



VEHICLE TRACKER

RFID VEHICLE TRACKING SYSTEM



SOLUTION OVERVIEW

iQ Vehicle Tracker is a fully automated, accurate and robust RFID enabled solution designed to provide real time location data. Vehicles are fitted with an active RFID tag and fixed RFID infrastructure is used to seamlessly capture entry, exit or internal movements.

Easy to deploy as a standalone system, or integrated into existing systems, iQ Vehicle Tracker is completely configurable and scalable to meet a wide range of requirements.

BENEFITS

- Enables real-time traffic monitoring and control
- Congestion management
- Greater transactional speed and accuracy
- Eliminate manual data entry
- Reduced vehicle idle times and carbon emissions
- Improved process efficiency

RFID HARDWARE

RFID tags are mounted on vehicles and fixed RFID infrastructure is placed at strategic locations such as entry/ exit gates, weigh bridges, and refuelling areas. This allows complete automated wireless identification of vehicles without impacting existing vehicle processes.

The RFID hardware is protected by an appropriate compact, IP rated enclosure designed for outdoor use. The enclosure includes an RFID reader as well as power and communication hardware. Detected raw RFID data is processed and can be used to drive multiple of applications. For example a number of components including variable message signs, boom gates, SCADA systems, weigh bridge and fuel bowsers.

RFID TAGS

Active RFID tags are attached to vehicles in a suitable position to facilitate 100% read rates. The tags have a five year battery life and can be fastened via a variety of industrial strength methods including: tape, adhesive, bolts, screws or rivets.

PRODUCT FEATURES

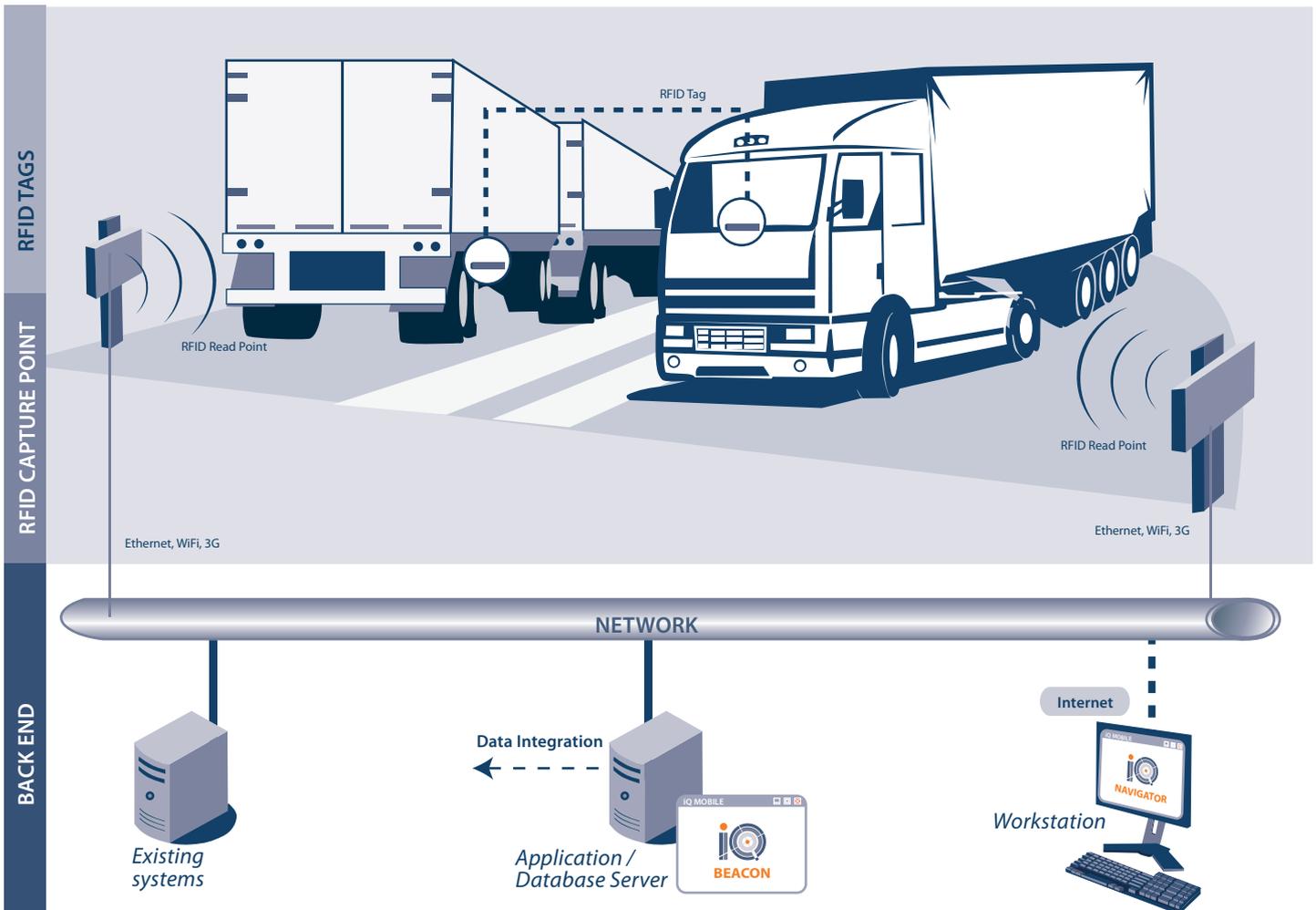
- Robust technology designed specifically for vehicle tracking applications
- Scalable architecture
- Flexible deployment options to suit any traffic scenario
- Long tag battery life with automated battery monitoring
- 3G, solar and active cooling options for deployment in remote harsh environments
- Multiple integration options

iQ Vehicle tracker's most common application areas include:

- Ports
- Mining operations
- Construction yards
- Vehicle Rental yards
- Industrial facilities
- Closed loop logistics



SYSTEM ARCHITECTURE



SOFTWARE

ADDITIONAL MODULES

- Traffic and queue management - Automatically control vehicle flows to maximise efficiency and prevent operational gridlock.
- Driver identification - implement driver-based access rules. Gate automation - seamlessly manage gate operations without manual processing.
- Weighbridge automation - automatically associate load data to a specific vehicle.
- Automated job promotion - optimise work sequencing to allow operators to quickly identify their next job.

INTEGRATION

- SOAP, XML, HTTP Post + more integration options
- Variable message signs
- Boom gates
- CCTV cameras
- Licence plate recognition

iQ BEACON

iQ Beacon is a flexible software application that can be deployed on a centralised or distributed infrastructure. Its primary responsibilities include sending HW control commands, receiving and filtering raw RFID data and output formatting.

iQ TRANSIT

iQ Transit is a completely customisable front end with map visualisations and custom reporting options.

