

CASE STUDY

FUTURE-PROOF COMMUNICATIONS NETWORK FOR ASSOCIATION OF EVANGELICAL CHURCHES IN COLOGNE

From May 2012 to August 2013 a new social welfare and administration building was constructed on the site belonging to the Cologne and Region Association of Evangelical Churches. Datwyler installed a Class F_A structured cabling system.

The new building in Kartäusergasse, designed as a fully accessible and energy efficient 2-litre house, links the historic site to an existing extension building. Today it accommodates around 50 staff employed by the Evangelical social welfare organisation Diakonisches Werk – from management through the specialist migration service to debt and addiction counselling – as well as the Antoniter Siedlungsgesellschaft mbH (ASG), the administrative body for the Association and the church districts.

ASG, an affiliate of the Church Association and its four church districts, was responsible for planning and site management. For the information and communication technology in the new building it specified a Class F_A structured cabling solution with high-performance Category 7_A cables and GG45 connecting technology. ASG was thus opting for a premium quality system with enough bandwidth (1000 megahertz) to provide long-term future viability. At the same time systems for temperature and fire monitoring and access control for the central plant room in the basement were included in the tender for safety reasons.

Datwyler won the contract for turnkey implementation. In close cooperation with the Evangelical Association of Churches and ASG, Dätwyler Cables GmbH and its service partner, KKS Kölner Kommunikations Systeme GmbH, completed the job by August 2013, right on time for the staff to move in as planned.

Integration into the existing network

In accordance with the client's requirements a central plant room is now used to integrate the information and communication technology into the existing network of the Cologne and Region Association of Evangelical Churches. To achieve this Datwyler connected the server room in the basement of the new building with fibre optic and telecommunication lines to the Church Association's main server room in the old build-



ing. All the new workstations in the three storey building are linked up by Category 7_A copper cables. These were routed to the workstations direct from a network rack in the plant room, i.e. without sub-distributors. A total of 108 flexibly usable floor boxes provide the staff with their data outlets.

In the new building Datwyler installed altogether 21 kilometres of Datwyler CU 7150 4P copper data cable and around 500 PS-GG45 modules. In the server rack six HP ProCurve switches provide high-speed connections to the main server. A Mitsubishi inverter split air conditioning unit keeps the plant room temperature constant at the requisite 22 degrees centigrade.

Expert advice

ASG reports that installation and commissioning went without a single hitch, and that the new network is operating faultlessly. Throughout the whole process the local Datwyler staff were on hand to give expert advice to planners and site management. The user is very satisfied with every aspect of the solution implemented and plans to use it again when carrying out future building and modernisation work.