

Datasheet of the IKTA4/085 project

I. On-line disaster recovery management of distributed databases

Project start: January 1, 2002, duration: 27 months.

Amount of support: KHUF 62 600, total project cost: KHUF 126 200.

Project leader: **Tim Zoltán**

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Project URL: <<http://www.itech.hu>>

II. Consortium members (number of members = 2, the first member is the project co-ordinator)

| <i>no</i> | <i>name</i> | <i>support</i> | <i>total cost</i> |
|-----------|---|----------------|-------------------|
| 1. | Insurance Technology Ltd. | KHUF 33 000 | KHUF 67 000 |
| 2. | Budapest University of Technology and Economics, Dept. of Measurement and Information Systems | KHUF 29 600 | KHUF 59 200 |

III. Public presentations

No presentation is available.

IV. Goals of the project

Big organizations are very dependent from their complex IT systems, hence incidental data loss or database inconsistency caused by stop of their systems, may cause significant financial damage to them, that may compromise their financial stability, but in extreme circumstances can affect the whole national economy.

Our experience is that Hungarian organizations aren't prepared for disaster recovery, since they usually don't have any disaster recovery plan or proper data backups. Every company must face the risk, that sooner or later serious errors or disaster will occur that affects their computer system or databases.

Depending on the experiences of some already created disaster recovery plans, usually the specified prevention tasks are not carried out properly (they are not enforced), and maintenance tasks are also neglected due to lack of any supporting tools.

At big organizations that operate huge, distributed systems being linked with each other, communicating with each other, is almost impossible to recover after a disaster by independently restoring systems. The reason for this is, that at the time of the disaster, there may be transactions, which are backed-up in one system, and aren't in the other communicating party. Thus, if all systems return to their own backed up state, inconsistency will turn up between the systems. Because of this effect a centrally coordinated safety backup mechanism and the harmonized restoration of these independent databases are required.

We wish to develop and test a system framework that:

enhances creation of disaster recovery plans,

controls the prevention tasks, which can also be automated,

warns upon the required tasks that need human interactions,

registers the tasks already be done,

creates central statistics,

monitors the transactions, and centrally controls safety backups accordingly,

traces the infrastructure and requirement changes, and automatically alters the disaster recovery plan accordingly,

prints, and exports the plans to a mobile workstation in a handleable format.

Resulting system can solve disaster recovery planning and maintenance problems at small and big enterprises.

V. Project results (in case of finished projects)

The project is not finished.

VI. Data on consortium members (number of members = 2)

1. Insurance Technology Ltd. (co-ordinator)

URL: <<http://www.itech.hu>>

Support for the co-ordinator: KHUF 33 000, and its total cost: KHUF 67 000.

Contract number: .

Team leader: **Tim Zoltán**

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2. Budapest University of Technology and Economics, Dept. of Measurement and Information Systems

URL: <<http://www.mit.bme.hu>>

Support for the consortium member: KHUF 29 600, and its total cost: KHUF 59 200.

Contract number: .

Team leader: **Hornák Zoltán**

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