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challenging limits

Kapsch TrafficCom

CityLink.

Kapsch/Transdyn was selected to design, build, and maintain an Automated Tollway Traffic & Facilities Management System that manages traffic and plant operations for Transurban's CityLink road network, a 22-kilometer automated tollway in Melbourne, Australia that includes the Burnley (3.4 Km) and Domain (1.6 Km) tunnels and connects the Tullamarine Freeway, the West Gate Freeway, and the Monash Freeway. The toll road provides reduced travel time between the Central Business District and Melbourne's suburbs, the airport, and Australia's largest seaport.

The new system is powered by Kapsch/Transdyn's DYNAC ATMS® software which serves as a modern, sustainable platform providing seamless management of all traffic and plant operations. From a unified operator interface, operators monitor and control the motorway's video cameras, vehicle detectors, electronic message signs, weigh-in-motion and counting stations, motorist emergency telephones, advisory radio and PA, ventilation, lighting, electrical distribution, access control, fire detection, and environmental systems. DYNAC's highly integrated user environment and advanced incident response management application allows CML to safely and efficiently manage both traffic and facilities operations especially during emergency situations.

Effective Incident Response Management is essential to the safe operation of confined space road transport facilities. The DYNAC ATMS® Incident Response Management application aids operations staff in responding consistently and appropriately to both minor and severe incidents. A homogenous user environment allows operators to quickly respond to incidents and emergency conditions while monitoring and safeguarding vital equipment and facilities.

The fusion of video surveillance and real-time data enhances situational awareness – a critical requirement in extreme emergencies. Alarm notification is fully automated so the right personnel are notified and response management data is logged and reported for operational performance improvement.

The new system includes an interface with VicRoads, a neighboring state road and traffic authority which operates the motorway connecting to CityLink. This interface allows both CityLink and VicRoads to monitor all traffic devices in each area, provides joint management over shared messaging devices, and allows staff in both control centers to provide optimal response to incidents occurring in either area. Once operators activate a response plan through IRM, incident alerts can be displayed on electronic messaging signs throughout the motorway. This advance notification of traffic conditions allows motorist to make informed travel decisions and minimize total drive time.

References.
Client: Transurban CityLink Melbourne Limited
Location: Melbourne, Australia

System features.

- > DYNAC ATMS® Software
- > Dynamic Message Signs
- > Ventilation
- > Decision Support Manager
- > Vehicle Detectors
- > Lighting
- > Automatic Incident Detection
- > Weigh-in-Motion and Counting Station
- > Electrical Distribution
- > Response Plans
- > Emergency Telephones
- > Fire Detection
- > Video DisplayWall
- > Motorist Advisory Radio
- > Environmental Systems
- > CCTV
- > Tunnel Barrier System