Patient Monitoring and Wide Area Clinical Notification

A Welch Allyn and Connexall Solution

Welch Allyn and Connexall have partnered to offer you a revolutionary system designed specifically for hospital medical/surgical environments to help improve patient outcomes, reduce risk within your facility and improve clinical workflow. The system combines the Welch Allyn Connex® Clinical Surveillance System with Connexall wide area notification and communications capabilities, giving you a state-of-the art solution for 24/7 patient surveillance and providing clinicians only with the information they need—when and where they need it

Welch Allyn Connex Clinical Surveillance System

Connex Clinical Surveillance allows clinicians to proactively view patient status 24/7, helping them to respond earlier to patient deterioration. Depending on your patient population, you choose the level of surveillance that matches your needs then deploy them bed-by-bed or floor by floor.

The Connex® Vital Signs Monitor can be configured as a simple spot-check device or a spot-check and continuous monitor, measuring pulse rate, pulse oximetry and temperature. Plus, the system can be configured to include additional technology designed to provide clinicians with data that can help them intervene to help improve or avoid:

| FALLS | EARLY WARNING DETECTION | RESPIRATORY DISTRESS/FAILURE | EMR DOCUMENTATION | PRESSURE ULCERS |

Connexall Solution

As more hospitals adopt new tools to improve patient care, clinicians are expected to operate multiple diagnostic systems, communication devices and alarm systems as well as manage patient requests and needs. Unfortunately, slow networks, multiple systems, and constant overhead pages make it harder than ever for staff to prioritize their workload.

That's why Connexall integrates multiple tools and technology, to provide:

• immediate patient-to-staff communications
• complete nurse mobility
• a quieter healing environment for patients

As patient alarms get answered—by the right person, at the right time—quality of care and patient satisfaction can improve significantly. Connexall integrates to a nearly-infinite number of systems and devices and allows:

• Clinicians to conduct assessments en route to patients
• Staff to continue to receive critical data updates, on or off-site
• Timely response to sudden changes in patient conditions
• Extension of the life of current systems
• Optimization of performance for all devices

Filtering Nuisance Alarms

Based on your specific needs, medical equipment, and workflows, you can customize the level at which Connexall delivers alarms. Unique to Connexall, alarm filtering allows you to ensure alarms are only triggered when they are clinically critical.

Reporting

Included in the core of Connexall is robust management reporting capability, providing management teams with data relevant to their specific departments and allowing for precise fine-tuning of workflow processes.

Manage and Monitor Systems Efficiently

Connexall integrates with virtually any business system including: wireless phone systems, HL7, paging controllers, patient monitors, telemetry, security systems, fire alarms, access control, PBX, network equipment, HVAC and many more. At one central location, staff can manage and monitor events from different business systems.

• Send alarms and notifications to mobile clinical staff from a variety of monitoring systems, including vital sign and blood pressure monitors, ventilators, and smart IV pumps
• Instant notification to any communication device can relay vital diagnostic information, patient requests, alarms and events
• Optimize workflow with better communication
• Create quieter healing environment for patients
• Leverage existing technology infrastructure: Connexall is completely vendor-neutral—allowing you to enhance existing equipment, or choose new, best-of-breed systems

Simple to Use, Easy to Learn

Connexall features an intuitive user interface so staff training is easy. With one touch of a button, supplies can be requested, staff can be contacted, calls can be forwarded, and reports can be generated. Acknowledging requests, signing in or out, and escalating calls requires mere seconds—ensuring efficiency. With improved communication, patient flow, staff accountability, and data measurement, clinicians can spend more time on what matters most—quality patient care.

Welch Allyn and Connexall working together to improve workflow

The Welch Allyn 3rd Party Notification Interface, based on the IHE ACM standard, enables communication to the Connexall system. Connex Central Station client software communicates with and collects data from multiple vital signs monitoring devices. In turn, this data is passed to and collected by the Connex Central Station server software. The server then manages the output to a configured Connexall system. Regardless of whether a standalone central station is used or an additional client server, the logical behavior and flow of the communication is identical with only the physical distribution of the software components changing.

This diagram provides an overview of the Connex Central Station and Connexall notification system with the data flow of notification messages

Connex Central Station third party notification interface supports the following features:

• Communicating physiological alarms from a continuous device
• Communicating technical alarms from a continuous device
• Communicating episodic alarms when taken on a continuously connected device

• Supports alarm priority, description, associated patient & location data, related parameter value
• Filtering alarms by priority per covered area
• Connexall notification messaging is licensable on/off

The Connex Central Station and/or optional Connex Server will automatically attempt to connect to the selected Connexall system at the IP & port address configured and use the chosen interface. The Connexall system needs to be configured to accept Connex Central Station as an input on the chosen port and use the selected interface type.

Alarm messages will be sent over the Connex Central Station third party interface within seconds of being received from a source vital signs monitor . At any time, if the connection is lost/down Connex Central Station will attempt to reconnect when there is any message desired to be sent. When a (re)connect is successful, Connex CS will immediately send the current state of all active alarms, thus allowing the Connexall system to become current with the latest status of the Connex vital signs monitoring system.

For more information on how Connexall technology and the Welch Allyn Connex Clinical Surveillance System work together, please contact your local Welch Allyn or Connexall representative.

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