

# Wireless technologies for intermodal operations: the future is converging

LXE Inc., Norcross, GA, USA

## White paper summary

Today's port environment has changed significantly in the last three decades since LXE started servicing ports in 1980. It is no longer a matter of merely moving containers off ships and onto another mode of transportation. Today's supply networks are highly complex. Retailers and consignees of freight are looking at them as complete networks where the intervening lengths may be changed to serve their particular cost and delivery needs.

The main challenges facing ports worldwide are more cargo, ships, agility, security and visibility, and less space, time, energy, environmental impact and complexity. All these factors are leading to an increasing need for information beyond the identification and movement of containers.

Many current management systems have been developed as independent solutions from top to bottom. Over time, additional systems have been deployed to provide OCR, RTLS, RFID, voice and video. However, each of these applications typically has its own infrastructure and protocols, and its own devices. The end result is a disparate rather than an integrated set of solutions. This makes it difficult for the broader community of partners, consignees and the port ecosystem to be serviced.

The overall solution involves convergence and intelligence. This involves the ability to provide an appropriate link and integrate silos more efficiently. Applications need to be integrated or at the very least well connected so that they can talk to one another.

This involves a way of sharing data between applications across a common interface to a user community on the back end that is useful and informative, and which provides access to the right information through the right interface at the right time.

All the information needs to funnel over the intelligent infrastructure to a set of applications that are highly integrated, that provide the right set of services for all partners, consignees and others in the port ecosystem.

The right application partners are essential, along with the related applications, to provide the breadth of services, the integration of information and the interfaces to service the port ecosystem community.

## ABOUT THE COMPANY

LXE Inc. develops and manufactures rugged computers with integrated wireless and automatic-identification technology for mobile workers in tough environments. Our easy-to-use and reliable products are currently used in 300 Ports around the world to drive down costs and improve quality of service to tenants. LXE's vehicle-mounted, hand-held and wearable computer products are delivered through a worldwide network offices, distributors, value-added resellers and system integrators. LXE is a division of EMS Technologies, Inc. (NASDAQ: ELMG), a leading supplier of wireless connectivity solutions. For more information, visit [www.lxe.com](http://www.lxe.com)

## ENQUIRIES

Download the complete White Paper from the LXE website: [www.lxe.com/wcn](http://www.lxe.com/wcn)

## Education



# The Future is converging

A new white paper by LXE

Traditional wireless technologies (Mobile Computing, Voice, GPS and RFID), and the yard management system they support, are proven productivity boosters. But the relationship between the operator, the management system and these technologies is changing.

Full automation is highlighted in the newest designs for Greenfield ports. How can existing operations achieve similar gains? The best results are achieved through the convergence of automation AND true productivity from empowering workers with more flexible combinations of wireless technologies designed around human behaviors, not the other way around.

The 64 pages white paper outlines how to get to the next level of efficiency in the port, with a number of use cases depicting a set of challenges common to port operations, the solution approach and the resulting benefits.

Request your free copy of the White Paper 'The Future is Converging' online: [www.lxe.com/wcn](http://www.lxe.com/wcn) or fill in the coupon and fax it to +32 15 20 71 54.



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