City of Tshwane

Benefits

- True multi-agency network
- Powerful dispatch solution
- Fully interoperable with legacy networks

Client overview

South Africa's City of Tshwane Metropolitan Municipality was established December 5th, 2000 through the integration of various municipalities and councils that had previously served the greater Pretoria and their surrounding areas. It is the diplomatic and administrative capital of South Africa.

The Metropolitan Municipality lies within the Gauteng Province and is 6.298 km^2 in size, and is home to ca 3 million people.
The city is headed by an Executive Mayor who has the overall responsibility of providing political leadership on behalf of the ruling party.

City of Tshwane

Solution

The all IP mission critical network is built around a redundant TetraNode eXchange Industrial that serves a TETRA network with 27 Base Station systems and 58 TETRA carriers. The TETRA network offers interfacing with telephony and 40 analogue channels with legacy networks that are distributed over the network.

The network further includes dispatch rooms with Chameleon dispatch stations with an integrated positioning application to communicate with the mobile workforce based on their geographical position. A centrally displayed NodeView in the main dispatcher room shows the network resource usage in real time.

Project challenge

In the preparation for the 2010 FIFA world cup soccer event in South Africa, where Pretoria was assigned one of the hosting cities with the Loftus Versfeld rugby and soccer stadium, the City of Tshwane had various projects. One of them was a new, metropolitan mission critical TETRA communications network. The challenge was to have the network supplied, installed and made operational in time.

The network today is mainly used with Tshwane Metro police, Fire Brigade and Ambulance services. City Electricity and water service delivery also use the network and during the FIFA world cup there was an additional emphasis on crowd control.

The new network replaced many legacy networks, but a large number remain operational as integral part of the TETRA network.