



rapidKL Kelana-Jaya Line

Client:
Bombardier Transportation
and Scomi-NERA
for RapidKL

Location:
Kuala Lumpur, Malaysia



rapidKL operates a number of bus and rail lines in Kuala Lumpur, Malaysia, including the Kelana-Jaya automated Light Rail Transportation (LRT) system. The system was installed in 1998, and currently consists of 24 stations, 35 two car trains, and 29 kilometers of double track. Trak Com is supplying communications equipment to Bombardier Transportation for 22 new 4-car trains as part of a system expansion.

Trak Com supplied the Communications Control Units (CCU) for the new vehicles, which provide the following facilities:

- Full duplex voice radio communication between the trains and central control for communication with passengers and crew
- Passenger Access Panels (PAPs) to enable communications between the control center and onboard passengers requiring emergency assistance
- Automated Announcements via the onboard Public Address (PA) system, controlled by an onboard passenger information control unit (VPIU) which is triggered from central control through the radio network
- A CAN-Bus Interface to the onboard vehicle Health Monitoring System (HMS), to provide both communications alarms to and receipt of vehicle alarms from the HMU for transmission over the radio.
- Hostler Access Panels (HAPs) providing radio, intercom, and PA facilities for crews that move trains in the yards or in the event of breakdowns

As part of a separate contract with Scomi-NERA, Trak Com is also replacing the original voice radio communications (VRC) control system and VRS consoles, including an interface to the new train data channel which will support communications with the new trains. The VRC control system also communicates with the Supervisory Control and Data Acquisition (SCADA) system for reporting of train and radio alarms, and with the Automated Train Control (SMC) system which trigger automated announcements onboard the trains over the radio.