

CASE STUDY

GUANGZHOU BAIYUN INTERNATIONAL AIRPORT: A GROWTH PROJECT

With a comprehensive range of IT infrastructure solutions Datwyler is contributing to the expansion of one of the busiest airports in the world.

Guangzhou Baiyun International Airport is one of China's most important aviation hubs – and one of the busiest airports in the world. Since opening in 2004, it has transported over 950 million passengers and more than 28 million tons of air cargo and mail. Today, more than 1,500 flights from over 80 airlines are handled here every day, connecting around 100 destinations at home and abroad – and the trend is rising.

In order to be able to cope with the rapidly growing volume, the airport is constantly being expanded. Terminal 2 (T2) was opened in 2018. It covers an area of 658,700 square metres and offers 279 parking positions for civil aviation. The communication cabling in this building is a powerful solution from Datwyler, which includes 50,000 data connection points each in copper and fibre optic technology. Datwyler was already able to impress customers seven years ago with professional technical services – for example on-site partner training – and with high-quality, high-performance products, including flame-retardant, low-smoke and halogen-free copper and fibre optic cables. The solutions were so convincing that they were adopted by the Pullman Hotel at the airport – fol-



lowed by orders for various other buildings at the airport, such as the information centre, the services building and the public security building.

Commitment to the third expansion phase

The so-called Phase III expansion project started in September 2020. By the end of 2025, upon completion of this project, the airport will have five runways and two terminal areas, capable of achieving a throughput of 140 million passengers and more than six million tonnes of cargo - more than any other airport in the world.



Datwyler has again won several tenders in recent years, including those for the integrated cabling system of the East Fourth Corridor, which connects Terminals 1 and 2, as well as for the expansion of the runways and the new Terminal 3. In the corridor the Chinese Datwyler team also provided the airport with an automated infrastructure management system called DatAIM. With this integrated hardware and software solution that supports the operation and maintenance of the cabling the airport can significantly improve the work efficiency of the responsible staff.



Tailor-made data centre solutions

As part of the Phase III expansion project, the airport formulated clear requirements for the required data centres for

the first time. For the expansion of the runways, Datwyler was able to prevail against the solutions of many well-known manufacturers with its tailor-made Smart Modular Data Centres (SMDC). The list of orders from the airport now includes 23 micro and three double-row mini data centres.

Datwyler is contributing to the safe operation of the country's busiest international airport with a wide range of IT infrastructure solutions. The aim is to continue to convince the airport with quality and services and to support it in digital transformation in the future – for example with the help of smooth upgrades.

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