

## Tuesday, 15 October

## Pre-Conference Workshops

*(Additional fee applies — limited availability. Book with one- or two-day conference packages or individually. Prices are ex-GST.)*

**Stream 1:** With conference package - \$449; Workshop only - \$499. **Stream 2:** With conference package - \$249; Workshop only - \$299.

**Stream 3:** Morning w/conference package - \$249; Workshop only - \$299; Afternoon w/conference package - \$299; Workshop only - \$349

### ARCIA Stream 1 – Morning, 9.30am-1.00pm Introduction to P25 Standards and Systems

This course introduces the student to the P25 digital land mobile radio standard. Modules include a high-level overview of the P25 digital radio standard as a transmission medium including the TIA standards, modulation, vocoders and channel access.

An introduction to the P25 standard will be covered, including Phase 1 & 2, conventional and trunked systems, encryption and system components (eg, RFSS, ISSI, CSSI, etc). The information is introductory in nature and designed for all audiences; however, a basic understanding of radio communications would be beneficial.

**Presenter: Chris Stevens** – Managing Director CartGIS and Vice-President ARCIA

### ARCIA Stream 2 – Morning, 9.30am-1.00pm The TAK Imperative: Why Australian Mission Operations will embrace this unifying common operating picture

Join an international line-up of TAK experts as they deep dive into a technology that delivers an interoperable unified common operating picture (COP) based on non-proprietary, open-source software developed and continuously updated by the US Department of Defense.

Australian public safety agencies and emergency management organisations can embrace the civilian TAK stream as a unified operational picture that fits in the hands of remote emergency workers, which is also available to benefit private-sector users such as park operations, marathon organisers, festivals and other large public events.

**Presenters: Ken Rehbehn** – Principal Analyst, CritComm Insights; **Jared VandenHeuvel** – Innovation & Data Office, Texas Dept of Public Safety; **Charles Laird** – First Responder Program, North Carolina Dept of IT; **Neil Jamieson** – Group CEO, Hypha

### ARCIA Stream 1 – Afternoon, 1.30pm-5.00pm Private LTE/5G – The Fundamentals of the Technology and System Designs

This course will provide students with the skills to be able to outline the key elements and components of a typical wireless broadband communication system. Students will be able to develop the block diagrams and system elements for designing a basic system and demonstrate the expected requirements and outcomes of such a system, both in basic and extended formats.

On completion students will be able to understand and identify the various elements associated with system design, including the relevant spectrum sectors that are associated with wireless broadband, and understand the potential outcomes that are relevant to all options that are applicable.

**Presenter: Simon Lardner** – Head of Wireless Business, Vocus

### ARCIA Stream 2 – Afternoon, 1.30pm-5.00pm P25 Standards, Systems & Governance used in Public Safety networks

This workshop will build upon the success of the P25 panel held at Comms Connect in 2023 and welcomes once again the P25 Technology Interest Group's (PTIG) Director, Ms Cheryl Giggetts. As the past 12 months have proven, despite predictions by government bureaucrats and industry pundits over past years regarding the imminent demise of land mobile radio (LMR) used by Australia's public safety agencies and its replacement by public safety mobile broadband (PSMB) networks, LMR remains the key technology platform for mission-critical voice communications used by agencies and will remain so for the foreseeable future. The workshop will be a valuable forerunner to a presentation to be made by Ms Giggetts about the P25 standard during Comms Connect, followed by a panel session which will discuss the current and future use of the P25 standard in Australia and New Zealand.

**Presenter: Cheryl Giggetts** – Director PTIG & Principal Consultant, CTA Consultants

### ACCF Stream 3 – Morning, 9.00am-12.30pm From narrowband to broadband critical networks – “Connection is the lifeline” - How do we make this journey work?

This workshop will cover topics from narrowband to broadband critical networks, where connection is the lifeline, and how the LMR/broadband industry makes this journey work. This is your opportunity to hear and discuss the most pressing topics and share the challenges and solutions we are all facing where critical connectivity is the lifeline.

**Presenters:** Speakers from Industry, vendors, integrators and users explore the benefits, challenges and trends across both commercial and public safety markets with focus on technology developments and user requirements in digital LMR, Broadband group-based communications technologies and satellite comms.

### ACCF Stream 3 – Afternoon, 1.00pm-5.00pm Learning from International mission-critical LMR/Broadband Deployments and Roll-out of Networks

This workshop will concentrate on global mission-critical LMR/broadband deployments and roll-out of networks of government, public safety/civil defence internationally and Australia and New Zealand. This is your opportunity to hear and discuss the most pressing topics and share the challenges and solutions we are all in facing globally where critical connectivity is the lifeline.

**Presenters: Kevin Graham** – TCCA, **Tero Pesonen** – TCCA/CCBG; **Brian Hobson** – FirstNet Authority; **Lincoln McKay** – Hourua; **Brad Creevey** – NEMA; **Terence Wong** – GSMA; **Gosta Kallner** – 450 MHz Alliance

## Wednesday, 16 October

## Day 1 Conference Program

8.50am	<b>Welcome and opening remarks</b> <b>Geoff Hird</b> – Events Director, Comms Connect, and MC, <b>Chris Stevens</b>
9.00am	<b>KEYNOTE: Public Safety comms – a global best practice view</b> <b>Brian Hobson</b> – Senior Director Roadmap Development Division, FirstNet Authority
9.30am	<b>Driving Innovation across TasGRN, Qld GWN and PSEC</b> <b>Luke Marchant</b> – General Manager, Industry & Customer Advisory, Telstra Enterprise; <b>Tim Rutherford</b> – CTO, TAS Dept of Police, Fire & Emergency Management; <b>Craig Stolte</b> – Superintendent, Operational Communications Unit, Queensland Fire Department
10.00am	<b>The future of an Australian PSMB</b> <b>Kylie De Courteney</b> – Managing Director, NSW Telco Authority and <b>Brad Creevey</b> – Assistant Coordinator General, PSMB Taskforce, NEMA

### 10.30am MORNING BREAK — Exhibition Hall

	Public Safety – Theatre 1	Critical Comms – Theatre 2	Industry – Theatre 3
11.15am	<b>P25 global update</b> <b>Cheryl Giggetts</b> – Board Member, Project 25 Technology Interest Group (USA)	<b>No honour among thieves: Cyber threats targeting critical comms systems</b> <b>Vanessa Leite</b> – Cyber Security Specialist, CyberCure	<b>Digital LMR &amp; location services – battle of the titans</b> <b>David Ross</b> – Senior Software Developer, Omnitronics
11.45am	<b>AI Intelligence &amp; real-world applications – machine learning for advanced public safety communications</b> <b>Ellen Ryan</b> – Deputy Division Chief, NIST PSCR; <b>Stephanie Layman</b> – UAS Prize Challenge Specialist, NIST PSCR; <b>Monika Bochert</b> – Emerging Tech Research Analyst, NIST PSCR	<b>Transitioning from Narrowband Communications to Hybrid PTTtoC and Broadband Technologies</b> <b>David Deacon</b> – CEO, Etherstack	<b>Next-gen command centres &amp; interoperability between networks, states and agencies</b> <b>Martin Rampl</b> – Managing Director, Frequentis Australia
12.15pm	<b>NSWTA: the challenge of managing one of the world's largest P25 networks</b> <b>Khalid Salim</b> – A/Director Engineering, NSW Telco Authority	<b>The impact of 5G on AI/XR/IoT for digital transformation in industries</b> <b>Terence Wong</b> – Head of APAC 5G Industry & IoT, GSMA	<b>Wireless Technologies – making the best technology decision for your use case</b> <b>Justin Wyatt</b> – Principal Engineer, Titan ICT

### 12.45pm LUNCH BREAK — Exhibition Hall — Sponsored by Radlink Communications

1.45pm	<b>How the Finnish ecosystem is addressing the challenges of transition to mobile broadband</b> <b>Tero Pesonen</b> – Coordinator, Critical Communications Finland <b>Elina Avela</b> – CEO, Beaconsim Finland	<b>Strategic framework for integrating FRMCS in existing railway infrastructures</b> <b>Bahador Nayebifar</b> – Principal Rail Engineer, Mott MacDonald	<b>Spectrum for wireless broadband – an update</b> <b>Andrew May</b> – Executive Manager, Spectrum Engineering
2.15pm	<b>Commercial Carrier &amp; Mobile Networks do fail – are you prepared?</b> <b>Moderator: Duncan Swan</b> – Chief Operation Officer, British APCO <b>Panellists: Craig Anderson</b> – Director, Public Safety Communications Program, Queensland Police Service; <b>Geoff Spring</b> – University of Melbourne, Centre for Disaster Management and Public Safety	<b>The new frontier   Underground LTE for mining – a customer success story</b> <b>Rodney Nebe</b> – ICT Infrastructure Manager, Goldfields Australia <b>Mal Jones</b> – Principal Consultant, Vocus	<b>5G Broadcast for emergency warning systems, navigational positioning &amp; OTA connectivity</b> <b>Nils Ahrens</b> – APAC Manager, Broadcast & Media, Rohde & Schwarz
2.45pm		<b>Finding purpose-built UAS innovation for Public Safety through a US Government competition series</b> <b>Ellen Ryan</b> – Deputy Division Chief, NIST PSCR; <b>Stephanie Layman</b> – UAS Prize Challenge Specialist, NIST PSCR; <b>Monika Bochert</b> – NIST PSCR	<b>5G for critical communications</b> <b>Nick Bromhead</b> – CTO and Head of Network Solutions, Ericsson Australia & New Zealand

### 3.15pm AFTERNOON BREAK — Exhibition Hall

3.45pm	<b>Mapping the Public Safety future. GIS for situational awareness @ PSN &amp; GRN</b> <b>Chris Stevens</b> – Managing Director, CartGIS	<b>Failsafe connectivity in remote Australia</b> <b>Mark Tate</b> – IT Operations Manager, SA Power Networks	<b>Innovative use of multiple technologies for resilient systems</b> <b>Jim Nelson</b> – President & CEO, Prism-IPX
4.15pm	<b>PANEL: Global &amp; local challenges and opportunities for critical comms via emerging technologies</b> <b>Moderator: Ken Rehben</b> – Principal Analyst, CritComms Insights <b>Panellists: Dennis Alvord</b> – Deputy Executive Director for External Affairs, First Responder Network Authority; <b>Vaughan Matthews</b> – General Manager, Hourua; <b>Monika Bochert</b> – Emerging Tech Research Analyst, NIST PSCR; <b>Luke Marchant</b> – General Manager, Industry & Customer Advisory, Telstra Enterprise; <b>Terence Wong</b> - Head of APAC 5G Industry & IoT, GSMA; <b>Hamish Duff</b> – President, ARCIA		

### 5.00pm NETWORKING DRINKS — EXHIBITION HALL — sponsored by Hypha

### 6.00pm ARCIA ANNUAL INDUSTRY GALA DINNER — Melbourne Room 1, MCEC

## Thursday, 17 October

## Day 2 Conference Program

8.55am	<b>Welcome and opening remarks</b> <b>Chris Stevens, MC, Comms Connect</b>		
9.00am	<b>KEYNOTE: Satellites and the future of critical comms</b> <b>Natalie Kolodziej</b> – Group Owner - Commercial, Private and Emergency Services Networks, Telstra		
9.30am	<b>Improving the reliability of satellite-based positioning systems in Australasia with SouthPAN</b> <b>Martine Woolf</b> – Branch Head, Space Division, Geoscience Australia		
10.00am	<b>Terrestrial vs Non-Terrestrial Networks – Pros, cons and synergies</b> <b>Moderator: Chris Stevens</b> – Managing Director, CartGIS <b>Panellists: Lincoln Mackay</b> – CTO, Hourua; <b>James Pickens</b> – CTO, NSW Telco Authority; <b>Ellen Ryan</b> – Deputy Division Chief, NIST PSCR; <b>Tero Pesonen</b> – Chairman, TCCA Broadband Group; <b>Brad Creevey</b> – Assistant Coordinator General, PSMB Taskforce, NEMA		
10.45am	<b>MORNING BREAK — Exhibition Hall</b>		
	<b>Public Safety – Theatre 1</b>	<b>Critical Comms – Theatre 2</b>	<b>Industry – Theatre 3</b>
11.15am	<b>Improving radio &amp; accessory design for firefighters</b> <b>Tony Hine</b> – Operational Communications Systems Officer, Fire & Rescue NSW	<b>Satellite direct to device – disruptive technology?</b> <b>Mark Sprey</b> – Senior Comms Engineer, Nova Systems; <b>Phillip Conder</b> – Senior Comms Engineer, Nova Systems	<b>Precision in rail coverage simulation: Utilising 3D high-resolution maps for superior prediction and issue detection</b> <b>Farhad Sedghi</b> – Spectrum & Technology Specialist, ATDI
11.45am	<b>Qld Police radio comms maintenance &amp; enhancement plan</b> <b>Garry Kerr</b> – Director, Frontline Communications & Response, Qld Police Service	<b>Advancing interoperability in public safety communications</b> <b>Paul Elmes</b> – APAC Managing Director, Tait Communications	<b>Tomorrow’s digital ecosystem</b> <b>Grant Smith</b> – Telco Head, Prospecta Utilities; <b>Andrew Coulter</b> – Marketing Director, GemLife
12.15pm	<b>Surf Life Saving NSW – Resilient mission-critical voice backhaul across challenging coastal terrain</b> <b>Andrew Ugarte</b> – Communication Systems Manager, Surf Life Saving NSW	<b>Leveraging public assets for network expansion (rail industry)</b> <b>Matt Schultz</b> – Partner, Gravelroad Group	<b>Designing resilient microwave networks for mission-critical communications</b> <b>Eddie Stephanou</b> – Technical Manager, Cambium Networks
12.45pm	<b>LUNCH BREAK — Exhibition Hall – Sponsored by Radlink Communications</b>		
1.45pm	<b>PANEL: What is TAK and why aren’t we using it?</b> <b>Panellists: Ken Rehbehn</b> – Principal Analyst, CritComms Insights; <b>Jared VandenHeuvel</b> – Chief Innovation Officer, Texas Dept of Public Safety; <b>Charles Laird</b> – Technology Specialist, NCDIT – FirstTech Program; <b>Neil Jamieson</b> – Group CEO, Hypha	<b>mmW wireless for Public Safety – the Fort Myers USA story</b> <b>Luke O’Kelly</b> – Head of Private Networks, Ceragon APEI	<b>Converged devices extending communication coverage, security &amp; safety of today’s public safety personnel</b> <b>Don Griffiths</b> – Principal Product Manager, L3Harris Corporation
2.15pm		<b>The game-changing LEO satellite landscape</b> <b>Ashley Neale</b> – Satellite & Infrastructure Manager, Vocus	<b>TBC</b>
2.45pm	<b>PANEL: P25 for the future – applications, capabilities, technology enhancements and more</b> <b>Moderator: Chris Stevens</b> – Managing Director, CartGIS <b>Panellists: Cheryl Giggetts</b> – Board Member, Project 25 Technology Interest Group (USA); <b>Callum Noon</b> – National Product & Service Delivery Manager, Next Generation Critical Comms NZ; <b>Tony Hine</b> – Operational Communications Systems Officer, Fire & Rescue NSW; <b>Dylan Earle</b> – Business Solutions Manager, Tait Communications; <b>Garry Kerr</b> – Assistant Director, Frontline Communications & Response, Qld Police Service		
3.30pm	<b>CONFERENCE CLOSES</b>		

To view the full program, visit [melbourne.comms-connect.com.au](http://melbourne.comms-connect.com.au). Change of program content: WF Media (Comms Connect) will endeavour to ensure that this conference program is correct at the time of the event. We may need to alter the program prior to the event and reserve the right to do so without notice.