

# System Overview



## How the Pedz™ system works

The Pedz pediatric protection system helps prevent the abduction or flight of patients from the pediatric department.

Every patient wears a Pedz tag on the wrist or ankle, and every exit point of the department is electronically monitored. Tag messages are picked up by a network of Receivers installed at regular intervals throughout the monitored area, and relayed to a PC running the Patient Security Server software.



Patients may move freely within the protected zone, but cannot leave unless authorized by hospital staff. Any attempt to leave results immediately in an alarm in the Pedz application software that identifies the patient, the location and the time. The system will also alarm if the Pedz tag is removed without authorization, and if no messages have been received from the tag from within the safe area for a certain period.

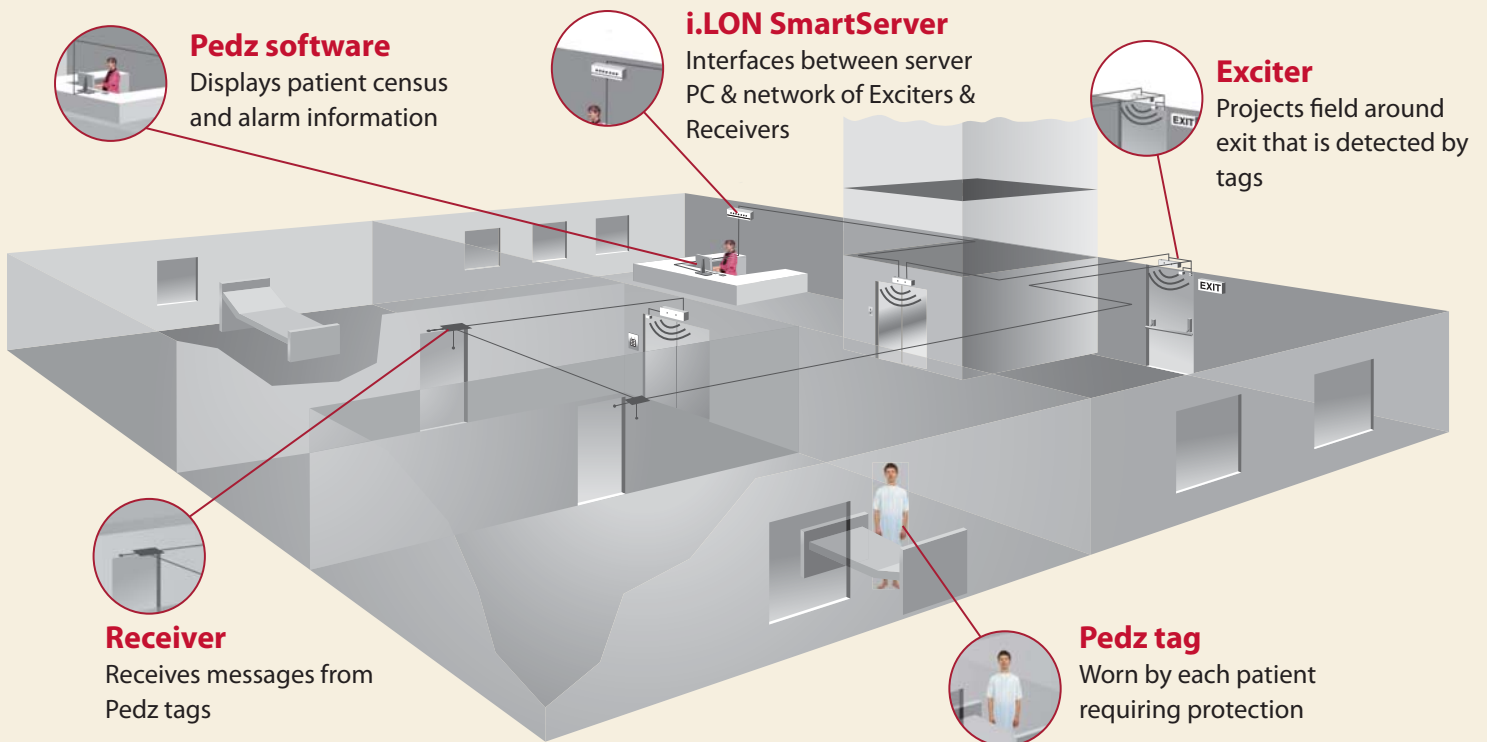
Several password-controlled features of the Pedz system help to ease clinical workflow. The Transport command enables staff to remove a patient from the department for medical procedures. The tag may be left on the patient or removed, as needed.

Upon return, the tag can be reattached using the same band and the individual is automatically readmitted to the system. All patient data is retained in the system; there is no need to re-enter information.

The system also enables you to grant certain patients the freedom to travel outside of the department unescorted. You can elect to receive notification if the patient doesn't return within a certain time, or limit their ability to leave to certain hours.

The Pedz system can locate patients within the department as well. Simply select the patient from the census list, and the software will show his/her most recent location on a customized map of the department.

System activity can be monitored from anywhere in the facility on client PCs, which receive data from the server PC. The system can also be interfaced with a variety of other equipment to extend functionality, including magnetic door locks, access control systems, pagers and alarm devices.



## The Pedz Tag

The Pedz tag is specifically designed for use on pediatric patients. The band is held in place in the tag by a clamping mechanism. This means that the child can play with the tag—even tug on it—without causing nuisance alarms. Each child can also personalize the tag with skins that clip on over the tag.



This “kid-friendly” design is combined with security. The band is cut-resistant to deter unauthorized removal, and even if an individual succeeds in detaching the tag, an alarm is immediately generated in the system.

The band is cut to length for each patient. This ensures a perfect fit every time. The tag is easily removed by staff with a removal key, after a Transport command has been initiated in the software, or at discharge.

The Pedz tag is waterproof, reusable and carries a one year warranty.

## Receivers

Receivers are radio frequency reception devices installed at regular intervals throughout the monitored area of the facility. Receivers receive the Pedz tag transmissions, time stamp them, and relay them to the server software. They are installed in ceilings, usually out of view.

The server software monitors the operation of each Receiver to ensure a high level of operational confidence. If the Receiver fails to operate for any reason, an alarm occurs.

## Exciters

Exciters monitor the exits from the safe area (usually the pediatric department). Installed above or beside the doorway, the Exciter emits a detection field that covers the opening. When a tag enters the field, it immediately transmits a special message to the server software via the Receivers. In a typical installation (with door contacts connected to the Exciter), an alarm will only occur if the door is open, as the patient is then at immediate risk of leaving without authorization.

Each Exciter also includes two relays, which can be used to control a variety of devices, including magnetic door locks

or audio and visual alarm devices. Optional keypads or card swipes may be connected to the Exciter to enable staff to bypass an exit with a patient.

Like the Receivers, Exciters are continually monitored by the server software, and a warning message is automatically displayed if there is a problem.

## Patient Security Server software

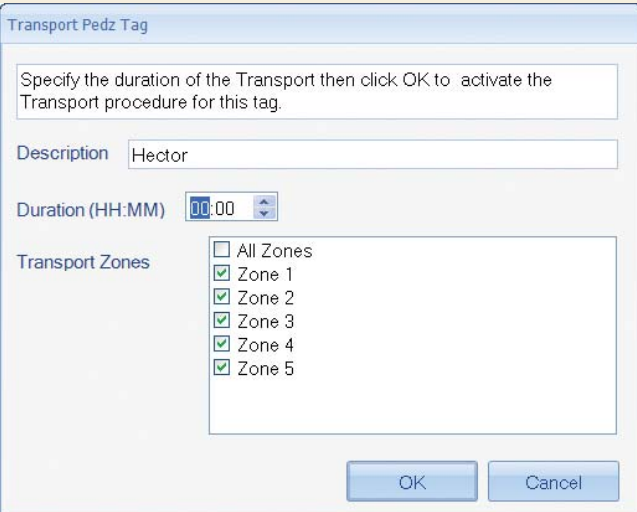
The Pedz system uses a client/server architecture. The Patient Security Server software is installed on a server PC that is connected to the device network (Receivers, Exciters and optional Input/Output Modules), either directly via a LonWorks® interface card installed in the PC, or over an Ethernet connection via one or more i.LON® SmartServers.

The server PC monitors the operation of all devices, processes messages received from tags via the Receivers, and houses the database of system activity. It also supplies data to the client applications over a local area network (LAN).

Depending on IT policies, the server PC can be housed in a secure location, or can run the Pedz application software so that it can be used for day-to-day tasks.

## System Manager software

The System Manager is used for configuration of the system by Stanley Healthcare Solutions or its dealer. It is automatically installed on the server and all client PCs, and can be installed on any other computer with an Ethernet connection to the server PC.



*The Pedz software provides prompts to guide the user to complete actions quickly and correctly.*

## Pedz application software

The Pedz application software is the main interface for users. The software presents only task-critical information in an intuitive, visual format. Different levels of password access ensure security while allowing staff members to perform their jobs efficiently.

The Pedz software also enables administrators to manage user accounts, write custom procedures to guide staff during an alarm, and make other basic settings. A variety of reports of system activity can be viewed on-screen and printed.

## Device Network

The Pedz system uses Echelon's LonWorks protocol, one of the most widely used network technologies for mission-critical applications.

Each Receiver and Exciter (and Input/Output Module, if used) is connected to the server PC either directly via a LonWorks interface card, or one or more i.LON SmartServers. This LonWorks-to-Ethernet device provides increased installation flexibility, since it can piggyback on an existing LAN.

Each device on the network is continually monitored by the system, and a warning message will automatically appear in the Pedz software if a problem is detected.

All network devices receive power from a central 12/24 V power supply. The wiring for the network uses 16 AWG twisted-pair cable.

## Use the Hugs® tag for infants



For your smallest patients, you can elect to use the Hugs infant tag. This small and compact tag is designed for use with infants, and fits snugly on the ankle; the tag's BabySense™ feature even notifies you if the tag is not securely attached. The Hugs tag enrolls in the Pedz software just like a Pedz tag, and appears in the same census window.

Like the Pedz tag, the Hugs tag is tamper-proof, and is continually monitored by the system. It is waterproof, reusable and carries a one year warranty. The strap can be adjusted to accommodate normal weight loss, and is hypoallergenic.

### Four unique features of the Pedz system that ease clinical workflow

#### Transport command

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The Pedz system provides you with great flexibility for transporting a patient out of the department. You can initiate a transport at a computer, or at optional keypads/card swipes installed at exits. The tag may be left on the patient or removed. When the patient returns, he/she is automatically re-admitted to the system, either when the tag is reattached (using the same band) or when it is re-detected by the system. There is no need to re-enter patient data.

#### Patient locating

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Since pediatric patients are often mobile, the Pedz system includes a locate feature to help you find a patient within the department. The system stores the most recent location for each patient, based on the regular signals received from the Pedz tag. You can quickly see this information on a map of your facility so that you know where to begin your search.

### About us

Stanley Healthcare Solutions is a leading provider of safety, security, and supply chain management solutions for healthcare. Every day, thousands of hospitals and senior care facilities worldwide rely on Stanley products to deliver better care and improve efficiency.

Our smart storage solutions include supply/procedure carts, cabinets and casework, small carts, open storage, heavy-duty storage, and inventory management systems.

In the senior care market, Stanley Healthcare offers a full range of resident safety and security applications, including wander management, fall management and emergency call.

Our suite of patient security products provides individual protection to patients in multiple departments, from newborns in obstetrics to adults in the emergency department.

Stanley Healthcare Solutions will continue to expand its range of healthcare products and solutions for institutions and individuals, building on our years of experience in healthcare, and the Stanley legacy of quality and innovation.

#### Access groups

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The Pedz system enables you to tailor protection for each patient based on their age and risk profile. You can assign patients to "access groups" that allow them to leave through selected exits without prior staff permission. This gives the patient greater freedom and reduces the burden on staff, while still maintaining security. Access can be restricted to certain times of the day, and you can elect to receive notification if the patient does not return within a certain period.

#### Admit a patient without a tag

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Depending on your protocols, you may choose not to band some patients. You can still admit these patients into the Pedz software, so that all your patients are listed in the Census Window. If you decide later to apply a tag to the patient, their profile is easily updated to reflect this.

**STANLEY**<sup>®</sup>

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