

In Vehicle Data Communications and Tracking for Emergency Services

In order to meet the requirements made on the Emergency Services, organisations are embracing new technology and relying heavily on third parties to deliver complex solutions on time and to budget. Having worked in the public safety market for over 20 years, APD has extensive experience and a track record second to none in delivering fully integrated solutions with no risk to its customers. Using our innovative problem solving skills, APD provides solutions to meet your individual business requirements.

INCA™ is APD's powerful in-vehicle data communications and tracking unit, allowing Emergency Services to manage and optimise a geographically dispersed workforce from a single location. With over 16,000 units installed worldwide, INCA is a robust and proven product, delivering information on demand.

However, simply tracking your fleet will not give you the full picture. What you need is a tool that will provide you with data at the touch of a button, allowing you to respond proactively to the public.

To meet the ever growing requirements of in-vehicle communications, APD's INCA 2 has been extended, incorporating tried and tested functionality with enhanced capability to make it the complete, low cost mobile communications gateway.



Offering full IP connectivity, INCA 2 provides real-time, two-way data communication between your Control Room and your officers, ensuring information is delivered when and where it is needed. INCA 2 is able to leverage existing infrastructure while ensuring efficient use of bandwidth, helping to reduce operating expenditure. With INCA 2's standard connections (USB, RJ45 Ethernet and RS232 serial), users can readily mobilise applications using off the shelf or bespoke hardware and software.

INCA 2 is designed to be extremely flexible, with huge integration potential at a low risk investment. It is bearer-independent and therefore future proof, supporting a wide range of networks including GPRS, GSM, 3G and TETRA. INCA 2 can support dual bearers provided one is the internal GPRS bearer. The Linux-based software system can be updated at any time over the air or via the USB interface. Analogue and digital inputs enable many systems to be monitored and digital outputs permit remote control. A CANbus interface provides the capability for vehicle diagnostics and emissions monitoring, helping fleet managers reduce fuel costs and carbon footprint. INCA 2 retains all the programmable capabilities of the original INCA while offering increased capability.



With APD's expertise and track record in this market, we are able to offer true integration to meet your mobile data and tracking needs. We have a reputation for delivering robust, future proofed solutions, with the flexibility and breadth to ensure that your mobile requirements are met.

Using your existing IT infrastructure, our experienced team will deliver a solution that ensures that your original IT investment will be built upon and protected.

Technology Investments that are Future Proofed

INCA 2's sophisticated communications router allows you to select which of your IT applications you would like to mobilise – at a timescale suitable for you. And in the search for lower cost communications, greater reliability and security, multi-functional INCA 2 more than meets your requirements, by offering you the ability to deploy multiple applications through one communications hub.

Using historical data, senior officers can ensure 'hot spot' areas are monitored and officers deployed based on information gathered over a period of time.

Proof of driver behaviour can be helpful in cases where officers have been accused of driving malpractice. Data retrieved from INCA 2 has been successfully used in English courts to prove that a driver has not acted negligently.

Asset and Resource Management

Assets have to be managed effectively in order to maximise the investment made in them. INCA 2 supports engine and vehicle diagnostics for optimum fleet management, allowing preventative maintenance schemes to be put in place which lead to a significant reduction in vehicle down time and fuel costs. Furthermore, the use of over-air programming of application and firmware means that your vehicles never need to come back to the depot to be reprogrammed – freeing up space and keeping your vehicles on the road. Once an INCA 2 system has been fitted, all elements of your remote workforce can be effectively managed. Information is gathered automatically and relayed back to the relevant office for analysis and recording without intervention from the driver.

INCA 2 is the foundation of innovative management information solutions that will grow with your organisation.

INCA 2 provides information that assists in:

- Assigning most appropriate resource to an incident leading to greater efficiency and reduced response times
- Monitoring the progress of resources en-route to an incident
- Providing proof of driver behaviour
- Ensuring optimum use of resources, preventing over deployment of vehicles and officers
- Improving safety for officers working alone meeting health and safety requirements
- More efficient dispatch with the advantage of reduced voice communications
- Increased visibility of officers in the community by keeping vehicles on the road using INCA 2's over air configuration
- Ensuring accurate identification of vehicles and higher quality of information using INCA 2's sophisticated functionality

Co-Ordinator

APD Co-Ordinator location management software is an interactive tracking database and mapping system. It can be used stand-alone or integrated with enterprise systems using standard third-party interfaces. Co-Ordinator has a built-in vehicle-status dashboard for complete real-time visual monitoring, as well as playback and search facilities.

Greater Accountability

The need for improved visibility of officers and assets is essential in planning the utilisation of resources in every area of your organisation, ensuring that efficiency is increased whilst reducing overall costs. INCA 2 provides real-time updates, allowing organisations to provide a faster and more responsive service.

The reporting functionality Co-Ordinator ensures your workforce has access to relevant information when and where required, so they make informed decisions based on this knowledge and deliver an improved service to the public. Co-Ordinator provides comprehensive reports containing real and measurable information, showing where your officers have been and providing information such as speed, direction of travel, blue light usage and opening of gun cabinets.

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