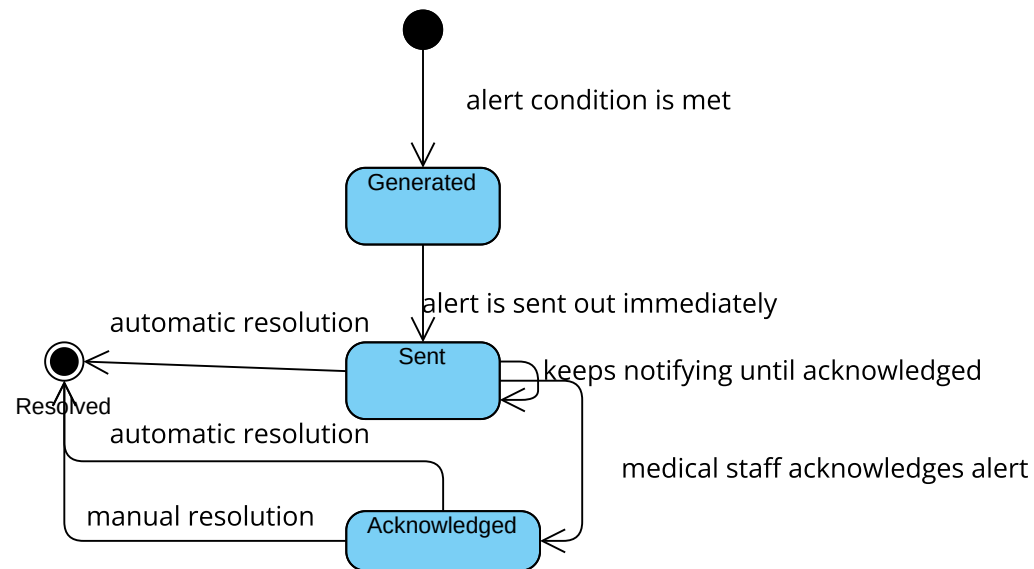


State diagram of an alert's lifecycle



Initially, the alert does not exist. When an alert condition is met, it is Generated, and the Sent immediately afterwards. There is no automatic resolution from the Generated state, as I believe in the short time between generation and sending the situation wouldn't be able to resolve itself. In the case it does, medical staff should still be notified of this occurrence.

In the Sent state, it keeps sending notifications until acknowledged, to ensure it is not forgotten. Rather than being message-queue, these notifications should resemble a call instead, to not fill the notif space with a multitude of copies from the same alert.

Once the medical staff have acknowledged the alert, it enters the acknowledged state and stops notifying. From then on, medical staff can manually change the state of the alert to resolved when the issue is cleared.

From the Sent and Acknowledged states, the alert can do an automatic resolution if the alert is no longer relevant.

Both automatic and manual resolution leads the alert to its final state - Resolved. In this state, it should be archived in the medical records for future reference.