



radiocom's

**Enhancing port security, safety
and operational efficiency**

Your Communications Partner

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Radiocom's Systems Ltd | Solutions brief

“ UK ports invest an average of **£600 million** every year into their facilities and contribute **£7.5 billion** to the economy. ”



Vital, expanding sector of the UK economy

The UK's port industry is the second largest in Europe. 120 ports, employing a workforce of over 100,000 strong, handle more than 500 million tonnes of freight each year (95% of all goods entering and leaving the UK, and the tonnage is currently increasing by circa 3% annually.) UK ports invest an average of £600 million every year into their facilities and contribute £7.5 billion to the economy.

* Sources: Department of Transport, British Ports Association



How can business-critical integrated smart technologies address the current security, safety and operational challenges facing ports today?

Challenges.

Port security

Maintaining a secure environment and controlling site access can seem like an insurmountable challenge.

Ports are complex environments. They often cover large areas, with extensive perimeters and multiple entry/exit points and operate 24/7 to tight schedules and strict SLAs. They usually have numerous stakeholders, both private and government, high volumes of people on-site and a range of zones (from highly

restricted or hazardous, to those requiring public access, such as cruise ship passenger terminals). Moreover, ports face a wide range of potential threats, including theft, especially cargo and container theft, people trafficking and stowaways, drug smuggling, piracy, terrorism, cyber attacks and natural disasters.



Example use cases

Radiocom's has installed **Motorola Solutions MOTOTRBO™ systems** at several UK ports. The networks are delivering reliable, unified communications across the sites, driving increased operational efficiency, security and safety. We deploy bespoke, integrated solutions specific to customer needs. For example, at one port, we have configured an alarm system for a site-wide 'freeze'

situation in case of an emergency; at another, we have linked communications with the local police force, for an optimal, coordinated incident response. Moving forward, these ports are also looking to deploy more integrated technologies from the **Motorola Solutions Safety Reimagined ecosystem**, to further boost connectivity and intelligent working.



Port efficiency

Strong operational performance and throughput are critical in this competitive market.

With the current trend of mega ships generating demand surges, ports need to cope with increased capacity, driving the need for larger infrastructure and machinery and faster turnarounds. Meanwhile, ports that are unable to accommodate mega ships must focus on increasing the throughput of smaller

vessels, speeding up the safe loading and unloading of vessels and closely controlling the flow of cargo into and out of the port. Ports cannot afford to suffer bottlenecks or extended cargo dwell time; instead, they need to keep driving increased operational efficiency, to save time and cost.



Solutions: creating secure, safe, smart ports of the future.

Smart integrated technologies can help ports to minimise these threats, support teams when dealing with these challenges, keep port workers safe and drive operational performance.

Detect & analyse situations

Irrespective of how vigilant a port has been in proactively identifying potential issues and vulnerabilities and taking suitable action, such as installing and maintaining deterrent and safety systems like perimeter fences, stringent access control and establishing strict safety protocols, problems can still occur. Ports need to be able to detect and analyse any issues as soon as possible, so they can respond effectively and swiftly. This can be achieved by solutions such as Motorola Solutions Body-Worn

Cameras and a Video Security system. The huge range of cameras (from Pan-tilt-Zoom, to 360, to infrared and sensors) not only provide best-in-class image detail and quality but are also built with the intelligence to help operators make sense of what they are seeing, so they can detect and analyse situations quickly and take decisive action.

*** Typical Avigilon Video Analytics deployed in ports: Access Control, Licence Plate Recognition, Unusual Activity Detection, Unusual Motion Detection and Appearance Search ***





Communicate & respond effectively

Reliable, instantaneous voice and data communications enable rapid, effective incident response to minimise risk and contain the impact of an event.

We select the most suitable network for your site and install and configure it to meet your full requirements with regards to coverage, redundancy, software, talk groups and system security. (MOTOTRBO networks are highly encrypted – however, Motorola also offers Cyber Security Services and Network Security Services.) Moreover, the Avigilon Control Center (ACC) can be

integrated with the MOTOTRBO radios via Radio Alert, so users can receive, acknowledge and respond to alarms resulting from the video analytics directly from their radios. The high level of integration offered by the uniform Motorola Solutions Safety Reimagined platform helps to streamline efficient workflows.



Personnel safety

Monitor in real time for accuracy with GPS and GLONASS capabilities, giving you complete visibility of your employees and vehicles as they arrive and depart from each location. Link with a lone worker or man down function to support health and safety protocols and aid responses to employee alerts.



VideoManager GPS Location Tracking

Keep your workers safe using the Tactical VideoManager interactive map – or leverage VideoManager's powerful API to interface with your own software.



Alarm handling

Connect your devices to alarm handling software where you can monitor and control emergency and non-emergency situations anytime, anywhere, 24/7 in real time.



Voice recording

Turn your information into insight and analyse your recordings for enhanced audit trails, minimising legal liabilities and improving training material.

Maximise worker safety

Beyond the benefits of the integrated Safety Reimagined ecosystem and the subsequent intelligent, reduced response times to incidents, Motorola Solutions has a wide range of robust two-way radios, LTE and WAVE PTX devices to offer fully flexible working across radio networks, broadband and mobile networks.

These radios and LTE devices are designed to offer excellent audio, reliability and battery life and they also include a vast range of special features designed to safeguard your workforce, such as:

- A dedicated emergency button (emergency calls take priority over any other calls and will automatically be routed to the appropriate personnel)
- Lone Worker and Man Down (both of which automatically generate an emergency call if user activity is unexpectedly reduced or the radio tilted at an unusual angle, for example)
- Integrated GPS and Bluetooth® (allowing the location of a radio to be monitored inside or outside by a mapping application in the central control room, so response teams can be quickly dispatched to the right location)
- Body-worn sensors (which can communicate with radios to raise the alarm in the event of circumstances that involve extreme temperatures, dangerous gases or abnormal biometrics)
- Software Applications (allowing LTE devices to support workforce management, and connect through video to see real-time view of events as they happen)
- Accessories such as remote speaker microphones, earpieces, headsets (standard and heavy-duty for high noise environments) enable hands-free communication
- Intrinsically safe ATEX/IEC Ex-certified devices and accessories are available for use in environments where potentially explosive gases or particles are present



Increase productivity

Enhanced safety and security already play a key role in improved operational efficiency and organisational resilience; however, a well-coordinated workforce and the ability to communicate across diverse groups with rapid, dependable information transfer between people and devices is crucial to maximise uptime and throughput for a competitive business advantage.

Cost and time savings are also realised through decreased downtime, reduced incident investigation (thanks to the possibility of automated event logging, for example), improved safety risk

management processes and advanced central management software, such as Motorola Solutions Radio Management and the business automation engine, Orchestrate.

“ **Robust port security complements border security, making our ports and coastline less attractive to those who wish to exploit the UK.**

National Strategy for Maritime Security ”

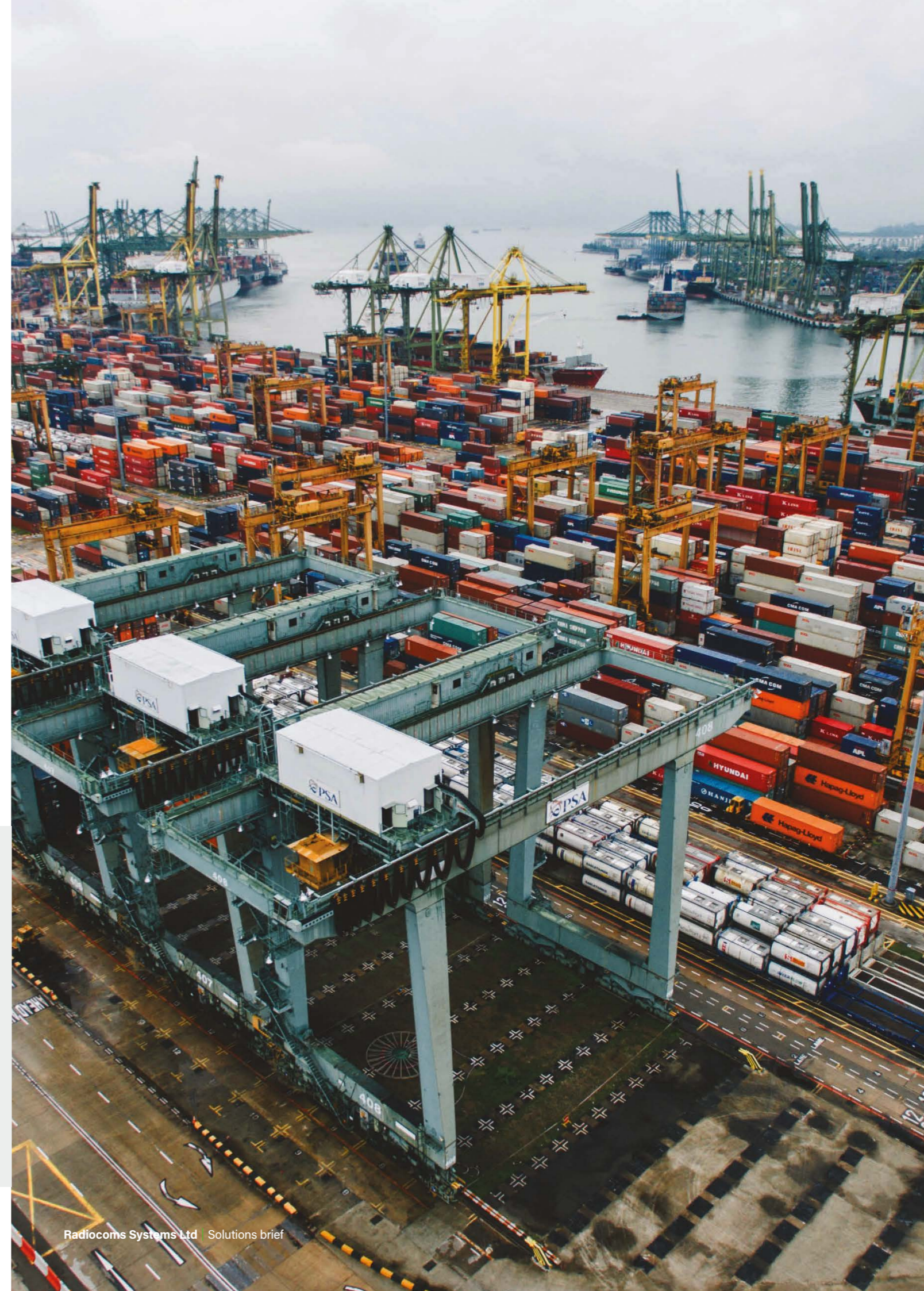


In conclusion.

Safety, security, efficiency and productivity are deeply interconnected, as are our solutions.

We offer a bespoke, complete service to suit your requirements: from initial consultation and specific design, installation and training, to ongoing maintenance, support and system development.

For more information about how we can help you to maximise your port safety, security, efficiency and productivity, please [contact us](#).





Let's work together.

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