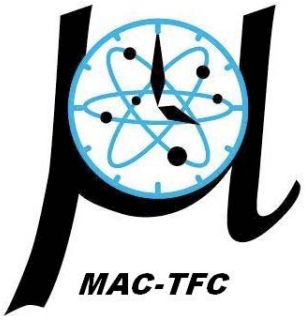

Deliverable Report

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Executive summary:

This deliverable describes the last updates of MAC-TFC website, operating at 15th of April 2010.

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Role	Name	Signature	Date
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Contributing partners

Group	Name(s)	Role
UFC-P5	C. Gorecki	Modifications of website
OSA	A. Michaud	WP leader

Table of Content

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1. Introduction

The work package 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. As the complete architecture of MAC-TFC website is described in previous deliverables (D8-1, D8-2), this report includes only the review of last updates.

2. Latests updates of MAC-TFC website

Since January 2010 the only one modification of MAC-TFC website consists in addition of a page focusing on the achievements obtained during the first reporting period. During the year 1 of MAC-TFC proposal, the Consortium focused on establishing theoretical limits of MEMS atomic clocks and demonstrating practical design and fabrication feasibilities, optimizing the performances of the atomic resonator. In parallel, the developments of building blocks for the miniaturized clock started : a fully customised semiconductor laser, several innovative approaches of Cs cells, low-power ASIC for the analog RF electronics, and the preliminary version of LTCC-packaging. The achievements are illustrated by the following gallery of images:

Madoka's T-cell after activation of alkali vapor by Piotr (UFC-P5)

Ravinder's cavity of R-cell (UFC-P5)

Pawel's version of glass I-cell (PWR)

Luca's prototype of Cs min-pills (SAES)

View of Danijela's experimental clock (UniNE)

Antti's manufactured LTCC platform pads for pads of VCSEL (VTT)

Ahmed's polarization-stable VCSEL with a monolithic surface grating (UULM)