



Zebra Enterprise Solutions

CONCEPT2  
SOLUTION

# Personnel Safety System



DATASHEET

Zebra Enterprise Solutions provides a Personnel Safety System (PSS) designed to automate safety processes in the Process Manufacturing Industry, such as Oil and Gas, Steel and Chemical. The solution is based on the precise location accuracy of ultra-wide band (UWB) technology; an ATEX-certified proven technology that can be deployed in harsh, dense metals environments, and in the presence of explosive gases. PSS gives you real-time visibility into the location and identification of thousands of workers, visitors and assets both indoors and outdoors, allowing you to radically improve safety practices and incident prevention.

At industrial sites you need to account for your personnel at all times, especially during emergencies where it is even more critical. The lack of proper accounting for your personnel can lead to regulatory fines but also to ineffective or unnecessary rescue attempts. Most facilities rely on time consuming, error prone, manual processes and counts where reconciliation of mustering and gate counts can take a long time. With our overview tool you can account for all your workers in real-time on the facility map, at the muster points or in any other zones that you want to define. In case of an emergency, our evacuation monitor provides a comprehensive overview of the status of the evacuation and shows how many people still need to be evacuated and how many are at their muster points. In addition, you can run comprehensive reports on this evacuation to improve your future procedures and monitor how your safety practices improve over time.

While the PSS system provides a measurable safety improvement, the same sensor infrastructure can be used for a variety of other purposes, such as asset tracking and management. The same location devices used for workers can be applied to assets which are in short supply, rented, or very expensive; providing you with a real-time overview of all your assets in the entire facility. Depending on their credentials, users may be authorized to access safety or asset management capabilities.

## ● ● PSS INDUSTRIAL SAFETY FEATURES:

### Evacuation

- Real-time counts of muster points & emergency areas
- Comprehensive evacuation status overview
- Evacuation reports for evaluation
- Playback of the evacuation on a map

### Work zones

- Select or create work zones based on intelligent cones
- Create authorizations
- Automatic notification of unauthorized entry
- Automatic clean up of work zone when work is finished

### Visitors

- Register visitors at the gate
- Assign escorts
- Locate all visitors
- Manage access control
- Automatic notification of unescorted visitors and/or restricted area entry

## MINIMUM SYSTEM REQUIREMENTS:

### Database server

- OS: Windows server 2003, Linux
- DB: Oracle 10g
- CPU: at least two cores
- Memory: 2GB RAM
- HD: 80GB

### Rich client

- OS: Windows XP or Vista
- CPU: 2GHz
- Memory: 2GB RAM

### Application server

- OS: Windows server 2003, Linux
- CPU: at least two cores
- Memory: 2GB RAM
- HD: 36GB

## See What PSS Can Do For You!

### FLEXIBLE RICH CLIENT & USER INTERFACE

- Customizable user interface
- Supports multiple languages
- Easy installation using JAVA Webstart
- Visualization on different GIS map formats
- Display people & assets in real-time
- Simultaneous visualization of multiple floors, areas, buildings

### NOTIFICATIONS & ALERTS

- Instant notification of events
- Escalate notifications based on the severity of the event
- Dispatch via SMS, MMS, email, web-service or any other available channel
- Remotely control asset tags based on events
- Activate/control external applications
- Advanced event handling & suppression
- Store handling history & notification responses

### USER MANAGEMENT & PRIVACY

- Specify which information & functionality is available to which user/role
- Define privacy areas & rules
- Automatically clear data after a certain time
- Implement the system in anonymous mode

### LOCATE

- Find your assets by name, group or zone
- Locate your assets & people using predefined search filters
- View your assets & people in different map styles
- Monitor your assets' status, details & locations in real-time
- View real-time counts for all your zones
- Account for all your personnel in real-time

### PLAYBACK & HISTORY

- Locate past events, playback events & location history
- View static or dynamic historical paths & trails of assets and people

### ZONES

- Draw complex & different shaped zones on a map, in 2D or 3D
- Use overlapping or nested zones
- Organize your zones in types or groups for intelligent zone management
- Create dynamic zones based on persons or zones

### DETECT EVENTS

- Choose from an extensive set of configurable rule types
- Create rules with a simple wizard
- Create rules based on (tag) sensor data and/or asset attributes
- Write & edit rules of any complexity with the rule editor
- Implement your safety rules such as escort required, safety training & zone restrictions

### MANAGE ASSETS

- Centralized tag management
- Classify your assets based on attributes
- Synchronize with an external system
- Import asset data from external databases

### REPORTS

- Create reports for selected assets, persons, zones, events & times
- Select from a set of pre-defined reports for fast reporting
- Create custom reports and templates
- Export reports in PDF or Excel formats
- Monitor your safety performance to see all violations

#### About Zebra Enterprise Solutions

Zebra Enterprise Solutions, a division of Zebra Technologies Corporation, extends Zebra's reach beyond passive RFID by employing state-of-the-art software and hardware solutions to locate, track, manage, and optimize high-value assets, equipment and people across the world's largest supply chains. Whether tracking containers through a port, optimizing parts for manufacturing, or managing ground support equipment at an airport, the real-time asset management solutions from the combination of Navis, WhereNet, Proveo, and Multispectral Solutions provide improved visibility and velocity to gain measurable business improvements. Utilizing products that are based on ISO/IEC 24730-2, Cisco CCX Wi-Fi, precision GPS, and UWB technologies, Zebra Enterprise Solutions offers a wide range of location solutions that are "application matched," enabling its customers to put the right asset in the right place at the right time.

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For more information, please visit us at [www.concept2solution.com](http://www.concept2solution.com) or email us at [sales@concept2solution.com](mailto:sales@concept2solution.com).

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