



## Success Story

### Johann Wolfgang Goethe University Frankfurt

#### Project characteristics and requirements:

- more than 5.000 FTTO Switch system in use
- Four large university areas with large distances
- Only one patch room per building
- Very high safety requirements
- Power over Ethernet for VoIP Phones and WLAN Access Points needed
- High availability
- Different mounting requirements (cable duct, floor tanks, Labortische)
- 3 Data Ports per user in the average

The Johann Wolfgang Goethe University in Frankfurt am Main was founded in 1912 and opened in 1914. Since 1st of June 2008 it appears under the name Goethe University Frankfurt am Main. With around 41,000 students, the University is one of the five largest German universities by number of students. At the university more than 500 professors teach and research, 16 specialist divisions offer 170 degree programs.

The University is spread over four large university areas:

- Campus Bockenheim
- Campus Riedberg
- Campus Westend with the House of Finance and the auditorium centrum

- Campus Niederrad with university hospital

The university datacenter (HRZ) is the competence and service center for the University of Frankfurt. It operates the network for voice and data communications as well as the central IT services (eg e-mail, Internet services, e-learning, file and compute services), and public computer systems in computer pool rooms.

Due to the very large distances and the very high safety requirements only fibre optic in conjunction with intelligent Fibre To The Office systems technology came as a transmission medium in contemplable. Connected VoIP phones are powered directly with Power over Ethernet via the FTTO switch.

After extensive testing, the university choose Nexans as manufacturer and supplier for the FTTO microswitch systems. In addition to the reliability of the systems, the security features and the proximity to the manufacturing the support played a significant role in the choice of the manufacturer. To restrict the installation of the systems on the pure installation, the systems come pre-configured from Nexans.

**Meanwhile, over 5,000 FTTO systems are in use.**