

P25 Solution Centre

**An industry initiative
hosted by Airwave
Solutions Australia**



“Airwave Solutions Australia is pleased to host the P25 Solution Centre, an industry initiative that will provide customers with a ‘hands on’ opportunity to confirm the compatibility and interoperability of terminals and infrastructure from a variety of manufacturers. This endeavour represents a significant collaboration by the industry, to demonstrate the mature and open nature of P25 standards compatible equipment. Airwave and its parent organisation Broadcast Australia are proud to lend our experience, capability and resources to the Centre and look forward to working with both customers and manufacturers to demonstrate the innovation available in the local Australian marketplace.”

Airwave is a dedicated operator of critical government infrastructure, uniquely positioned to deliver the specific communication requirements of the government and public safety sectors. Our extensive experience has allowed us to consistently deliver and maintain the critical communication services required to support daily operations during major disaster events.

In the United Kingdom, Airwave operates one of the world’s largest and most complex public safety voice and data networks, providing a nationwide secure digital network for over 300 individual emergency services and government agencies. The network is engineered with extreme fault tolerance to ensure every voice call and every data packet for the 250,000 users is delivered every time.

In Australia, Airwave together with Broadcast Australia operate nationwide critical communication services under long term contracts with government. These services cover 99% of the population, are supported by over 400 employees, including 250 field technicians, radio planning specialists, engineers and project staff. In addition there are 2000 trained first-in-maintainers located close to transmission sites in regional and remote locations that ensure continuity of these high availability services 24/7.



Malcolm Keys
CEO
Airwave Solutions Australia

What is the real performance and reliability of an open standard network with equipment supplied by multiple vendors?



Tait is pleased to be involved in the P25 Solution Centre (PSC) which is supporting the P25 Compliance Assessment Program and demonstrating the reality of multi-vendor interoperability on Australian shores. The PSC will demonstrate exciting interoperability concepts such as the ISSI (Inter-RF Sub-System Interface), connecting multiple vendor’s networks together. With the support of Public Safety and government organisations the PSC has a significant role to play within the industry.



Brett Smythe
Managing Director
Tait Radio Communications
Asia Pacific



Image courtesy of Tait Radio Communications

At Airwave, we understand the importance of choosing the best and most compatible technology for your needs. The **P25 Solution Centre** provides an environment that allows you to not only test and verify the equipment and applications from multiple vendors, but also confirm for yourself the value of the options available in the Australian P25 Communications market.

How?

- Witness the live demonstration of equipment (from multiple suppliers) working together within an integrated network environment – **as specified by you.**
- Configure radios from different manufacturers, to then use on alternative manufacturers infrastructure – **as specified by you.**

Incorporating P25 radio and switching equipment, console equipment and RF systems from leading manufacturers, full time engineering support and direct access to participating manufacturers, the **P25 Solution Centre** is the perfect environment to experience first hand your specified system in a real-life situation.



Harris recognises that there are many companies that provide innovation for different user applications and we are focused on technology trends, standards and supplier capabilities. Harris RF Communications is pleased to support Airwave Solutions in Australia through the establishment of their P25 Solution Centre and we are pleased to endorse the use of this facility to demonstrate the interoperability of systems and products to the benefit of the Australian RF User base.



Alan Callaghan
Managing Director
Harris, Asia Pacific

There are three ways for your organisation to utilise the P25 Solution Centre:

1: The features and functionality of P25

A short overview for Senior Managers of the features and functionality associated with P25 vendors' equipment. This is intended for those who wish to have an understanding of the type of equipment their organisation is interested in and to have confidence that the system they purchase will meet their requirements.

The session will typically last a half-day and will involve presentation time and hands-on experience of the equipment, hosted by the vendor(s) involved.

To ensure we maximise the value of your session, notice of your requirements will allow us to reserve the Centre and provide the Airwave engineering team time to configure the equipment to your specifications.



The development of P25 open-standard interfaces has enabled us to provide customers with the full-featured, highly interoperable and secure dispatch solutions they require. Zetron supports the P25 solution centre and is committed to engaging and testing with manufacturers who have also developed a CSSI or DFSI that meets the P25 TIA specifications.



Ranjan Bhagat
Vice President and General Manager
Zetron Australasia Pty Ltd



The strength of Project 25 operation lies within its compliance to enable multi-vendor interoperability. We encourage all Agencies to visit the PSC and experience the true nature of open standard communications by test driving our SIMOCO Xmode™ equipment with a selection of terminals and infrastructure.



Garry Mettner
National Bid Manager, ComGroup
Australia

2: Project Engineering Demonstrations

An opportunity to see how interoperability works, this activity is aimed at the engineering teams within user organisations who may be interested in certain detailed functionality.

These demonstrations involve a detailed set up of what is required to perform specific testing or assurance activity. A test plan, which has been discussed with Airwave in advance, along with notice of your requirements, is necessary to ensure the Centre is prepared accordingly.



Auria has been an active proponent of the implementation and use of standards based interfaces in all the networks we deploy. This is evidenced by the range of third party products Auria has interfaced with including console systems, voice recorders and other vendors' core radio products. Auria is delighted that an independent environment has been established in Australia where end users can see first hand the use and benefits of these open interfaces promoted by the P25 standards body and implemented by Auria and other leading manufacturers.



Brad Dolphin
CEO, Auria Wireless

3: Bespoke Customer Solutions where testing a business solution/outcome is expected

This activity is aimed at customers who may wish to interconnect legacy equipment (consoles or RF equipment) or confirm the operation of new applications (e.g. GPS/AVL or data applications) and devices in a secure environment that does not compromise an operational network. Documentation describing the scope of the project will be required and some costs may apply if additional materials or resources are required. Airwave will host the participating agencies and configure the Centre according to the requirements of the organisation hiring the facility.

Support Services

Airwave will assign an Engineer to assist you with your testing in the Centre and record the results for you.

We can also provide office space should you need it, as well as engineering support to help you get the most from your time in the Centre. Our experts can help you to solve testing issues and make recommendations based on in-depth analysis of your results.

System Availability

We usually need 14 working days' notice for equipment and application testing, which is carried out during normal business hours. However, in certain cases we may be able to provide urgent access outside office hours.

Security

Access to the Centre is by prior arrangement only. All visitor names must be provided to Airwave at least three working days prior to site access.



RFI supports the P25 Solution Centre to help promote the adoption of the P25 standard and interoperability between equipment suppliers, as well as to highlight our PIM rated antennas, combining and rebroadcast repeaters suitable for deployment in P25 networks.



Neil Matheson
National Sales Manager, RFI

The P25 Solution Centre is a joint initiative between Airwave and many of the leading vendors in the field including:



Harris Corporation is the industry innovator in providing assured communications® technology, products and networks for both government and commercial markets.

Harris has unique market strength garnered from the major strategic investment in product development to achieve interoperability between the military, para military and public safety sectors via hosting of P25 on a wide range of products.

www.harris.com



Tait Radio Communications is a global leader in designing, deploying and supporting radio solutions for Public Safety agencies, as well as a variety of industries including: electrical, gas and water utilities, government services, and urban transport providers. Across the world, users of Tait products and services are better able to protect themselves and the public, be more responsive and more efficient.

www.taitradio.com



Auria Wireless is an Australian designer, manufacturer and supplier of Digital Trunked P25 Radio Network equipment. As the solutions partner of Etherstack Ltd, the world's leading APCO P25 technology licensing company based in Sydney, Auria Wireless remains abreast of the ongoing ETSI and TIA standardisation process to ensure that all Auria Wireless products conform to the latest APCO-P25 standards as they evolve.

www.auriawireless.com



ComGroup specialises in turn-key solutions for P25 digital trunked or conventional systems. Our P25 digital products provide assured clear communications and true interoperability via Xmode™. We are a unique supplier offering **simoco** digital and analogue two-way radio terminals and related technology.

ComGroup is the only two-way radio company that conducts 100% design, development and manufacturing engineering activities in Australia.

www.comgroup.com.au



RFI has been serving the needs of the wireless communications market for over 30 years. First founded as a manufacturer of antenna systems, RFI has grown to be a key player in the development, manufacturing and distribution of wireless technology and energy products. Through our extensive network of resellers, systems integrators and retail outlets, RFI is a key supplier to industry and Government.

www.rfi.com.au



Icom Inc. has over 50 years experience in supplying quality radio equipment throughout the world. The organisation prides itself on providing communication products of unsurpassed quality and reliability.

The broad range of products manufactured by Icom includes: commercial land-mobile (digital and analogue), marine (communication and navigation), air-band, UHF CB, as well as amateur and receiver units.

www.icom.net.au



For over 30 years, Zetron has been providing mission-critical command and control communication solutions for customers in public safety, transportation, utilities, manufacturing, healthcare, mining and business.

Zetron Australasia, based locally in Brisbane, Queensland develops, delivers and supports the Acom Integrated command and control communication dispatch console solutions focused on P25 and other Interoperability solutions.

www.zetron.com

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