

## CASE STUDY

# MINISTRY OF TRANSPORTATION AND TELECOMMUNICATIONS, MUHARRAQ: **SIGNIFICANT STRENGTHENING OF OPERATIONAL PERFORMANCE**

A state-of-the-art cabling solution from Datwyler ensures uninterrupted communications in the new Bahraini ministry building.

With the construction of a new headquarters for the Ministry of Transportation and Telecommunications (MTT), the Kingdom of Bahrain has further advanced the modernisation of its infrastructure. The seven-storey building, constructed near the Bahrain International Airport and the national airline Gulf Air, covers an area of more than 19,000 square metres and is designed to improve the Ministry's efficiency and promote cooperation and innovation.

As the central authority for the country's entire transport and telecommunications sector, the MTT required a robust IT infrastructure, capable of enabling seamless communications, improving operational flexibility and supporting future advances in digitalisation.

To achieve these goals, Datwyler IT Infra was commissioned to provide state-of-the-art structured cabling that meets all of the agency's requirements for reliability, flexibility and scalability.

### High-quality, sustainable solution

The MTT chose Datwyler because of its strong reputation in the region and its extensive expertise in providing innovative, high-performance cabling systems for IT and OT infrastructures. In addition, Datwyler is known for its high-quality technical solutions that meet international standards and are designed to support critical operations while being sustainable and scalable.

In collaboration with the systems integrator Almoayyed Trading and Contracting (ATC) from Isa Town and the



Manama-based project consultant Gulf House Engineering (GHE), Datwyler supplied and implemented a customised high-speed network infrastructure.

This includes 120 kilometres of Cat. 6A S/FTP cable and over 1500 Cat. 6A RJ45 jacks. OM3 cables and the corresponding connection technology were installed for the fibre optic backbone. In addition, various network cabinets in heights of 42U, 18U and 9U were installed.

This comprehensive setup ensures a robust and efficient IT infrastructure that will also be able to meet the Ministry's growing data and communication needs in the future.

### Prepared for future demands

Following the successful completion of this project, the Ministry now has a solid basis to significantly strengthen its operations. The highly efficient and scalable network

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ensures seamless connectivity and enables uninterrupted communication. At the same time, the Ministry is well-equipped to adapt to new technologies and continue its modernisation efforts.

Last but not least, the excellent collaboration between Datwyler IT Infra, ATC and GHE on this project has demonstrated the value of pooling expertise to deliver state-of-the-art solutions that align with Bahrain's Economic Vision 2030.

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