

# Case Study

## Town Hall – Montigny Le Tilleul

**Customer** Town Hall – Montigny Le Tilleul

**Location** Montigny Le Tilleul - Belgium

**Requirements** A first class network installed in a new extension

**Equipment** Excel Category 6 U/UTP and OM3 Fibre

We needed a product that could meet our technical specifications and provide a quality solution at the same time as meeting a set of criteria set in place for the project.

### Customer's View

The Excel solution installed surpassed our expectations; what's more it came in on budget and offered us a 25 year warranty, giving us peace of mind for the future.

*Representative of the town Hall, Montigny Le Tilleul*

**excel**  
without compromise.

### The Requirement

The town of Montigny le Tilleul wanted to expand its existing town hall to unite all of its administrative and social services into one building. They organised a competition for engineers/architects to design an extension to their old building with specific criteria. These included that the building be low in energy consumption, easily accessible for persons with a disability, welcoming and comfortable for the citizens visiting it and the 70 people working there, provide a good connection to the older, original building and preserve the surrounding green spaces.

With all of these requirements for the building design in place, the system installed needed to be capable of running a single reliable, fast network which linked both buildings together.

### Sourcing a Partner

The town hall put the job out for tender so they could obtain the best possible price and solution. Collignon an installer that has specialised in the design, study, execution and maintenance of electrical, electromechanical and industrial installations for 65 years submitted a tender based on an Excel solution.

The company employs 400 people and gets involved in projects which include lighting, electricity transformation, electrical and IT network power supplies as well as security and access control.

Collignon worked closely with 4K. Established in 1993, 4K started out as a solution provider in passive components such as cabling, heat shrink tubes and connectors on the Belgian market. Nowadays 4K is considered a full-service company, well known amongst broadcasting, data networking and telecom as well as industrial market segments on the Belgian market and abroad for both its active and passive solutions.



4K prefers to develop long term business relationships and only works with selected partners who are authorities in their specific field, Collignon fits this criteria perfectly and has worked with 4K for at least 4 years and they have held Excel official Cabling Partner accreditation for the same amount of time.

4K themselves have been distributing the Excel product range for over 5 year as an official Excel Distribution Partner.

### The Right Product

Excel was chosen for a number of reasons. One of these being that the product set could deliver what the project required within budget and could help meet the criteria that were set when the project went out to tender.

Excel is a world-class premium performance end-to-end infrastructure solution designed, manufactured, supported and delivered without compromise. The Excel solution boasts an industry leading third party verification programme where certificates are issued by leading test houses Delta and 3P, following factory and product auditing.

An EMEA wide partner programme, 25 year warranty, pre and post sales technical support, 15-year plus product development programme, third party verification as standard on all key solutions add to the brands reputation and reliability.

As Collignon were an official Excel Cabling Partner, they were able to offer a comprehensive 25 year warranty for the town hall, offering further peace of mind and assurance. The warranty covers copper, fibre, voice and the Environ racks range.

## Design and Installation

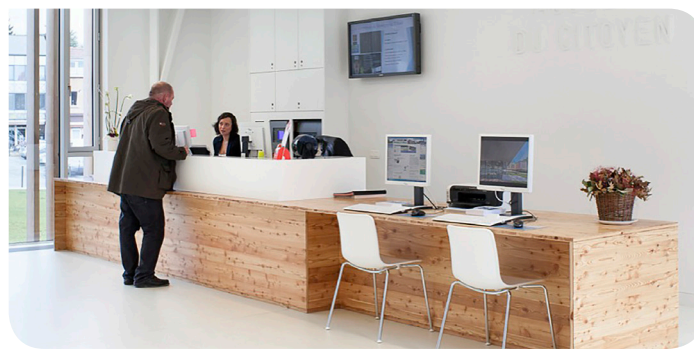
The main area for concern was the deadline imposed on Collignon for the project to be finalised. The town hall wanted the project completed in a short window of time which meant that the Collignon team had to work long shift patterns which did not disrupt day to day activity within the existing town hall premises.

Other considerations that needed to be made were based around the modern and purist design of the new building, all of this had to be taken into account when adding in floor boxes and running cable into the desired areas.

Nowadays installations need to provide not only data, but power as well in the form of PoE. Utilising the Excel Category 6 cabling allows for the end user to utilise PoE, whilst still delivering Gigabit Ethernet. This makes the network perfect for taking on IoT deployments, where it can be used for Wireless Access points, IP Access Control, Alarms, IP CCTV, helping the new building to become more of an intelligent workspace.

Excel Category 6 UTP cable is designed for optimal support of High-Speed data protocols delivering 1 Gbps performance to the workstation. Designed to be quick and easy to install the cable requires no specialist installation tools and is supplied in reelex packaging for fast, snag free installation. To reduce wastage each cable is numbered from 305metre to 1 metre, allowing quick and easy calculation of the cable remaining in the box. The inclusion of a polyethylene cross filler ensures optimum cross talk performance.

Internal/external Tight Buffered OM3 Fibre was used to connect the two buildings, due to the distance that needed to be covered. The outer sheath of the fibre is both flame retardant and low smoke zero halogen and the design and construction is light and easy to install. OM3 fibre delivers Gigabit Ethernet up to 550 metres, helping with customer needs today, but also offers the future proofing needed when



costing a new deployment with it offering 10 Gigabit Ethernet up to 300 meters.

The Excel Category 6 Low Profile Unscreened Keystone Jack, is a reduced size toolless termination RJ45 socket. The reduced size allows for multiple cable entry directions to be accommodated when this jack is mounted in a standard depth back box. This permits many mounting options including flush shutters at the outlet as well as more common angled shutters used with keystone jacks.

The socket itself is housed in a high quality fire retardant plastic cast housing, which opens at the rear in a butterfly manner to reveal the IDC termination points. This style of design offers, by design, exact repeatability, as the cable housing only fits the rear of the outlet in one orientation, adding the benefit of constant, repeatable, reliable terminations.

## The Result

The town hall in Montigny Le Tilleul was successfully completed in 2014. The design is cutting edge, rather than simply lying on the land, the building hovers thanks to an impressive cantilever structure. Only the cafeteria is in contact with the ground and can therefore be used for events taking place in the park.

The overall result is a very modern, light and transparent building that seems to be defying gravity.

The surrounding community and the staff that work in the town hall not only have daily access to an architecturally exciting and interesting building but also access to first class facilities operated by a reliable future proofed network.



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