



### Alert System State Diagram Documentation Overview

The Alert System State Diagram outlines the lifecycle of an alert within a health monitoring system, from its generation to resolution. This diagram is crucial for understanding the alert management process in response to changes in patient health data.

- Generated: The alert is generated when patient data exceeds predefined thresholds.
- Sent: The alert is sent out as a notification to the medical staff.
- Acknowledged: The alert is acknowledged by the medical staff, indicating that it has been received and noted.
- Resolved: The alert is marked as resolved when the patient's condition returns to normal.
- Data threshold exceeded to Generated: Triggered when monitored health data surpasses set limits.
- Generated to Sent: Occurs automatically once the alert is generated, sending the notification to relevant personnel.
- Sent to Acknowledged: Happens when a staff member receives and acknowledges the alert.
- Acknowledged to Resolved: Initiated when subsequent data shows that the patient's condition has normalized.

The state transitions ensure timely communication and efficient handling of patient alerts, crucial for rapid response in a healthcare setting.