

KMX DATA Warehouse for Czech Social Security Administration

The Czech Social Security Administration (CSSZ) is a government authority charged with the administration of social security. Its responsibilities include the management of old-age pension insurance which in turn, among other things, includes decision-making and payment of retirement allowances.

This is a demanding problem, since the CSSZ maintains files of over 2.5 million retired people to whom allowances are paid, as well as annually processing on average 225,000 new retirement allowance applications. Besides management of the retirement allowances, trends in a number of other different variables must be monitored statistically, as these outputs are used to serve, among other applications, for the Ministry of Labour and Social Affairs as well as other authorities for the future definition of government policies with respect to retirement allowances.

The Challenge

In response to the drafting of the Retirement Insurance Act which came into effect on the 1st of January 1996, the decision was made to fundamentally renovate the statistical system for retirement allowances, since the former system was no longer able to meet the new requirements. The decision meant that the basic requirements had to be documented using the PHARE

Solution

In view of experience from similar projects for analytical data processing, the solution was based upon the **KMX Warehouse** data warehouse system produced by KOMIX as an open solution to the ROLAP systems. **KMX Warehouse** features conventional three-stage architecture which is formed respectively by the data warehouse, the application server and the client's presentation application.



project definition. Among other things, these included the option to produce dynamic statistic outputs to meet user demands. Therefore, a defined fixed output (the statistical year-books) query system was to be created which, besides the existing statistical outputs, would support operations over the database (the so-called AD HOC queries) depending on current user needs.

KMX Warehouse is an open system which allows the implementation of new amendments and extensions. Nevertheless, rather than any new solutions being involved, the system represents a field-tested platform (in service for example at the Customs Administration Directorate) which can be adjusted to meet individual requirements.

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Technology

The system is built around the INFORMIX relational database server. The data warehouse contains the primary statistical data, such as information about allowances being paid, history and predefined aggregate data at different levels. By means of a defined interface, the data warehouse is linked to the retirement allowances system from which the statistical data is drawn. When imported, data can be transformed into the relational data format. At the same time, the system supports data import from other data sources, such as the demographic data outputs of the Czech Statistical Office (CSU), allowing for retirement allowances to be analysed in broader relationships.

The system works on the HP 9000 server with HP-UX 10.20 operation system and data is stored in a SIEMENS mainframe using SAS Institute software for producing special statistical reports.

Highlights

- KMX Warehouse technology.
- 2.5 million retired people and 3 million of allowances.
- MS Excel presentation tool.
- 24/7 support.
- Component technology.

KOMIX – SYSTEM INTEGRATOR

KOMIX Ltd. is a system integrator providing its own IT solutions based on advanced but well-established technologies. The services it provides cover all information system life cycle stages, starting from definition of requirements applying to system functionality up to acceptance testing and support of system operation.

The company KOMIX was established in Prague, September 1992.



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