



New Network Infrastructure Prepares Danish Police for Climate Change Conference

SYSTIMAX GigaSPEED® X10D, LazrSPEED® and TeraSPEED® solutions deliver network speed and reliability to help police respond quickly

With heads of state from all over the world arriving in Copenhagen for major conferences, the police needed to move information faster and more reliably. To meet the challenge, they replaced mix-and-match network infrastructure with integrated solutions from CommScope.

Copenhagen's police headquarters are at the centre of security operations to protect major international conferences taking place in the Danish capital. Recently, these have included the Global Climate Change Conference and meetings of the International Olympics Committee, both attended by President Obama.

Fast, reliable communications played a key role in avoiding incidents and ensuring the success of these events. Police resources throughout the metropolitan area had to be deployed quickly where they were most needed. Without excellent communications links within police headquarters and to units across the city, this would have been impossible.

In the past, the headquarter building in central Copenhagen was equipped with a copper and fiber network infrastructure built with products from various suppliers. Ahead of the Climate Change Conference, which had seen violent demonstrations in the past, the police decided to replace their old network.

Because the headquarters building is critical in monitoring and controlling police operations, it needed a high end solution. There was no room for compromise on the performance or reliability of network infrastructure.

To meet their stringent requirements, the police turned to CommScope and its Copenhagen based BusinessPartner, K&L (Kemp & Lauritzen) Communications. The project was to remove existing cabling and replace it with a new integrated infrastructure with guaranteed performance from end-to-end. The replacement infrastructure included 10G solutions able to support security cameras and access control systems as well as data links and voice over IP connections.

The police had worked with K&L before and trusted the company to design an infrastructure providing the necessary quality and performance at the best price. The design that K&L produced included the SYSTIMAX® GigaSPEED® X10D 10G copper solution for the building's data center and desktop connections.

"We were confident that CommScope's solutions could meet all our requirements and that K&L would deliver a fully operational system in time for the Conference. The new network ensures that all our communications and connected systems are fast and responsive - even under peak loads. It is at times of intense activity that we need to deliver information most quickly; the CommScope infrastructure is excellent at times of pressure."

Allan Christensen
Copenhagen Police

The GigaSPEED X10D Solution meets the full specifications of the Category 6A /Class E_A standards for 10G data transmission over copper connections. Its cable and connector designs were created using unique modelling tools developed at CommScope Labs to ensure end-to-end 10G performance. Because of this, the company can guarantee 10 Gb/s performance in all certified GigaSPEED X10D installations.

Installation work had to be completed against rigid deadlines. The date of the Climate Conference was fixed, so all the challenges of installing a new network in an existing building had to be overcome without delay. K&L had to work out optimum network routing and find space for cables in a facility designed before computers were commonplace.

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During the project, a team of eight engineers and technicians re-cabled all five floors of the building. They installed nearly 90km of GigaSPEED X10D cabling together with SYSTIMAX TeraSPEED® and LazrSPEED® fiber solutions in the network backbones.

The TeraSPEED singlemode fiber solution can support 10G data transmission over long distances. It is a zero water peak fiber that delivers 50% more useful bandwidth than traditional singlemode types, giving the police the extra network capacity they need for big events.

SYSTIMAX LazrSPEED multimode fiber is suited to 10G connections of up to 550m. Because its fiber design is laser optimized, this solution delivers 10G performance without need for expensive electronics.

The complete network infrastructure serves the whole building, including the fourth floor where the data center is located. To further improve resilience and reliability, there are redundant connections in the network backbone so, in the event of any damage, performance can be maintained.

Within the data center and communications rooms, K&L installed SYSTIMAX copper and fiber patching hardware. End-to-end integration of all the SYSTIMAX components maximizes the network performance,

As well as being fully integrated, SYSTIMAX network infrastructure solutions are designed for easy installation and management. This saves time and money when installing and testing the network, playing a key part in meeting deadlines – a top priority for the Copenhagen project.

At the police headquarters, the new network was ready in good time for the Climate Change Conference. During the event, it met all expectations, helping the police ensure there was no disruption and that all those attending were kept safe.

Commenting, Dorte Blichfeldt, Channel Manager Denmark, CommScope Enterprise Solutions said: "This was one of the biggest gatherings of world leading politicians in recent years, so a reliable, high performance network at police HQ was vital.

"All police forces need fast communication and access to information across their operational area and, at the heart of this, are always one or more central hubs. The information flow within these buildings must be as fast as possible to provide officers on the streets and in control rooms with the support they need."



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