

## Case Study ZERMATT

Broadcast Management System for  
Audio and Video Networks

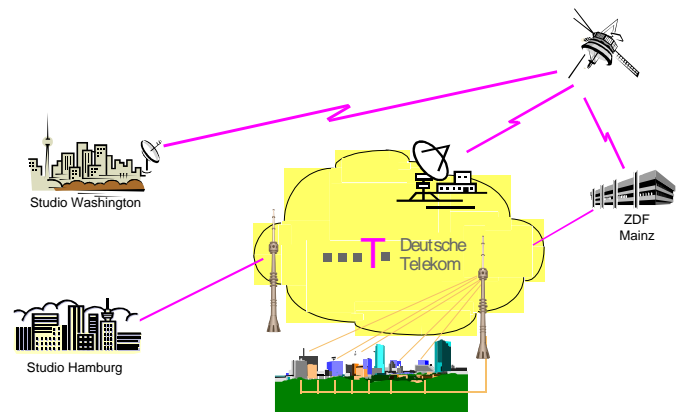


<b>Client</b>	<b>Deutsche Telekom AG (DTAG, Germany)</b>
<b>Site</b>	<b>Business sector Broadcasting and Broadband Communication</b>

### Use

The ZERMATT system has been in operation at Deutsche Telekom AG (German Telecom - DTAG) since July 1995, throughout Germany in the broadcasting sector and supports the planning and set-up of links for all broadcasting lines (video and audio) within the Telekom network.

The clients who use this system are primarily the public and privately-owned broadcasting corporations who at times also rent further capacity from DTAG in addition to using their own trunk circuits.



### Functions

Customer orders are defined as job orders in ZERMATT and the requested connections are planned. In case of conflicts, the planning office searches for acceptable alternatives.

Once the links requested by the client have been reserved without any conflicts, ZERMATT also assumes the task of establishing the line connections. In order to do this, the appropriate switching equipment is controlled when required at the regional offices (8 switching points in Germany), thus establishing the link. ZERMATT records the actual switching times that are subsequently used as the basis for billing.

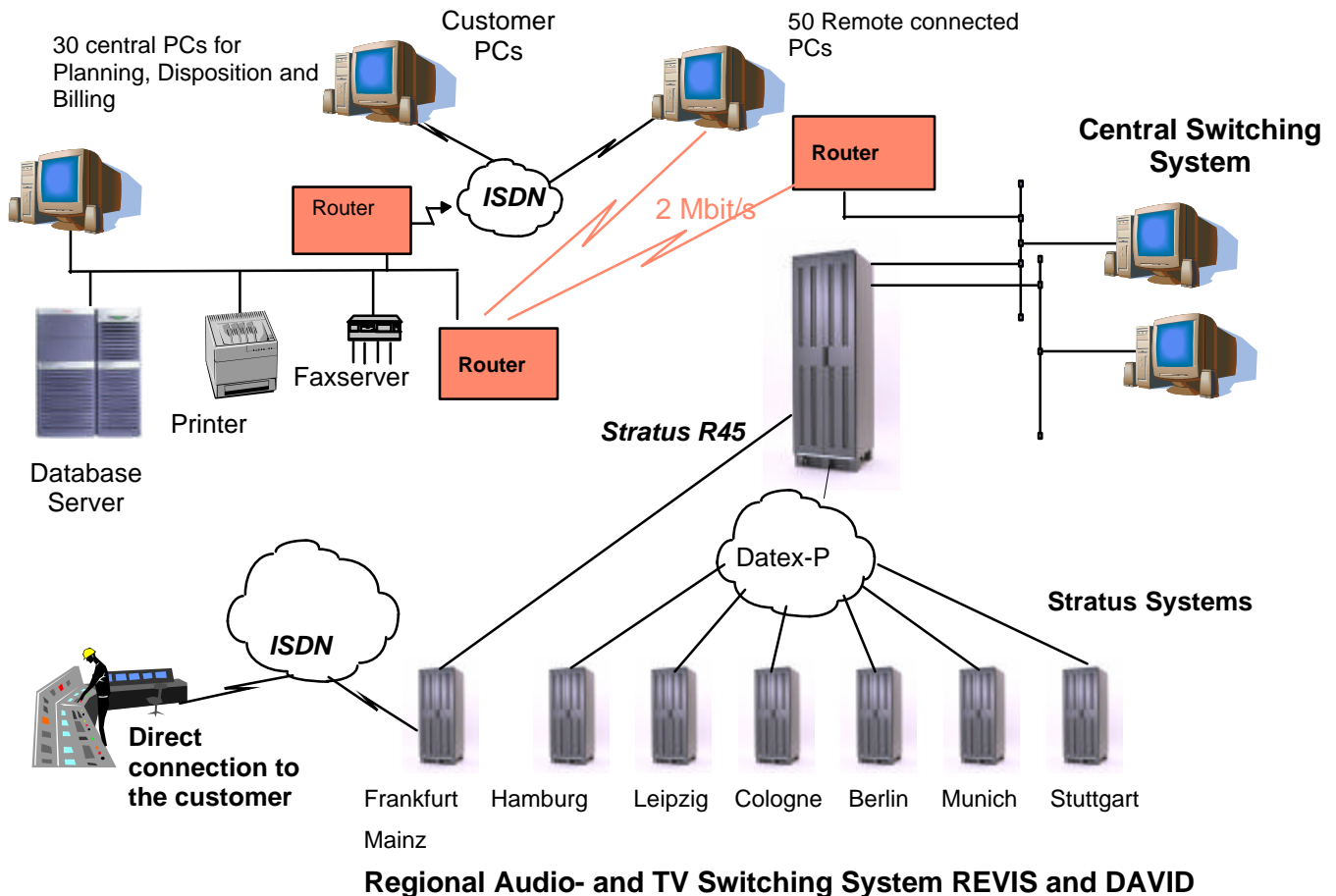
### Dimetis Services

The ZERMATT system was realized by Dimetis employees. Dimetis has the service and maintenance contract for ZERMATT and provides support to users of the total ZERMATT system.

The scope of services for the overall project had included:

- Concept development and specification
- Software development for switching systems
- Software development for the planning and invoicing system
- Delivery, installation and integration of computer components and workstations and special technical equipment (e.g. switching units)

## Configuration of the system ZERMATT



### Regional Audio- and TV Switching System REVIS and DAVID

## Solution

The ZERMATT system comprises of two logical levels; the top level accommodates the administrative and planning tasks, the switching level is located below.

A DEC dual computer system (COMPAQ) is used for order coordination, planning/assigning and invoicing.

This complex switching task is conducted by a network of fault-tolerant Stratus computers (\*), as the highest degree of availability and reliability is required here.

The nearly 80 workstations are connected either at a central location or regional sites. In addition, clients can also link local PCs to ZERMATT and can transmit their requested orders directly to the system. Data transfer is performed via file transfer.

(\*) In 2005 all control systems are implemented on one Stratus server in Frankfurt.