Rittal – The System.

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Dubrovnik Airport: Rittal data centre ensures high availability

DUBROVNIK AIRPORT

Customer: Dubrovnik Airport Ltd.
Industry: Transport technology
Company size: about 2.3 Mio. passengers in 2017
Established: 1962
Headquarters: Dubrovnik, Croatia

Dubrovnik is one of the world's favourite tourist destinations. It is attracting a growing number of visitors – drawn by the unique city wall, rich history, cultural heritage, in-demand locations for world-famous TV series and movies, and more. This popularity has meant ever-greater passenger traffic at the local airport, creating a need for an upgrade to the building itself and the IT infrastructure. A new terminal was constructed, and Rittal was tasked with implementing a high-availability data centre.

THE PROJECT

The Challenge

- Building of a new terminal until 2019 (for more than 3.5 mill. passengers) dur to growing amount of air activities

- Secure and high available data centre that will secure all airport processes (such as baggage transportation)

The Solution

- Complete Rittal IT infrastructure (security room, TS IT racks, LCP CW and IT-Chiller, CMC III, UPS-System by ABB, PDR and PSM)

> "An integral aspect of the data centre is the reliability needed for the long-term development of the airport – both in terms of digital data storage and IT generally."

Tomislav Macan,
Maintenance and Development Manager,
Dubrovnik Airport

Dependability, security, availability and quality

A dependable data centre is key to the smooth running of any airport. And as Dubrovnik Airport is open 24 hours a day, high availability, reliability and quality of the IT infrastructure were the most important criteria for contract award. Rittal and local IT partners Kodeks, Combis and Optimal Sistemi presented a best-practice solution. As the data centre is the heart of the airport management system, and must comply with extremely high security standards, it was implemented as a separate, dedicated unit in a modular Rittal high-availability room.

Energy efficiency

The server racks are arranged in two rows to ensure hot-aisle containment. This allows effi-cient cooling of the components in the server racks, and throughout the rest of the room. Rittal LCP CW systems allow the hot areas to be precisely targeted. Moreover, they boast outstanding energy-efficiency, with a PUE of less than 1.2 under ideal conditions.

Robust redundancy

In the event of a grid outage, the data centre can continue to operate by means of electricity from generators and modular ABB UPS systems. A unique distributed parallel architecture (DPA) guarantees robust redundancy, and the continuous, dependable supply of power to the new facility.

The data centre has a raised floor, allowing installations to be housed in the cavity below. In the event of a fire, an early warning system triggers a gas extinguishing solution. When the fire is detected, decompression flaps are automatically opened to prevent the overpressure generated by the gas from causing the room walls to deform. The independent data centre monitoring system automatically alerts the monitoring system of the host building.

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