

CASE STUDY

GULF CEMENT COMPANY P.S.C., RAS AL KHAIMAH: A BIG STEP TOWARDS DIGITALISATION

Datwyler has made an important contribution to the modernisation of Gulf Cement Company with a communications network, a data centre solution and tailored services.

As in all dynamic industries, a reliable and efficient IT infrastructure in the cement industry plays a crucial role in managing growing data flows, maintaining operations and ensuring productivity. Recognising this need, Gulf Cement Company, a UAE-based company, decided to modernise its aging IT infrastructure.

While looking for a partner who could help them modernise their existing system as easily and effectively as possible, the company came across Datwyler IT Infra. The Datwyler team was tasked with providing Gulf Cement with an end-to-end IT infrastructure solution tailored precisely to their needs.

Smooth upgrade process

To ensure a seamless transition and optimise the new infrastructure, Datwyler provided Gulf Cement with a professional team of consultants throughout the project who understood the specific challenges and worked closely with those responsible on site.

This made the upgrade process smooth and efficient.



The new IT infrastructure consists of a passive communications network that ensures reliable and fast connectivity across all Gulf Cement buildings and facilities.

The 10 Gigabit-capable network includes around 1,000 Category 6A data connection points and 16 intermediate distribution frames (IDF), which are connected to the main distribution frame (MDF) via 12-core single-mode fibre optic cables. The installed cables are all high-performance and extremely reliable products reducing the risk of disruptions or failures to a minimum.

Two smart data centres

Datwyler also delivered a Smart Modular Data Centre (SMDC) for the main server room, which houses the edge servers, switches and storage components. The Tier 1 data centre consists of four racks with integrated power and cooling units, designed for an output of 40 kVA.

Today, in the loading site building there is another small SMDC (3 kVA) with an internal condenser housing an important edge server that is needed in this area.



This compact installation not only saves space, but also simplifies management and reduces operating costs. It therefore fits perfectly with the stated goal of an uncomplicated upgrade.

In order to achieve faster and more reliable data transmission across the entire company premises, it was also necessary for Datwyler's local partner Emitac to replace the old switches with high-performance core and PoE edge switches.

As part of the modernisation, Gulf Cement also received the latest cloud management and cyber-security technologies as well as a state-of-the-art backup system.

The entire IT infrastructure has been running smoothly since the handover and commissioning in July 2022. To ensure that it stays that way, Datwyler has been maintaining the data centre since then as part of an annual service contract.

Positive conclusion

For Datwyler, this successful project is a good example of how tailor-made solutions can improve a customer's operations: The combination of advanced technology and a reliable infrastructure with expert advice and comprehensive services has enabled Gulf Cement to take a big step towards digitalisation. The company is now well positioned to take advantage of future innovations and maintain its competitive advantage.

Murad Abdullah Mohammed, Chief Network Administrator at Gulf Cement, sees it very similarly: "Working with Datwyler IT Infra was a game changer for us. Datwyler solutions have transformed our infrastructure and made it possible to automate processes and significantly increase efficiency. We now have a scalable and flexible foundation to support our growth and innovation. Datwyler's support and expertise was invaluable on this journey."

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