

Project reference | Beijing Metro

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Siqura is part of TKH Security Solutions, a division of the TKH Group. TKH Security Solutions offers a wide range of systems for access control, surveillance, intrusion detection and video management.



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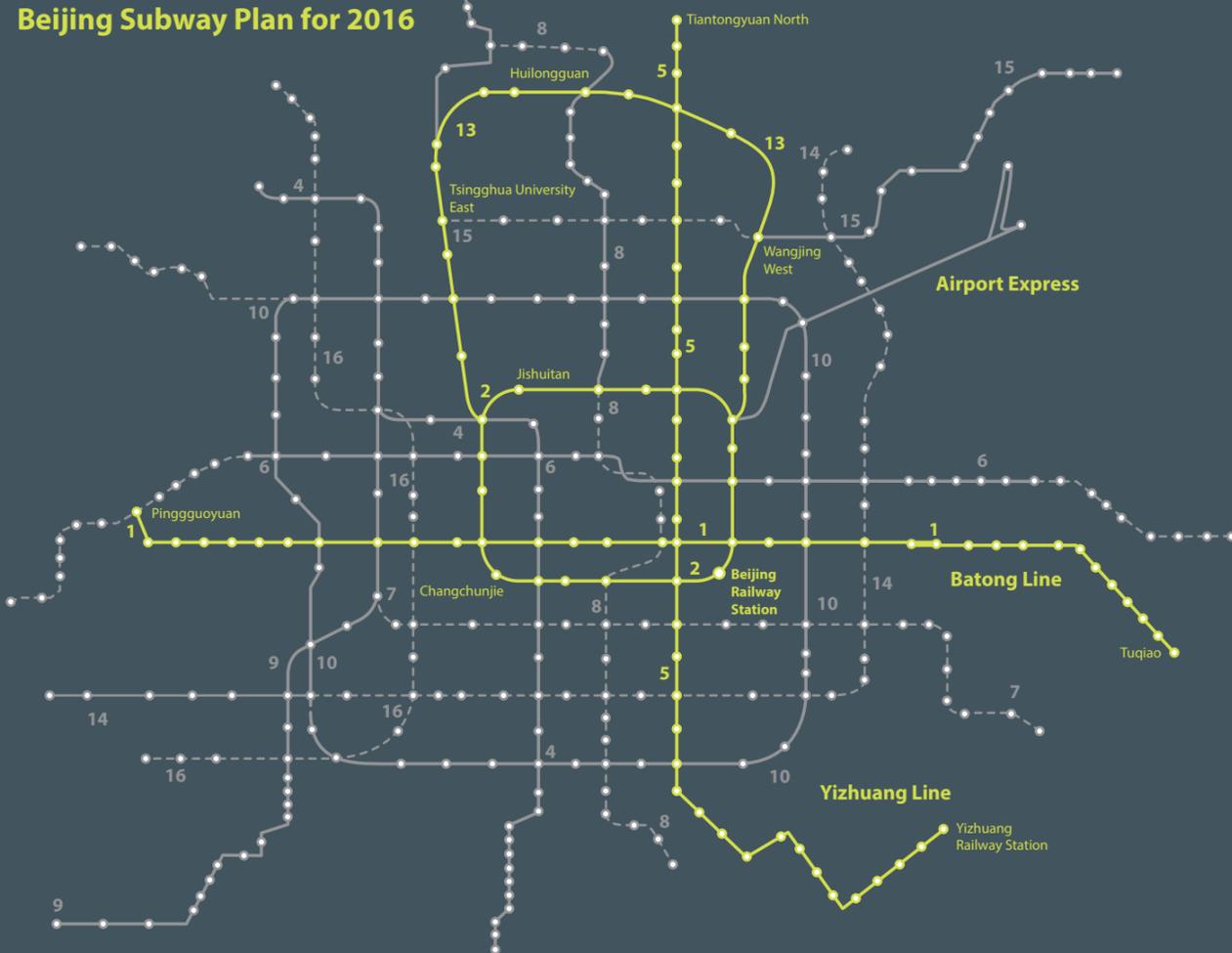


Project reference

Beijing Metro

Beijing Metro is a rapid transit rail system that helps more than 10 million commuters get to their destinations every day. In the run-up to the 2008 Summer Olympics, Beijing Metro decided to provide its busiest stations with a state-of-the-art security system based on Siquira's robust video encoders. In the central control room decoders were installed to deliver selected video streams to analogue monitors. Today, Siquira is upgrading the security system of the remaining lines.

Beijing Subway Plan for 2016



Customer

Beijing Metro (China)

Integrator

ShenZhen Keybridge Communications Co Ltd.

Technology

IP-based video network

Market

Transportation - Transit

Challenge

Upgrade the Beijing Metro surveillance system

Solution

Siquira codecs
Siquira switches

The challenge

Anticipating the passenger surge that the 2008 Summer Olympic Games were sure to cause, Beijing Metro decided to upgrade two of its oldest and busiest lines: Line 1 and Line 2. Beijing Metro's primary requirement was to modernise the existing station security systems with the latest and most reliable surveillance technology. This improvement project would affect four stations.

Both the scope and the schedule of this rather extensive project were highly demanding. The undertaking entailed, first of all, that the 1,669 cameras on the network transmit DVD-quality video over an SDH network core to multiple control rooms. The latency of these video streams could not exceed 200 milliseconds and the compression configuration needed to be set to minimise bandwidth levels. The network also needed to be managed by a single system-wide video management software solution. In addition, the software application would have to support Mandarin Chinese in its user interface, and the project had to be completed in time for the Olympics.

The solution

Aware of these obligations Siquira and systems integrator ShenZhen Keybridge Communications accepted this challenging project.

Initially, Siquira's programmers built a customised application using the recently improved Siquira MX software development kit to work around the bandwidth limitations of the SDH core network. Siquira then engaged a translator to allow operations in the software application to be carried out in Mandarin Chinese. Beijing Metro deployed Siquira's environmentally hardened encoders in all its stations and connected them to the SDH network core via Siquira XSNNet Ethernet switches. Back at Beijing Metro's control room, decoders were installed to deliver selected video streams to analogue monitors.

The kind of support offered to Beijing Metro and ShenZhen Keybridge Communications is characteristic of Siquira's commitment to close cooperation with local integration partners. And that cooperation hasn't ended yet: today, Siquira is upgrading the security system of the remaining lines.