Reference report

Siemens Division Industry Solution by order of ZDV-Saar

Environmentally friendly – New green IT data centre for ZDV Saar

The main matter of expense in nowaday's data centres are no longer the servers themselves, but the elaborate air conditioning arrangements to run the servers. To cut costs, the adjustment to cold-aisle design pays off as it uses significantly less resources for air conditioning. This is what IT service provider ZDV-Saar in Saarbrücken opted for. Siemens Division Industry Solution set up an up to date Green-IT data centre with a tde trans data elektronik's tML-tde Modular Link cable system.

The ZDV-Saar is a division of the Landesamt für Zentrale Dienste (state office for central affairs), a higher authority in the scope of the ministry of finance. As the Saarland administration's IT service supplier the ZDV-Saar provides central services in the field of data processing and the therefore required communication network. The already existing ZDV-Saar large capacity data centre is a growing structure, which has continuously been altered resulting in a complex network structure with bottlenecks due to lacking cable capacity. To account for the idea of green IT and to reduce the increasing energy costs caused by the extra expenses for conditioning the planning for a new data centre infrastructure began in May 2010. Siemens-Division Industry Solutions was entrusted with the project and construction management as well as the installation of the ZDV-Saar venture due to their long-standing collaboration and convincing cost effectiveness. The first step for Siemens was to analyse the data centre security including the development of a plan considering a sensible and energy efficient future development within the existing data centre. Based on the results of this analysis Siemens decided on the setup of a coldaisle containment including cableway construction, energy supply and LAN connection. After internal examination and research regarding the passive infrastructure of the data centre, Jürgen Kiel argued for the use of the tML system developed by tde – trans data elektronik GmbH. "The main reason for using tML are the flexible construction of the fibre optics and copper components, the copper cables' cable diameter and the reduced calorific potential as well as the minimized floor space for the cable route," Jürgen Kiel from Siemens explains.

"There were no problems with the installation of the tML-System. It is compact and flexibly built, easy to install, expandable and convertible," Jürgen Kiel says adding:" Our projects are an ingenious collaboration of various suppliers and service providers. The cooperation with tde was enjoyable as the components and cables were delivered on time ready finished to meet our needs and quality tested. tde's support and service were also outstanding."