

CASE STUDY

Helsinki Metro and Tramway Secured

Netcon 500 provides secure control and monitoring of the Helsinki Metro and Tramway electricity distribution network.



CYBER-SECURE AUTOMATION FOR THE MASS TRANSIT DISTRIBUTION NETWORK

From 2002 to the present day, Netcontrol have provided a complete automation solution for the Helsinki Metro and Tramway power distribution network.

Netcontrol's Netcon 3000 SCADA system combined with our Netcon 500 and RTU28 units provides the network operator with a fully supervised automation control system.

Our solutions monitor and control the electrical distribution for the Helsinki Metro and Tramway.

HELSINKI METRO

Currently the Helsinki Metro utilises the following equipment:

- Netcon 3000 SCADA and hot standby/redundant Gateway Servers
- 25+ Netcon 500 RTU/gateways using IEC 60870-5-104

Using the optical fibre communication network, the Netcon 500 RTUs provide the telecontrol for

the power distribution of the Helsinki Metro rail system.

Over the past 10 years, Netcontrol have supplied additional Netcon 500 units and continued to support Helsinki Metro with their requirements for the secure telecontrol of their network.

HELSINKI TRAMWAY

The Helsinki Tramway services employ the following equipment:

- Netcon 300 SCADA and hot standby/redundant Gateway Servers
- 10+ Netcon 500 RTU/gateways using IEC 60870-5-104
- 12+ RTU28 using IEC 60870-5-104

The Netcon 3000 SCADA is configured for fully hot standby redundant operation providing a reliable and fail-safe solution. The Tramway uses conventional copper twisted pair dedicated lines as the communications infrastructure. Both the Metro and Tramway solution have been enhanced and developed since 2002 as Helsinki's requirements have grown. Netcontrol's solution easily provides for such expansion in a secure and seamless way.

