



**COST Action 272**

**“Packet-Oriented Service Delivery via Satellite”**

**Minutes of the first Management Committee Meeting  
Toulouse, 11-12 October 2001**

*COST272 secretariat*

## **1. Opening of the meeting**

The Chairman, Professor Gérard Maral, opens the meeting. The list of attendants is shown in Annex I.

Apologies for absence : Niovi Pavlidou, Francisco Javier González-Castaño, Mihael Mohorčič, Ange Norbotten, Evangelistos Papapetrou, Serguei Raber, Zeljko Tabakovic

## **2. Adoption of the agenda**

All participants agree on the contents of the agenda :

1. Opening of the 1<sup>st</sup> Management Committee Meeting
2. Adoption of the Agenda
3. Adoption of the previous meeting minutes
4. Technical presentations
5. Next meeting

The Chairman suggests that everyone thinks about how to use the budget for Short Term Scientific Missions.

Markus Werner proposes a scheme for collecting contributions prior to each meeting :

1. Working Group leaders collect contributions
2. They forward the contributions to the Secretariat
3. The Secretariat assigns an ID number to each contribution, adds a cover page with the appropriate headings and uploads the contribution on the web server

The Secretary, Laurent Franck, takes the action to set up an FTP server as well as an archive facility for the e-mails exchanged on the COST272 reflector (Action 1)

## **3. Adoption of the previous meeting minutes**

The previous meeting minutes are adopted

## **4. Presentation of the budget for 2002-2003**

The budget for the second year is the following :

|                                                                      | Costs                                                            | Comment                                                                                              |
|----------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>(a) Travel expenses and daily allowance for Delegates to MCMs</b> |                                                                  |                                                                                                      |
| Travel expenses per MCM                                              | $10 \times 1.5 \times 600 \text{ €} = 9\,000 \text{ €}$          | 10 Signatories;<br>1.5 Deleg. per Sign. per MCM in the average;<br>3 days per MCM (incl. travelling) |
| Daily allowance per MCM                                              | $10 \times 1.5 \times 3 \times 120 \text{ €} = 5\,400 \text{ €}$ |                                                                                                      |
| Sub-total per MCM                                                    | $9\,000 \text{ €} + 5\,400 \text{ €} = 14\,400 \text{ €}$        |                                                                                                      |
| Sum (a)                                                              | $3 \times 14\,400 \text{ €} = \mathbf{43\,200 \text{ €}}$        | 3 MCMs according to timetable                                                                        |
| <b>5. (b) Operating and running costs</b>                            |                                                                  |                                                                                                      |
| Seminar organisation (including proceedings public.)                 | $= 3\,000 \text{ €}$                                             | Mid-term seminar<br>1 invited speaker                                                                |
| Invited speaker                                                      | $1 \times 1\,000 \text{ €} = 1\,000 \text{ €}$                   |                                                                                                      |
| Short term scientific missions                                       | $6 \times 1\,500 \text{ €} = 9\,000 \text{ €}$                   | 6 missions                                                                                           |
| Secretariat (including overhead)                                     | $= 14\,000 \text{ €}$                                            |                                                                                                      |
| Sum (b)                                                              | <b>27 000 €</b>                                                  |                                                                                                      |
| <b>6. Total costs</b>                                                |                                                                  |                                                                                                      |
| Sum (a) + (b)                                                        | <b>70 200 €</b>                                                  |                                                                                                      |

Laurent Franck should inquire about whether to assign the next MCM to this year's budget or to next year one (Action 2)

## 7. Technical presentations

- Maryan Vázquez-Castro *Review and trends on channel modelling and mitigation techniques for GEO and non-GEO system design*
- Lorenzo Mucchi (presented by Luca Ronga) *Space-Time Coded Transmit Diversity in Multi Satellite UMTS*
- Luca Simone Ronga *DSP-based Multirate CDMA Modem for GEO Satellites*
- Jungpil Yu, Gilles Mesnager, Marie-Laure Boucheret, Robert Vallet, Milena Planells *Turbo codes for burst mode satellite transmission*
- Franco Davoli *Bandwidth Allocation and TCP Adaptation in Multiservice Satellite Networks*
- Ales Svigelj *Adaptive routing algorithms in ISL networks*
- Daniel Ratto & Markus Werner *Optical ISL networking*
- Markus Werner *Aeronautical broadband communications via satellite (AirCom)*

Erina Ferro proposes an approach for organising the presentations:

- The slides contain a global overview of the contribution, positioning it the Action landscape and pinpointing the major issues and outputs
- The paper develops these aspects with the required technical depth

A discussion starts about setting up a test bed between France, Italy, Spain and United Kingdom, the following questions are raised :

- Which aspects to investigate ?
- Whether to offer "free" access to the test bed

- Who has the possibility to contribute ?

End of the first day

Technical contributions (continued)

- Haitham Cruickshank *Internet Traffic Evaluation for Satellite Network*
- Yim Fun Hu *Fuzzy Handover In Heterogeneous Mobile Networks*
- Robert Rumeau *PCNS: An open experimental DVB-S platform to assess innovative packet oriented services*
- Philippe Raizonville *Demonstrations of New Telecommunication Services Using STENTOR Satellite*
- Laurent Claverotte and Pascal Wuilque *GEOCAST*

## **8. Budget for year 2001-2002**

Considering the low cost of this MCM compared to what was anticipated, the next MCM can be assigned to this year budget

## **9. Organisation of the Action – possible experiments**

If experiments are set up, the aim of these experiments has to be clarified :

- Either to use the experiment as a means to consolidate simulation results
- Or to use the experiment as a medium to promote the Action (e.g. broadcast of the mid-term workshop, dissemination of results)

Erina Ferro proposes to realise a multi-hop experimental network between France, Italy and Spain using the satellite access facilities available in these countries.

Philippe Raizonville announces that the CNES terrestrial station is approved by Hispasat and could be used as an access point.

Robert Rumeau points out that the contents transported through the network has to be clearly identified.

Haitham Cruickshank sees the opportunity to compare quality of service between two communication means, one including a satellite link, the other not.

Franco Davoli expresses his concern about how the quality of service would be impacted if an Internet connection is used between two sites. Although it solves the problem, an ISDN solution (providing a transparent bit pipe) is expensive. Finally, it is decided that a satellite link could not exist by itself since it won't be the case in an real scenario.

Markus Werner points out that such experiments should not exist by themselves. Indeed, they have to be backed up by other studies.

Haitham Cruickshank and Robert Rumeau take the action to put on paper the different ideas and possibilities for setting up experiments (Action 3)

## **10. Next meeting**

The next meeting will be held on 28 February 2002 and 1 March 2002. Mrs Maryan Vázquez-Castro of University Carlos III, Madrid will kindly host the meeting.

A tentative schedule for the 3<sup>rd</sup> MCM is decided : 20 and 21 June 2002 (Thessaloniki, GR) in order to be able to attend to the IST event in Thessaloniki.

Professor Gérard Maral closes the meeting.

ACTION LIST (Note : actions are listed in document actions-WD-01-003-P)

| Action number | Action contents                                                                                        | In charge                            | Initiated on | Status |
|---------------|--------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|--------|
| Action 4      | set up an FTP server as well as an archive facility for the e-mails exchanged on the COST272 reflector | Laurent Franck                       | Oct 2001     | Open   |
| Action 5      | inquire about whether to assign the next MCM to this year's budget or to next year one                 | Laurent Franck                       | Oct 2001     | Open   |
| Action 6      | Write down the different ideas and possibilities for setting up experiments                            | Haitham Cruikshank and Robert Rumeau | Oct 2001     | Open   |

## ANNEX I

### List of Attendants

|                       |                                  |
|-----------------------|----------------------------------|
| Ales Svigelj          | Jozef Stefan Institute           |
| Anne-Laure Philippot  | ENST/TéSA                        |
| Caroline Bazile       | CNES                             |
| Daniel Ratto          | DLR                              |
| Erina Ferro           | CNUCE/CNR                        |
| Franco Davoli         | DIST-University of Genoa/CNIT    |
| Fun Hu                | University of Bradford           |
| Gérard Maral          | ENST/TéSA                        |
| Haitham Cruickshank   | University of Surrey             |
| Laurent Franck        | ENST/TéSA                        |
| Luca Simone Ronga     | University of Firenze/CNIT       |
| Marco Annoni          | Telecom Italia Lab               |
| Marie-Laure Boucheret | ENST/TéSA                        |
| Markus Werner         | DLR                              |
| Maryan Vázquez-Castro | Universidad Carlos III de Madrid |
| Milena Planells       | ENST/TéSA                        |
| Pascal Vuilque        | Alcatel Space                    |
| Patrick Gélard        | CNES                             |
| Philippe Raizonville  | CNES                             |
| Poethi Boedhiartono   | ENST/TéSA                        |
| Robert Rumeau         | CNES                             |