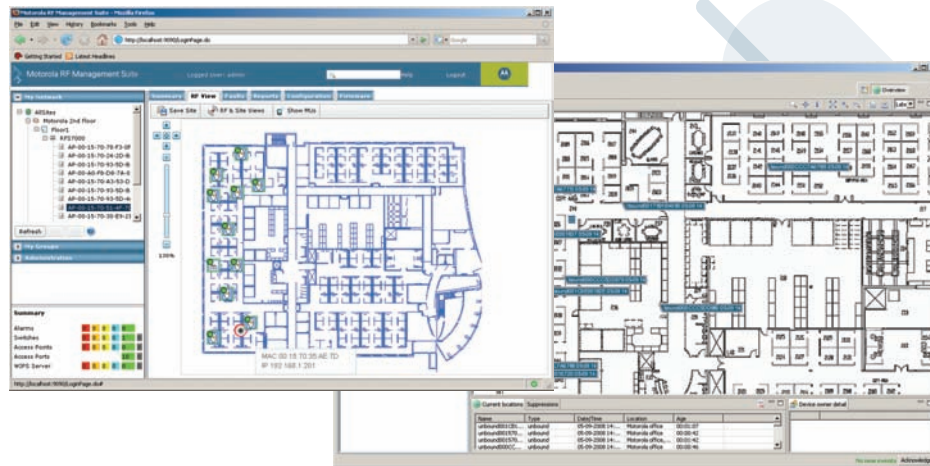




Motorola Real Time Location System (RTLS) Engine

Open platform for robust locating applications



FEATURES

EPC Global ALE and LLRP interfaces

Enables processing and filtering of data from all Wi-Fi and RFID tags; enables rapid and cost-effective development and deployment of location systems and business applications

Embedded into Motorola's Wireless Switch portfolio

Designed to meet the needs of any size enterprise; eliminates the need and cost associated with purchasing, deploying and managing multiple locating point solutions; enables centralized management via Motorola's RF Management Suite

Software-only engine

No additional hardware required, simplifying and reducing the cost of the locating solution

World-class partners

Ecosystem of partners for business and location based applications, including Geodan, VI Agents and Trak Systems; The RTLS Engine and Motorola's wireless switches also support partner solutions from Ekahau, AeroScout, and Newbury Networks.

Technology-agnostic standards-based location engine provides a true cost-effective platform for locating solutions

Every day, you count on Motorola's wireless switches to deliver the high performance mobile voice and data needed to keep workers on top of business as they move throughout the enterprise campus. Now you can leverage that same wireless switch to support a multitude of locating applications to automate asset tracking as well as improve operational efficiency, worker productivity and safety with Motorola's RTLS Engine. Embedded into Motorola's family of wireless switches, this highly accurate software-only engine utilizes signal strength and sophisticated algorithms to pinpoint the location of WLAN devices and tags to within three to ten meters. The most comprehensive and flexible location system available today, the open standards-based engine provides support for multiple RF and tag technologies, including Wi-Fi as well as RFID, allowing you to locate virtually any asset — from business equipment to inventory and people. And the ability to leverage your existing wireless LAN and RFID infrastructures brings a new level of cost-efficiency to location systems.

Bringing a new level of simplicity to location systems

A license key is all that's required to activate the engine, bringing a new level of simplicity to location systems. Once activated, the Motorola RTLS engine can then immediately collect, filter and disperse all available location information — Wi-Fi and RFID — to the appropriate applications. There is no need to purchase and manage multiple separate

location systems, and your existing wireless LAN can be utilized for Wi-Fi based locating and RFID, substantially reducing the capital and operational costs as well as the complexities typically associated with deploying location-based systems.

Select the location detail that best meets your business needs...and your budget

Support for multiple RF and tag technologies enables the creation of strategic deployment plans tailored to meet your business needs and budget requirements — choose the level of locating accuracy you need today, yet easily increase accuracy in the future. Right out of the box, once the engine is activated, the wireless switch can automatically detect the presence of your Wi-Fi enabled devices, allowing you to instantly track mobile computers, laptops, cash registers, mobile phones and more. By placing Wi-Fi tags on other assets, you can collect presence information on other valuable non Wi-Fi enabled equipment, such as an IV infusion pump. If you need more detail than simple presence information can provide, the same solution can utilize the existing wireless LAN to provide real-time locating capability — you simply need to ensure Wi-Fi enabled devices and tags are visible to a minimum of three access ports at any one time to provide the data for location determination algorithms. The standard LLRP interface provides support for any LLRP-capable RFID reader — including Motorola's fixed, mobile and handheld RFID readers. Even RFID tags read by mobile RFID readers are easily located, since integrated support for Wi-Fi and RFID enables the RTLS Engine to calculate the pinpoint location of mobile RFID readers.

SPECIFICATION SHEET

MOTOROLA RTLS ENGINE

Open platform for robust locationing applications

And enterprises can easily leverage advanced locationing functionality and accuracy, since the open standards-based engine is compatible with tags and software from many RTLS providers.

Support a world of locationing applications

The standards-based EPC Global ALE interface provides open application support. Enterprises are free to choose the locationing application that will best address business objectives, and the interface provides standardized location data for whatever RF and tag technology that are utilized. With this solution, organizations of every size across industries can benefit from best-in-class location systems that automatically collect error-free data, eliminating the need and cost associated with manually tracking assets, inventory and people. For example, in a hospital, IV pumps, heart monitors and more can be tracked easily and cost-effectively, ensuring the availability of life-saving equipment, protecting against equipment theft and loss, improving the utilization and the return on investment for major assets as well as reducing inventory requirements. Wi-Fi or RFID-enabled badges can track employee whereabouts, improving worker safety in the hazardous environments typical in oil and gas, petrochemical and mining as well as improving security in highly sensitive government, military and manufacturing locations. And the ability to monitor raw and finished goods inventory as well as work-in-process enables manufacturers to improve supply chain efficiency — and velocity.

The benefits of compound locationing

The ability to consolidate RFID and Wi-Fi based data provides truly seamless locationing that can dramatically reduce the costs of location systems. The need to blanket a facility with RFID and Wi-Fi locationing infrastructure is eliminated — instead, these two locationing infrastructures can be complementary. For example, an RFID reader at the door of a warehouse can interrogate the RFID tag on a Wi-Fi enabled asset and record that the asset was removed from the building — and when the asset is carried into an adjunct campus building that is not RFID-enabled, the Wi-Fi network will capture and record the entry of the asset into the building. As a result, blind spots in a location system can be easily eliminated without requiring a major infrastructure expense. And where locationing is mission critical, such as healthcare and some manufacturing operations, a complete RFID and

Wi-Fi locationing infrastructure can be deployed side-by-side to provide critical redundancy.

Minimize your costs...and maximize your return on investment

Robust integration with Motorola's wireless switch family delivers a number of unique benefits. The Motorola wireless switch can be easily upgraded to support new RF, RTLS and RFID technologies, including tag types and reader protocols — no forklift upgrade required. The standards-based EPC Global ALE interface eliminates the need to re-work applications to accommodate new advances in locationing technology, protecting your application development dollars. Instead of a proprietary solution that you cannot control, you enjoy an extensible platform that allows the continual evolution of your locationing applications, enabling the enterprise to embrace and reap the benefits of future locationing technology improvements.

Enterprise manageability, security and end-to-end support

By embedding the Motorola RTLS Engine into Motorola's robust wireless switches, enterprises enjoy locationing solutions that offer best-in-class performance, security and manageability. Designed for mobility, Motorola's Wireless Switch family is loaded with Motorola-unique features that deliver a robust wireless LAN connection you can count on. Comprehensive layered security provides an exceptional level of data and network protection equivalent or greater than that of the wired network. And Motorola's RF Management Suite provides a fully featured centralized management solution that enables superior end-to-end control of the wireless LAN — from planning and deployment through day-to-day monitoring, troubleshooting and issue resolution.

For more information on how you can maximize locationing technology in your enterprise with the Motorola RTLS Engine, please visit us on the web at www.motorola.com/enterprisewlan or access our global contact directory at www.motorola.com/enterprisemobility/contactus

RTLS Specifications

Minimum System Requirements

RFS7000 v1.2; RFS6000 V3.2 ;RFMS v3.0



MOTOROLA

motorola.com

Part number SS-RTLS. Printed in USA 09/08. MOTOROLA and the Stylized M Logo are registered in the US Patent & Trademark Office. All other product or service names are the property of their respective owners. ©Motorola, Inc. 2008. All rights reserved. For system, product or services availability and specific information within your country, please contact your local Motorola office or Business Partner. Specifications are subject to change without notice.