



# TEMPLATE FOR FP6 PROJECT REVIEWS

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**Individual report**  
**Consolidated report**

Thematic Priority/Activity	6 <sup>th</sup> Framework Programme, Priority 2, Information Society Technologies
Instrument type	STREP
Project no and acronym	IST-26905 MASCOT
Project full title	MULTIPLE-ACCESS SPACE-TIME CODING TESTBED
Project start date	01 January 2006
Project duration	To 31-12-2008 (36 months)
Project coordinator name and organisation	Dr. C. Mecklenbrauker Forschungszentrum Telekommunikation Wien (FTW) (Telecommunications Research Centre Vienna)
Period covered by report (from - to)	01-01-2006 – 31-12-2006 14 March 2007
Date of (review) meeting	Torleiv Maseng
Name(s) of reviewer(s)	Dr Vaia Sdralia Dr Tijana Timotijevic
Name of reviewer drafting the report	

## Introduction

This template provides the structure for the review report that needs to be prepared after the project review.

A consolidated report will be prepared after the project hearing by consensus between all project's reviewers.

The reporting requirements for FP6 projects are described in detail in the "Guidance notes on Project reporting in FP6" (downloadable from <http://www.cordis.lu/fp6/find-doc-management.htm#reporting>).

## Questions to be answered by the reviewer(s)

### 1. OVERALL ASSESSMENT

#### a. Executive summary

*Please follow the order of the individual sections of this report*

#### Comments:

The research in WP1 focused on the design of space-time codes, MIMO receiver schemes, and MIMO subcarrier allocation strategies. A key result from WP1 are the newly developed multiuser space-time codes.

WP2 focused mainly on the implementation of reduced-complexity receiverside algorithms. A key result from WP2 is the VHDL implementation of tree-search algorithms as a reduced-complexity detection scheme.

The commercial licensing of the VHDL library to the industry would be an excellent result for the project.

- Good to excellent project (The project has fully achieved its objectives and technical goals for the period and has even exceeded expectations)
- Acceptable project (The project has achieved most of its objectives and technical goals for the period with relatively minor deviations)
- Unsatisfactory project (The project has failed to achieve critical objectives and/or is not at all on schedule)

#### b. Recommendations

Excellent progress has been achieved with well thought-out approach. Theoretical results have been prepared. The quality is good. The results of the packages have not resulted in a joint system result yet. This may happen during the next 24 months.

A minor concern is around the Project's ability to fully demonstrate the advantages of their work when compared to competing alternatives. To that effect the recommendations are:

1. Nokia should be more involved as a partner in the demonstration aspects of the Project, and should provide the guidance w.r.t. commercialisation and exploitation of the Project's results.

2. In the next 24 months some time should be dedicated to planning of the demonstration with an aim to attract potential investors.

## 2. OBJECTIVES

a. Have the objectives for the period been achieved?

Yes

Partially

No

Comments:

b. Are the overall objectives (i) still relevant and (ii) still achievable within the time and resources available to the project?

(i)  
  
Yes

Partially

No

(ii)  
  
Yes

Partially

No

Comments:

c. Do you recommend changes in objectives in order to keep up with the current state-of-the-art?

Yes

Partially

No

Comments:

It could be beneficial if those involved in WP1 could formulate computational HW structures and HW complexity metrics. That would be helped by greater cross-WP collaboration.

### 3. WORKPLAN AND RESOURCES

a. Has the project as a whole been making satisfactory progress in relation to the Description of Work (Annex I to the contract)?

Yes

Partially

No

Comments:

b. Has each work package (WP) been making satisfactory progress in relation to the Description of Work (Annex I to the contract)?

Yes

Partially

No

Comments:

Some WPs are slightly delayed while others are ahead of their plan. It appears that this is a result of some issues with resource allocation. Overall, the Project has made good progress and the delays are minor and catered for.

c. Have planned milestones and deliverables been achieved for the reporting period?

Yes

Partially

No

Comments:

d. Have resources been deployed as foreseen in Annex I, overall and for each participant?

Yes

Partially

No

Comments:

Majority of the partners have underspent their planned resource allocation, except the ETHZ, who have overspent.

e. Have costs incurred, i.e., personnel costs and other major cost items, been 1) necessary for the implementation of the project and 2) economic. Note that both aspects 1) and 2) have to be covered in the answer.

Yes

Partially

No

Comments:

Overall, the project has underspent relative to its planned budget for the first year; however this has been accounted for and will be corrected in the next 24 months. Financial tracking seems in order.

**f. For Networks of Excellence (NoEs) only:**

f1. Is there evidence of real integration and restructuring of activities between partners (to be evaluated against Indicators of Integration, e.g., exchanges of personnel, shared infrastructures, joint research and training activities, changes of research orientation of individual partners to better integrate into the NoE, etc).

Yes

Partially

No

Comments:

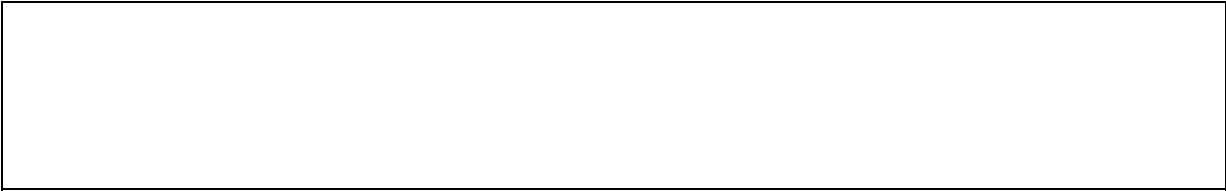
f2. Does the joint research performed under the NoE as a whole continue to qualify as excellent?

Yes

Partially

No

Comments:



#### 4. WORK PLANNED FOR THE NEXT 18-MONTH PERIOD

Is the proposed update to the *Implementation Plan (IPs)* or *Joint Programme of Activity (NoEs)* or for the next 18-month period satisfactory. For STREPs, SSAs and CAs comment on their plans for the next period.

a. from a scientific/technical point of view?

Yes

Partially

No

Comments:

The project is ambitious and a lot work remains to be done. The Project should remain focused, especially WP2. Features that should be tested in the demonstrator need to be frozen soon in order to achieve the project goals in time and allow for the last minute changes should that be necessary.

b. from a management point of view including use of resources?

Yes

Partially

No

Comments:

There is no clarity on resource utilisation per partner w.r.t. project timeline, just w.r.t. WPs. However the distribution of work seems well thought.

c. concerning non-scientific activities (dissemination, exploitation, training, science-society issues, further integration etc)?

Yes

Partially

No

Comments:

## 5. CONSORTIUM PARTNERSHIP

a. Has the collaboration between the participants been effective?

Yes

Partially

No

Comments:

It appears that within WPs the links between the participants are strong and very productive. However, greater cross-WP collaboration would be beneficial. Joint publications are encouraged.

b. Have the partners contributed as planned to the project and tasks assigned to them?

Yes

Partially

No

Comments:

c. Do you identify any conflicts or evidence of underperforming partners, lack of commitment or change of interest of any partners? Do you recommend any changes in responsibilities?

Yes

Partially

No

Comments:

## 6. MANAGEMENT

a. Has the scientific/technical management been performed as required?

Yes

Partially

No

Comments:

b. Has the administrative and financial management been performed as required ((including proper handling of contractual matters, maintenance of the consortium agreement, intellectual property rights, technical collective responsibility, sub-contracting, competitive calls)?

Yes

Partially

No

Comments:

From the information available it appears that there have been no major issues and that the consortium is being managed well.

c. Have (electronic) information and communication networks been established as required to support interactive working between the teams involved (if relevant)?

Yes

Partially

No

Comments:

The web site of the project is well designed and easy to navigate.

d. Is the consortium interacting in a satisfactory manner with other related 5th and 6th Framework projects or other R&D national/international programmes (if relevant)?

Yes

Partially

No

Comments:

## 7. USE AND DISSEMINATION OF KNOWLEDGE

a. Does the project have significant use potential (if applicable)?

Yes

Partially

No

Comments:

Very impressive publication record.  
The commercial licensing of the VHDL library to the industry would be an excellent result for the project.

b. Is the Plan for the Use and Dissemination of Knowledge developing in a satisfactory manner?

Yes

Partially

No

Comments:

Please refer to Recommendations.

c. Have the contractors disseminated project results and information as foreseen by the contract and the plan for dissemination and use of knowledge (publications, conferences...)?

Yes

Partially

No

Comments:

d. Are potential users and other stakeholders (outside the consortium) suitably involved (if applicable)?

Yes

Partially

No

Comments:

Planned workshops and special sessions at conferences should facilitate stakeholder involvement.

The partners have successfully identified the potential of licensing the VDHL library and the actions required to achieve commercialisation.

## 8. OTHER ISSUES

a. Have policy-related and/or regulatory issues been properly handled (if applicable)?

Yes

Partially

No

Comments:

N/A

b. Have ethical issues been appropriately handled (if applicable)?

Yes

Partially

No

Comments:

N/A

c. Have safety issues been properly handled (if applicable)?

Yes

Partially

No

Comments:

N/A

d. Has progress on the Gender Action Plan been satisfactory (if applicable for this reporting period)?

Yes

Partially

No

Comments:

N/A

Name (s) of the reviewer(s): Torleiv Maseng

Date: 14 March 2007

Signature(s):

Name (s) of the reviewer(s): Vaia Sdralia

Date: 14 March 2007

Signature(s):

Name (s) of the reviewer(s): Tijana Timotijevic

Date: 14 March 2007

Signature(s):

## APPENDIX to the reviewers report

- a. **Status of project reports and deliverables** (*columns (a)-(h) to be pre-filled by the Project Officer; columns (i)-(m) to be completed by the reviewer*)

Delno. (a)	Deliverable name (b)	WP no. (c)	Lead participant (d)	Estimated indicative person-months*) (e)	Nature (f)	Dissemination level (g)	Delivery date from DoW (proj. month) (h)	Used indicative person-months (i)	Actual/Forecast delivery date (j)	Status (k)	Resubmission date (l)	Remarks (m)
	D.1.1.1									A	-	
	D.2.1.1									A	-	
	D.4.2									A	-	
	D.5.1									A	-	
	D.5.3									A	-	

\*) if available