

CASE STUDY

TERGOOI MC, HILVERSUM: FIT FOR THE FUTURE

The Tergooi hospital in Hilversum relies on a future-proof IT infrastructure solution from Datwyler. This has been installed by Conecto Networks B.V.

In the autumn of 2019, it was decided to build a new Tergooi MC in Hilversum, North Holland. The new hospital was created to bundle all acute, intensive care and regular care in one place and to enable patients from the region to benefit from modern medical treatments and modern infrastructure.

The new Tergooi MC, with a capacity of 525 beds, will be built right next to the existing hospital on the 55,645 square metre forest area of Monnikenberg on the outskirts of the city. In the four buildings, which are surrounded by greenery on all sides, floor-to-ceiling windows, light building transitions, green roofs and large patios will ensure that they are in harmony with the natural environment. At the end of the construction work, most of the old buildings from the 1950s will be demolished. Only one wing is being renovated to house offices, laboratories and technical services.

Sustainability plays an important role in the new construction, not only in terms of architecture, but also when it comes to the use of state-of-the-art technology. For ener-



gy-efficient operation, heat pumps and a cold-heat storage system are being utilised, which use the thermal energy of 120-metre-deep water layers.

All buildings will also have their own machine and electrotechnical rooms, including power generation and air conditioning, and solar panels on the roofs to be able to produce most of their required energy.

Copper and fibre optic cable systems

When choosing the new IT infrastructure, Tergooi MC also wanted to install a high-performance solution that guarantees a stable and efficient IT operation in the long term. The data network had to be able to transmit all services and applications not only quickly but also reliably.

Datwyler IT Infra was selected to equip the four new clinic buildings with an appropriate copper and fibre optic network solution. The installation was performed by Conecto Networks B.V., an experienced, certified Datwyler Solution Partner.





Securely connected: the new clinic buildings

Datwyler provided a high-quality solution for the cabling of the four new clinic buildings, including 340 kilometres of category 6_A copper cable and approximately 6500 data connection points. All services such as Internet, WLAN, telephony and surveillance are integrated in this communication network. In addition, there is about 10 kilometres of fibre optic cable for the backbone, which connects the buildings, and 54 racks for a total of 16 main and sub-distributors.

The construction of the network infrastructure started in May 2021 and required a great deal of coordination right from the start: with the main contractor BAM Bouw en Techniek – Speciale Projecten, the installation combination consisting of ULC Installatietechniek and BAM Bouw en Techniek and last but not least with the other involved parties on the construction site. Because the cables could only be laid section by section, floor by floor and each time within a tight time window, the just-in-time delivery of the required material was all the more important.

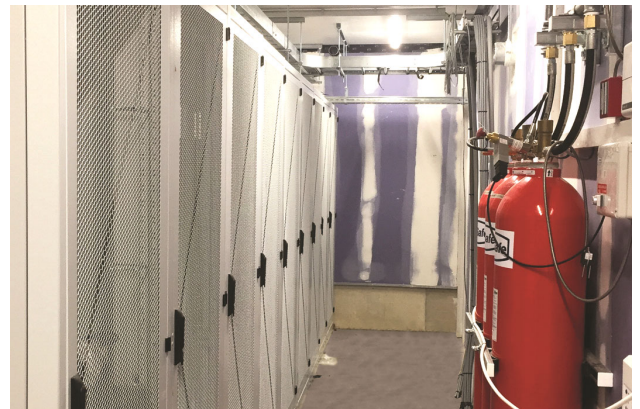
“Fortunately, Datwyler is a very reliable supplier. Over the past few months, we have been able to fully rely on the

Datwyler team in every construction phase,” says Ton Beij, the Project Manager at Conecto Networks.

Special installation requirements

Another challenge was that both the main and the sub-distribution racks had to be placed on the fifth floor in each building – together in just one room and in four different zones. In order not to exceed the maximum length of 90 meters when laying the copper cables, a high degree of knowledge and experience was required.

Meanwhile, the Conecto Networks team was able to complete the installation on time. “Our installers are happy that they were able to work with Datwyler products. Because the cables are robust and easy to lay. In addition, the connectors – just like the panels – are easy to assemble. Another reason why the installation went largely without a hitch,” Ton Beij sums up.



The commissioning of the new building is planned for 2023. The Tergooi MC will receive a 25-year system warranty from Datwyler on the installed network.

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