



IP Transport Communication System

Whitepaper and Project References



THE PROBLEM

Transportation is vital for the operation of everyday life. Getting between home and work, delivering food and materials and the progression in industries such as tourism and mining all have one major commonality, the need for transportation. The importance for the adequate operation of transportation systems relies heavily upon effective communications and security systems. Whether travelling during the day, alone, or at night, it is important for people to feel safe and secure when using transportation systems.

THE ANSWER

Jacques' IP communications system, which features integrated intercom, help point and public address systems, provides time critical communication when it is required. With the seamless integration to many leading third party CCTV, security management and access control systems transport network operators can respond to security, public safety or transport network issues with ease. Jacques system provides unique and individual solutions that work effectively for bus, train, airport and maritime transportation systems. Transportation system operators are able to avoid delays and effectively manage issues consequently, satisfying consumer demands. Jacques integrated IP audio and video intercom, help point and public address systems will ensure safety and security for individuals and assets while providing solutions to meet specific requirements of a variety of transportation systems.

AIRPORTS

The Jacques IP communication system will ensure the easy and steady management of airport security and communications through help point units, intercom terminals and public address allowing for communication between an individual and security personnel or communication to the masses.

As air traffic operates 24 hours a day, human traffic surrounding airports will follow suit, therefore access to help and assistance can be provided by Jacques Help Point Units located throughout an airport carpark, concourse and terminal. These highly visible, robust call points allow for emergency calling at the press of a button. Help point units are also available with dual call buttons, allowing for information calling, should passengers require help and assistance instead of an emergency. Integration with third party CCTV systems allows for nearby cameras to automatically focus on the help point unit where a call is active, allowing for the security responder to view the situation via the CCTV system, while responding to the caller verbally.

Video intercom terminals can be located within the terminal at entrances to secure areas. Should an airport staff member forget their security pass, a simple call to the security control centre whereby the callers' image will be visible on the intercom monitor station. The security controller can converse with the staff member and grant access either by activating the door release relay on the intercom terminal or via the access control system, integrated with Jacques IP Intercom systems.

Communication to all within the airport precinct; terminal, airside operations; concourse or carpark is simplified with a Jacques IP public address system, scalable to virtually an unlimited number of public address zones. Live public address announcements

can be made to one, selected or all zones across the system ensuring targeted communication to the masses. The system, featuring a user-friendly interface allows an administrator to schedule pre-recorded announcements at specific times. This ensures recurring announcements occur across the system without human intervention, ensuring security officers are free to focus on more pressing issues.

Jacques makes airport safety and security easy and reliable through its effective IP audio and video intercom, help point unit and public address systems.

BUS & RAIL NETWORKS

Bus & Rail IP public address enables simple notifications to passengers regarding safety warnings, delays or emergency broadcasts with multi-zones, pre-recorded messaging, scheduled release of messages, background music streaming and distribution of information. Either, broadcasting announcements to all train stations or bus stops simultaneously or announcing specific messages to nominated stations. Audio at stops is guaranteed to be clear and consistent throughout each site regardless of the distance or location.

Intercom help points units can be found at each station and on train carriages, which allow passengers to make emergency calls or gather passenger information. As trains can hold a great capacity of people, train staff presence can be scarce resulting in the benefit of an on board intercom system. The on board intercom system ensures passengers have the opportunity to contact train staff in the case of an emergency.

The added security of intercom help point units and integrated CCTV cameras can help commuters feel safe when waiting at bus stops or train stations alone



Assistance at tolling booths thanks to Jacques IP intercom terminals.

or at night. CCTV provides constant surveillance which can be viewed from a central location and together with intercom Help Point Units that allow for emergency or information calling by passengers, this solution can ensure complete security for bus and rail networks.

Management of the bus or train network communication system is simple via the Jacques customised Graphical User Interface (GUI). The GUI, specifically customised for each site provides central control staff with one touch operation of the intercom and public address system, including call answer, end, forwarding, public address announcement and audio streaming.

Jacques' innovative IP audio and video intercom and public address systems offer flexible and comprehensive solutions suitable for bus and train applications that ultimately ensure commuters feel safe and confident using public transport services.

TRANSPORT INFRASTRUCTURE

With highway tolls becoming less manned, drivers need access to immediate assistance if, for example the boom gate fails to rise. With intercoms positioned at tolling booths and integration to CCTV cameras and access control systems, drivers have the ability to contact assistance through user-friendly intercom terminals whilst security are able to verbally address drivers, view the situation via CCTV and allow access from a central control location ensuring a continued traffic flow.

Tunnels increase the risk for driver safety due to the dangers of minimised visibility, minimal exit points and poor lighting thus enhancing the need for advanced and comprehensive security services. Jacques offers a public address system as well as intercom help point units and IP video and/or audio intercoms to be installed throughout tunnels to ensure drivers are able to contact help immediately and receive prompt assistance.

In the event of an accident within a tunnel, public address announcements including the broadcast of emergency tones and alerts will alert drivers to the situation.

Jacques IP intercom and public address system partnered with leading third party systems such as CCTV, access control and security management systems help reduce the impact of transport infrastructure issues while providing a comprehensive and holistic approach to driver safety.

MARITIME

Designed to withstand the harshest of environments Jacques vandal and weather resistant intercoms can be positioned on docks, near loading bays or within cranes ensuring port personnel have communication access to central control at all times. Hands-free operation of all intercom terminals in busy, industrial environments upholds workplace health and safety requirements. Seamless integration with access control and CCTV systems ensures doors and gates can be opened to wanted visitors and staff following the establishment of communication via intercom.

The IP communications system for the maritime industry protects vessels and people with 24 hour visual monitoring through integrated CCTV and access control all from one central or remote location. If an incident arises, security can provide emergency warning and evacuation information to those affected through the IP public address system.

Management of the maritime communication system can be via the Jacques IP master station console or the PC master station featuring a customised Graphical User Interface (GUI). These master stations provide central control staff with one touch operation of the intercom and public address system, including call answer, end, forwarding and live PA announcements.



PROJECT REFERENCES

- Air Services Australia, various sites
- Butler Train Station, WA
- Broome Port Authority, WA
- Brisbane Busways, QLD
- BRT Sunway Bus Rapid Transit, MYS
- Canberra Airport, ACT
- Christchurch Airport, NZ
- CSIRO Investigator Research Vessel, TAS
- Darwin Airport, NT
- Darwin Port, NT
- Flinders Port, SA
- Freemantle Ports, WA
- Gladstone Ports, QLD
- Gold Coast Airport, QLD
- Goodwill Bridge, QLD
- Hamilton Railway Station, NSW
- Hillside Rail, WA
- Hobart Airport, TAS
- Johor Bahru Port Authority, MYS
- Mackay Port, QLD
- Melbourne Airport, VIC
- New South Wales Rail, NSW
- North Quay Rail Terminal, WA
- ORICA Port Headland, WA
- Parramatta Tunnel, NSW
- Perth Airport Car Park, WA
- Perth Rail, WA
- Port of Melbourne, VIC
- Port of Portland, VIC
- QAL Wharf, QLD
- Queen St Busway, QLD
- Sydney Trains, NSW
- T1 Sydney Airport, NSW
- Kurilpa Bridge, QLD
- Tasmania Ports, TAS
- Tasmania Rail Yard, TAS
- Toowong Bus Depot, QLD
- Webb Dock, VIC
- Wellington Airport Tunnel, NZ
- Wollongong Railway Station, NSW



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