

ILR[®] Software IntelliFIND



ILR Mobile Location System IntelliFIND

ILR Mobile Location system IntelliFIND is an agile and flexible RFID and GPS mobile location system designed to locate and track assets within a physical outdoor or indoor environment. Organizations have struggled with identifying the most accurate, scalable and cost effective solution in obtaining visibility of their assets, especially in facilities with a high volume of assets scattered across large areas, such as manufacturing facilities, distribution centers or construction lay down yards. One of the challenges in these environments is a lack of infrastructure, which hinders installation of traditional systems. A key benefit of IDENDEC SOLUTIONS' IntelliFIND is that it can be quickly and easily deployed with no infrastructure present and provide immediate and reliable results. IntelliFIND leverages IDENDEC SOLUTIONS' well established robust award winning ILR technology as well as the patented tag location method.

Tag Positioning

IntelliFIND software records the position of a mobile reader based on the data from the attached GPS receiver and the relative signal strength indicator (RSSI) every time it detects a tag. Using a unique patented algorithm, proprietary to IDENDEC SOLUTIONS, the reader uses its GPS position and RSSI data to determine the actual location of the tag in real time. In an indoor environment the system uses pre

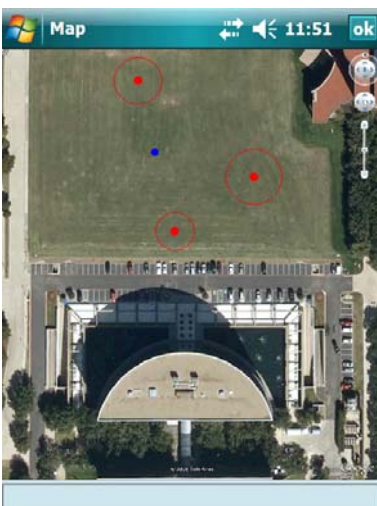
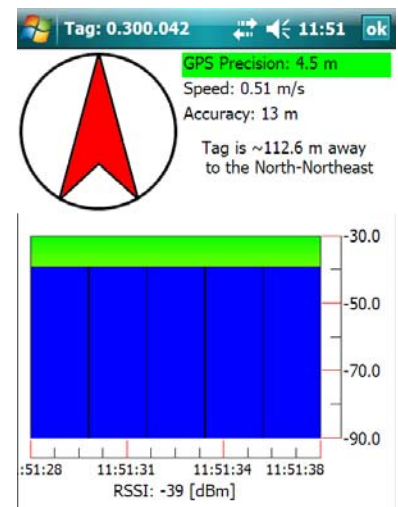
positioned location tags instead of GPS. The software also allows showing the tag and reader positions as they change on the map, which is displayed on the mobile reader screen including the route the reader took. A reader attached to a material handling vehicle carrying the tagged load provides the most accurate real time positioning solution available.

Tag Find

Unlike in the traditional fixed infrastructure RTLS systems, once the tag locations are either imported or calculated, the user can also utilize the intuitive tag-finding features of the application, which include a GPS arrow that points the user in the direction of the tag, approximate distance to the tag and a "Geiger counter," which beeps more frequently as the tag is approached. This feature is especially valuable for locating assets in extreme weather conditions, for instance, under several feet of snow.

IntelliFIND supports any NMEA GPS device via serial port, USB, or Bluetooth with auto-discovery. It displays real-time GPS information such as:

- Current latitude and longitude
- Current speed and bearing
- Current horizontal positional accuracy
- Signal strength bars and fixed indicator for satellites in view



The IntelliFIND solution provides immediate savings in time and labor and results in more efficient operations in the following industries and applications:

- Construction (tracking of materials in lay down yards, security, quality control, etc.)
- Container tracking
- Vehicle tracking (Fleet management, parking, security, etc.)
- Manufacturing
- And many more!

Designed from the ground up as a multi-threaded application, the IntelliFIND application offers a responsive and intuitive user interface. Smart tag filtering while reporting tags assures accurate calculation of location for asset tracking. IntelliFIND reports the latitude and longitude of a tag within 30 feet (or less) of accuracy and the time the tag was found at this location.

IDENDEC SOLUTIONS

IDENDEC SOLUTIONS is a leading global supplier of innovative RFID systems (Radio Frequency Identification) with communication ranges of up to 500 metres.

With its unique Intelligent Long Range® (ILR®) technology, IDENDEC SOLUTIONS offers innovative and economical solutions for automated data gathering, identification, tracking, and localization of objects.

The OIS product range offers automatic identification systems of different technologies, suitable for operation in the rough environment as in industry and logistics while providing high reliability. OIS transponders are equipped with up to 32 kBytes of memory and can withstand up to 235 °C.

To learn more about how ILR and OIS technology can increase the efficiency of your business, contact IDENDEC SOLUTIONS or visit our website at www.identecsolutions.com.

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Technical Specifications

Software Interoperability

IDENDEC SOLUTIONS' IntelliFIND system supports a plug-in architecture for reporting raw captures of calculated tag positions to a variety of sources including:

Comma separated value files	Calculated tag positions are stored to a simple CSV file (one tag per line)
3rd party mapping applications	Calculated tag positions are saved to a file (for instance .kml) and can be imported into various 3rd party applications.
XML Web Service	Calculated tag positions are sent to a Web Service, which provides cross-platform data exchange through standard HTTP port for easy transfer of data across the internet. After the positions are sent to the web service, they can be stored in a database and accessed through a web application like VISISUITE.
Raw XML dataset (file)	All tag reads & GPS info is stored to a file.

IDENDEC SOLUTIONS works with users to easily create new plug-ins to store or publish results in any format required as well as provides an IntelliFIND Web Service Description Language (WSDL) document for users to write their own Web Service.

ILR® Hardware Compatibility

i-CARD 3 and i-Q series tags
i-CARD CF B and i-B2 series tags
i-CARD CF Q and i-Q series tags

System Requirements

IntelliFIND

Handheld device: Windows CE.NET 4.2 or higher, Windows Mobile 5 or higher
Microsoft .NET Compact Framework 2.0 SP2 or higher
Compatible slot for i-CARD 3 or i-CARD CF B or i-CARD CF Q
GPS configured to use NMEA 0183 ASCII protocol
WLAN capable (optional)
Bluetooth capable (optional)

IntelliFIND Configuration Utility

Windows based PC or Server: Microsoft Windows 2000, 2003, XP or higher
Microsoft ActiveSync 4.5 or higher
Microsoft .NET Framework 2.0 or higher
< 10 MB of disk space

Sample IntelliFIND Web Service

Windows based PC or Server: Microsoft Windows 2000, 2003, XP or higher
Microsoft Internet Information Services 5.0 or higher
Microsoft .NET Framework 2.0 or higher
Microsoft DebugView
< 10 MB of disk space

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