



Real Time Ultrasound Local Positioning System

LPSS



West-Call® Ultrasound RTLS Advantages

● High Definition Positioning

Ultrasound signals do not penetrate walls; therefore, an ultrasound RTLS guarantees virtually fail proof room-level location accuracy. In addition, defined sub room-level location zones can be created to obtain bed-level resolution or to create specific locations in rooms or corridors.

● No Risk of Interference - No Signal Strength Calibration

Hospital equipment and metallic surfaces do not interfere with the West-Call® Ultrasound RTLS. Moreover, sensitive hospital instruments do not sense ultrasound waves, so there is no risk of interference from a West-Call® Tag's signals. Signal strength calibrations to compensate for electromagnetic signal

interference (as required with a radio frequency-based RTLS) are not needed for the West-Call® LPS.

● Minimal bandwidth requirements

The West-Call® LPS is very network friendly. Due to the simple location detection of the West-Call® system, only a very small amount of data is transmitted over the LAN, saving bandwidth for other important hospital tasks.

● Maximum ROI performance

The West-Call® LPS provides the most dependable and accurate location information available in the market. Using it to automate work flow, your hospital can improve a number of clinical processes, the quality of patient care and maximize Return on Investment.

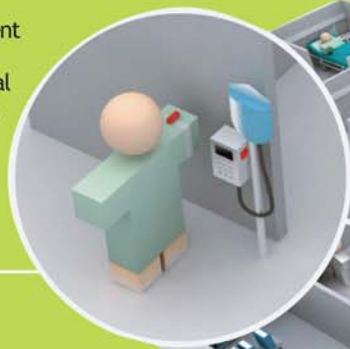
1

Tags attached to equipment and/or people transmit a unique identification signal when moving or at preset intervals.



2

Strategically mounted detectors "hear" the Tag signals and transmit them via an existing LAN to a central computer.



3

The tracking and location information is presented on the West-Com Novus® Nurse Call System, tablet PCs, PDAs and portable phones that are connected to the network.



Everyone benefits from West-Call® LPS

Clinical, Maintenance and Administrative

- Reduced time searching for moveable equipment or people, allowing more time for patient care or other value added tasks.
- Significant improvement in work flow, patient flow, job satisfaction and patient satisfaction.
- Better and easier JCAHO compliance.
- Automatic recording of associated location based and time-stamped events as input for treatment and/or patient safety records, e.g. patient with equipment and/or patient with clinician.
- Increase patient satisfaction by improving staff response times to patient requests.

Security

- Identify objects approaching pre-defined location perimeters.
- Configurable alerts and notification methods triggered by pre-defined events, including man down.
- Detailed audit trails of movement of equipment or people.

Technical and IT

- Interference avoiding airborne ultrasound communication with Digital Signal Processing.
- Minimal bandwidth requirements on existing LAN and/or wireless networks.
- Easy Windows API Linux customization and integration.
- Simple installation without complex calibrations or triangulations.
- Fully and easily scalable system to reflect changes in your hospital's tracking needs.

Financial

- Increase patient throughput, staff productivity and efficiency.
- Reduce equipment rentals and losses.
- Improve room, bed and equipment utilization and productivity.
- Automatically capture chargeable information based on time-stamped associated location events, e.g. patient with equipment and/or patient with clinician.



How does West-Call® LPS work?

The West-Call® LPS is a Real Time Location System (RTLS) that uses ultrasound technology.

A small wireless transmission Tag is securely attached to the object or person to be tracked. The Tag transmits its unique identification signal using ultrasound waves as the object or person moves throughout the monitored area. The Tag signals are transmitted at user defined preset time intervals when the Tag is in motion or at fixed intervals.

A Detector (microphone) dedicated to the room or a more finite location receives the transmitted ultrasound signals from the Tag. Using West-Call® patented Digital Signal Processing (DSP) algorithms, the Detector transmits the signals in digital format via the existing wired or wireless local area network (LAN) to a

central computer/server, which stores the information about the Tag's location and the time of receipt of the Tag signal.

All West-Call® RTLS information is accessible using existing and/or dedicated hospital computer screens, monitors, nurse call masters, PDA's or similar devices. West Com's LPS location data may be integrated with systems from several innovative, experienced and reputable application software and solutions partners. The hospital's own visualization software solution can also be considered for use.



**Clinical,
Maintenance and
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Security



**Technical
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Financial



REVOLUTIONIZING *the patient care environment*



West-Com Nurse Call Systems, Inc. is dedicated to providing the healthcare industry with communications solutions that improve the quality of patient care. West-Com's Real Time Location System technology (RTLS) tracks and monitors the precise room-level or sub room-level location of mobile equipment, people, and charts in complex hospital environments - automatically and in real time. For more details and a demo, please contact us at 800.761.1180. Visit West-Com's full line of healthcare communications solutions for acute-care facilities, long-term care facilities and medical offices at www.westcall.com.



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