Strategic Positioning of ISM*Migration

Design Principles

Upon setting up the design principles of a migration process we think that the following rules should be followed:

- Migrate **all the elements** of an application to the new environment with the benefits of its modern **native technology options**.
- Reduce the **cost of** both **migration** and **ongoing maintenance** by our **joint** thorough **analysis**, **understanding** and **mining** of the **business rules**.
- Create a **24 – 7 application** whenever and wherever possible.
- Create a data model which is **transparent** to the end user and administrator and overcomes all restrictions of the older products.
- Offer an environment which as a whole offers the **lowest Cost of Ownership.**
- Take care of **language support.**
- **Open interfaces** to other (primarily Oracle) applications
- Implement a State-of-the-Art **Java client front-end technology**

1 Create a 24 – 7 Application: available 24 hours 7 days a week

At all installations of our major customers the database normally never has to be stopped to perform any maintenance task for their main applications. Online Backup is used by the customer to perform the backup tasks.

The various application tasks will be analysed carefully in order to find out if any tasks may conflict with the goal for 24 –7.

2 Create a Transparent Data Model for End Users and Administrators

We always put special emphasis on the naming convention of tables and table columns. Upon introducing new objects we carefully decide for the name of these items. The users may use the standard SQL-language of **Oracle**® or a graphic tool for accessing the data base and the whole data model may be accessed by the “qualified user” in read-only mode.

3 Lowest Cost of Ownership

This target has been the main reason why client-server mode has not been chosen for our migration strategy and we immediately switched to the **Browser Front-end Technology**. Please refer to our **ISM*JavaForms** Data Sheet which gives an overview of this tool.

4 Language Support

From the very beginning, we try to provide the possibility of supporting any language that is

- Supported by the **Oracle**® RDBMS, and
- Supported on the PC.

The increase in programming efforts is minimal compared to the advantages that are gained.

5 Open Interfaces to other Applications

We always design a special set of interfaces to import and export data to other applications inside or outside the customer's business world. In the typical real-world customer situation, about 90 to 95 % of the transactions are performed in the background as batch processes. This is the reason why normally the area of batch processing has to be examined extremely carefully.

6 State-of-the-Art Browser Front-End Technology

ISM*JavaForms has been developed by **ISM**, is available as an OpenSource tool and is used for OLTP solutions.

7 Reference Projects

Our transfer methodology was tested successfully when making a HP-3000-application Year-2K-ready in 1999 for 2 customers, the **District Court of Vienna** and the **Public Attorneys of Vienna**. We transferred the programs to a Unix-server with the Oracle® RDBMS. The cost involved was 18% less than the cost of a "traditional" conversion on the HP-3000 with COBOL, IMAGE and VPLUS. Additional projects have been implemented for **Constantia Patz** and **Instantina Ltd**.