

Specialist Vehicle Services



Arqiva offers a complete range of specialist vehicle services ranging from installation of radio equipment right through to the full commissioning of specialist vehicles.

The specialist vehicle services can be provided as part of a managed service, as consultancy or as a one off, encompassing installation and EMC testing as well as the design and auditing of installation processes.



Vehicle Installation Services

From the initial equipment layout design to post installation support, Arqiva engineers are able to provide anything from a one-off installation to a fully managed service for emergency vehicles communications and data systems.

With more than 30 local and 7 regional service centres Arqiva's vehicle installation services can be offered throughout the UK and Ireland. Vehicle installation services can also be provided at a customer's own premises.

Arqiva can design, cost, procure, install, commission, maintain and manage all of the specialist vehicle installations for an emergency service.

All vehicle installations are carried out and under the full guidance of recognised industry standards:

- MPT1362 Code of Practice (All vehicles)
- NAPFM Code of Practice (Police vehicles)
- BS EN 1789: 2000 (Ambulances)



Standard Installation

Arqiva offers a standard installation service for emergency service vehicles ranging from police cars and motorcycles, to fire tenders and ambulances.

Discreet Installation

Arqiva offers a discreet installation service suitable for police forces and other law enforcement agencies who want discreet but effective communications within a vehicle. Radios are typically installed in glove boxes or boots, with hidden antennae.



- National Capability
- Centre of Excellence
- Specialist Commissioning Centre
- EMC Testing
- Fully Managed Services

Vehicle Installation Centre of Excellence

Arqiva's Vehicle Installation Centre of Excellence provides a documented vehicle installation design process as well as guidelines and best practice advice on vehicle installations, particularly when new equipment or technology is involved.

With every model change and development in technology vehicles become more complex along with the commissioning and installation process.

The introduction of European legislation and the need to maintain passenger safety, whilst at the same time meeting operational requirements, has made vehicle commissioning a highly skilled task calling for well trained installation teams.

From the initial equipment layout design to the final installation, Arqiva engineers, supported by the Vehicle Installation Centre of Excellence, are able to provide a first class quality of service.

Vehicle Commissioning Centre

Arqiva offers a unique service to the emergency services through its Vehicle Commissioning Centre in Deeside, North Wales.

It is a complete commissioning facility where standard vehicles are delivered and fully equipped specialist vehicles are produced and returned to the customer.

The commissioning service provided includes all livery, lights and any specialist equipment requested. Arqiva offers full end-to-end management of the vehicle commissioning process including all procurement, stock management, just in time delivery and specialist services.

The vehicle commissioning services can be offered as a small batch service or as part of a long term service contract and the customer can benefit from ongoing local field support once the fully commissioned vehicle is delivered to them.

Arqiva can also set up a commissioning facility specifically for an emergency service and run it as a fully managed vehicle commissioning centre on their behalf.



Covert Installation

Arqiva also offers a covert installation service. Covert installations are typically more extensive than discreet installations and involve sophisticated methods of hiding equipment from both casual inspection and more detailed examination.

Specialist Installation

Arqiva also offers a specialist installation service. Specialised installations are as varied as the vehicles used by emergency services themselves. These range from police boats to complete command and control vehicles.



EMC Workshop

Arqiva's EMC Workshop provides an EMC test facility for the Automotive & Equipment Section of the NPIA as well as field staff who are available to visit police forces throughout the UK to give advice on installations and test equipment.

EMC (ElectroMagnetic Compatibility) is the term used to describe the situation where electronics and electrical equipment work together without any adverse effects on operation. This is very important in the automotive environment where poor EMC might cause a driver to be distracted, or even affect the driver's direct control of the vehicle.

There are many electronic systems in modern vehicles such as engine management, traction control and ABS. There are automotive directives in place which dictate the EMC standards for new vehicles to ensure that these systems will not malfunction in the presence of electromagnetic fields.

There are also provisions within these directives which demand certain standards for aftermarket equipment or ESA's (Electrical Sub Assemblies) fitted to vehicles after registration. This is of great importance to the emergency services where the majority of vehicles are often fitted with several types of ESA's in the form of sirens, mobile computers, communications and lighting equipment.

Arqiva's EMC Workshop is based at Carterton in Oxfordshire, an electronically quiet location suited to the investigation of electrical noise and emissions from vehicles and their associated electronic systems. The EMC testing is carried out in a large workshop, with capacity for several vehicles, as well as a screened chamber.

EMC assessments are designed to determine if there are any EMC issues affecting the operation of a vehicle and its additional equipment.

Occupant safety issues are also considered in view of the amount of equipment which can encroach on the space available for both driver and passenger. A major consideration is the effect of any electronic equipment, particularly microprocessor based systems, on radio communications.

Conformance Specifications produced by the EMC Workshops include:

- Police equipment and new vehicle testing specifications
- Specifications for test procedures to be carried following an installation
- Specification for cable installation in a police vehicle



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