# Security and Surveillance

December 2017
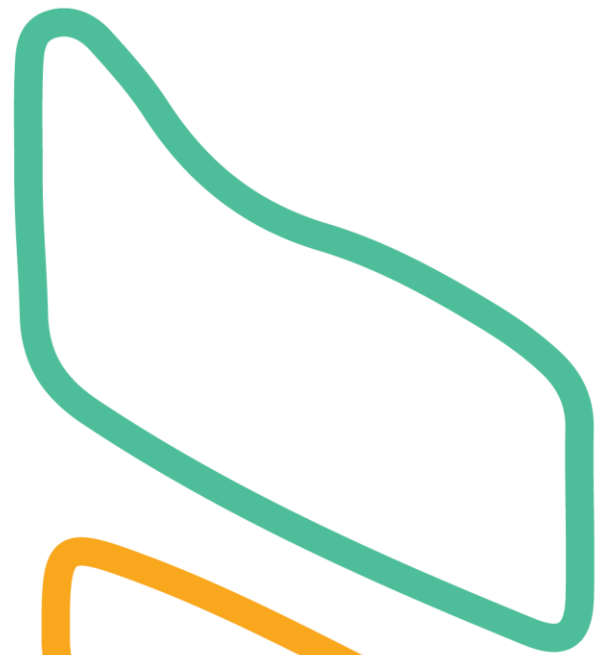
## Table of Contents
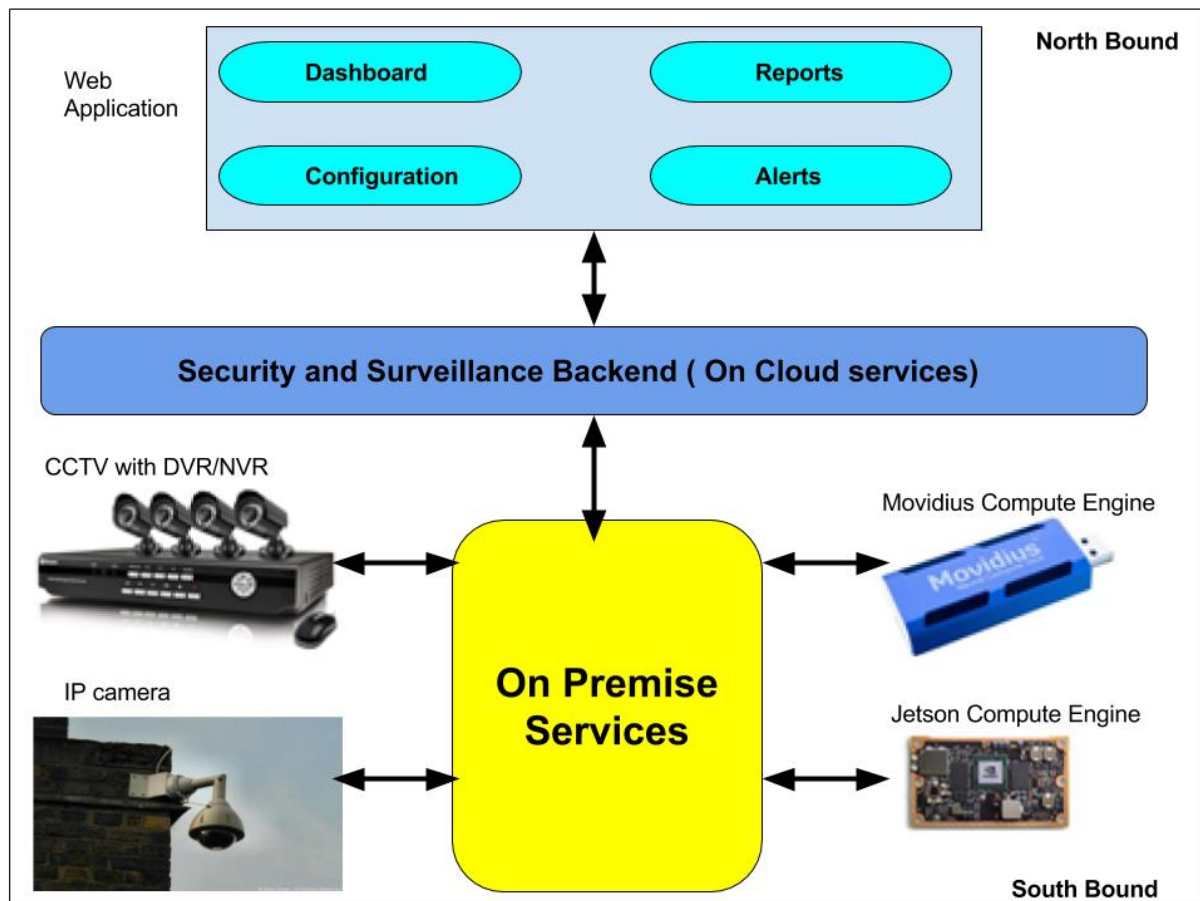
Private & Confidential

# 1. About this Document

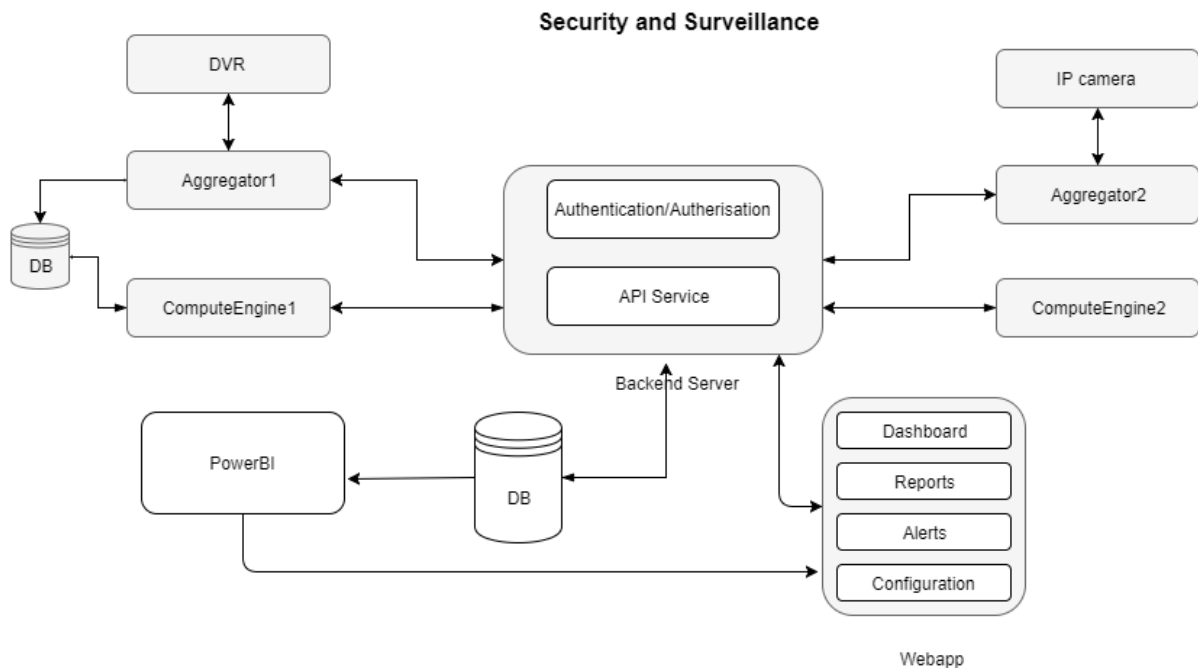This document cover high level architecture of security and surveillance solution.

# 2. Introduction

This provides base framework for security and surveillance solution. It is designed in modular way where every component acts independently. Due to its independent nature it can be easily tuned to solve problems specific to different domains. E.g Retail

# 3. Hawk Eye View

## 4. Software



Security and Surveillance

### Devices

All the on-field devices will capture images and send data to aggregators. Multiple devices like DVR, NVR and IP cameras can be supported. We can configure frequency and resolution for captured data.

### Aggregator

Aggregator would be part of South bound section. This module will communicate with DVR and provide stream services for various cameras and push images for analytics.

### Compute Engine

Compute Engine would be part of South bound section. This module will make analytics and deep learning detection of camera images.

## Backend Server

This module will provide api to North bound interfaces like web application etc. and South bound interfaces which would be for Aggregator and Compute Engine.

## WebApp

Web app would be part of North bound section. It will mainly interact with user and backend module for numerous services from UI.