Sydney
28 May 2025
NSW Teachers Federation, Surry Hills

ARCIA Critical Communications Half Day Workshops

8.15am-8.50am	ARRIVAL / TEA & COFFEE
	Workshop 1
9.00 am-12.30 pm	**Private Cellular Networks (4G/5G) - The Fundamentals of the Technology and Systems Designs** Simon Lardner — *Head of Space and Wireless Division, Vocus* This workshop is an introduction to the technical and commercial framework behind private cellular networks. It will provide students with the skills to be able to outline the key elements and components of a typical private cellular network. Students will gain an understanding of the fundamental drivers behind the technology, as well as the key elements behind developing a business case for network deployment. Students will be able to describe the evolution from 4G to 5G, along with the associated migration paths.
12.30 pm-1.30 pm	LUNCH
	Workshop 2
1.30 pm-5.00 pm	**The TAK Imperative: Why Australian Mission Operations will Embrace this Unifying Common Operating Picture** Graham Tait — *Mesh Solutions Lead, Hypha* and Neil Jamieson — *Group CEO, Hypha* *Thanks to workshop sponsor **Hypha Solutions** this workshop is **FREE** to attend in Sydney. Places are limited.* As we explore TAK (Team Awareness Kit) to understand what it is, its opportunity for application and explore various use cases, this workshop will be an opportunity to hear from the experts and experience some hands-on training with TAK. TAK delivers an interoperable unified common operating picture (COP) based on non-proprietary, open-source software developed and continuously updated by the US Department of Defence. 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 and is also available to benefit private-sector users too, including park operations, marathon and festival organisers and other large events and operations.

The conference organisers reserve the right to make changes to the agenda at any time and without notice.

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ARCIA Critical Communications Conference

8.15am-8.50am	REGISTRATION / TEA & COFFEE
	Conference stream
9.00 am-9.30 am	**Digital Platforms for Critical Communications** Craig Parnham — *Executive Director, Digital, Technology and Innovation, NSW Telco Authority*
9.30 am-10.00 am	**3GPP Mission Critical Broadband Services (MCX): Best Practices and Successful Deployment Case Studies** Bidar Homsey — *Principal Consultant and Head of Business Development, Public Safety, Frequentis Australasia Pty Ltd, Chair and Board Director, Australasian Critical Communications Forum (ACCF)*
10.00 am-10.30 am	**SpaceX Direct to Cell – The New Zealand Experience and the Impact & Opportunity for Australian LMR Users** Andrew Thompson — *CEO and Founder, FreshRF*
10.30 am-11.00 am	MORNING BREAK
11.00 am-11.30 am	**Unifying Public Safety Communications within Surf Life Saving NSW: Seamless Integration and Interoperability between agencies using DMR and P25** Chris Stevens — *Managing Director, CartGIS*
11.30 am-12 Noon	**Navigating Australia's Airwaves – Exploring Spectrum Opportunities** Andrew May — *Executive Manager, Spectrum Engineering*
12 Noon-12.30 pm	**A Brief Look Under the Bonnet of TAK – Operations with an Interoperable, Unified Common Operating Picture** Neil Jamieson — *Group CEO, Hypha*
12.30 pm-1.30 pm	LUNCH BREAK
1.30 pm-2.00 pm	**AI, IoT & LoRaWAN: Transforming Ultra-Early Fire Detection for Forestry, Infrastructure, and Climate Resilience** Sohan Domingo — *Vice President Sales Technology and Operations, Dryad Networks*
2.00 pm-2.30 pm	**Collaboration from the Depths of Sydney's Tunnels** Kurt Foster — *Senior Project Officer Operational Communications, Fire and Rescue NSW*
2.30 pm-3.00 pm	**Enhancing Operational Readiness: VaaN in the NSW RFS** Matthew White — *Manager of Operational Platforms, Rural Fire Service*
3.00 pm-3.30 pm	AFTERNOON BREAK
3.30 pm-4.30 pm	**Panel discussion: The Use of Satellite Communications in the Critical Communications Environment – Separating Fact from Fiction** Hosted by: Chris Stevens — *Managing Director, CartGIS* *Panel members: Andrew Thompson, Simon Lardner, Neil Jamieson and Matthew White.*
6.00 pm-10.30 pm	ARCIA NETWORKING DRINKS/ DINNER

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ARCIA Thanks our Partners for their support

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Training by ARCIA

Microwave Engineering Masterclass – Book now

Trainer: Trevor Manning — Director, Trevor Manning Global

12.5 Hours | *ARCIA Member = $1320 +GST ; Non-member = 1650 +GST*

Date: 25 – 29 August 2025 | Bookings open

In this course, you will learn how to plan, design, and operate radio networks. At the end of this course, you will understand the overall microwave market with an update on current and future developments, including how to apply the latest planning standards.

Introduction to Digital Land Mobile Radio (LMR) Standards and Planning

Trainer: Chris Stevens — Managing Director, CartGIS

8 Hours | *ARCIA Member = $1180 +GST; Non-member = 1450 +GST*

Date: 1 - 5 September 2025 | Bookings open soon

This course introduces the student to the digital LMR standards and technology. Modules include an overview of digital radio standards as a transmission media including the different standards, modulation, and vocoders.

Introduction to Radio Communications

Trainer: Chris Stevens — Managing Director, CartGIS

10 Hours | *ARCIA Member = $1320 +GST; Non-member = 1650 +GST*

Date: 10 – 14 November 2025 | Bookings open soon

This course introduces students to radio communication and associated technologies. Modules include an overview of radio service as a transmission media, how transmitters and receivers work, and an overview of wave propagation and radio antenna systems.