LOS ANGELES COMMUNITY COLLEGE DISTRICT

Video Management System (VMS) Standard

April 13, 2023

Table of Contents

1. **Purpose**

   The purpose of this document is to provide standards for procurement of Video Management Systems to be used throughout the District.

2. **Acronyms Used**
   - ALPR – Automatic License Plate Recognition
   - BW – Black & White
   - CAD – Computer Aided Design
   - CJIS – Criminal Justice Information Services
   - DHS – Department of Homeland Security
   - FPS – Frames per Second
   - GIS – Graphical Information Systems
   - ISO - International Organization for Standardization
   - IP – Internet Protocol
   - IR - Infrared
   - IDS – Intrusion Detection System
   - ONVIF – Open Network Video Interface Forum
   - PACS – Physical Access Control System (Building Access Control)
   - PPF – Pixels Per Foot
   - RAID – Redundant Array of Independent Discs
   - SCS – Security Camera Systems
   - SDK – Software Development Kit
   - UI – User Interface
   - UL – Underwriter's Laboratory
   - VMS – Video Management System

3. **Video Management System Technical Standards**
   The VMS shall be part of an all-encompassing security platform and shall support integration of the following security technologies and systems:

   - Security Camera
   - Physical Access Control
   - Intrusion Detection
   - Emergency Phone System
   - Automatic License Plate Recognition

   The VMS shall have the following certifications:
   - UL 2900-2-3 Level 3 Cyber Security Readiness Certification
   - ISO/IEW 27001 Standard
   - FBI CJIS Compliance for cloud services
   - Microsoft Gold Certification
   - DHS Safety Act Certification

   The VMS shall have the ability to create and customize dynamic live dashboards for system monitoring, displaying data including but not limited to:
   - Health Diagnostics and Reports with Graphical Data Representation

- SDK Reports
- Weather Information
- Live Video
- Access Control Events
- Panic / Duress / Intrusion Alarms

The VMS shall have the capability of displaying interactive graphical maps with the following functionality as a minimum:
- The interactive graphical maps shall provide the ability to display any type of third-party entities integrated through an SDK.
- The interactive graphical maps shall be able to select which floor is to be displayed through a built-in mapping floor selector
- The interactive graphical maps shall support CAD files, Vector, or GIS maps
- The interactive graphical maps must be able to display intrusion and arm/disarm zones directly on the map

The VMS shall be capable of automatically switching the stream of video from a low-resolution stream to a high-resolution stream based upon the size of the video tile, thereby reducing the load on the network resources.

The VMS reporting feature shall be capable of supporting:
- Comprehensive data filtering for most reports based on entity type, event type, event timestamp, custom fields, and more
- The ability to display results through graphics such as pie charts and bar graphs

The VMS shall support the seamless unification of an Automatic License Plate Recognition (ALPR) system under a single platform. The user interface (UI) shall present a unified security interface for managing, configuring, monitoring, and reporting of the ALPR systems and associated edge devices.

4. **Retention Standards for Security Camera System**

Retention Period – Standard Video
- Recorded video shall be stored for a period of no less than thirty (30) days.
- Video shall be recorded at a minimum of 12 FPS

Retention Period – Incident Video
- Video associated with any security breach shall be retained according to LACCD policy.