

United Group – Liverpool to Parramatta Transitway

Design, develop and implementation of Help Point, Long Line Public Address, Digital Voice Announcement and Audio Logging systems for the Liverpool to Parramatta bus transitway



Project

LPT Bus Transitway

Client

United Group Limited

Location

Sydney, NSW, Australia

Contract Period

6 months

Award Date

August 2002

Project Overview

The Liverpool to Parramatta Transitway (LPT) consists of 31km of dedicated roadway, with 35 stations (including termini located at Parramatta and Liverpool), and 65 signalised intersections with bus priority. There are 4 major stations and 31 minor and intermediate stations in this Transitway.

Each station within the Transitway requires Public Address and Help Point capabilities – all controlled by centrally located operators in the Transitway Control Room.

The Solution

Open Access were commissioned to provide an IP based Help Point system and Long Line Public Address (LLPA) capabilities to the Transitway. In the field the system comprises 80 VoIP Help Points and 72 VoIP Digital Voice Announcement units used to propagate Public Address announcements.

The Help Points are recess mounted within secure cabinets at the stations which allowed commuters access to their touch sensitive buttons to initiate communication with centralised operators via VoIP desksets.

The Digital Voice Announcement system is used to provide Public Address facilities in the form of live VoIP LLPA and timetable triggered pre-recorded announcements. Via desktop microphones operators can make PA announcements to any combination of stations within the Transitway.

The Result

The embedded system deployed by Open Access was delivered on time and budget. The integrated solution included two fault tolerant Communications Exchange Servers providing redundant system control and management. Operators are provided with system control and real time system status information via graphical consoles.

The Digital Voice Announcement system was successfully integrated with the Connexionz timetabling system in order to provide automatic service information announcements at the stations. Further integration is provided between the Help Point and CCTV systems – upon call initiation the Help Point triggers the local CCTV camera which streams video footage to the operator's PC.