

Deliverable Report

Grant agreement no:	224132 - Collaborative Projects (CP)
Deliverable reference:	D8
Corresponding workpackage:	WP8
Deliverable title:	MAC-TFC web site (update)
Deliverable status (public/confidential):	PU
Responsible Partner:	UFC-P5
Editor:	Christophe GORECKI
Approved by:	Alain MICHAUD
Date of approval:	12 /10 /2009
Version:	1.0

Executive summary:

This deliverable describes the architecture MAC-TFC website which is operational since April 2009.

Document Information

	Information
Document Id	Report of Deliverable D8
File(s) Name(s)	mac-tfc_D8-1-year.pdf

Document History

Version	Issue Date	Changes
1.0	28/09/2009	

Document Approvals

Role	Name	Signature	Date
Document Editor	C. Gorecki		28/09/09
Document Reviewer	A. Michaud		13/10/09

Contributing partners

Group	Name(s)	Role
UFC-P5	C. Gorecki	
OSA	A. Michaud	

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1. Introduction

The workpackage concerned by this deliverable is WP8. WP8 is implemented to guarantee the effective dissemination and use of the achievements and to promote the applications of MEMS atomic clock. During the period of first periodic reporting (PR1: from M1 to M12) three sub-workpackages were active:

- WP8.2 Creation of website
- WP8.3 Strategy of publications via conferences, presentations and tutorials
- WP8.4. Dissemination of project results

This report will focus on the creation of MAC-TFC website, which is our main tool to disseminate and exploit the results.

2. Creation of MAC-TFC website

The address of MAC-TFC website is:

<http://www.mac-tfc.eu/>

2.1. Rational

The communication via a website is definitely one of the most important ways of disseminating contents of a scientific proposal. Consequently, in today's society information technologies, setting up a website is as important as any classical systems of publication and dissemination. In the following sections, we will speak about two parts of MAC-TFC website which are the MAC-TFC extranet and MAC-TFC intranet. In addition, a limited number of communication facilities of our management platform VITAMIB, completing the extranet facilities will be reported, completing the facilities of MAC website.

The extranet part of MAC-TFC website is accessible without any passwords and the overall objective is to disseminate and exploit the results of the MAC-TFC project and make the benefits and achievements known to the largest target audience as possible. The intranet part of MAC-TFC website is only accessible for partners. It contains a number of specific sections and offers the access to the management platform of MAC-TFC VITAMIB. The objective of extranet is to offer facilities to make easier the organisation of collaborative work between MAC-TFC partners and all the facilities of an administrative and financial project management consistent with the Consortium Agreement, the specific MAC-TFC road-map and the EC requirements.

2.2. Target audience

- The Project Officer in Brussels who is the representative of the European Commission.
- Community of MAC-TFC consortium: as the consortium is composed of people from 10 groups dispatched over Europe (2 sites in France, 4 in Switzerland, 1 in Poland, 1 in Finland, 1 in Germany and 1 in Italy), it is then important to keep track of continuous information shared (events, meetings, news or announcements, deliverables, etc...).
- Larger scientific community including time & frequency and Microsystems: it is crucial to share the latest progress with the wider research communities through technical results and achievements and valorisations actions.
- The research community, other ICT projects and other players concerned by new architectures of frequency standards or working in the field of MAC-TFC project
- Wide public: vulgarisation is an important challenge of the MAC-TFC website. We introduced such vulgarisation by describing the background of the research, considering that the frequency & time metrology concerns a wide public. Such introduction to the topic of miniature atomic clocks, make easier the understanding of MAC-TFC technical context and challenges.

We consider that the dissemination to the Industry community shall be done through vulgarisation. The main target here is to identify and assess the possible application of MAC-TFC in the various industry segments. Vulgarisation will generate interest which in turn will generate the needed feedback from industry leaders (see MAC-TFC advisory board).

2.3 Finalised architecture of MAC-TFC website

The deliverable D08 (January 2009) introduced the architecture we proposed to for build the website of MAC-TFC proposal. The MAC-TFC web site is has been operational. since April 2009 This section describes the state of website at M12.

2.3.1 Architecture of extranet

The extranet of website is divided into 7 main areas to accommodate the information needed by a variety of target audiences.

2.3.1.1. Home Page or Project page

The home page briefly introduces the MAC-TFC vision with a description to proposal challenges, a short state-of-the art of MEMS atomic clocks and the list of scientific objectives. It serves as the main portal and should contain the minimum, though enough set of information that describes the project.

The screenshot shows the home page of the MAC-TFC project. At the top, there is a navigation bar with a logo on the left and a 'member access' button on the right. The main title is 'MEMS ATOMIC CLOCKS for TIMING, FREQUENCY CONTROL & COMMUNICATIONS'. Below the title is a horizontal menu with links: PROJECT, CONSORTIUM, WORKPLAN, DELIVERABLES, DISSEMINATION, EVENTS, and CONTACT. The main content area features a large heading 'MEMS Atomic Clocks for Timing, Frequency Control & Communications' and a vertical sidebar on the left with the text 'MEMS ATOMIC CLOCKS for TIMING, FREQUENCY CONTROL & COMMUNICATIONS'. The central text provides details about the project's funding: 'Seventh Framework Programme', 'Funding schema: Small and medium-scale focused research projects', and 'Call: ICT-2-3.0/Micro and Nanosystems'. It also lists the dates '1 September 2008 - 31 August 2011' and the grant agreement number '224132'. The coordinator is identified as 'Dr Christophe Gorecki' from 'FEMTO-ST - Université de Franche-Comté (UFC-P5)', with contact information 'christophe.gorecki@femto-st.fr - +33 381666607'. The administrative contact is 'Paulline Fournier', 'EU Affairs Manager' at 'SAIC - Université de Franche-Comté', with contact information 'paulline.fournier@univ-fcomte.fr - + 33 381665814'. The 'Introduction' section begins with a paragraph about atomic clocks, stating they provide enhanced accuracy, stability, and timing precision compared to quartz-based technologies, but their size and power consumption are a challenge. It notes that MEMS technology is emerging to provide similar advantages for frequency and timing references. The text concludes by stating that MAC-TFC brings together a consortium of five major academic institutions, two research institutes, and three industrial partners.







2.3.1.2 Consortium

This section contains information about the composition of the partnership by categories (academic partners, research partners, industrials). Each partner provides logos, names and links to their own website.

CONSORTIUM

The optimal size of the consortium of 10 partners gathering all the required competences constitutes a multi-disciplinary research team, involving academic partners, international research groups and industrials.

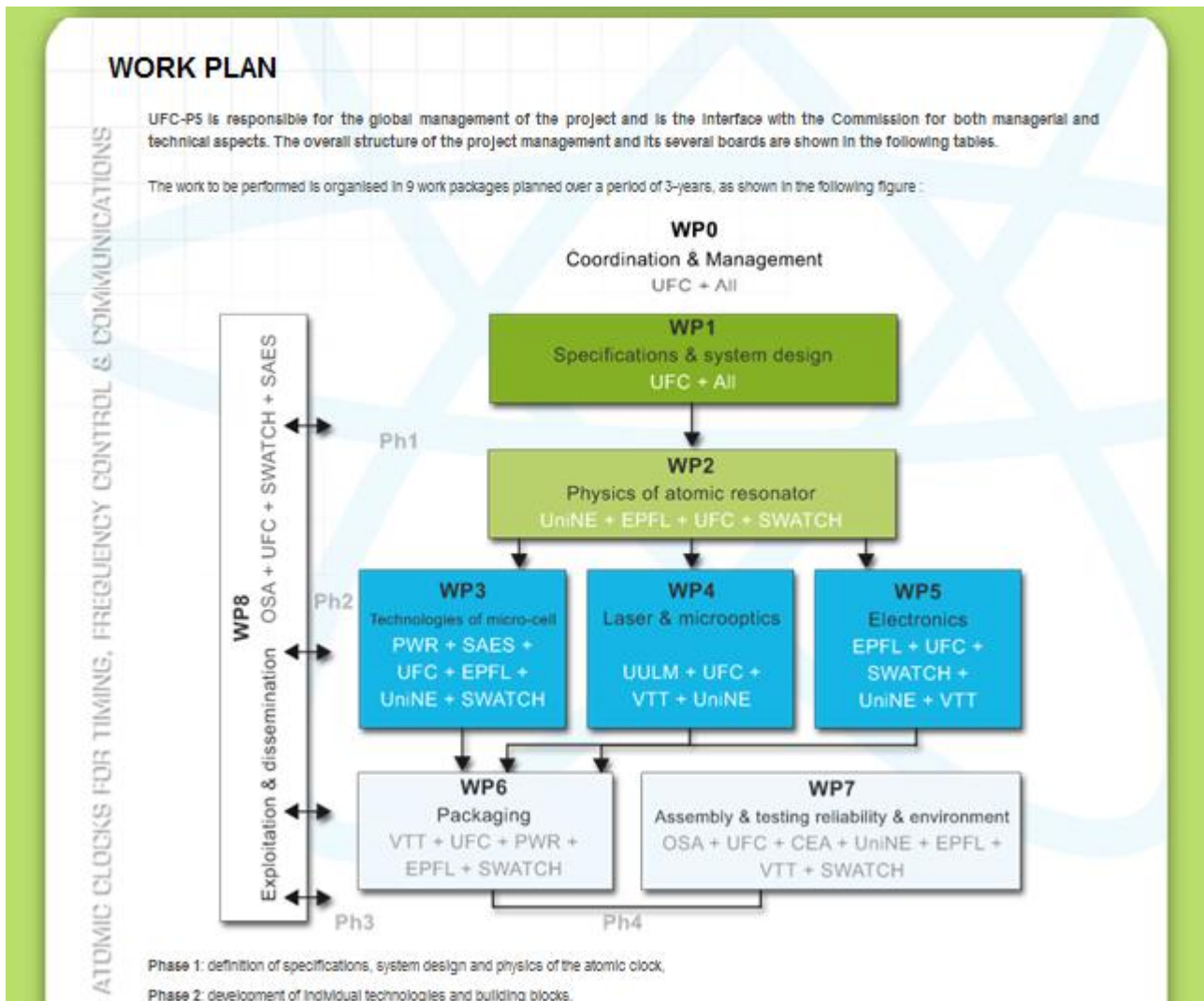
PARTNERS

Academic partners				
Université de Franche-Comté	UFC-P5	France		www.femto-st.fr
Université de Neuchâtel	UNINE	Switzerland		www2.unine.ch/itf
Ecole Polytechnique Fédérale de Lausanne	EPFL	Switzerland		www.epfl.ch
Politechnika Wroclawska (Wrocław University of Technology)	PWR	Poland		www.pwr.wroc.pl
Universität Ulm (Ulm University)	UULM	Germany		www.uni-ulm.de/opto
Research institutes				
VTT Technical Research Centre of Finland	VTT	Finland		www.vtt.fi
Commissariat à l'Énergie Atomique	CEA	France		www-ietl.cea.fr
Industrial partners				

MIC CLOCKS FOR TIMING, FREQUENCY CONTROL & COMMUNICATIONS

2.3.1.3. Workplan

This Section describes the work package structure and role as well as the interaction between them in order to fulfil the objectives of the project.



2.3.1.4. Deliverables

This Section provides direct access to a summary of the entire project’s deliverables whether public or confidential. When the deliverables are public they are accessible without any access granted. When the deliverables are confidential, only partners and the Project Officer will have access through a log-in system. This approach allows to have quick access to these crucial information without requiring to access to the intranet of the website.

DELIVERABLES

Deliverables are either reports (downloadable files) R or Prototypes P

Dissemination Level : All deliverables, except public ones, require an internal access.

PU - Public (downloadable files)
RE - Restricted to a group specified by the consortium
CO - Confidential (only open to consortium participants)

Deliverable No.	Deliverable name	Nature	Level
D1	Kick-off minutes	R	CO
D2	MEMS atomic clock specifications	R	CO
D3	Laser specifications	R	CO
D4	Electronic specifications	R	CO
D5	Review and selection of the clock scheme	R	CO
D6	Detailed spec report	R	CO
D7	MAC-TFC flyer	R	PU
D8	MAC-TFC web site (updated each 6 months)	R	PU

2.3.1.5. Dissemination

This section will collect and present to the public all the scientific production of the consortium including journals magazines, conferences, international workshops, book chapters, MAC-TFC related publications of any interest for the consortium and publicity material such as flyers posters logos.

DISSEMINATION

If the publication is not available on the web (depends on publishers' policy) please **contact us** to get a PDF file of the publication.
-> [Contact page](#)

Journals - magazines

- L. Nieradko, C. Gorecki, A. Douahi, V. Giordano, J.-C. Beugnot : 'New approach of fabrication and dispensing of micromachined cesium vapour cell', 'Micro/Nanolithography, MEMS, and MOEMS', vol. 7, 033013 (2008)
- A. Douahi, L. Nieradko, J. C. Beugnot, J. Dziuban, H. Maillote, S. Guerandel, M. : 'Vapour microcell for chip scale atomic frequency standard', 'Electronics Letters', vol. 43(5), 279-280 (2007)

2.3.1.6. Events

Here, a table with internal MAC-TFC meetings and workshops and meetings with their respective dates, location and other short information are given.

EVENTS

36 months of cooperation around the atomic clock through main events.

Date	Event	Location	Info
2009-10-06	First Year Meeting	SAES Getters Lainate ITALY	Detailed agenda of the meeting (last updating: 15/09/2009)
2009-10-06	First Year Meeting - practical information	Lainate Italy	Hotel fares, address and various maps
2009-04-27	packaging workshop	Oulu Finland	meeting Agenda will be given by Antti + draft of minutes
2009-04-21	EFTF-IFCS joint meeting	Besançon	Proceedings will be loaded when available Abstract are available on: http://www.eftf-ifcs-2009.com/
2009-03-04	6-month technical meeting & GA/MST meeting	LTF, UNINE, Neuchatel, Switzerland	Discussion on management, administration and technical aspects of proposal
2008-11-21	MAC-TFC Technical Workshop	PWR, Technical Workshop, POLAND	Discussion on technical challenges and goals of MACTFC
2008-11-05	Synergy meeting between FEMTO/UFC and UNINE	FEMTO-ST, Besançon, FRANCE	Discussion on workpackages WP1/WP2 and technological aspects
2008-08-27	Kick-off meeting	FEMTO-ST, UFC, 25000 Besançon, FRANCE	Start of MAC-TFC project (link to D1)

2.3.1.7. Contacts

This section will offer a contact address (Coordinator & Administrative Contact) to deal with requests from website users as well as the box for the communications via a special email address of Consortium.

CONTACT

Coordinator :
 Dr Christophe Gorecki
 FEMTO-ST - Université de Franche-Comté (UFC-P5)
christophe.gorecki@femto-st.fr
 +33 381666607

Administrative Contact :
 Pauline Fournier
 EU Affairs Manager
 SAIC - Université de Franche-Comté
pauline.fournier@univ-fcomte.fr
 + 33 381665814

Formname / Name :

E-mail :

Telephone :

Message :

2.3.2 Architecture of intranet

The Intranet of website is divided into 7 main sections: *Management, Deliverables, Dissemination, Events, Contact list, Templates, and Work documents*. Certain of these sections (*Deliverables, Dissemination, Events*) are playing the role of the access gates to the sections which are visible from the MAC-TFC extranet. In particular, all public documents are available under the format of pdf file, Winword file or Power Point presentation. The 4 other sections (*Management, Contact list, Templates, Work documents*) contains all useful documents for MAC-TFC Partners.

2.3.2.1 Management

This section permits the access to the management platform of MAC-TFC, the VITAMIB via the button “project netboard”. It also explains the governance of the consortium: the content of GA and MST and the main reports –(agenda meeting – minutes)are loaded to make the research of information easier for members of the boards.

project netboard

This link will forward you to the management platform of Mac-TFC (Vitamib) which requires a password.
The management platform is used for EC reporting. It deals with the financial aspects (efforts and expenses)and activity reporting.
A user guide for the Vitamib platform can be uploaded in the work documents as a PDF file.

Due to high confidentiality of data, we suggest that the access to the Vitamib platform to be limited to a restricted number of persons within your group.

GOVERNANCE

The **General Assembly (GA)** will be the decision-making body of the MAC-TFC Consortium. The **Management Support Team (MST)** will assist the GA and the Coordinator

The GA shall consist of a representative of each Partner (including the Coordinator). The GA assumes overall responsibility for liaison between the partners in relation to the project, for analysing and approving the results, for proper administration of the project and for implementation of the provisions contained in the Consortium Agreement.

The meetings of GA and MST will be organised at least twice a year.

The MST will play the double role of assistance body for the general management and for the technical management of the MAC-TFC project. MST meetings will be organised at least twice a year. The MST will be chaired by the Coordinator and will contain one representative of each Partner and one delegate per work package leader, if necessary.

	GA	MST	
Université de Franche-Comté	Christophe Gorecki	Vincent Giordano	Christophe Gorecki
Université de Neuchâtel	Gaetano Mileti	Gaetano Mileti	
Politechnika Wroclawska	Jan Dziuban	Jan Dziuban	
Ulm University	Rainer Michalzik	Rainer Michalzik	
VTT Technical Center of Finland	Pentti Karioja	Pentti Karioja	Antti Këranen
Commissariat à l'Energie Atomique	Jean-Michel Léger	Mathieu Le Prado	
SAES Getters Group	Luca Mauri	Luca Mauri	
Swatch Group R&D LTD, division ASULAB	Joachim Grupp	Alain Jornod	François Gueissaz
Ecole Polytechnique Fédérale de Lausanne	Pierre-André Farine	Steve Tanner	
Oscilloquartz S.A.- Swatch group	Jean-Pierre Aubry	Patrick Berthoud	Alain Traverso

2.3.2.2 Deliverables

This section permits to organise the procedure of preparation and review of MAC-TFC deliverables. First the Editor of the deliverable loads the report, ready for the review in this Section. Then, the deliverable is reviewed by the Reviewer (or two Reviewers) who loads the modified file. Finally, the Coordinator validates the reviewed report. The definitive version of deliverable file, ready for the Commission is loaded and the status of the deliverable is defined:

- the content of deliverable is visible from the extranet if the deliverable is public (PU), or
- only the title of deliverable is visible from the extranet if the deliverable is confidential or restricted (CO, RE).

Deliverables

Editor task

Editor (firstname, name) :

Document : load the file

Title of the document:

Reviewer task

Reviewer (firstname, name) :

Review : load the review

Validation

Show to the public ?

Coordinator task **load the final document on VITAMIB**

At this stage the deliverable is validated by the button “submit”. All deliverable reports are accessible for Partners from the intranet. Deliverables are loaded by the coordinator on the management platform in connection with a calendar. The platform opens a space of dialogue. Each partner involved in the WP can summarize this work .The WP leader can propose a summary of remarks which can be helpful for the technical report.

Deliverables sorted by number							
N°	Editor	Title	Reviewer	Validation	Public view	Delete	Modify
M3	C. Gorecki/V. Giordano	Updated specifications of the MEMS atomic clock	C. Gorecki/V.Giordano	yes	no		
M2	C. Gorecki	End of review and selection of architecture and subblock	on the basis of D6	yes	no		

2.3.2.3 Dissemination

This Section is a mirror of the corresponding Section, visible from the extranet. But here, all dissemination files (article, presentation) are accessible for the Partners. Only the files corresponding to Publicity Materials are visible from the extranet. This is an important section of the website, since it presents all the technical achievements in terms of publications: press release and technical papers.

2.3.2.4 Events

This Section is a mirror of the corresponding Section, visible from the extranet. In this section some files are loaded such as meeting minutes, meeting agendas to simplify the research of information for partners.

2.3.2.5 Contact list

This Section contains the personal data of all MAC-TFC co-workers. This permits to generate the mailing list of the Consortium.

:: All the Contact sorted by Organisation ::

Organisation	Name	Role	Address	E-mail	Mobile
VTT	Antti KERANEN	Senior Scientist - WP6 Manager	VTT Kaitovayla 1 90570 Oulu Finland	antti.keranen@vtt.fi	+358 407078874
VTT	Pentti KARIOJA	Professor - WP6 Leader	VTT Kaitovayla 1 90570 Oulu Finland	pentti.karioja@vtt.fi	
VTT	Mikko HEIKKINEN	Scientist	VTT Kaitovayla 1 90570 Oulu Finland	mikko.heikkinen@vtt.fi	

2.3.2.6. Templates

This Section contains the models of files for reporting (deliverables, milestones).

2.3.2.7. Work documents

This Section contains all necessary working documents of the consortium including the minutes and presentations of different MAC-TFC meetings, technical reports other than the deliverable reports, last versions of Annex 1, Grant Agreement and Consortium Agreement and so on. This Section is only opened for MAC-TFC Partners. It does not refer to a section in the intranet

2.3.3 Facilities of VITAMIB other than managerial tasks

The management platform VITAMIB, which can be accessible from the section “Management” of MAC intranet contains several sections completing the facilities present in MAC-TFC website. If the main role of VITAMIB is to help in the preparation of financial and activity reporting of the project, VITAM contains section making easier the organisation of meetings and dissemination:

2.3.3.1. Meetings

The Coordinator and the Partners responsible can plan and manage the meetings of Consortium including the list of participants, preparation of agenda, hotel booking, etc..

Meeting

View / Download :

- Meeting information
- Meeting attendance
- Meeting hotel booking
- Meeting agenda

Here you can manage your meetings.

Actions

- Back to meetings list
- Add a meeting
- Delete current meeting
- Close current meeting

1-year meeting

MAC-TFC preliminary packa...

slides of the 6 month mee...

6 month Mac-TFC meeting

Meeting

Title: 1-year meeting

Starting date: 06/10/2009

Ending date: 07/10/2009

Organized by: P07 - SAES

Location: Lainate Italy

Description: Hotel informations and social events are now completed(Monday, sept 20th). Meeting location : SAES Getters in Lainate.

Upload file: Hotels and Transport for Lainate Meeting.doc

Delete this document

AGENDA

06/10 | 07/10

Meeting participants

Add participant

Participant	Number of participants :
CO01 - UFC-P5	6
Rodolphe Boudot	05/10/2009 to 07/10/2009
Christophe Gorecki	05/10/2009 to 07/10/2009
Serge Galliou	05/10/2009 to 07/10/2009
Madoka Hasegawa	05/10/2009 to 07/10/2009
Nicolas Passilly	05/10/2009 to 07/10/2009
Vincent Giordano	05/10/2009 to 07/10/2009
P02 - EPFL	9
Toralf Scharf	05/10/2009 to 07/10/2009
Yazhou Zhao	05/10/2009 to 07/10/2009
Pierre-André FARINE	05/10/2009 to 07/10/2009

2.3.3.2 Dissemination of Foreground

The “Foreground” section allows persons to declare the publications and the exploitable foreground of Partners. Each scientific publication related to the Project and which content is funded (or co-funded) by the European Commission should be registered in this page.

The list of publications obtained can be downloaded.

Template A : LIST OF SCIENTIFIC (PEER REVIEWED) PUBLICATIONS, STARTING WITH THE MOST IMPORTANT ONES							
N°.	Title	Main author	Title of the periodical or the series	Number, date or frequency	Publisher	Place of publication	Year of publication
1	Analyse thermique de la cellule de Césium d'une micro horloge atomique	Junje He	Mémoire de Master - Sciences Pour l'Ingenieur	13 fevrier 2009	Université de Franche- Comté	Besançon	2009