

# Navis™ Edge Manager RTLS



Leveraging the power of RFID, WiFi and GPS technologies, Navis™ Edge Manager Real-Time Locating System (RTLS) fuses real-time tracking of assets with Navis' industry leading applications for increased equipment and asset visibility and control.

Navis Edge Manager RTLS provides:

- Real-time positional data on equipment (ITV's, hostler trucks, RTGs/RMGs, forklifts) and assets (containers, rental equipment, etc.)
- Monitoring of static versus in-motion equipment and assets
- Display of data in tabular and GIS forms
- Integration with Navis™ SPARCS, Navis™ Live View , and Navis™ Yard applications

Navis Edge Manager RTLS is revolutionary in its approach. Using a Radio Frequency Identification (RFID) tag integrated with a Differential Global Positioning System (DGPS) chip, the Navis tag is "location self-aware". A DGPS base station signals and satellites the tag, determining its exact geospatial position, generally within 1 meter. The tag communicates this highly accurate positional data over a standard 802.11 WiFi wireless network to Navis™ Edge Manager, the industry leading data collection and process automation middleware. This data is collected and filtered by Navis Edge Manager, then transmitted through the WiFi network into a Navis execution application or third party systems.

Navis Edge Manager RTLS is one of many process automation applications available in the Zebra Enterprise Solutions family of asset visibility and control solutions.

## ● NAVIS EDGE MANAGER RTLS BENEFITS:

- Lower cost, less infrastructure, no expensive laser or RFID reader infrastructure is necessary existing WiFi access points are used
- No expensive software based "triangulation engines" are required; the tag "knows" and reports it's own position
- Accurate location monitoring within 1 meter
- Minimal device "footprint"

## Navis Edge Manager RTLS Features

Hardware	
RFID Tag	Integrated DGPS chipset
	125 KHz transceiver for positional updates
	802.11 g/b radio
	Motion sensor/triaxis accelerometer
	Integrated internal antennae or externally mounted
	Battery or plug ready power adaptor
	Industrial housing with NEMA enclosure
	GPRS radio for out of network data communication (optional)
	Utilizes standard 802.11 WiFi access points for data transmission
	Programmable beacon frequency; normal and in-motion
Programmable using mobile device with Navis supplied program	
Software	
Navis Edge Manager RTLS	Integrates to WiFi for network connectivity
	Program for tag data collection and filtering
	Logic for geospatial to spatial position conversion
	Supports interface for static asset to tag association or download from Navis applications
	Supports task download for real-time monitoring and verification of planned versus actual movements
	Integration to Navis applications (Navis™ SPARCS, Navis™ Yard, Navis™ SPARCS Live View)
	Integration to 3rd party host applications via web services
	Intelligent interpretation of collected data resolving “host-known” locations from the geospatial data
	Specialized features for reporting and event generation

## Why Navis?

Navis, a Zebra Technologies Company, standard in asset visibility, control and optimization with a suite of solutions that offer real-time control to distribution, manufacturing and service operations. With more than 20 years experience in supply chain systems, Navis offers unparalleled capabilities that optimize your asset related operations. We provide best of breed systems for dock and yard management, cargo and container tracking, mobile asset management, and marine terminal automation.

The world's leading retailers, manufacturers and logistics companies use Navis solutions to manage their global supply chains at more than 450 installation sites worldwide.

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For more information please contact us at 1-510-267-5000 or visit us at [www.navis.com](http://www.navis.com).

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