Ascom Healthcare Platform Alarm Management for Stryker Smart Beds

The advanced wireless fall prevention solution

Ascom Healthcare Platform for Stryker Smart Bed Benefits

- Reduces the risk of missing critical patient bed alerts by enabling mobile alert notifications.

- Enables alarm filters to minimize unnecessary alert messages (e.g. 15 second delay for brake off).

- Improves response time to critical patient events by automatically redirecting events to backup when caregiver is busy.

- Enhances care environment and consistency of care.

- Forwards alert message, if busy, via soft key response.

- Redirects alerts automatically if no response received.

Ascom Alarm Management Integration for Stryker Smart Bed acquires alarms, events, and data from Stryker smart beds, including the Stryker S2, S3, InTouch, and ProCuity beds with iBed wireless option, directly from the Stryker software via a direct native digital data interface. Using customizable alarm filters, Ascom software then forwards those events in near real-time to Ascom's clinical monitoring dashboard and as secondary alert notification to caregivers' mobile devices, helping to minimize patient falls and fall protocol compliance violations.
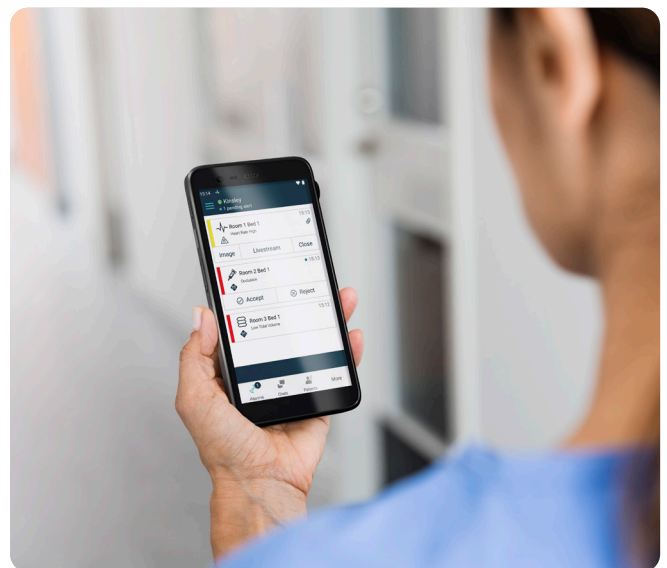
The Ascom Alarm Management Integration for Stryker Smart Bed is an FDA Listed Class 1 Medical Device Data System (MDDS) that is intended to serve as a parallel, redundant, forwarding mechanism to inform healthcare professionals of particular bed events. The integration does not alter the behavior of the Smart Bed system and associated alarm annunciations, but allows for intelligent rules and decisions to determine the most appropriate notification action and subsequent actions to perform for the given event.

The Solution

The Ascom Alarm Management integration for Stryker Smart Bed is comprised of the highly reliable Ascom Connect for Stryker Smart Bed software application. Integrating the Smart Bed system with the Ascom Alarm Management solution for Stryker Smart Bed and Ascom portable handsets provides an extended level of interactive and intuitive functionality.

Ascom Alarm Management for Stryker Smart Bed communicates with the smart beds over the hospital's wireless network. Because the beds use a wireless connection, bed alerts can be received even if the bed is not connected to the nurse call system, which often happens. The Ascom integration does not impact or use the physical connection from the bed to the nurse call system. This connection is still required to manage patient calls. The Ascom integration also interfaces with Ascom's Unite Assign for dynamic duty assignment and with the Ascom dashboard application to display alerts.

- Supports multiple bed alerts: bed exit and iBed awareness.

- Supports falls protocol compliance violations: bed exit off, side rail down, brake off, and more.

Automatic and Manual Alert Redirection Provides Peace of Mind

Ensuring an alert notification reaches the right caregiver is vital. Individual hospital units can easily customize the built-in alarm management functionality based on their specific needs. Specific alert messages can be directed to an individual caregiver or to the entire care team.

Customizable redirection rules ensure caregiver acknowledgement or forwarding to another caregiver if there is no response within a configurable time frame. Customers must have the appropriate Stryker S2, S3, InTouch, and ProCuity beds with iBed Wireless option, bed locators and Stryker software.
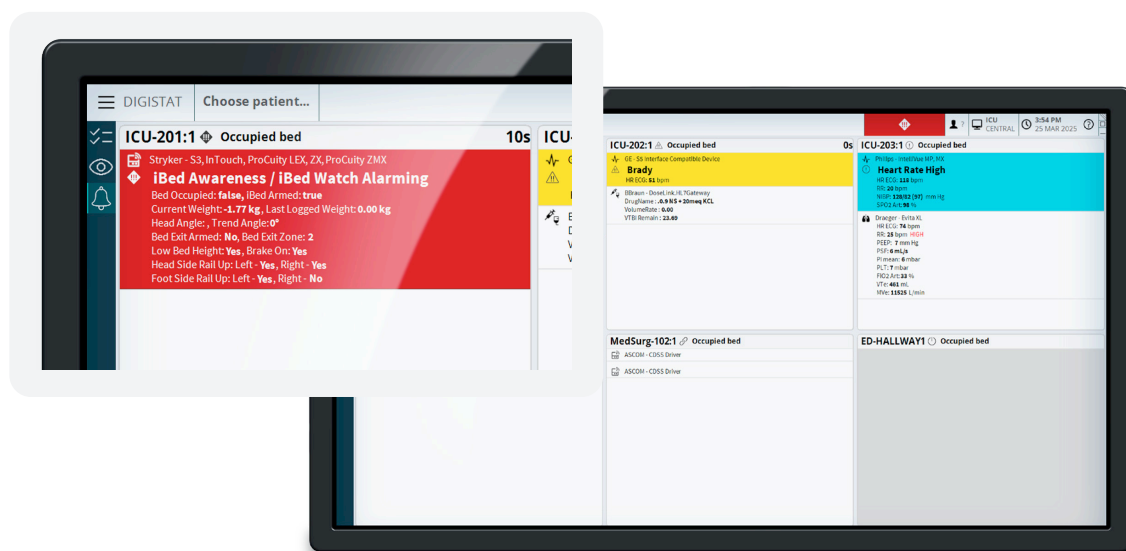
Are Your Patients at Risk?

- Up to 1 million hospital falls occur annually, resulting in 250,000 injuries and up to 11,000 deaths. Research indicates 30% of them are preventable [1]

- Patient falls were the most common reported sentinel event (42%) [2] and result in injury cost of $62,521 on average [3]

Ascom Mobility with Embedded Unite

Ascom handsets with embedded Ascom software provide enhanced alert and messaging capabilities with the Stryker bed integration.

- End-to-end message prioritization ensures that the most important message is presented first, e.g. bed exit (urgent).

- Color coded messages readily identify critical alert at a glance, e.g. bed exit (red).

- Distinctive alert tones simply identify alert priority without having to touch the handset, e.g. falls protocol compliance violations (siren).

- Breakthrough means a critical alert overrides the muted handset, but lower priority alerts just vibrate, e.g. bed exit only makes a tone on night shift.

Centralized Management and Clinical Surveillance

Ascom Unite Assign provides for a single assignment application to manage alerts from Stryker, nurse call, patient monitoring, etc. As well as sending alerts to mobile devices the platform can provide a great solution for either on unit display or centralized remote surveillance for Stryker bed events. Using the client dashboard application (requires additional licensing), caregivers have the ability to see bed alarm notifications.

Centralized remote monitoring (requires additional licensing) provides a monitoring technician with the ability to review Stryker bed alarm notifications and determine needed escalation. The platform also enables the monitoring technician to send only actionable alarm notifications to an assigned caregiver's mobile device.

For More Information

To learn how an Ascom solution can improve care at your hospital, call 877-712-7266 or visit www.ascom.us.

1. Preventing Falls in Hospitalized Patients: State of the Science, NIH National Library of Medicine (3/2019). Available at https://pmc.ncbi.nlm.nih.gov/articles/PMC6446937/. Accessed 10/2024

2. The Joint Commission Releases Sentinel Event Data on Serious Adverse Events at U.S. Healthcare Organizations, The Joint Commission (4/2023). Available at https://www.jointcommission.org/resources/news-and-multimedia/news/2023/04/the-joint-commission-releases-sentinel-event-data. (Accessed 10/2024)

3. Cost of Inpatient Falls and Cost-Benefit Analysis of Implementation of an Evidence-Based Fall Prevention Program. https://pmc.ncbi.nlm.nih.gov/articles/PMC9860521/

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About Ascom
Our vision is a world where the right information moves people forward. Our mission is to put the right information in the right hands at the right time so that people can make the best possible decisions.

We are a global provider of communication and collaboration solutions for the acute care, long-term care and enterprise sectors. Our solutions are based on intelligent integrations with software and hardware that are open source and compatible with third party solutions. Every single second, our systems generate large amounts of data, which we then turn into useful and actionable information. This helps us to bring data to life for people in the toughest operational environments, ensuring smooth, complete, and efficient workflows.

Ascom is headquartered in Baar (Switzerland), has operating businesses in 19 countries and employs around 1,400 people worldwide. Ascom registered shares (ASCN) are listed on the SIX Swiss Exchange in Zurich.