

Clinical Alarm Management Market size to hit US\$ 7.6 Bn by 2032, notes Persistence Market Research

The clinical alarm management market is driven by rising alarm fatigue, digital healthcare adoption, and demand for integrated solution enhancing patient safety

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/EINPresswire.com/ -- The global [clinical alarm management market](#) is projected to grow significantly, from an estimated value of US\$ 4.3 billion in 2025 to approximately US\$ 7.6 billion by 2032, at a compound annual growth rate (CAGR) of 8.5%. This steady growth reflects increasing awareness around patient safety, the rising number of connected medical devices, and growing concerns about alarm fatigue in clinical settings.

Hospitals and healthcare facilities are increasingly investing in centralized alarm management systems to streamline clinical communication and minimize noise and workflow disruptions. The market's trajectory has been supported by a historical CAGR of 8.1% between 2019 and 2024, highlighting consistent year-on-year growth driven by regulatory mandates and the need to enhance clinical decision-making in real-time environments.

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Key Industry Highlights

In February 2025, Agiliti introduced a new multi-acuity bed frame, Essentia, designed to support a wide range of patient conditions across hospital environments—an innovation that adds depth to alarm data generated by bed-integrated monitoring.

Nurse call systems dominate the product landscape, holding approximately 39.7% of the market



The image shows the cover of a research report titled "Clinical Alarm Management Market" by Persistence Market Research. The cover features a circular inset photograph of a healthcare professional in blue scrubs attending to a patient in a hospital bed. The text on the cover includes "Research Report On", "Clinical Alarm Management Market", "The Ultimate & Practical Overview", and the email "Sales@persistencemarketresearch.com". The Persistence Market Research logo is in the top right corner.

share in 2025, driven by the need for seamless communication between patients and caregivers.

From a component perspective, solutions account for about 55.6% of the total market, as healthcare institutions increasingly seek integrated, out-of-the-box platforms that can interact with existing infrastructure.

Geographically, North America leads the market with 44.2% share in 2025, supported by strong compliance requirements and technology adoption. Meanwhile, Asia Pacific emerges as the fastest-growing region, attributed to ongoing digitalization in countries like China and India.

Market Dynamics

Driver – Hospitals Aim for Reduced Burnouts to Improve Staff Efficiency and Direct Patient Care

Healthcare facilities globally are under mounting pressure to cut costs and maximize operational efficiency without compromising patient care. Alarm management systems allow facilities to reduce unnecessary alerts, which improves caregiver workflow and reduces ICU overflows. For instance, Augusta University Health significantly decreased non-essential alerts by over 30%, resulting in enhanced staff focus, reduced burnout, and better patient outcomes.

The implementation of alarm management solutions allows clinicians to redirect their attention toward direct patient care, improving both service quality and employee satisfaction. Fewer false alerts also correlate with reduced hospital stays, further driving cost savings.

Restraint – Multi-platform Integration Raises Risk of Patient Data Breaches

While integrating alarm systems with hospital IT infrastructure (like EHRs and mobile apps) offers notable benefits, it also opens the door to data security risks. As clinical alarm solutions increasingly rely on cloud-based infrastructure, any weaknesses in encryption or access control could expose sensitive patient data. These vulnerabilities make healthcare providers cautious about large-scale deployments.

Unauthorized access, internal misuse, and weak compliance frameworks continue to challenge market growth, especially in regions where cybersecurity infrastructure is still evolving.

Opportunity – Growth of Remote Patient Monitoring and Telehealth Creates Avenues

As remote patient monitoring (RPM) and telehealth become mainstream, the demand for clinical alarm management is expanding beyond hospital walls. Wearable and home-based medical devices are producing a continuous stream of data that needs to be filtered for clinical relevance.

Alarm management systems are playing a critical role in prioritizing actionable alerts, especially for chronic disease patients managing conditions like diabetes or COPD at home. Integration of alarm features into telehealth platforms further boosts clinician efficiency and builds confidence in virtual care systems. This intersection of digital health and smart alerting presents a scalable growth frontier.

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Category-wise Analysis

Product Type Insights

Among product types, nurse call systems lead in market share, accounting for 39.7% in 2025. These systems play a pivotal role in ensuring real-time communication between patients and care teams, especially in high-acuity settings. The evolution of nurse call systems into smart communication platforms that integrate with mobile devices and EMRs reflects the industry's move toward unified clinical environments.

EMR integration systems are also witnessing notable growth as healthcare moves toward seamless data flow across departments. The ability to centralize information supports faster diagnosis, billing, and administrative efficiency.

Component Insights

By component, solutions are projected to dominate the market, comprising approximately 55.6% in 2025. These include platforms for alarm aggregation, routing, escalation, and prioritization. As global regulatory agencies emphasize patient safety mandates, the demand for robust, compliant alarm management solutions has surged.

Services—including consulting, implementation, and training—are also gaining traction, particularly as healthcare institutions grapple with alarm fatigue. These services help streamline alert workflows, reduce nuisance alarms, and customize settings based on specific clinical environments.

Regional Insights

North America Clinical Alarm Management Market Trends

North America is expected to maintain its leading position with 44.2% market share in 2025, supported by stringent patient safety standards, widespread EHR adoption, and a high density of connected medical devices. The region faces an acute issue of alarm fatigue, where clinical staff become desensitized to excessive alerts, impacting response times and patient safety.

Healthcare providers are therefore investing in training, mobile integrations, and AI-based alarm filtration to tackle this challenge. In addition, regulatory bodies such as The Joint Commission have implemented alarm safety protocols that drive demand for compliant solutions.

Asia Pacific Clinical Alarm Management Market Trends

Asia Pacific is projected to be the fastest-growing regional market, underpinned by government-led hospital modernization programs and increasing health IT budgets in countries like India and China. With aging populations and rising chronic disease prevalence, alarm management has become a priority in long-term care and tertiary hospitals.

Leading companies are deploying middleware-based alarm filtering systems in public and private hospitals to enhance efficiency and reduce alert fatigue. Japan and Australia are also seeing increased adoption due to their advanced medical infrastructure and focus on senior care.

Europe Clinical Alarm Management Market Trends

Europe continues to witness steady growth, supported by national healthcare initiatives and updated alarm safety standards. The European Union's data protection frameworks (e.g., GDPR) further push vendors to design alarm systems that are both effective and secure.

Technological advancements such as machine learning-powered alerting and AI-driven triaging are gaining momentum in hospitals seeking early detection of patient deterioration. Europe also sees rising collaborations between health institutions and medical device companies for pilot testing and implementation of smart alarm systems.

Competitive Landscape

The clinical alarm management market is characterized by intense competition among global technology giants and specialized players. Key strategies include product innovation, acquisitions, and ecosystem integration with existing hospital IT systems.

Players are increasingly focusing on end-to-end alarm management platforms that unify communication between devices such as infusion pumps, monitors, and nurse call systems. Regulatory alignment, interoperability, and mobile compatibility remain the key differentiators in a fragmented landscape.

Key Players

Prominent players in the market include:
Koninklijke Philips N.V.

Ascom Holdings AG
General Electric Company (GE Healthcare)
Hill-Rom Services, Inc.
Capsule Technologies, Inc.
Vocera Communications, Inc.
West-Com Nurse Call Systems, Inc.
Medtronic plc
TigerConnect
Mobile Heartbeat
JCT Healthcare Pty Ltd.
Tunstall Group
AmpleLogic
Amplion Clinical Communications Inc.

These companies are leveraging their existing healthcare networks and investing in AI, mobile-first platforms, and data security to maintain competitive advantage.

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Market Segmentation

By Product Type

Nurse Call Systems
Physiological Monitors
Bed Alarms
EMR Integration Systems
Ventilators
Others

By Component

Solutions
Services

By End-use

Hospitals and Clinics
Home Care Settings
Ambulatory Care Centers
Long-term Care Facilities
Specialty Centers

By Region

North America

Europe

East Asia

South Asia and Oceania

Latin America

Middle East and Africa

Recent Developments

August 2025: Medpage launched MPNCAK1 CMEX-21 Nurse Call Adaptor Kit, enhancing patient safety with intelligent fall detection sensors.

May 2025: RF Technologies introduced Enterprise 8.0, a comprehensive communication platform to manage nurse call systems and related technologies in skilled nursing facilities.

Continued advancements in middleware and intelligent triaging platforms are helping reduce false alarms and route actionable alerts directly to caregivers' mobile devices.

Future Outlook

The clinical alarm management market is poised for robust expansion, driven by rising demand for intelligent alerting, mobile integration, and remote care compatibility. Regulatory support and patient safety initiatives will continue to shape purchasing decisions, while artificial intelligence and machine learning will redefine how hospitals differentiate between critical and non-urgent alarms.

As alarm fatigue remains a pressing issue in both mature and emerging markets, next-generation solutions that personalize alert thresholds, provide real-time insights, and integrate across devices will be central to future growth. With telehealth and home healthcare models becoming more prevalent, vendors that support decentralized alarm systems will capture a significant share of the evolving market.

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