

SafeAll CSIM Platform Specification

CCSIM is a provider of Converged Security & Information Management solutions. We've helped organizations streamline their security operations to reduce risk, manage security events in real-time and respond to incidents more effectively. Simply put, we make situation management simple.

Key Feature

- **Data Collection:** CSIM gathers data from various security systems and sources such as CCTV cameras, access control systems, intrusion detection systems, sensors, and other security devices. It can receive real-time data feeds or import data from existing systems.
- **Analysis and Visualization:** CSIM performs analysis on the integrated data, generating actionable insights and meaningful visualizations. It offers reports, graphs, and maps that allow users to comprehend and respond to security events in real-time.
- **Data Integration:** CSIM integrates the collected data to create a comprehensive and correlated view of security events and incidents. It enables the identification of patterns, relationships, and trends across different data sources, enhancing the overall understanding of security situations.
- **Mapping and Site Visualization:** Many Recorder Integration System platforms offer mapping and site visualization features. Operators can import maps or floor plans of their premises and overlay camera icons on the corresponding locations. This visual representation helps operators quickly identify camera locations, view live video feeds from specific areas, and navigate the surveillance system more efficiently.
- **Screen Recording Management Software Specifications for Server Access.** This software is designed to monitor and manage screen recording activities when users access the central server, providing an additional layer of security and accountability.

- **Alerting and Event Management:** CSIM identifies critical events and triggers alerts or notifications to designated users or response teams. It provides necessary information for timely response and effective situation management, **User Management and Access Control:** A Recorder Integration System enables user management and access control, allowing administrators to assign different levels of access to operators and administrators. This ensures that only authorized personnel can access and control the surveillance system, protecting the integrity and confidentiality of the video footage.

Benefits

- **Improved Situational Awareness:** CSIM enhances situational awareness by aggregating and analyzing security data, providing a comprehensive view of security incidents and trends.
- **Efficient Security Operations:** By centralizing data and streamlining workflows, CSIM optimizes security operations and response efforts, enabling faster and more effective decision-making.
- **Enhanced Situation Response:** With real-time alerts and comprehensive information, CSIM enables swift and targeted responses to security incidents, minimizing potential risks and damages.
- **Scalability and Flexibility:** CSIM is scalable and adaptable to accommodate evolving security requirements and can integrate with existing security systems and technologies.
- **Data-driven Insights:** CSIM leverages data analysis and visualization to uncover valuable insights, enabling proactive security measures and continuous improvement.

Feature

Physical Security Integration

- Support integrated Access Control System, Fire Alarm System, Intrusion System, CCTV (AI Camera), GAS Detector System, Building Automation System (Air Conditioner Control, Lighting Control, Fan Control), IoT and Network I/O Module.

Event Integration Information

- Building Management System to control the on/off status of the air conditioning, ventilation, and lighting systems, as well as set operational schedules.
- Can send alert signals when computers, servers, main controllers of various systems, and network devices lose connection.
- Display operational status and send alerts if a memory card in a CCTV camera is faulty or shows abnormal operation.
- Notifications will be displayed when a CCTV camera loses connection with the system.

CCTV Integration

- Central camera monitoring from Multi-Site, Multi-Server and Multi-Recorder.
- Unlimited number of Cameras, Recorder and Client.
- Connectivity to camera and video encoders supports MJPEG, MPEG4, MPEG4 ASP, H.264 and H.265.
- Support digital zoom function for live and playback images.
- Support standard ONVIF and PSIA via DVR, NVR and VMS.
- Manual control Pan-Tilt-Zoom and presets.
- Access your CCTV system from any recorder, any location at same time.
- Live & Playback supporting up to 256 cameras simultaneously from any recorder
- Sequence function allows a specified view to rotate between pre-defined cameras and views.
- Search for recordings base on camera, event, date and time.
- Export AVI format and write to external storage.
- Playback including forward/fast/slow playback and single frame stop depend on by recorder brand.

- Playback speed can be adjusted to 1x, 2x, 4x, 8x, or better depend on by recorder brand.
- Can view recorded images from the CCTV camera's SD card
- Display images recorded on the memory card of CCTV cameras through the security and building management software.
- CCTV integration support Milestone, Avigilon, AxxonSoft, Axis Camera Station, Video Insight, Hikvision, Dahua, Uniview, Hanwha, HOLOWITS or else.,

Access Control Integration

This integration aims to link the Access Control System with the PSIM (Physical Security Information Management) software to provide centralized monitoring, management, and control capabilities for all security-related data in a single platform.

Integration Requirements

- **Real-Time Data Synchronization:** Ensure that access control events and user activity logs are instantly synchronized with the PSIM platform.
- **Event Triggers:** Configure access control events (e.g., unauthorized entry, door forced open) to trigger alarms and notifications within the PSIM interface.
- **Bi-Directional Communication:** Enable commands from the PSIM software to control the access control system (e.g., remote door locking/unlocking, user access changes).
- **User Authentication and Roles Management:** Sync user roles and permissions between the PSIM and Access Control systems for unified user management.

Key Features of Integration

- **Unified Dashboard:** Display all access control activities, alarms, and status information on the PSIM dashboard for comprehensive situational awareness.
- **Automated Responses:** Configure PSIM to initiate automated workflows in response to specific access control events (e.g., send alerts, lock down areas).

- **Advanced Reporting and Analytics:** Aggregate and analyze access control data within PSIM for insights into security trends, user behaviors, and incident patterns.
- **Audit Trails:** Record all access events, system interactions, and control actions for compliance auditing.

AI Metadata Integration

- **Face Recognition** keep data is time, face capture, id and status (VIP /white /black list)
- **LPR Recognition** keep data is time, LPR capture, license plate, province status (VIP /white /black list)
- **Objects Attribute Detection** keep data is car (type, color), people (shirt /pants color)
- Can search metadata information, cameras and playback video from camera

Network & Cyber Security & IoT Integration

- Support integrated Firewall and Session Management system.
- Support integrated IoT sensor via standard protocol.
- Support network monitoring system for devices connected within the security network. If any device cannot connect to the network, the security system will issue an alert.

Integration Standard

- API (JSON, SOAP, RESTful)
- MQTT, SNMP, POP3, SIP
- BACnet, OPC, Modbus, SQL, Log File
- RTSP, ONVIF over RTSP

- TCP/IP Server, SMTP Server, SIP, SFTP, and Serial Port.

Health Monitoring System

- Camera (Up/Down)
- DVRs, NVRs, VMSs (Camera Loss/HDD fail)
- Network (Port Up/Down)
- Server (Up/Down) (Service Start/Stop)
- IT infrastructure (server, periphery and other)

Google Map Integration

- Marker (Icon and alarm Symbol) and Traffic display
- KMZ support (police station, hospital, camera field of view camera)
- Zoom In/Out
- Location and marker search
- Icon action is control computer, view camera, control i/o, open map and send API
- Display the Network Switch icon and can run Telnet and SSH (Secure Shell) commands.
- Display E-Map icons in Google Map to open and use E-Map in order to display indoor map.

E-Map Integration

- Support 2D or 3D layout of the customer sites for use in displaying the positions of equipment, equipment icons, and various zone alarms within the system.
- Define icon and Alarm Symbol Multi-level maps, Zoom In/Out

- Line, Box, Ellipse, Image, Text, Ruler, Angle, Polyline, Memo and Line label support
- Location and marker search
- Icon action is control computer, view camera, control I/o, open map and send API
- Display the Network Switch icon and can run Telnet and SSH (Secure Shell) commands.

Virtual Wall

- Combines physical monitors to one display or divides one physical monitor to multiple displays. It supports any kinds of data source such as Camera, Camera Sequence, Camera View, Video, Map (Display alert symbols), Graphic image, Web Application, Google maps and Open Street Map etc.
- Control any display monitor connected to the networked to display CCTV images and map shows the location of the device with the alarm.
- Advance layout can design custom layouts and support snap to grid and resize function to virtual matrix monitor on runtime.
- Advanced control support pixel control independent, full screen and normal screen on TV wall and Virtual Matrix Monitor with “mouse click”
- Matrix Profile is the system configured and provide map, video and device alerts to any
- Monitors display in the system. Simultaneously all schedule display monitor, video signals and maps indicating the locations of equipment with alert signals.
- Integrate with the display management system of the CCTV system, allowing control at the pixel level of the display. Users can zoom in and out by adjusting the size with the mouse, and it provides complete control over the CCTV display system to fully present information on incidents.
- There is an icon on the layout that allows viewing the images from the CCTV cameras and selecting to send the images to any display (Virtual Matrix) connected to the network.

Situation Management

- Combines physical monitors to one display or divides one physical monitor to multiple displays. It supports any kinds of data source such as Video, Map, Graphic image, etc.
- Display information (time, location, latitude, longitude, situation, device and live/snapshot/playback camera
- Provides standard operating procedures (SOPs), step-by-step instructions based on best practices and an organization's policies.
- Support situation state type Todo, Doing, Block and Done
- Features a situation prioritization module, enabling users to assess and rank the urgency and importance of each situation for targeted and timely responses.
- Robust tracking capabilities to monitor officer performance, meticulously logs each step taken during an operation, and features a search functionality for quick retrieval and review of historical actions

standard operating procedures (SOPs)

- Create/Edit/Export workflow is security operation procedures designed to accommodate various roles within the organization, ensuring that each type of officer has a tailored set of processes that aligns with Security Operation Procedures (SOPs). This role-specific workflow optimization ensures effective situation management while maintaining compliance with established security protocols.
- Display form confirm situation true/false and can select situation type.
- Display and search phone book relative to the situation
- Display history SOPs relative to the situation
- Notifications to email, line app, sip protocol and virtual matrix monitor.
- Display form summery situation.

Dashboard & Report

- **Device Health Status:** Quick indicators (like green, yellow, red) showing the health or status of each device.
- **Device Summary:** A total count of devices, possibly broken down into types or categories.
- **Device Location Mapping:** A geographical map plotting the location of devices, especially useful for dispersed or remote devices.
- **Situation Summary:** A summary of all the situation triggered during a specified period, categorized by severity or system.
- **Generate summary reports of situation resolutions, with options to print or save the data in Excel or PDF formats for future reference and analysis.**
- **Guard Tour reports for all sites or individual sites.**

Client

- **Supports multi-monitor functionality, enabling the display of maps, camera views, situation management and dashboards across four separate screens for enhanced situational awareness and operational efficiency.**
- **The system supports the capability to activate cameras directly from the map interface, and allows the flexibility to transfer the camera feed to an alternate screen for focused monitoring.**
- **Users to selectively view camera feeds from the situation location or its surrounding areas, providing real-time visual insights for a more informed response to the situation.**
- **Display the Network Switch icon and can run Telnet and SSH (Secure Shell) commands.**
- **Control and/or receive remote signals from controllers, including for opening/closing doors, intrusion detection devices, fire alarm devices, air conditioning control, fans, and lighting fixtures at the customer control building, through communication network.**
- **Supports storing histories, details, and images of individuals using access cards, and can display up to 9 images on the screen without overlap when an access card is used. This allows security personnel to verify if the cardholder is the legitimate owner of the card.**

Logging

- Logs of system, event Log and audit each log has adjustable time limitation in database.
- Audit log can record user access including time, user name, camera name, status (view current image or view later) and the time of removing images from the system
- Support Pivot grid for searching and related with information searched by Graphic display.

User Management

- Able to set usage rights for each user to be different.
- Username and password protection

License: This software is licensed in full accordance with prevailing legal and regulatory frameworks, ensuring comprehensive compliance and user rights protection.