



## CASE STORY STAFF SAFETY

### Kongsvinger Prison

A prison in Norway have decided to use Zonith to further security measures for guards on site. This prison holds 97 male prisoners at a time, 49 of whom need to be kept in high security custody. It is part of the Norwegian Correctional Service comprising 5 regions and 3826 prisoners.

The facility was built in 2012 with a focus on protecting security guards from the outset. They were looking to provide guards with radio devices to raise alarms and open lines of communication to one another should a situation arise. They also wanted to know the position of their staff, no matter where they were on-site.

### Requirements

- Deploy a panic alarm system throughout facility.
- Track staff throughout all buildings.
- Track staff in outdoor areas.
- Display alarms visually to security.

### Key Benefits

- Increases staff safety throughout entire prison.
- Allows alarm handling and positioning from one radio device.
- Staff are visible anywhere and anytime.
- Both indoor and outdoor alarms are displayed graphically in guard tower on one map.
- All alarms are logged for post incident reporting.
- Offers a cost effective option for an all-in-one solution.

*Working with the management team, ZONITH deployed an alarm handling software solution using both Bluetooth and GPS technology with Motorola radios.*

## THE SOLUTION

### Manage and dispatch panic alarms

ZONITH Alarm Control System (ACS) is a software platform that was configured to listen to alarms raised from DMR radios, and dispatch these alarms via text to security. This piece of software can listen to any alarm source and dispatch alarms to various types of media, giving this prison the ability to build on the solution in the future.

### Indoor Positioning System

100 Bluetooth Beacons were deployed throughout the facility to provide room level indoor positioning accuracy of staff carrying Bluetooth enabled devices. Each device can be recognized and given a name, showing not only a device in a specific location, but the identity of the staff member holding that device.

### GPS outdoor positioning

Once a staff member carrying a DMR handset leaves the building, the device will seamlessly switch to GPS tracking to cover staff in outdoor areas. Furthermore, GPS Geo-Fences were created to enable more specific outdoor locations when an alarm is raised, such as 'car park' or 'exercise yard'.

### Alarm Display

All alarms can be viewed graphically via a touch screen device mounted in the guards room. When an alarm is raised a map will pop-up showing the location of the source, whether indoors or outdoors. In an emergency situation this gives security and management the ability to very quickly and easily locate all staff on-site.

