

Introducing MAC²

A highly portable, extremely rugged,
Command & Control platform



A development of AUSortium partners:



Brimming with features AND easy to use, the MAC² situational awareness solution lets mobile personnel share information and plan operations, whether on land, at sea, or in the air. Get the BIG picture in a small, rugged, and very cost effective solution, that won't fall to pieces when everything else around you is!

What is MAC²?

Based on Opentec's battlefield-proven range of rugged portable computers, MAC² is an embedded 'Command and Control' system that provides a sophisticated, but very easy to use, situational awareness solution. Based on a moving map display, it combines GPS and tactical data inputs to deliver a complete operating picture for responders and planners alike. What makes it unique is that it delivers features and functionality not before available to front line personnel, in a platform that is both proven in major event responses and currently deployed by defence forces.

By overlaying the map with tactical data relevant to the individual users (eg, the position of other member of the response group, a maritime boundary that boats should not cross, the coordinates of a man overboard, an area along a border where an incursion has been sighted, or the boundary defined by a fire front), and by enabling every user to acquire and distribute situational data to populate that 'operating picture', it allows for far more effective and timely responses.

MAC² is a cooperative partnership development between AUSortium teaming members Australian Technology Information (ATI) and Opentec Solutions, both Australian owned and operated SMEs. It delivers the 'big picture' in a 'little box' by providing unparalleled situational awareness in an embedded and highly portable system that's ruggedised so that it'll survive in a range of terrestrial or maritime environments.

And because it's easy to use and scalable, it's well suited to a range of defence, emergency services and security applications.

In addition to powerful 'HQ' planning software and tactical data sharing capabilities, each MAC² node is compact enough to be easily vehicle mounted, or man-packed. And because it's based on highly ruggedised computer hardware, it can be used on land, at sea or in the air in environments that other hardware would simply never survive in.

MAC² delivers situational awareness information right out to the individual patrol vehicle/boat/person, via an intuitive GUI, while retaining the powerful planning and response management capabilities of much more complex and expensive solutions. The result is that even users with minimal training, or who are only infrequently required to use the system, can use it to great effect.

Features of MAC² include:

- it's an 'infrastructure-less' command+control platform
- it's compact enough to be mounted on most vehicles, or be man-packable
- it offers high level COPS capabilities while remaining very easy to use
- it's compact, modular, scalable and upgradable
- it doesn't require high levels of training to operate
- is Australian developed and supported

Beyond that, it delivers the portable, network-centric system required to effectively manage event responses

in a wide range of MISTAR (Medical, Intelligence, Surveillance, Target Acquisition, and Reconnaissance) applications.

And because it's a COTS/MOTS solution, it can be deployed today, expanded tomorrow, and upgraded next year as new capabilities and features are delivered. In short, it's not an 'interim capability system' or 'future war fighting' platform, but a genuinely feature-rich 'deliverable-now' solution.

Target customers

MAC² systems include:

- all computer and network hardware (COTS/MOTS and custom)
- all network and management software

It's therefore ideal for:

- border patrols (fixed, re-locatable or mobile)
- police, fire, ambulance or emergency response groups
- terrestrial security and surveillance, whether overt or covert
- command and control environments
- tactical response events

More specifically, MAC² delivers the event management needs of:

- State & Commonwealth security and emergency services groups
- Commonwealth and Coalition defence forces, including Army, Airforce and Navy
- CCEB (Combined Communications Electronic Board, ie Canada, Australia, US, NZ & UK) defence forces
- NATO forces

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MAC² HQ (Mobile Asset Command & Control Headquarters)

- Comprised of a command notebook with 15" or 17" daylight readable LCD
- Includes vehicle (truck, car, boat or aircraft) mounted digital VHF radio+modem (delivers inter-nodal distances of 10-16kms)
- Can interface to MS4 system to receive data transmitted over TDLs

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MMU (MAC² Mobile Unit)

- Comprised of small form factor, vehicle mounted or man-packable 8.4" or 12.1" daylight readable tablet
- Includes vehicle (truck, car, boat or aircraft) mounted digital VHF radio+modem (delivers inter-nodal distances of 10-16kms)
- Moving map display delivers:
 - GPS position of other MMUs shown on map, along with MMU heading and speed
 - MHQ position can be 'stealthed' in event of MMU being compromised
 - SMS-style text messaging ('send to all', 'send to nominated address'); messages stored and forwarded by network if any user not online or not within radio range
 - Ability to easily 'lay markers'

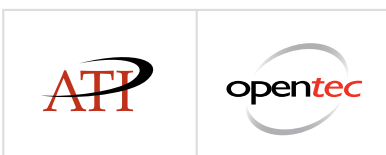
3



Applications

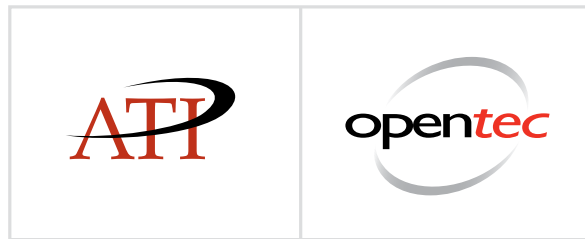
- Fire, Ambulance or Police response units
- Emergency relief/disaster recovery
- Border patrols
- Coastguard
- Any event response where coordination of 2-200 mobile units required (ideal number is 20-30 per group; groups can be split out into 'sub-nets' for easier management by team coordinators)
- Operations covering as much as 5,000-8,000 square kilometres
- Events where there is no/no intact radio infrastructure
- Events where users are not highly skilled, or only occasional system users

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