) provided a presentation on the 7th MC meeting from September 29 to October 1, 2006. This will be the first meeting in the third operational year. The 7th MC meeting will be co-located with SoftCOM 2006 and the related Symposium on "QoS in Multimedia Wireless Networks" (Symposia co-chairs: Y. Koucheryavy, G. Giambene, P. Lorenz) - extended deadline: June 30, 2006.

The SoftCOM 2006 conference will be between Split and Dubrownick. However, the 7th MC meeting of the COST 290 Action will be in Split on September 29 (in Hotel Lion) and September 30 (on board of the ship "Marko Polo"). The social dinner will be on September 29, 2006 in Split. In the morning of September 30, the remaining COST technical sessions and the SoftCOM 2006 opening ceremony will be on board of the ship in Split. The ship in the afternoon at 15:00 will leave for Dubrownick. People attending just the COST meeting can leave the ship before that time. The SoftCOM 2006 Symposium on "QoS in Multimedia Wireless Networks" will be in the afternoon. The SoftCOM 2006 social dinner will be in Dubrownick.

The COST participants to the 7th MCM will have to pay a registration fee of 75 €. The Hotel accommodation cost will be 110 €/night. The "QoS in Multimedia Wireless Networks" symposium fees will be 150 € for COST 290 participants.

SoftCOM 2006 is supported by ComSoc, the University of Split and CIS. There are some sponsors, such as: HT, Ericsson NT, Siemens, HEP, etc. The SoftCOM 2006 Key note speaker will be Roberto Saracco from Telecom Italia Lab. The best papers of the Symposium will be invited for the *Journal of Communications Software and Systems* (JCOMSS).

## 6. Changes in the COST Programme

The COST programme has been a huge success in Europe. Until now COST had a democratic approach allowing applying at any time. Due to the significant increase in the number of COST Actions and the high number of signatory countries participating per Action, the average assigned budget per MC participant has been decreased since the budget for COST in FP6 is fixed. Hence, a transition period has to be managed.

Moreover, new COST actions will be allowed to apply only at specific dates according to a scheme with open calls launched every year ([www.cost.esf.org/opencall](http://www.cost.esf.org/opencall)). The next date is March 30, 2007. Only one opportunity per year will be provided to apply. The ESF has provided a document describing eligibility criteria, evaluation sheets, assessment criteria. Hence, there will be competition for the approval of new COST Actions.

## 7. Changes in the COST 290 budget

As for the 3<sup>rd</sup> operational year (2006-2007), COST 290 Action has been granted with 119,000 € as follows:

- 2 MC meetings (proposal made by ESF)
- Workshop (max 5000 € for maximum one Workshop/Seminar per annum, or double this figure if Final Meeting)
- STSM
- Publications
- Secretariat (15% of actual expenses).

Meetings and STSM budget allocations are based on the number of signatory countries. The MC can decide to move figures between budget lines, except for the secretary overhead that is capped at 15% of actual expenses.

The MC members are asked to comments the above points and, first of all, the issue of having 2 or 3 MC meetings per year. Note that in the 2<sup>nd</sup> operational year the actual cost has been 94,500 € including 24,000 € for secretariat expenses. The MC members can increase the number of MC meetings for the third operational year, if budget allows this. We have already 2 MC meetings in the third year: one in Croatia (September 2006) and the other in Portugal (May 2007, co-located with WWIC 2007)

The unanimous vote of the MC members has been to have 3 MC meetings per year. Hence, the third MC meeting date should be in January - February 2007.

## 8. 8th MC meeting proposals

Two proposals are available for the 8<sup>th</sup> MC meeting in the period January - February 2007:

- **MC meeting in Malaga, Spain.** A presentation has been provided by Mari-Carmen Aguayo-Torres, describing the research activity and the Malaga location. Low-cost flights are available with the main cities in Europe. There are low-cost hotels in the city center, with a bus trip of 30 minutes. The winter is quite mild, typically with 5 degrees over 0. The meeting should be the last week of January or in the first two weeks of February.

- **MC meeting at TUT, Finland.** A presentation has been provided by Dr. Koucheryavy. Talks from invited speakers could be organized. Tampere is the second largest city on Finland. Tampere has two universities and numerous institutions of education. TUT is the largest university in Finland. There are many low-cost hotels close to the campus (65 €/night). The typical Tampere temperature in January-February is in the range (-15, - 10) degrees.

The Malaga location is approved for the 8th MC meeting with a majority vote. The exact dates will be decided via email voting, with a message sent to the email list with two options.

## 9. New participant presentation

Gazi University, Turkey, is a new member of the COST 290 Action. Prof. Özgür Ertug has provided a presentation describing the research activity carried in this University. Gazi University Electrical Engineering Department is Located in the capital of Turkey, Ankara. The main research interests are: power efficient wireless nets, information theory, statistics, routing in wireless ad hoc networks, transport protocols in wireless networks.

## 10. Initial discussion on the final report

According to the COST MoU, the Final Report should be finalized in the last fifteen months of the Action. The Final Report is a technical report, (besides the administrative one) will contain the main results achieved in the Action. It will be structured as a book, thus creating conditions for it to be a reference for further work of researchers.

It's now time to discuss on how to organize the work of the Final Report. The first point is to organize the Final Report according to the *Working Group (WG)* structure. All the WG Chairmen are present so that the discussion can start. First of all the current structure of WGs is reminded as follows.

### **Working Group 1: “Traffic Engineering” - Chairman: Prof. Dirk Staehle**

- Traffic characterization and modeling
- Mapping of QoS classes and SLA/SLS
- Resource management and QoS provision
- Congestion control
- Cross-layer design
- Transport protocols over wireless
- MAC
- Performance evaluation

### **Working Group 2: “Mobility and interoperability” - Chairman: Prof. Francisco Barcelo**

- Mobility characterization
- Location awareness
- Handover techniques
- IP mobility protocols
- Interworking between different access technologies
- QoS and mobility [signaling, routing, etc.]
- Privacy and security

### **Working Group 3: “Network architecture and planning” - Chairman: Prof. Torsten Braun**

- Network planning

- Capacity dimensioning
- Evolution of network architecture
- Self organization
- Service architectures
- Over-dimensioning and resilience

**Working Group 4: “Services, regulations, and economic aspects” - Chairman: Prof. Vasilios Siris**

- Economics and regulation
- New techno-business models, novel pricing and billing mechanisms
- Self-regulated wireless use
- Optimization based in cost/revenues aspects
- Charging and accounting
- Applications requirements and scenarios

It is noticed that most of contributions are in WGs 1 and 2; few contributions are in WG 3 and WG 4. Hence, if the book structure is one chapter per WG, that would not be so fair: we could have an unequal length of the chapters. Moreover, not all the COST 290 Technical Documents are available (some of them still need to be uploaded).

A discussion has also been started on which Publisher should be considered for the COST 290 book. Two solutions are available: Wiley or Springer. Dr. Giambene of the University of Siena reports his good experience with Springer for the publication of his books. It is also noticed that Springer can provide a more report-like book. It is agreed to use Springer to publish the COST Action book. The COST Action has an additional financial support for publishing the book.

It is agreed that the book structure will be WG-based, but the WG work will be split in sub-WGs depending on the Chapter. In particular, the chapters will be split in two for big WGs. In conclusion, the book will have a combined structure, chapter-based, top-down.

A review of available contributions (i.e., Technical Documents) is needed. This is the task of the relevant WG Chairmen. Cross-references are also needed between the different parts of the book.

The next steps for the Final Report are as follows:

1. Dr. Koucheryavy: collecting on-line the missing electronic versions of TDs;
2. WG chairs: identification of sub-WGs and Chapter structure;
3. Discussion at 7<sup>th</sup> MCM for the book Table of Contents on the basis of the proposals made by the WG leaders.

The WG Chairmen will make calls for contributions on certain important (or uncovered) topics. The WG Chairmen will also identify/ask the authors for updated/refreshed TDs.

An open bottom-up on-line tool will be organized for contributions. In particular, a WiKi page will be used for describing the book structure and for links to book contents (TDs, chapters text). BSCW will be used to store TDs and chapters text and for versioning issues. Georg Carle (Tuebingen University) will check and offers to host BSCW and WiKi.

It is proposed by both Georg Carle and Vasilios Siris that each WG Chairman examines by the next MC meeting the contributions (i.e., TDs) for his WG and provides a proposed structure of the related

Chapter for discussion. Such chapter structure should be published on the Wiki page. This is agreed by the MC members.

### 11. Close of the meeting

Before closing the meeting, Dr. Koucheryavy proposes the idea to organize a joint project in the FP7 framework when the COST 290 Action will be close to its end.

The 6th MC meeting has been closed by Dr. Koucheryavy at 11:30, thanking all the participants.

Reimbursement forms should be sent by mail to Dr. Yevgeni Koucheryavy:

Dr. Yevgeni Koucheryavy  
 Institute of Communication Engineering  
 Tampere University of Technology  
 P.O.Box 553  
 FIN-33101  
 Tampere, FINLAND  
 e-mail: yk@cs.tut.fi

These minutes have been written by Dr. Giovanni Giambene (University of Siena, Italy).

List of delegates, COST 290 6th MCM, May 9-10, 2006, University of Bern, Bern, Switzerland.

	Name	Country	Organization	MC	Presentation title
1	Ilka Miloucheva	Austria	Salzburg Research	X	TD(06)031: QoS Management for efficient content delivery
2	Sylwia Romaszko (subs. Chris Blondia)	Belgium	Univ. Of Antwerp	X	TD(06)028: Neighbour and Energy-Aware Contention Avoidance MAC Protocol for Wireless Ad Hoc Networks
3	Seferin Mirtchev	Bulgaria	Technical University Sofia	X	
4	Nikola Rozic	Croatia	University of Split	X	
5	Yevgeni Koucheryavy	Finland	Tampere Univ. of Technology	X	
6	Jakub Jakubiak (subs. J.Harju)	Finland	Tampere Univ. of Technology	X	TD(06)022: Practical performance evaluation of IEEE WLAN technologies for VANET environment
7	Dirk Staehle (subs. P. Tran-Gia)	Germany	University of Würzburg	X	TD(06)026: On the soft and code capacity of the UMTS downlink
8	Georg Carle (subs. A. Wolisz)	Germany	University of Tübingen	X	
9	Vasilios Siris	Greece	ICS-FORTH	X	

10	Vassilis Tsaoussidis	Greece	Demokritos University of Thrace	X	
11	Giovanni Giambene	Italy	Univ. of Siena	X	
12	Saverio Mascolo	Italy	Politecnico di Bari	X	TD(06)032: Testing TCP versus TFRC over wired/wireless internet
13	Algimantas Kajackas	Lithuania	Vilnius Technical University	X	TD(06)030: Speech Quality and Word-Level intelligibility in wireless. The critical impact of lost packets
14	Remco Litjens	The Netherlands	TNO ICT	X	TD(06)027: Performance analysis of access selection and transmit diversity in multi-access networks
15	Hans van der Berg	The Netherlands	TNO ICT / Univ. of Delft	X	
16	Geert Heijenk	The Netherlands	Univ. of Twente		
17	Edmundo Monteiro	Portugal	University of Coimbra	X	TD(06)025: Signaling and Service Negotiation in the EuQoS Architecture
18	Thomas Bohnert	Portugal	University of Coimbra		
19	Vladimir Efimushkin	Russia	R&D ZNIIS		
20	Martin Klimo	Slovakia	Univ. of Zilina	X	
21	Ales Svigelj (subs. G. Kanduz)	Slovenia	Jozef Stefan Institute	X	
22	Francisco Barcelo	Spain	UPC	X	
23	Luis Bellido (subs. M. Alvarez-Campana)	Spain	UPM	X	
24	M. Carmen Aguayo-Torres	Spain	University of Malaga		
25	Pascal Kurtansky (subs. B.Stiller)	Switzerland	Univ. of Zuerich	X	
26	Andreas Kessler	Sweden	Karlstad University	X	TD(06)029: QAMNet: Providing Quality of Service for Ad-hoc Multicast Enabled Networks
27	Özgür Ertug	Turkey	Gazi University		
28	Torsten Braun	Switzerland	University of Bern	X	