



Corporate Profile

Global Product & Technology Capabilities

Keeping the world moving

tyco
Traffic & Transportation



Tyco International

A vital part of your world

Tyco International is a diversified company that provides vital products and services to customers in more than 60 countries around the world. Tyco is a leading provider of electronic security products and services, fire protection products and services, valves and controls, and other industrial products.

With 2009 revenue of more than \$17 billion, Tyco employs approximately 118,000 people across five business segments: ADT Worldwide, Fire Protection Services, Safety Products, Flow Control, and Electrical and Metal Products.

The World Leader in Protection Technologies...

- Access Control Systems
- Anti-theft Systems
- Emergency Breathing Apparatus
- Fire Detection Products
- Fire Suppression Systems
- Healthcare & Public Communication Systems
- Intrusion Security Systems
- Radio Frequency Identification
- Traffic & Transportation Systems
- Video Surveillance Systems

Tyco Traffic & Transportation products are world-leaders in Traffic Management & Control Systems in over **120 cities** worldwide covering over **26,000** intersections.

Concepción, CHILE experienced fast growth on SCATS™ installed intersections. An initial installation of **28** provided such an improvement in traffic flow that an **additional 170** were added within **12** months of operation.





Tyco Traffic & Transportation

Keeping the world moving

Tyco Traffic & Transportation...

joined Tyco in 2000 with a charter to provide traffic and transportation products and systems worldwide. Tyco Traffic & Transportation brings together a range of specialised skills and years of experience.

Ethical Conduct

It is a requirement that all employees adhere to Tyco's code of conduct which includes:

- Integrity
- Excellence
- Teamwork
- Accountability and
- Customer Service

Traffic & Transportation Markets, Products & Services:

- Traffic & Transportation
- Global Markets
- Urban Traffic Management
- Motorway & Tunnel
- Management Systems
- Public Transport Management





Traffic & Transportation Global Markets

Keeping the world moving

Tyco Traffic & Transportation...

designs, develops and delivers innovative and cost-effective solutions that meet performance requirements in the Intelligent Transport Systems (ITS) environment, as well as manufactures and distributes urban and motorway traffic control systems to markets across the globe.

Tyco Traffic & Transportation...

products are world-leading in traffic management and control systems in cities world-wide. Intersection installations are supported through Tyco Traffic & Transportation offices and agents worldwide. SCATSTM can support any type of installation... from the smallest in New Bangkok International Airport (NBIA), Thailand with 2 intersections, to the largest installation of over 3500 intersections in Sydney, Australia.

Other global markets include...

...Intersection installations in the Middle East, North America, Latin America and throughout Europe.

The City of **Toluca, Mexico** implemented a wireless connection to a central control room via a cellular network – a benefit the city experienced without having to dig trenches or do any underground work, was a breakthrough in traffic management systems

Urban Traffic Control

Less time, more travel

The Sydney Coordinated Adaptive Traffic System (SCATS™)...

uses a responsive approach to urban traffic control by measuring the traffic flow through an intersection and then automatically adjusting cycle lengths, splits and offsets between intersections to maximize throughput, minimize delays and reduce the number of stops en route. Tyco Traffic & Transportation are world leaders in Traffic Management & Control Systems.

Urban Traffic Management Products include:

- Eclipse Traffic Controller
- SCATSTM Outstation Transmission Unit (SOTU) Interface
- Wireless Communication
- Real Time Passenger Information Systems - RTPIS
- SCATSTM

Our urban traffic products and services assist with reduced fuel emissions, commuter travel times and an increased level of control over the traffic system for operators. Our user-friendly interface has been designed by traffic engineers resulting in a system that is easy to install and manage. Installation, service and maintenance can be offered through a partnership via distributors, and can be elected to be maintained by the local authority.

How do we help make traffic and pedestrians move more smoothly and safely?

By providing broad range of advanced traffic control equipment and systems to fully enable traffic adaptive operation and improve efficiency. Our experts can advise on the optimal installation of detection devices, such as vehicle detectors and pedestrian pushbuttons, enabling the traffic control system to measure the real-time traffic and pedestrian demand. Proven SCATSTM Control Algorithm will generate from the measured traffic conditions a set of optimal timing for each controlled intersection to coordinate the proper traffic flow.

Tyco was part of the Pacific Link Alliance as a sub Alliance member for the supply, design, installation and commissioning of the **Tugun Bypass ITS project in Queensland, Australia**. It comprises electronic signage, over height vehicle system, swing gates, CCTV, vehicle loop detectors, radio broadcast, public address, mobile phone coverage, wireless/microwave links and PMCS system. The additional challenge was to coordinate with two states and the Commonwealth as the Bypass crossed 3 borders. The Meridian Motorway management system was used to provide the highway traffic management, including the communications to TMCS in Sydney and interface to Streams. It included full control for the Motorway in Nerang and a backup system to the Tugun Control Centre.



Motorway & Tunnel Management Systems

We care about getting you there

The Tyco Traffic & Transportation Motorway Management System – Meridian.

is a versatile integrated platform for managing and controlling subsystems on motorways and tunnels. The state-of-the-art response plan system provides easy and fast response mechanisms that help operators quickly and effectively handle any situation on the road, identify incidents, increase flow capacity and avoid accidents.

Motorway Management Products:

- Environment Management
- Automatic Incident Detection and Situation Management
- Driver Advisory Signs
- Vehicle Detection with Classification and Weighing in Motion
- Tidal Flow Systems for Roads and Bridges

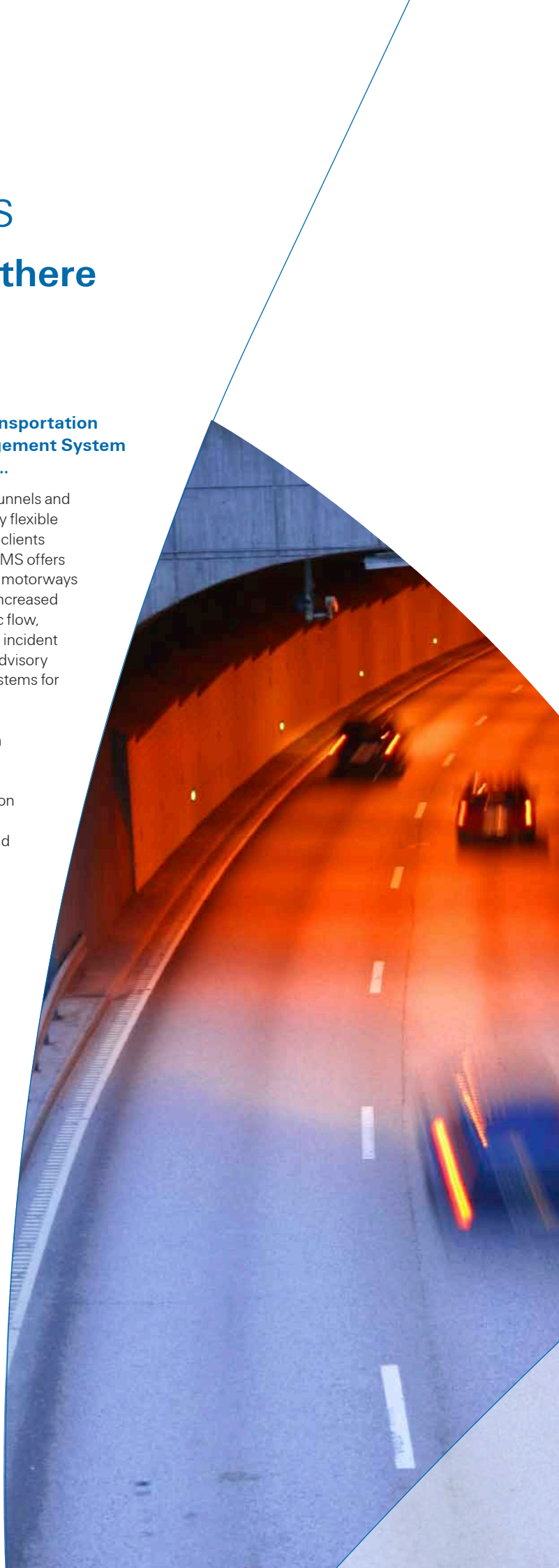
How do we help make tunnels safer and more efficient for motorists?

By providing a range of advanced monitoring, plant and traffic control equipment and systems to enable full control of tunnel operation. Our experts can advise on the optimal installation of vehicle detection and other surveillance devices enabling automatic prompt detection of incidents in a tunnel. The Meridian System will provide notification and assist the operator to quickly and systematically isolate the incident. Tunnel Systems also integrate the control and management of ventilation, fire detection, fire protection, radio broadcasting, drainage pump, UPS, electrical distribution and other auxiliary systems essential for tunnel operation.

Tyco Traffic & Transportation Motorway Management System software system...

controls motorways, tunnels and bridges with a uniquely flexible system customised to clients requirements. The TMMS offers complete control over motorways providing customers increased safety, improved traffic flow, increased control over incident management, driver advisory signs and tidal flow systems for bridges.

The largest installation is in Singapore with one central system including the integration of weather systems, emergency phones and vehicle management information systems. The graphic display is a user friendly interface which sets the Tyco Traffic & Transportation system apart from our competition.



Public Transportation

Moving the people as one

Public Transport Management Systems...

incorporate Real Time Passenger Information Systems (RTPIS), Priority Systems, Timetable Management, Schedule Adherence and Vehicle Tracking Systems. Tyco Traffic & Transportation has brought together a number of leading technologies to provide accurate, reliable, consistent and intelligible information to bus passengers while providing low cost easy to use management tools for bus operators.

These are integrated into a system known as Tyco I-Bus, which provides for today's requirements and is powerful enough to cater to tomorrow's expanding needs. Due to open architecture and the use of standard protocols, Tyco I-Bus can be easily interfaced with other systems if required.

Tyco I-Bus System provides the following features:

- Automatic Vehicle Location
- Bus Arrival/Departure Prediction
- Passenger Information Management
- Statistical Data Reporting

Public Transportation also includes:

- Vehicle tracking
- Traffic light priority
- Schedule adherence
- Fleet planning tools

How do we help make public transport such as buses more attractive as the preferred mode of transport?

For buses to be the preferred mode of transport, they should run on-time and have bus-stop arrival information readily available for prospective passengers. Our Tyco I-Bus system is designed to monitor the location of each bus as it travels through the road network, display projected arrival time at each bus stop, check the actual progress against the timetable, and if running late request priority from the traffic controller at the next intersection to return to schedule. Busing schedules can also be made very accessible by posting them on the internet, SMS, and by posting message signs strategically within urban metro areas.

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