I. BPM based robust e-business application development

Project start: February 1, 2001, duration: 23 months.

Amount of support: KHUF 36 600, total project cost: KHUF 73 200.

Project leader: **Friedler Ferenc Dr.**
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Project URL: *<http://www.dcs.vein.hu/friedler>*

II. Consortium members (number of members = **5**, the first member is the project co-ordinator)

no	name	support	total cost
1.	University of Veszprém, Dept. of Computer Science	KHUF 14 900	KHUF 29 800
2.	University of Veszprém, Dept. of Tourism	KHUF 6 350	KHUF 12 700
3.	Budapest University of Technology and Economics, Dept. of Measurement and Information Systems	KHUF 6 350	KHUF 12 700
4.	Budapest University of Technology and Economics, Centre of Infomation Technology	KHUF 6 000	KHUF 12 000
5.	Balatontourist Tourism and Trade Company Ltd.	KHUF 3 000	KHUF 6 000

III. Public presentations

Presentation #1 (28-február-2001):   HTML (1708 KB)

Presentation #2 (21-november-2001): HTML (432 KB)   PPT (44 KB)   HTML (220 KB)

The presentations are accessible through a special webpage summarizing the project presentations.

IV. Goals of the project

In the field of business information systems, the greatest challenge is to put the company's external and internal data on a uniform standard information basis. Thanks to the possibilities provided by the Internet and intranet, e-commerce applications will shift to the more complex e-business applications that allow wider functionality. - Most large companies have already recognized this possibility, thus at these companies e-business is coming more and more into general use. Only large companies are able to finance the introduction of e-business systems, and their stable business environment also guarantees the reliability of servicing to a certain level. The spreading of e-business among small and medium sized companies is held up by the needs of robustness for reliable functioning in the extremely heterogeneous environment and by the needs of providing lower price and easier application development. - First of all, it must be understood that the aim of the project is not to create an e-business environment or an e-business application, but to provide a framework for all those who wish to develop e-business applications. - The aim of the project is to elaborate and test a BPM (Business Process Modeling) based robust e-business application development framework, which can be used to develop efficient and reliable e-business applications. During the project, sophisticated methods will be systematically used taken from the fault-tolerant computer science technology to escalate the robustness. The project gives methods to extend the UML language, which is used in modeling computer science solutions, to the logical, qualitative and quantitative modeling of the whole application environment. The project outcomes will give a solution to avoid the low quality services and dropouts raising from the unreliability and faulty of the heterogeneous application environments. It will offer a reliable and efficient development method for the e-business applications of the smaller and medium-sized companies. - In order to demonstrate and prove the practical usefulness of the novel results raising from the research phase of the project, a pilot-application will be developed, which will be done by using the suggested development methods. An experimental sample will be made to test

the practical usefulness of the framework. At the end of the experimental phase, the results collected from the testing will be evaluated in order to utilize the experiences in further developments and to transform the pilot application into a marketable product.

The abstract of the project – PDF (12 KB) – is available via the webpage summarizing the basic project data.

V. Project results (in case of finished projects)

The project is not finished.

VI. Data on consortium members (number of members = **5**)

1. *University of Veszprém, Dept. of Computer Science* (co-ordinator)
   URL: <*http://www.dcs.vein.hu/friedler*>
   Support for the co-ordinator: KHUF 14 900, and its total cost: KHUF 29 800.
   Contract number: OMFB-00186/2001.

   Team leader: **Friedler Ferenc Dr.**
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2. *University of Veszprém, Dept. of Tourism*
   URL: <*http://www.vein.hu/mk/tszk/turizmus*>
   Support for the consortium member: KHUF 6 350, and its total cost: KHUF 12 700.
   Contract number: OMFB-00187/2001.

   Team leader: **Mayer Péter**
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3. *Budapest University of Technology and Economics, Dept. of Measurement and Information Systems*
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   Contract number: OMFB-00188/2001.

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4. *Budapest University of Technology and Economics, Centre of Infomation Technology*
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   Support for the consortium member: KHUF 6 000, and its total cost: KHUF 12 000.
   Contract number: OMFB-00189/2001.

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5. ***Balatontourist Tourism and Trade Company Ltd.***

URL: <***http://www.balatontourist.hu***>

Support for the consortium member: KHUF 3 000, and its total cost: KHUF 6 000.
Contract number: OMFB-00191/2001.

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