



KDRS: SAP IS-PS on S/390 manages the cash flow in the Stuttgart area.

The communal municipal data processing centre for the Stuttgart area (KDRS) supports the economic structure of local government administration in the Stuttgart area with its regional computer centre (RZRS). Back in 1971, when the centre was founded, batch processing was predominantly used to run the applications of the local authorities, the cities and the administrative districts. Over the years, this has developed into a broad offering of online interactive systems.

The services of the KDRS are far reaching, ranging from the registration office for residents, finance, transport and communications systems to environmental control, the construction industry and social security. It also offers consulting and education services in the fields of budget planning, management and cash control. Last year the cash flow in the municipality of Stuttgart alone was 4.5 billion marks. Currently (January 2000) 189 local authorities are serviced with over 2.5 million residents.

Change in the finance management system

In order to establish and implement the highest standards of security, the home grown hardware and software solutions were gradually extended, until finally the central finance applications program FIWES classic reached its limits. As a result of the continual requests from the local authorities for higher performance and more information from the finance systems, the KDRS decided to reorganise its IT shop and install a standard software package. The regional standard processes will gradually be replaced by the year 2004.

The replacement will be through two software products: one is SAP Public Sector (IS-PS), which the city of Stuttgart has chosen for its internal administration. The pilot project was to customise the software for the requirements of the municipal finance administration. The users do their bookings in the traditional way and meet all the legal requirements of classical public sector budget control. What is new, is that due to the double entry book-keeping, the system now makes it possible for authorised users to have access to a commercial profit and loss account.

Industry	Public Sector
Application	SAP R/3 IS-Public Sector
Software	OS/390 Microsoft* Windows NT*
Hardware	S/390 Netfinity Server

KDRS



Schlossplatz and Neues Schloss, Stuttgart



The SAP R/3 system was tailored to meet the requirements of the city of Stuttgart in the record time of just one year. After that the new information processing systems were successfully in use. The project was implemented jointly by KDRS personnel and some consultants from SAP AG.

Step-by-step implementation with IBM Global Services

KDRS had set itself a goal of ten months for the installation of SAP IS-PS. Along with the decision for SAP in February 1999, an agreement was struck with IBM Global Services for a comprehensive delivery, installation and support package for an IBM S/390 as central server. Work began the following month but was hampered by the large-scale KDRS year 2000 project. What had to be done was to ensure a smooth year-end change-over for 15 000 users in 350 locations and in parallel to implement the IS-PS pilot project with the city of Stuttgart. IBM Global Services successfully constructed the new production platform according to our specifications. Günter Dors, manager of KDRS/RZRS said: "The project was a great success thanks to the professionalism of the team from IBM Global Services." Precisely on schedule, on November 2nd. 1999, the first 150 users were able to go into production with parts of the first module. The gradual introduction of further modules enabled 1000 users to have access to the services of KDRS by January 2000.

Mixed server environment with S/390 and Netfinity

The operation of SAP IS-PS is based on a three-tier client/server architecture with an IBM S/390 as database server and eight IBM Netfinity servers running Windows NT, which are used as applications servers. Five of these servers are used for production, two are for testing and quality assurance purposes and one is for back-up. The IBM S/390 has two

processors and can be configured as a 10-way system or as a Parallel Sysplex. The open scalability of the machines guarantees the support of a large number of concurrent users, a most significant consideration where there are in excess of 6 000 potential users of SAP in the region. The OS/390 operating system allows the simultaneous transmission of vast amounts of data, which are processed via routers, to the municipal offices.

"The KDRS is committed to high quality service and the IBM S/390 enables us to deliver it today and in the future."

Günter Dors, Manager KDRS/RZRS

Co-operation ensures high performance

The sophisticated co-operation between the DB2 database and the OS/390 operating system, ensures very high availability. Optimum security and exceptional performance offer the users maximum use of the system and excellent response times. Just for reporting, the most important tool in Business Support, it is essential to have a high performance database. The latest RVA disk technology which, with the help of snapshot functions, can save and restore data in a very short time, and which allows the database to be backed-up daily, guarantees a maximum of integrity for critical applications. Günter Dors is convinced that with the decision for a solution from SAP and IBM the finances of the Stuttgart area will always be in safe hands in the future.

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