

Central Master Routing Database (zMRDB).

Project description.



In 2002, T-Systems developed a solution to be used exclusively in Germany that enabled cell-phone users to keep their numbers even if they switched providers. This solution was adapted by all mobile providers at that time. The central master routing database (zMRDB), in which all ported mobile numbers in Germany were stored, was the central piece of this project.

The four network operators T-Mobile, Vodafone D2, E-Plus and O2 initiated the zMRDB bid in 2001. They had joined together under MNP GbR¹. In addition to the network operators, other players active on the telecommunications market were to be integrated in this database. Due to the tremendous significance of the zMRDB for the mobile communications industry, competition was tough between the leading solution providers. The T-Systems team was able to beat out its competitors and was commissioned to set up and operate the zMRDB.

Since 2002, T-Systems has been successfully operating the complex, high-availability solution, zMRDB, at one of its high-security data centers in Munich. The 99% availability rate is guaranteed by state-of-the-art technologies such as HA clusters, ORACLE/OPS und BEA WebLogic.

T-Systems provided other zMRDB services and integrated the number portability solution into the IT landscape of E-Plus for the client. The T-Systems network team realized a high-performing WAN connection between Vodafone D2 and the zMRDB in Munich.

At the beginning of 2008, T-Systems started to modernize the zMRDB:

The hardware, which has become outdated, was/is exchanged and the basic software was/is updated for improved function and greater efficiency.

The introduction of mobile number portability is approaching in different European countries. T-Systems is the ideal partner for creating the concept, providing consulting services and handling the set-up and operation of the porting solution due to the company's long-standing, practical experience with the zMRDB.

Complete service spectrum for the Mobile Number Portability environment.

- Concept, set-up, operation of a central porting database
 - WAN connection to the zMRDB
 - Integration of local MNP clients into an existing IT landscape
 - Automated change processes between mobile providers
 - BPO services such as billing, claim management
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¹ In September 2006, vistream GmbH and in December 200, ring Mobilfunk GmbH joined the MNP GbR as further (virtual) Mobile Net Operators.