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AiCare- Wander Management White Paper (AiCare-W01)



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Revision History

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Wander Management (AiCare-W01)

1) Background/Challenge

For senior people with Alzheimer's disease (AD) or dementia, wandering behavior can be commonly observed and has been considered as one of the most difficult to manage. Research shows that nearly 70 percent of wandering behavior could result in server consequence including resident death, and cost for 2 hours of searching for resident found on premise is around 5K USD.

The typical questions raised by facility managers or staffs are "Where is the resident now? Why is the resident there?"

2) Solution provided by AiCare

Figure 1 shows core elements of AiCare's solution that include AiPortal, Rockband, and Rockbox. Direct integration with Rockband and Rockbox hardware, AiPortal provides unprecedented flexibility and accuracy to notify facility managers or staffs by sending real-time alerts when a wandering behavior happens. Real-Time facility status on AiPortal shows each resident's location and movements throughout the facility.

In addition, the individual reporting for each senior resident or aggregated data view can provide you with powerful tools to provide value-add services and give the family members an extra peace of mind via 24/7 data collection and detection.




		
<p style="text-align: center;">AiPortal</p> <p>AiPortal is the enterprise-ready senior home management system that helps facilities managers and staff members provide the maximum care to senior residents.</p>	<p style="text-align: center;">Rockband</p> <p>Rockband is a personal wrist device with lightweight, durable and water-resistant features for the most difficult-to-please senior users. This device can be used 24/7 for up to 12 weeks without replacing the battery.</p>	<p style="text-align: center;">Rockbox</p> <p>Rockbox is the intelligent IoT device that bridges the Rockbands and AiPortal. It automatically scans for data and uploads it to AiPortal without any effort.</p>

Fig 1. Core elements of AiCare's solution

3) Solution features, benefits, and other services

Solution features:

- Real-time location tracking
- Historical location display
- Resident missing and last location alert
- Remote portal access to dash board and real-time facility map
- Email/App alert push and subscription

Benefits:

- Easy to use: RockBand and RockBox come preconfigured and are ready to use, just wear the RockBand and plug in the RockBox.
- High quality: RockBand is manufactured using industry leading hypoallergenic materials to ensure no adverse reaction happens.
- Support: AiCare's engineering team are available to help by email or support forum.

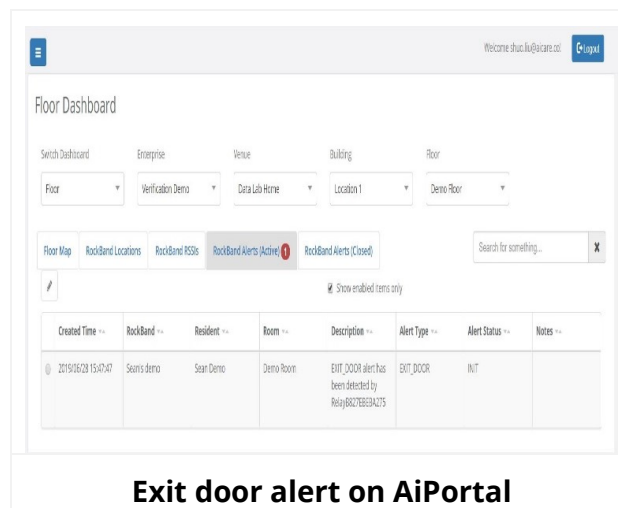
- Warranty: AiCare's products are backed by a one year industry standard warranty.

Other services (depending on the subscription plan):

- Emergency alert. Please refer to the white paper (AiCare-W02) for more details
- Daily physical activity. Please refer to the white paper (AiCare-W03) for more details

4) How it works

- Each resident wears a RockBand.
- The indoor location tracking function on AiCare's cloud platform will locate the citizens in real-time to prevent inadvertent accident and wandering.
- When a wandering behavior has been detected by AiCare's intelligent analytics, exit door alerts will be raised on AiPortal.



Exit door alert on AiPortal

5) References

1. Wandering behavior in people with dementia (2003)
2. Dangerous wandering: Elopements of older adults with dementia from long-term care facilities (2004)