



**GUARD1**/tracking

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**Time**Keeping  
Systems Incorporated

**Inmate and Resident Tracking**



## GUARD1 TRACKING

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GUARD1 TRACKING is an in-facility, zone-based tracking system. It is designed primarily for real-time tracking of correctional inmates and residents of juvenile facilities and psychiatric hospitals. GUARD1 TRACKING offers additional location-based features, such as location and duress notification for staff or visitors.

### Features

- Real time movement tracking of inmates or residents
- Know where your inmates or patients are at all times
- Historical reporting and analysis
- Out-of-bounds and keep-separate alerts
- Head counts in real time
- Track equipment and assets
- JMS integration

Recording inmate movement manually is time-consuming and prone to inaccuracy. It's a task that is most burdensome when your staff is busiest. GUARD1 TRACKING records this information automatically and accurately, and frees up your staff for other duties.

## Zone-Based Tracking

Zones are any area in your facility that you want to monitor, such as housing areas, recreation, or special purpose rooms.

Zone-based tracking has many advantages over traditional coordinate-based systems. Coordinate systems show the exact position of each tag in your facility, but they require multiple receivers per zone for triangulation, and you have to outfit your whole facility with receivers. Coordinate systems are costly to implement and complicated to operate. Unless you need to know the exact place where an inmate or patient is standing, you are paying a lot for information you don't really need.

Zone-based tracking tells you which zone your inmates or patients are in. It's exactly what you are tracking now. Compared to coordinate tracking, zone-based tracking costs less, and is simpler to operate and use.

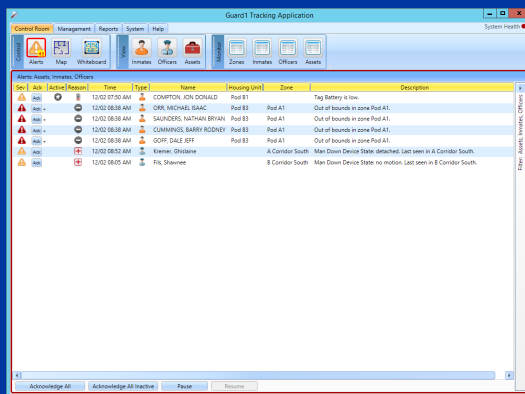
## Real-Time Alerts

GUARD1 TRACKING provides you with real-time alerts that notify you of conditions in your facility. The GUARD1 TRACKING software manages alerts and acknowledgements.

GUARD1 TRACKING provides these alerts:

- **Out-of-bounds.** You can define the zones where individuals or objects are not permitted.
- **Keep-separate.** GUARD1 TRACKING allows you to create groups of inmates, so keep-separate rules can be created between two groups, between a group and an individual, or between two individuals.
- **Tag not seen.** An alert is signaled if no transmission is received from a tag after a time period you specify.
- **Officer duress.** The Duress Device signals alerts for several conditions including panic button presses.
- **System conditions.** GUARD1 TRACKING notifies you if a receiver is not working or if other issues are affecting your system's health.

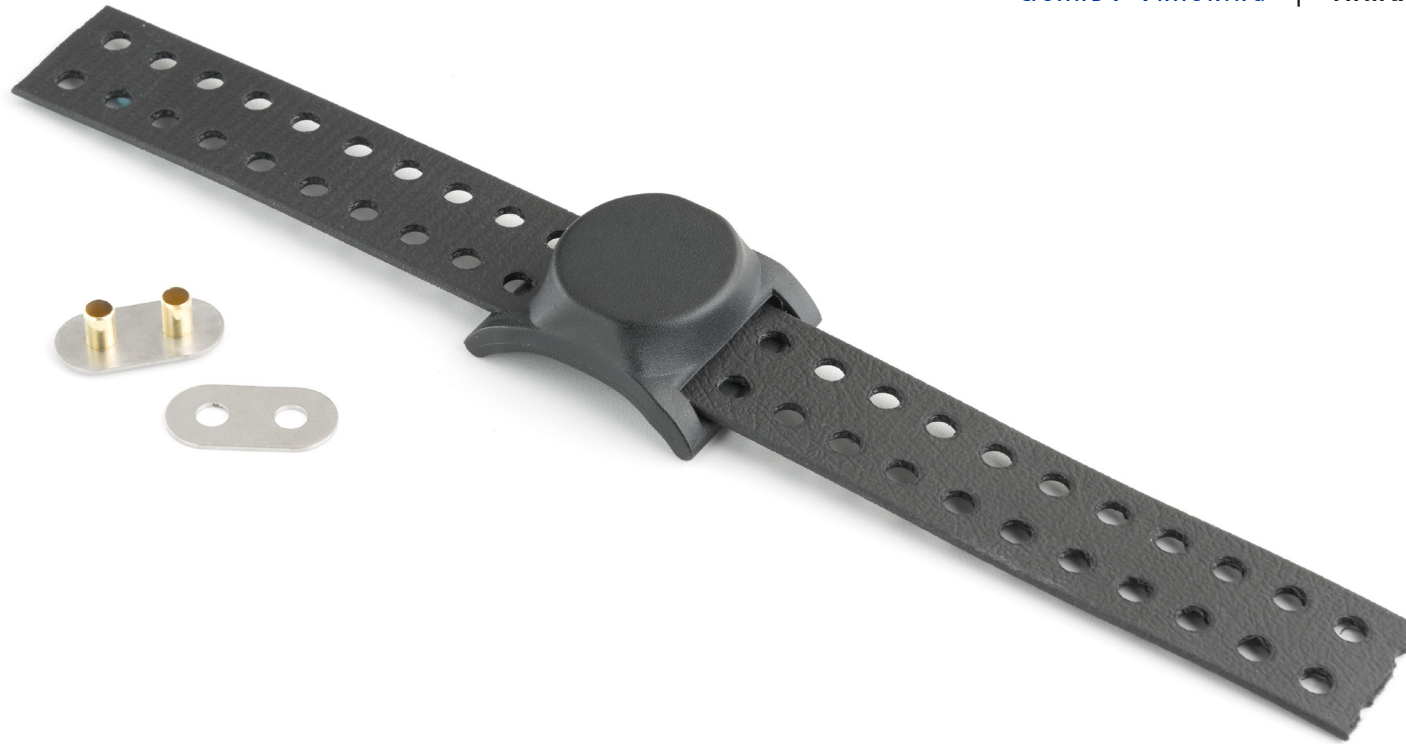
All alerts must be acknowledged and GUARD1 TRACKING provides you with full accountability, recording all related details, including the officer or staff member who acknowledged the alert. Alerts that have been acknowledged are displayed as long as the underlying condition exists.



## Real-Time Alerts

View and acknowledge alerts in real time





GUARD1 TRACKING Tags transmit a signal once each second.

### Tags and Wristbands

Inmates and residents wear radio frequency tags. Each tag contains a 2.4 GHz radio transmitter and a battery, and transmits its unique ID once per second. Tag battery life is approximately two years, with no recharging required.

The tag's housing is urethane plastic. Its electronics are sealed in epoxy. Wristbands are urethane coated polyester webbing – comfortable but strong, with 1000 pound pull strength. Wristbands have a metal clasp that is easy to apply with a crimping tool. All wearable components have been tested to Part 5 of the requirements of ISO standard 10993, *Biological Evaluation of Medical Devices*.

When an inmate is released, the wristband is cut off and the tag can be washed and reused. The tag and wristband are separate, so if you already use wristbands in your facility for identification, you can continue to do so.

Tags can be used on things, too – such as tools or kitchen utensils. If one of these isn't where it's supposed to be, GUARD1 TRACKING will send an alert. One GUARD1 TRACKING facility had a problem with bulletproof vests disappearing. After they sewed tags into the vests, their loss rate went to zero.





Receiver for covert mounting



Receiver in hard case



Duress Device for officers and staff

## Receivers

Receivers acquire the transmissions from the tags and forward them to the GUARD1 TRACKING server.

The simplest mounting is covert mounting in a suspended ceiling, if available in your facility, such as in corridors and meeting rooms.

A hard plastic case is used in areas where it is impractical or impossible to hide the receiver. We've pounded on it with hammers and thrown basketballs at it. It's very rugged.

Proper location of the receivers is a very important part of the GUARD1 TRACKING implementation. Receiver location depends on a number of factors, including the physical layout of your facility, cable access, and what area you are trying to cover. Our implementation team will work with you to determine the best location for your receivers.

Receivers connect via Ethernet to the GUARD1 TRACKING network. We recommend a separate network due to the large amount of data the system generates. All receivers use Power over Ethernet, which eliminates the need for a separate power cable.

## Duress Device

The Duress Device provides a way for officers, staff, and visitors to signal when they are in trouble. The Duress Device transmits a signal once a second, so the GUARD1 TRACKING system knows where it is at all times. When an alert occurs, the device transmits an amplified signal that will be received and reported by multiple receivers.

## Alert Conditions

The Duress Device and GUARD1 TRACKING software signal these alert conditions:

- A panic alert is sent when the button is pressed.
- Man down (the device is in a tilt or horizontal position).
- No motion.
- Detached from holster.
- Low battery.
- Not-seen alert (no transmissions received from the Duress Device for a configurable period of time).

# Software

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GUARD1 TRACKING software provides a wealth of information in real time, organized for busy control room staff and supervisors. You can keep track of alerts, inmate movement, headcounts and more with just a few clicks.

## JMS Integration

GUARD1 TRACKING integrates easily with your jail management system. Information you are already entering into your JMS does not have to be typed again in GUARD1 TRACKING. GUARD1 TRACKING can accept inmate information, booking numbers, photos, housing unit and bed assignments, and keep-separate or enemies information from your JMS.

A software development kit (SDK) is available to your staff or your JMS vendor's staff. This allows developers to integrate to GUARD1 TRACKING via web services and to confirm that the integration is correct.

## Whiteboard View

The Whiteboard View shows you everything that is happening in a housing zone at a glance. It displays everyone in a housing zone, including staff, with one card per individual. At the top of the view it displays alerts and headcounts. Individuals with an alert are shown with a red border. Those who are currently out of the zone are shown with a different background color. For more details, just hover over a card or double click.

## Map View

The Map View shows you each zone in your facility, and enables you to zoom in on problems. Zones with alerts are shown in red. When you click on a zone, GUARD1 TRACKING displays a list of everyone in the zone. Individuals with alert conditions are shown with a red border, and as with all GUARD1 TRACKING views, you can hover over an individual's name or double click to see more information about that person.

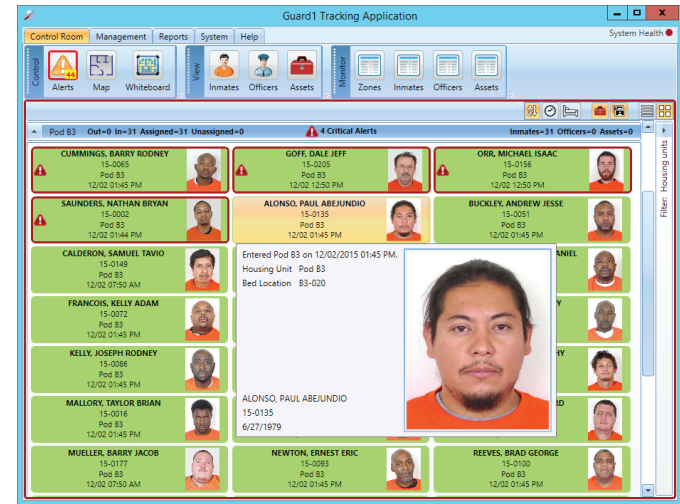
## Individual View

The Individual View shows you all of the activity for one person. You can see each zone the individual has visited. With this view, you can quickly determine if an inmate or resident has received required activities such as recreation, counseling, or attorney visits. The Individual View includes advanced searching, so you can find an individual by name or partial name, housing assignment, or ID number.

The Individual View also shows an alert history for the inmate or resident.



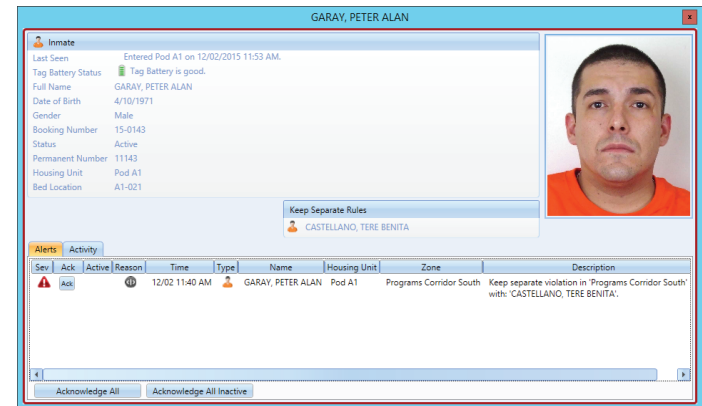
**Whiteboard View (a)**  
View headcounts and individual details for everyone in a housing zone



**Whiteboard View (b)**  
Hover your mouse over any individual to see more information



**Individual View (a)**  
Search for and view individual records including movement activity and alerts



**Individual View (b)**  
View and acknowledge alerts by individual

### **Zone Monitor**

The Zone Monitor is a real-time display of all activity within one zone or a group of zones. You can filter by housing zones, a single zone or a group of zones. GUARD1 TRACKING includes similar monitors for inmates / residents, officers and assets, each with advanced filtering capability.

### **Reports**

GUARD1 PLUS provides you with complete documentation of movement history for accreditation, litigation avoidance, or general investigative purposes.

All reports include advanced filtering, so you can focus on specific individuals or zones, and a specific time period. After you have found the information you need, you can output it in a variety of formats, including PDF, Excel, XML, and more.

### **Contact Report**

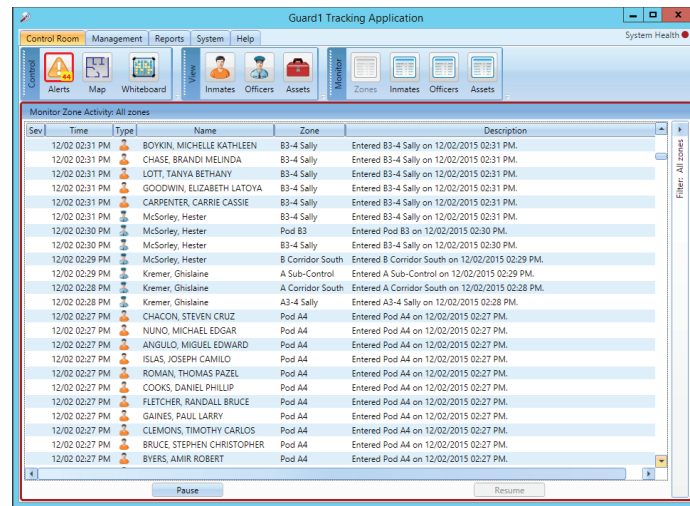
The Contact Report shows you if two or more individuals were in the same zone at the same time.

### **Movement Reports**

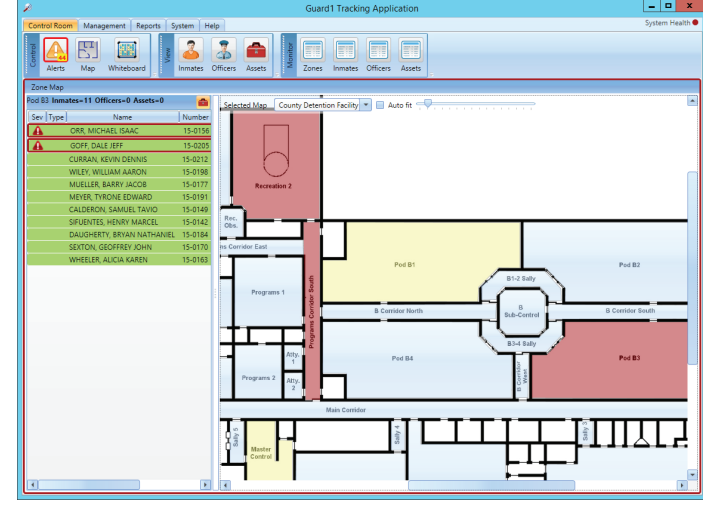
The Inmate Movement and Officer Movement Reports show all movement for one or more individuals for a given time period.

### **Zone Reports**

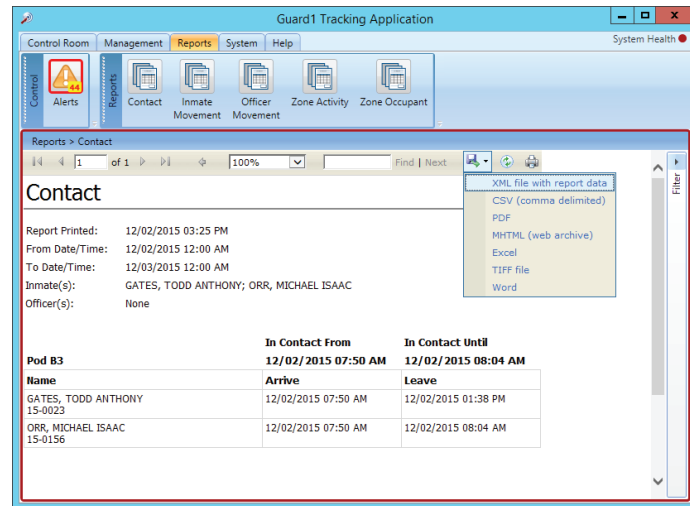
The Zone Activity Report shows all movement in a zone for one or more individuals you select. The Zone Occupant Report shows who was in a zone for a given time period.



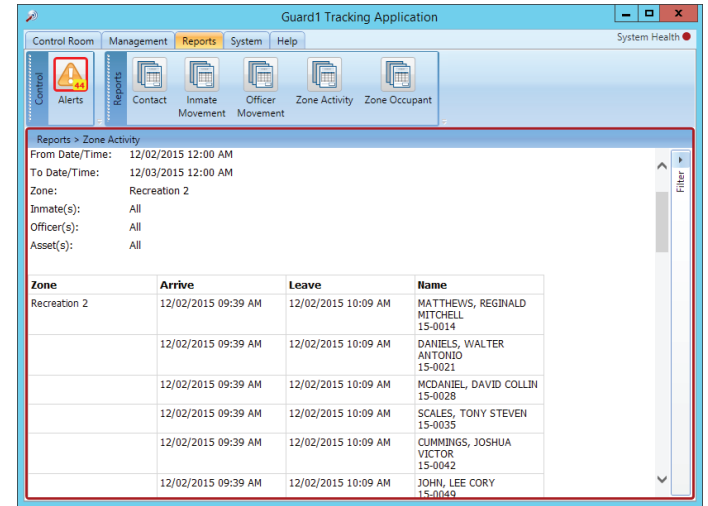
**Zone Monitor**  
The Zone Monitor shows you all activity in a zone, in real time



**Map View**  
With the Map View, you see headcounts, alerts, and who is currently in a zone



**Zone Reports (a)**  
The Contact Report shows who was in the same zone and when



**Zone Reports (b)**  
The Zone Activity Report shows everyone who was in a zone during a selected time window



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