CASE STUDY

RCMC HEADQUARTERS, MECCA:

FOR INNOVATION AND CONNECTIVITY

At its new headquarters the Royal Commission for Makkah City and the Holy Sites uses a pioneering IT infrastructure solution, entirely supplied by Datwyler.

In 2024 the Royal Commission for Makkah City and Holy Sites (RCMC) opened a new headquarters in the Saudi pilgrimage city. To ensure smooth operations and lay the foundation for advanced digital services, a comprehensive IT infrastructure solution was installed in the building.

For an organisation responsible for the management and preservation of the Holy City, it was essential to have a robust, secure and efficient IT backbone at its headquarters. The Royal Commission needed a solution that not only met its current operational requirements but also supported future expansion and the integration of new technologies.

Datwyler was commissioned to design and implement a high-performance communications network and a future-proof data centre. The latter is a 40 kVA Smart Modular Data Centre (SMDC) consisting of eight IT racks, two in-row coolers and one rack each for the power supply and batteries. A single-rack 3 kVA SMDC was also installed in the technical room as a secondary network distribution node.

To ensure seamless connectivity and fast, uninterrupted data transmission throughout the building, high-perfor-

mance copper and fibre optic cabling – entirely from Datwyler – was also installed. The Wi-Fi access points and all security-relevant systems are now integrated into the network.

Foundation for digital transformation

The project also included a management and monitoring solution. The choice fell on Datwyler's Smart Service Platform (SSP), which enables continuous monitoring and control of the SMDCs. This platform ensures efficient and reliable operation, enables proactive maintenance and provides the Royal Commission with a solid foundation for its future digital initiatives.

Sustainability and future viability

The Datwyler team worked closely with representatives of the Commission and the system integrator, Fine Mark Expo, throughout the project to ensure a smooth implementation process. The focus of those responsible was on reliability, security, scalability and sustainability.

The Smart Modular Data Centres – the digital heart of the RCMC headquarters – were equipped with integrated cool-

ing and power systems to optimise system performance and efficiency.

Thanks to the modular design of the data centre solution, the Royal Commission can easily adapt its data processing capacities to increasing demands at any time.

In this respect, the Smart Modular Data Centres represent a long-term investment in the future.

Flexibility and security
Since its handover in July 2024, the IT infrastructure has been operating smoothly. This allows the RCMC to fully focus on its core mission, the efficient, sustainable and innovative development of the city of Mecca and its holy sites.

"The collaboration with Datwyler IT Infra has provided us with a strong and reliable IT backbone for our new head-quarters. Their expertise and solutions provide us with the flexibility and security we need today, and we are well positioned for the upcoming digital transformation," confirms Abdulrahman Al-Shomrani, Head of IT at the RCMC.

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