

# Video Analytics Solution for a Hospital

## Services Provided

- Software Development
- AWS Cloud Architecture Setup
- Video Analytics (VA) Solution deployment on the AWS Platform

## Business Outcomes

Key outcomes included:

- Real-Time Anomaly Detection
- 100% Real-Time Proactive Monitoring
- Precursor Identification
- Comprehensive Cisco Meraki Integration
- Unlocking the Full Potential of Cameras

Additionally, the inclusion of various use cases added further value to the customer's security and monitoring efforts, including:

- Human Fall Detection,
- Intrusion Detection
- Weapon Detection
- License Plate Recognition
- Facial Recognition (Blacklisting)
- Fire Detection

## Key Differentiators

- Event Driven Alerts
- Forensic Search Technology
- Predictive Policing
- Linked Analytics
- Real time event processing

## Background

The customer stands as the largest independent healthcare system in Montana, serving not only the state itself but also the regions of Wyoming and the Western Dakotas. Boasting a substantial 336-bed hospital.

The hospital had previously installed a network of over 300 MV cameras throughout its premises to maintain facility security. However, the challenge they faced was the arduous and resource-intensive manual monitoring of these cameras to detect anomalies in real time.

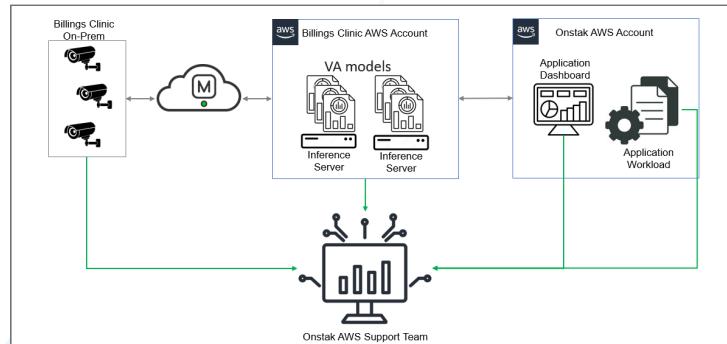
## Solution

In response to the identified challenges, Team OnStak presented a comprehensive solution that included the following:

**Unified Dashboard:** We proposed the development of a unified dashboard, offering real-time alerts of anomalies and events via the Video Analytics (VA) platform. This would facilitate swift response and resolution of security incidents. The solution was designed to be hosted on the AWS Platform.

**AWS Deployment:** Integration of 300+ Cisco Meraki cameras, already installed on the premises, into the OnStak VA solution via the Meraki Cloud and Utilization of AWS GPU-enabled Inference Servers equipped with AI models for image inferencing. VA solution via the Meraki Cloud.

## AWS Deployment Architecture



## High-Level Design

