

# CASE STUDY

## Flight Security

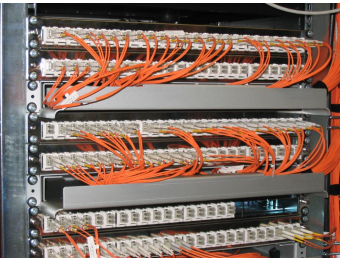
Corning Cable Systems



Deutsche Flugsicherung GmbH, Karlsruhe, Germany

### SITUATION

Germany has one of the busiest airspaces in the world. Every day, around 8,000 flights pass through German airspace. Last year, the air traffic controllers at the DFS Deutsche Flugsicherung GmbH (German Flight Security) controlled more than 2.7 million aircraft movements. They ensure that the aircraft always maintain the required separation from one another, and that the high-altitude air traffic over Germany is handled safely and expeditiously. They work either in the radar control center or in the tower. In Langen, near Frankfurt, DFS operates Europe's largest radar control centre. Further control centers are located in Berlin, Bremen, Karlsruhe and Munich. DFS also has staff working in the EUROCONTROL Centre in Maastricht, 17 international airports in Germany and the regional airports Niederrhein and Altenburg-Nobitz. All in all, DFS employs 5,400 people, one-third of whom are air traffic controllers.



LANscape Modular Patch Panels & Fiber Optic Cabling

### NETWORK DESIGN

The data that the controllers rely on to do their daily job and to keep passengers safe in their flights is mission-critical, therefore the communications network has to be in the best condition – down-time is not an option. The DFS is required to equip their network with the best in passive and active components. Especially important for the modernization of their control center in Karlsruhe was modularity for integrating copper and fiber optic components and upgradeability. When their technical team looked last year at various options for updating their data center and traffic controller stations, they decided on Corning Cable Systems LANscape® Solutions.

### CORNING QUALITY

The DFS has been installing Corning Cable Systems products in their facilities for more than 5 years due to the high degree of the products' flexibility and quality. LANscape Solutions modular concept allows copper and fiber components to be installed in the same hardware, providing customers with a high degree of flexibility. The DFS installed a complete FutureCom™ E system in their control center, complete with S-STP 600/23 copper cable and Category 6 patch panels. The workstations of the traffic controllers are highly modern, outfitted with modular LANscape Solutions patch panels which are equipped with LC fiber optic connectors and Category 6 S250 copper modules. The space-saving features of the copper Plug & Play™ System products were ideal, as the dimensions of the control booths and space available in the data center had restrictions before installation.



Flight Controller Work-Station



LANscape Modular Patch Panels & Copper Cabling

By choosing Corning Cable Systems LANscape Solutions, DFS was able to meet their 100% redundancy standards and equip their space-conscious control center with the most modern equipment.

For more information about the DFS please see their website at [www.dfs.de](http://www.dfs.de)



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You have the requirements. We have the solutions.