



# DI-PSIM

PHYSICAL SECURITY

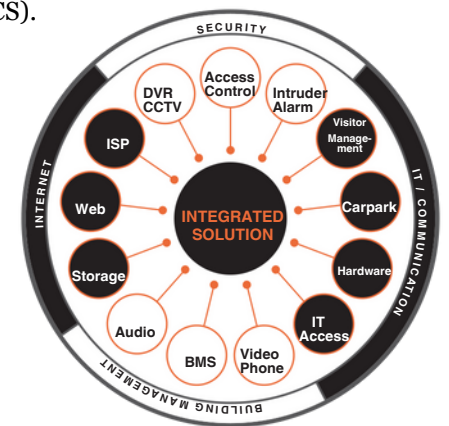
INFORMATION MANAGEMENT

**DISS PSIM platform is a scalable platform integrating security, video surveillance, environmental, and operational systems for facilities of all sizes.**

## Key Features

- **User Administration:** Comprehensive integration for secure user management.
- **Event Monitoring:** Immediate display and response to alarms.
- **Video System Integration:** Compatible with DVRs, NVRs, IP cameras, and CCTV.
- **Elevator Management:** Works seamlessly with Destination Control Systems (DCS).
- **Mobile Device Compatibility:** Facilitates data recording and transfers.
- **Zone Surveillance:** Enhanced tracking of access zones.
- **Personnel Tracking:** Real-time monitoring of staff locations.
- **Transaction Insights:** Ongoing monitoring for actionable insights.
- **Time and Holiday Scheduling:** Customizable scheduling options.
- **VMS Compatibility:** Integrates with leading video management systems.
- **Vehicle and Parking Oversight:** Effective control and monitoring of vehicles.
- **Facility Reservation:** Integrated management for booking and reservations.
- **Visitor Tracking:** Comprehensive oversight of visitor access.
- **Intercom Integration:** Secure two-way communication capabilities.
- **Photo ID Badging:** Simplified identification process.
- **Patrol Management:** Enhanced scheduling and reporting for guard tours.

## Integrated Solution



**DISS PSIM platform is a flexible solution that unifies security, video surveillance, environmental monitoring, and operational systems for facilities of any size.**

## Benefits

### Cost Reduction



By automating and streamlining operations, labor expenses are significantly decreased, leading to substantial long-term financial savings.

### Safety & Security



We emphasize safety and security by utilizing advanced authentication techniques and real-time monitoring, providing thorough protection and peace of mind.

### User-Friendly



Our system offers an intuitive user interface, allowing administrators to effectively manage access, monitor activities, and easily modify system settings.

### Customization & Scalability



Our system is highly customizable to fit your specific needs and integrates effortlessly with other security solutions. Designed for scalability, it supports growth and adaptation, ensuring long-term effectiveness as your requirements change.

## System Description

DISS PSIM Platform – Real-Time Event Reporting & Integration

DISS PSIM provides real-time event reporting with detailed insights and clear instructions for efficient response management. It supports various integration protocols, including MODBUS, OPC, BACnet, API, SDK, and ODBC, ensuring seamless connectivity with IBMS, IT systems, and enterprise platforms. Additionally, DISS PSIM integrates with essential subsystems such as Access Control, Intruder Alarms, CCTV, Facility Booking, Car Parking, Elevator Management, Visitor Management, Photo ID, Guard Tours, Lighting, and HVAC. By unifying security and operational systems, DISS PSIM significantly enhances overall efficiency and facility management.

## System Features

**DISS PSIM leverages client server architecture, enabling system operators to:**

-  Configure the site and oversee all integrated system components to ensure seamless operation and optimal performance.
-  Generation and printing of photo identification onto access cards, featuring seamless integration with external systems for enhanced functionality and streamlined operations.
-  Seamless integration with external systems, such as CCTV, DVR, NVR, IP cameras, videophones, intercoms, and intruder alarms.
-  Graphical Map
-  Supports Ethernet-ready controllers and readers for enhanced connectivity and flexibility in access control systems.
-  Failover protection with automatic server backup and data archiving.
-  Seamlessly integrate with the Visitor Management system.
-  Enable IBMS data exchange with a high-level BMS interface.
-  Integration of MODBUS, BACnet, OPC, API, and SDK via a high-level BMS interface for optimized management.
-  Allows for effective management of cardholders by controlling their access through assigned authority levels or cardholder groups
-  Monitor alarms and manage system interactions through the ACM Client Workstation.
-  Retrieve and generate reports on stored system data.
-  Support OSDP protocol
-  Support integration with portable handheld reader interfaces.
-  Support all current reader technologies with multi-technology compatibility per system.
-  Provide full support for Windows Services.
-  User interface developed on the **Microsoft .NET Framework** for seamless functionality and reliability.

The system features graphic menus, real-time views, and interactive screens. With intuitive point-and-click commands and color-coded data, operators can quickly identify critical conditions. Administration is simplified with drop-down fields and pre-populated templates for fast configuration.

ACM integrates with Site Controllers and IBMS for seamless data exchange over Ethernet using TCP/IP, ensuring efficient and secure Internet-compatible communication

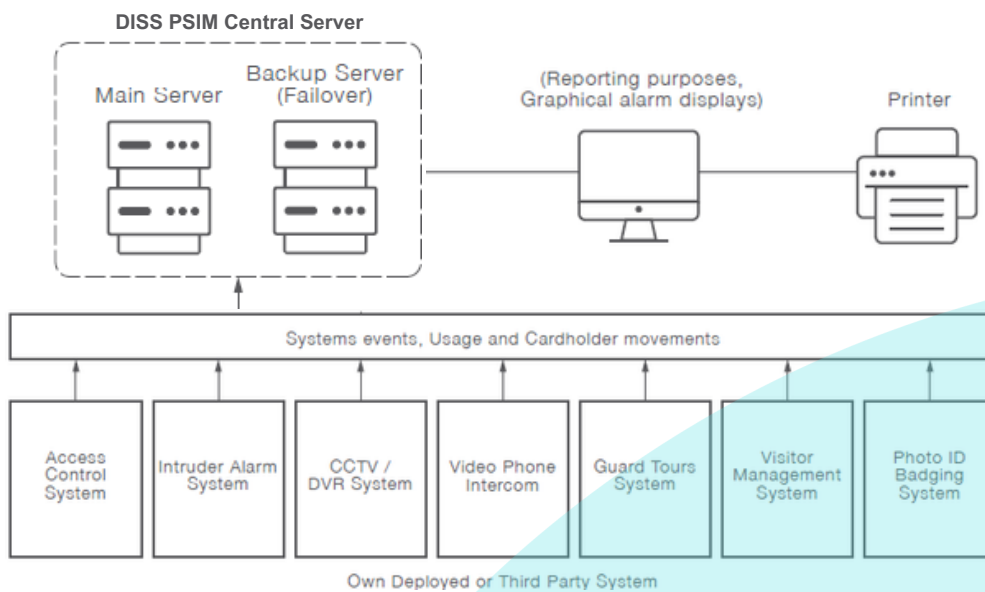
## Operation Platforms

DISSPSIM supports **Microsoft Windows 10/11 (32-bit/64-bit) and Windows Server 2016/2019/2022**, enabling seamless multitasking and facilitates enterprise-wide information sharing across integrated systems. In this architecture, the application computer centrally oversees data management and effectively distributes it to the relevant application servers, ensuring smooth operations and optimal system performance.

## Streamlined Architecture

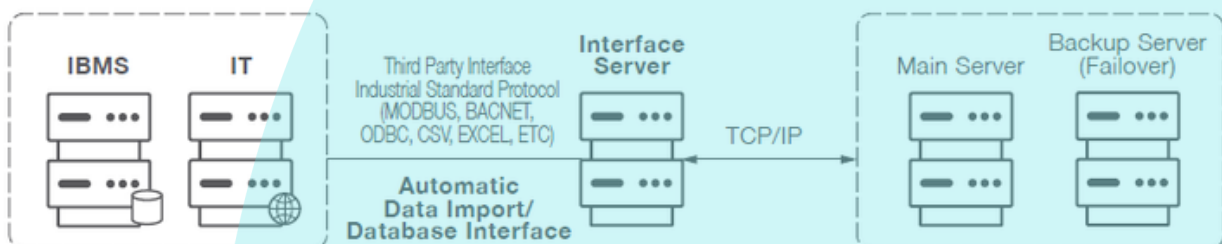
DISS PSIM user interface is developed on Microsoft's .NET Framework, incorporating a familiar Windows aesthetic and intuitive mouse-click navigation. This design provides a smooth user experience while offering a state-of-the-art security solution with advanced system architecture.

## Data Processing



All integrated system events, usage data, and cardholder movements are recorded in real time on the central server. This information can be used for reporting or sent to graphical alarm displays for visual representation and improved situational awareness.

## Automatic Data Import/ DB Interface



## Security System Integration

ACM seamlessly integrates with both proprietary and third-party access control systems through industry-standard open protocols.

In addition to advanced door access control, ACM's sophisticated card readers come equipped with LCD displays and on-board databases, providing intelligence right at the door. These readers function independently, storing transactions offline to guarantee uninterrupted operation and zero downtime.

Furthermore, ACM features a dedicated module for managing proprietary access control systems, which enhances both security and operational efficiency.

- Various styles of anti-passback, including Global, Local, Timed, Hard, and Soft
- Multiple interlock configurations
- In/out control; minimum/maximum occupancy management
- Passage control with individual time slots
- Person and room balancing, along with presence control
- Profile-based biometric verification
- Profile-based PIN code checks and duress alarms
- Automatic badge blocking after repeated incorrect PIN entries
- Personal PIN code modification via Intranet dialog
- Site alarm management with graphical map display
- Access logbook
- Door management
- Roll call report
- Image verification



## Alarm Monitoring and IO Control

DISS PSIM provides a comprehensive graphical and textual interface that delivers a real-time overview of the entire system's status, featuring the following key components:



- Local and global alarm I/O linking
- Manual and scheduled alarm monitoring and I/O control
- Alarm point monitoring via PC or tablet
- Continuous tamper supervision of non-monitored points
- User-selectable alarm priorities for each alarm
- User-definable alarm instructions and responses
- Alarm monitor for operator assessment and acknowledgment
- Alarm graphics editor and viewer
- IP/Serial CCTV alarm interface
- E-mail, SMS, and WhatsApp alarm notifications
- Control, monitor, and query system device status, including workstations, microcontrollers, readers, points, and intrusion zones
- Graphical interface for creating complex time intervals and definitions

## Biometrics Support



DISS PSIM seamlessly integrates with third-party biometric systems, supporting various methods such as hand geometry, iris recognition, facial recognition, and fingerprint verification. This integration enhances security and authentication processes.

## Video Phone, Intercom, Audio Integration

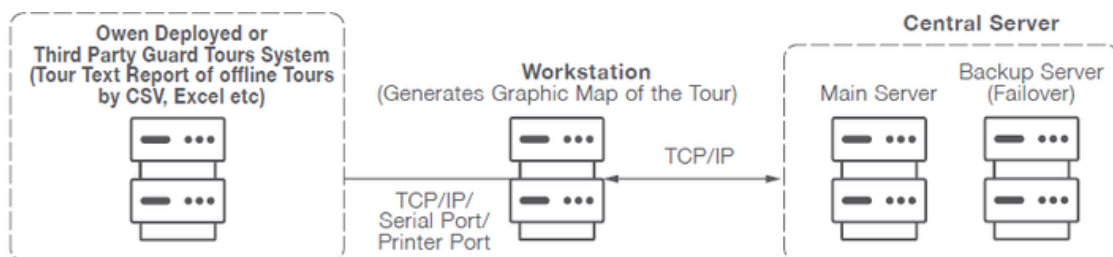
DISS PSIM instantly responds to all alarm events in real time and offers a dynamic interface for seamless integration with external systems, including videophones, intercoms, and audio inputs for enhanced communication and security.

## Portable Device Interface

DISS PSIM portable reader interface enhances security by allowing cardholder validation at remote sites or temporary access points without requiring power. It also supports QR code scanning, facilitating efficient visitor access management.



## Watchman Tours



## VMS/CCTV/NVR/DVR Integration

DISS PSIM provides seamless integration with video surveillance systems, including DVRs, NVRs, and IP cameras. The DISS PSIM IP Interface allows users to view live video from virtually any CCTV or NVR VMS platform without the need for custom drivers. Built on the .NET framework, DISS PSIM supports a wide range of DVRs, NVRs, and IP cameras, enabling users to associate access control events, video matrix, IP cameras, and alarms with recorded video clips, including programmable pre-event footage.

With a single click, users can instantly access video clips from alarm and access activity screens, enhancing security monitoring and incident response.

Access Control data and video are accessible through a common user interface

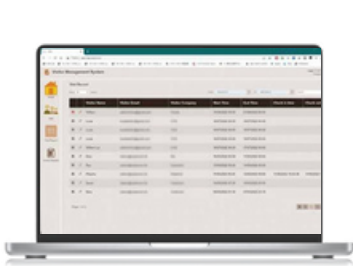
- Remote view and PTZ control of CCTV / NVR systems by Alarm Trigger
- Remote view and PTZ control of CCTV / NVR systems based on Map location
- Alarm from Access Control activate video recording / Photo Snapshot / video playback Access Control Event
- Recorded video footage is easy retrieve by means of linked Access Control Event
- Communication over TCP/IP networks
- Remote CCTV / NVR or Access Control Client Applications
- Video Management for Virtual Video Matrix
- With Live Video Forbidden Zones / Privacy Masking Algorithm (come with additional Module) within the pan-tilt range of outstation that prevent the operator from viewing camera image within these zone

## Dynamic Pin Assignment

For temporary access at remote locations, users can contact the control room to request a dynamically generated PIN, which is sent to the keypad or keypad reader at the site. To gain entry, users must either input the PIN or present an access card along with the PIN. The generated PINs are time-limited and will automatically expire after a defined period. If another user requires access, they must call the control room to obtain a new PIN. The system mandates a Card + PIN requirement, adding an extra layer of security while eliminating the need for physical keys, thus preventing key duplication at remote sites. It supports multiple locations and users, offering flexibility with both Card + PIN and PIN-only access modes. Additionally, dynamic PIN assignment can be applied for alarm activation and deactivation, further enhancing security and optimizing access control.

## Visitor Management with Kiosk and Dynamic QR Code Support

The Visitor Management System provides a comprehensive solution for monitoring and controlling access to facilities. It allows for the issuance of temporary visitor ID cards or dynamic QR codes, facilitating a self-check-in kiosk process. This approach reduces the need for manual processing and minimizes manpower requirements, streamlining visitor management and enhancing security.



Dynamic QR Code



- Administrate visitor access control
- Serve for pre-scheduled visits
- Capture visitors' image
- Record visitor details, sponsor and location and reason for visit
- ID badging printing capability
- Visitor search function e.g. searches for visitor's name, schedule time, etc.
- Trace facility and time control for visitor cards
- Blacklist feature
- Control time permissions & Access levels
- Simple check out for convenience reusable visitor cards
- Full transaction data of visits stored for reporting
- Support Static QR Code / Dynamic QR Code

## Permit Control with Integrated Photo ID Badging

- Capture, import and display personnel photos
- Design and print custom photo ID credentials
- Enable photo ID badge production capabilities on any workstation
- Export images to external systems
- Badge layout design
- Software Control Zoom and Contrast
- Multiple badge layout to suit the application

## Option: High Level Interfacing BMS sub-systems/ Thirty Parties Systems

Designed to interface to third readily party applications.

- MODBUS
- BACNET
- OPC •XML Interface
- TCP/IP Protocol
- API Application Programming Interface
- SDK Software Development Kit

# Data Overview

## Integrated System Applications and Devices

- Access control Security
- Alarm Monitoring
- IP Camera, NVR Digital and CCTV Monitoring
- Elevator Controllers
- ISMS Interface / HVAC / Lighting Control
- Visitor Management / Vehicle Management
- Photo Management / verification
- Video Phone System
- IP Intercom
- Audio Monitoring System
- Interactive graphics application with drag and drop configuration

## System Server

- Commercial PC with Intel i5 2.0G® or above
- Windows Server 2008 R2/ 2012 R2/ 2016/ 2019/ 2022 Windows 7 /Windows 8 / Windows 10/11 for Intel® platform with 8 GB RAM, 500G HD or above
- Backup concept depending on requirement

## Data Base Format

- SQL (relational)

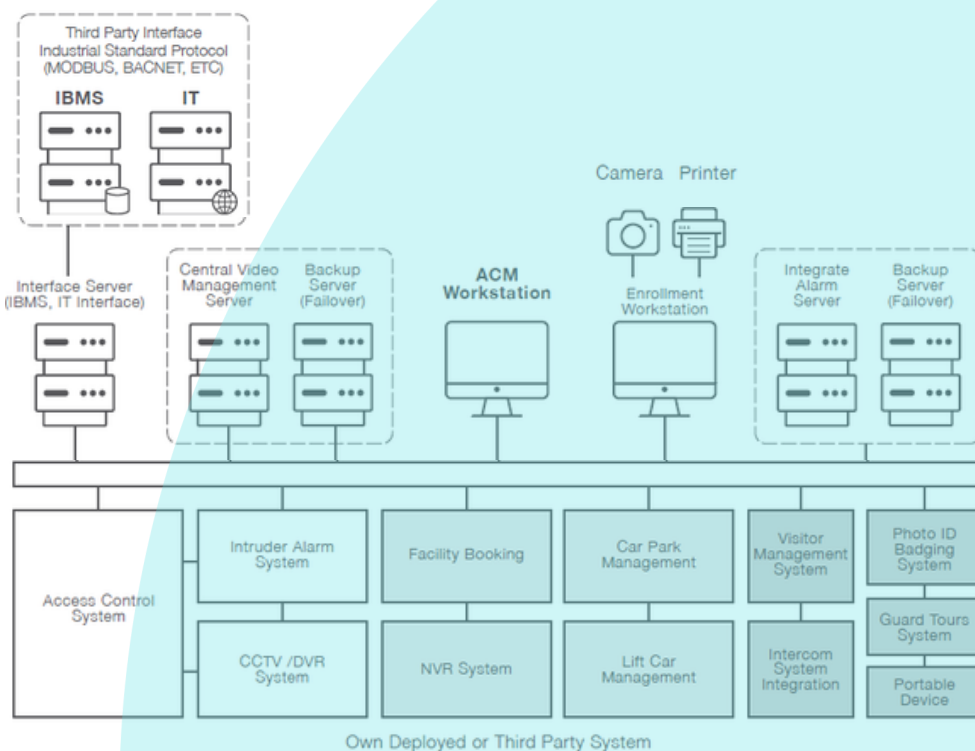
## Communication

- Between Application Server and IP Controllers over Ethernet with TCP/IP
- Establishes seamless connectivity between IP Door Master Controllers (DI-X10) and Slave Single Door Controllers (DI-X10S) via RS-485 (4-wire) , utilizing the OSDP protocol for reliable communication and system integration.

## Other Features

- Integrated branch solution for automatic time controlled data exchange with substations via a broadband internet
- Configurable data import/export interface to external systems
- Real-time interface to connect to a IBMS or a facility management system by API
- Event-triggered actions
- CSV STREAM

## DISS PSIM System Toplogy



\*All pictures and specifications are for reference only and are subject to change without prior notice.