

Acubis trailers provide instant, secure and cost effective wireless network access. Engineered and built to withstand harsh and remote conditions, Acubis trailers are easily transportable and rapidly deployed. We integrate intelligent software technology into our trailer platform to deliver customised functionality for mine operations and construction.

For some projects, installation of semi permanent or fixed network infrastructure is geographically challenging, time-consuming and cost prohibitive.

In these situations, Acubis mobile trailers provide self powered, wireless connectivity to support multiple network applications such as data, radio communications, personnel or vehicle tracking and video surveillance. As site conditions change, Acubis trailers can be rapidly relocated to maintain optimal network connectivity.

## Benefits

- ✓ **Cost and time efficient**  
Minimal installation, cabling and maintenance  
Lower cost and less time compared to fixed infrastructure
- ✓ **Rugged and tough**  
Manufactured with high corrosion resistance materials  
Engineered to withstand extreme environmental conditions
- ✓ **Flexible and mobile**  
Easily towed by a standard light vehicle  
Rapidly relocated as site expands or obstructions develop
- ✓ **Rapidly deployed**  
Wheel assembly design eliminates earthworks or foundations  
Solar powered
- ✓ **Operator safety**  
Mast winch eliminates manual operation of the steel mast assembly  
Easy and quick deployment, reducing exposure to extreme conditions
- ✓ **Enhanced security**  
Independent and secure network connectivity  
GPS tracking
- ✓ **Customised solution**  
Integration of software technology for advanced functionality  
Purpose built design for specific projects
- ✓ **Purchase or hire**  
Flexible options to suit any phase of deployment, construction or for shutdowns and scheduled events.

## Applications

- Site surveillance
- Road and driver safety
- Incident management
- Emergency response
- Project exploration
- Mine accommodation site
- Maintenance shut downs
- Special event monitoring
- Temporary coverage

## Industry sectors

- Oil and gas exploration
- Surface and underground mining
- Roads construction
- Railway and railway construction

## Struggling with...

- Poor network coverage?
- No network infrastructure?
- No on site power?
- Resource constraints?



**Contact Acubis to see how we can upgrade your mobile trailer with new technology and advanced features to ensure optimised surveillance, site and road safety, improved monitoring or enhanced automation and remote control.**

## Integrated Customised Solutions

The innovative platform of Acubis mobile trailers provides enhanced functionality over other systems.

- Integration with SAMS (Site Asset Management System) provides automation, remote monitoring and control of equipment, devices and machines from almost any location. Acubis trailers with SAMS monitoring provides critical data on battery power and location tracking, safeguarding against emergency call outs and reducing hardware replacement.
- Incorporating SentineX environmental monitoring for noise, air quality or vibration can assist with maintaining good neighbour relations. Real time data and alarm features ensure noise or dust is minimised, whilst sources of noise complaints can be quickly and easily determined.
- Integration of video surveillance with SentineX real time noise monitoring allows mine operators and management to see and hear operations and monitor maintenance and shut downs. This can lead to improved emergency response procedures and operational efficiencies. The alarm features makes information immediately available for timely decisions, ensuring safety of equipment and personnel.



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## PROJECT EXAMPLES

Acubis has deployed trailers at open cut mines throughout Australia, providing robust, and secure wireless networks.

### Restricted Access at a Central Qld Mine

**Issue:** Damage to heavy vehicles from unauthorised use.  
**Solution:** Acubis designed a trailer with an access control system to act as a mobile boom gate. Management determined authorised access for approved personnel to provide maximum security in the restricted area. The boom gate was effective in reducing the unauthorised use and deliberate damage of mobile machinery and vehicles. Additionally, during an emergency, accurate staff numbers were quickly identified.

### Enhanced Safety at Railway Construction Site

**Issue:** Safety of remote workers.  
**Solution:** An Acubis trailer was fitted with wireless nodes and a camera to provide the vital link for communications and video surveillance. This gave the control room visibility of people, equipment and machinery, which proved critical in emergency response situations and also contributed to improved worker safety.

### Improved Comms in Qld Open Cut Mine

**Issue:** Poor radio communications in deep pit.  
**Solution:** Acubis conducted a site survey, which immediately identified the low coverage areas and determined the exact location for a repeater trailer. The survey results also identified areas where overburden could be placed without impacting coverage or performance.

### Preventative Maintenance of Excavator

**Issue:** Unrecoverable downtime of excavator.  
**Solution:** Acubis fitted a trailer with an infrared/thermal camera and positioned it near a coalface excavator and working truck circuit. Whilst monitoring the surveillance during normal operation, the Preventative Maintenance Supervisor noticed the bucket and link pins were unusually hot. He immediately alerted field maintenance personnel to investigate. The excavator bucket and link pin lubrication system were serviced, preventing any serious incident or downtime.

### Improved Speed Compliance and Road Safety

**Issue:** Road users disobeying road rules.  
**Solution:** Acubis customised a trailer with a speed camera and intelligent software to monitor, display and record vehicle speed. The Intercepta Smart Radar Camera was extremely effective in alerting drivers and management to overspeed. This resulted in improved compliance to speed zones and reduction in reportable vehicle incidents.



Acubis Technologies is part of The Advitech Group, a collaboration of science, engineering, environmental and technology focused companies with experience across mining, manufacturing, heavy industry, construction and commercial sectors. The Group provides direct access to a multidisciplinary team of software developers, engineers and scientists, who apply their specialist skills and industry experience to deliver the best possible results for your business.

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