SECURITY MANAGER

SAI, the most experienced software development company in the security industry, offers products that integrate Access Control, Alarm Monitoring, Biometrics, Digital Video, and a variety of other applications, on both Linux and Windows platforms. SAI's products provide features, reliability, scalability, and price/performance that are unequaled.

Security Manager is a family of comprehensive and fully integrated products that provide the following features:

- **ACCESS CONTROL (Card and/or Biometric)**
- **VIDEO SURVEILLANCE (Analog and/or Digital)**
- **ALARM MONITORING**
- **SECURITY AUTOMATION**
- **PHOTO ID BADGE CREATION**
- **VISITOR TRACKING**
- **WEB BASED ACCESS MANAGEMENT**
- **HUMAN RESOURCE SYSTEM INTERFACE**
- **AUTOMATIC ACCESS PRIVILEGE ASSIGNMENT**
- **TIME & ATTENDANCE**

All *Security Manager Systems* incorporate the following technologies and **STANDARD FEATURES:**

OPEN STANDARDS & SOFTWARE BASED FUNCTIONALITY

The key to the power, reliability, and low cost of SAI's Products is the use of standards-based hardware and software from the Host Computer to the Real Time Controllers. SAI Software adheres to open standards including a Point and Click Graphical User Interface, ODBC access to a SQL Compliant Relational Database, and TCP/IP communications. The platforms for the User Interface and Database are standard Windows PCs or Linux Servers. In addition, Embedded Computers are used to eliminate the dependency on proprietary field hardware and replaces them with modern software based network appliances, which maximize flexibility and minimize initial costs, maintenance costs, and expansion costs. Customers no longer have to settle for reduced functionality to achieve low cost of ownership.

OPEN SECURITY INTEGRATION

SAI/Security Manager is an open security system that integrates legacy field security hardware devices (Access Control, Alarm Monitoring, Audio, and Video) from multiple manufacturers, giving SAI.s customers the flexibility to integrate or bridge from old technology field hardware and custom serial (RS232, RS485, and Coax) networks, to modern software based security appliances and TCP/IP communications. Support is currently available for field hardware from Apollo, Checkpoint, Hirsch, Mercury, NexWatch (WSE), Recognition Systems, Phillips, Sensormatic, Sony, Vicon, Stellar, Radionics, VonDuprin, Opto/22, Quest Controls, Axis, and TOA. Open Integration saves existing investments in and enhances the capabilities of legacy hardware. It allows the customer to add new and more capable products in the future and eliminates the cost of replacing existing hardware to meet ever-changing needs for functionality.

SECURITY AUTOMATION

Security Manager addresses the most sophisticated requirements for automated decision-making and control. This feature allows the user to define a list of commands to be executed on receipt of a user-defined trigger. A trigger may be any event, for example, access denied, door forced open, start of a time period, or motion detection. Commands may include among other things, activating or deactivating outputs, recording pre and post-event video, and locking or unlocking doors. The user may specify triggers based on the Location, and/or Type, and/or Time of the Event. In addition, triggers may even be defined for a particular person for triggering automated responses to Access Granted or Denied events.

SECURITY MANAGER PRODUCTS:

HOST COMPUTERS (HOST's)

A HOST is the main user interface and data warehouse for the system. Hosts include a Graphical User Interface (GUI), a Database Management System (DBMS) and Real Time Control Software. A HOST may also include the *Digital Video Option* to provide the functionality of a Digital Video Recorder.

There are two models of HOST, Enterprise Host (HOST) and Lite Host (LITE HOST). Either model supports the same standard and optional features, however a HOST supports higher capacities of Users, Cardholders, Readers, Cameras, and other devices than a LITE HOST.
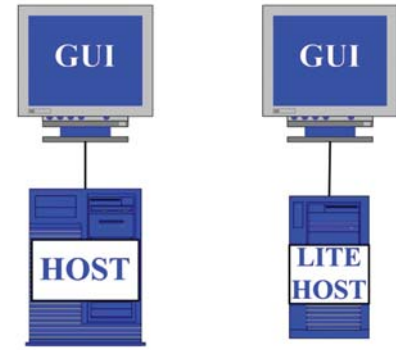
REAL TIME CONTROLLERS (RTC's)

Real Time Controllers provide an efficient means of expanding the capacity of the system, as well as increasing the reliability and performance by distributing the processing. There are 3 models of Real Time Controllers; they are Security Hubs, DCCs, and DMCs. RTCs integrate and control Card Readers, Access Control Panels, Alarm Monitoring Hardware, Network Cameras, CCTV Switchers, Digital Video Recorders, Audio Intercoms, and Biometric Devices over a TCP/IP network. RTCs can run on the latest technology platforms from tiny embedded computers to large Servers. These nodes are the 21st century equivalent of the proprietary Field Panels normally found in security and access control systems

Security Hub - A Security Hub is an embedded computer running SAI's *Real Time Control Software*. It is price competitive with traditional field panels, but is far more powerful and designed to run on a TCP/IP network. Security Hubs can be configured with the *Digital Video Option* to provide the functionality of a Digital Video Recorder, as well as an Access Control Panel.

Distributed Control Computer (DCC) - A DCC is a standard PC running SAI's *Real Time Control Software*. It functions as a large capacity version of a Security Hub. A DCC can also be configured with the *Digital Video Option* to provide the functionality of a Digital Video Recorder, as well as an Access Control Panel.

Distributed Management Computer (DMC) - A DMC is a standard PC running SAI's *Real Time Control Software* and SAI's *Graphical User Interface* (GUI). In other words, a DMC is a DCC with a GUI. It allows full operator interaction with the system. A DMC can be configured with the Digital Video Option to provide the functionality of a Digital Video Recorder, as well as an Access Control Panel. Users with appropriate privileges may access the entire system from any DMC.

WORKSTATIONS

Security Manager supports multi-platform User Workstations including Terminals, Thin Clients (Linux or Windows), and Thick Clients (Linux or Windows). The Graphical User Interface, whether viewed on a Thin or Thick Client provides:

- Data Entry
- Reporting
- Real Time Monitoring & Control
- Alarm Servicing
- Video Surveillance
- Video Badging

Workstations are available as complete hardware/software packages, or "software only" for loading on a user's PC. All Security Manager Hosts and DMCs are provided with Thick Client Workstation software.

SCALABILITY

Security Manager is the most scalable system ever offered.

For smaller systems, *Security Manager* employs standard PCs to provide a cost effective, easy to use, and reliable platform. Readers can be connected directly to the serial ports of the PC and Cameras can be connected via the Ethernet LAN Port. No traditional field panel is necessary since *Security Manager* Software provides all of the real time processing and decision-making functionality necessary to meet even the most demanding requirements. This enhances functionality, lowers cost, and simplifies the installation.
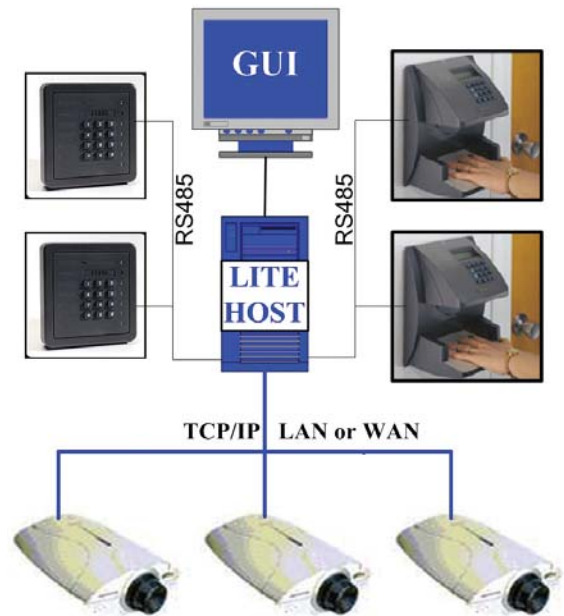
For larger systems, *Security Manager* incorporates multi-node, multi-tier architecture to provide unlimited, modular, and economical growth; as well as unrivaled reliability. The system is easily configured to distribute processing such that no single point of failure can affect the entire system. Its optional automatic real time data replication and automatic take over modules allow the system to automatically reconfigure itself to overcome failures due to hardware malfunction, communications outage, natural disasters, or terrorist attack.
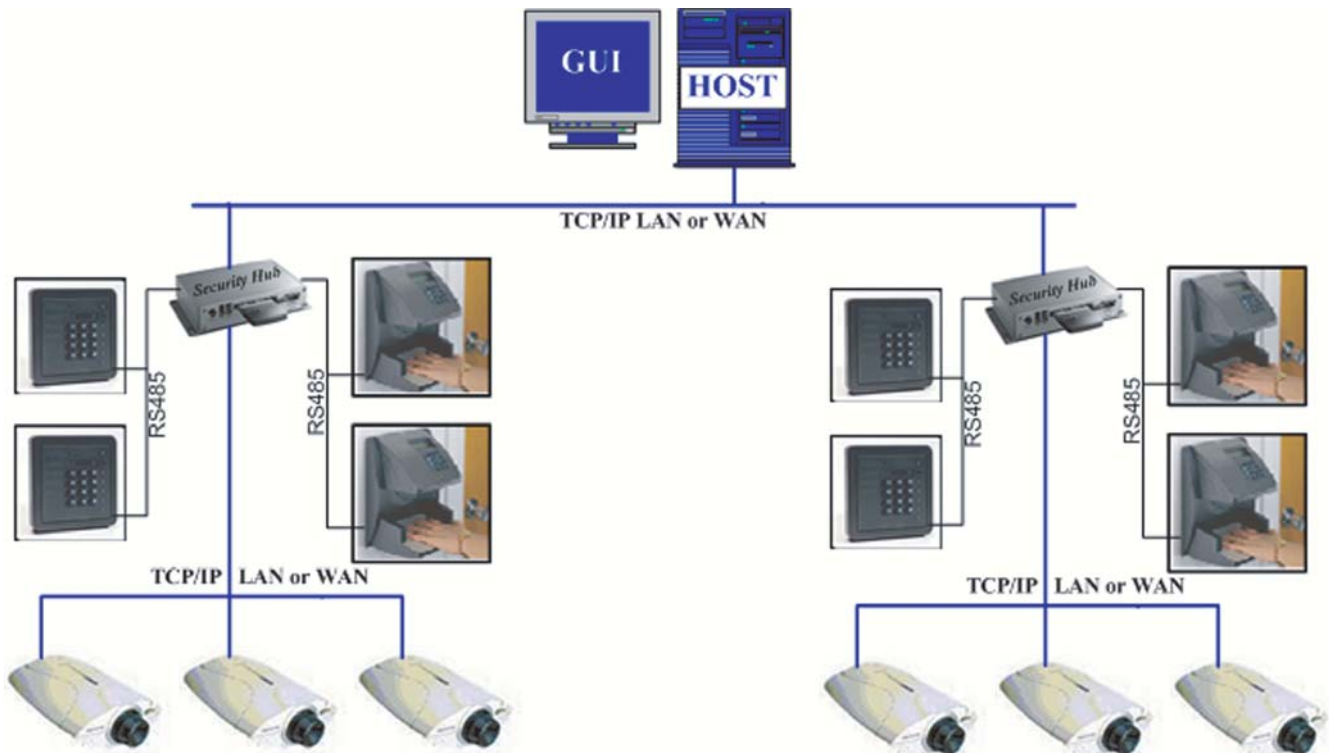
Furthermore, *Security Manager Systems* offer the following **OPTIONAL FEATURES:**

DIGITAL AUDIO/VIDEO

SAI's *Digital Audio/Video Option* is a fully integrated feature. Events and/or Alarms from any source can be user defined (using the Security Automation Feature) to trigger the recording of pre and post event video. This option provides the following capabilities:

- Viewing of live video over a TCP/IP network
- Recording of continuous video
- Recording of pre and post event video
- Retrieval and playback of recorded video
- Two way audio between workstations and Cameras
- Capture of photos for "mug shots" or Video Badges
- Pan/Tilt/Zoom control over the network

By integrating Digital Audio/Video with other security applications and devices, SAI's Customers will realize significantly enhanced security and a greater return on their investment.

ANALOG AUDIO/VIDEO

SAI's *Analog Audio/Video Option* allows integrating an industry leading intercom system from TOA with CCTV systems from Phillips, Sensormatic, Vicon, and Sony. Events and/or Alarms from any source can be user defined (using the Security Automation Feature) to trigger the switching of audio and video from intercoms and cameras to a guard station.

PHOTO ID BADGE CREATION

SAI Video Badging System (VBS) provides the ability to integrate the capture, storage, and printing of ID badges. Network Cameras are used to provide Photo Capture. Special cameras and video boards are not required.

VISITOR LOGGING

The Visitor Tracking System provides the ability to schedule Visitors, log Visitors in and out, print paper badges, and generate reports by Visitor or Visitee.

WEB BASED ACCESS MANAGEMENT

Large organizations can use this option to securely distribute the ability to define access privileges over the Corporate Intranet. Department managers may use a standard web browser to assign access privileges to their employees. However, to maintain the security of the system and integrity of the data, the ability to *request* and *authorize* access privileges have been separated. The Department Manager can only request access privileges for an employee. A Security System Administrator may then authorize or deny the request.

HUMAN RESOURCE SYSTEM INTERFACE

The Human Resource System Interface provides the ability to import cardholder data from a Human Resources System, a non-SAI Access Control System, or a non-SAI Video Badging System into *Security Manager*. Upon receipt of the information an access privilege may be automatically assigned based on the persons job function and work location. The record is then automatically loaded into the database and distributed to appropriate locations for access control.

TIME & ATTENDANCE

Time & Attendance is a real time data collection module that automates the capture of time worked. It reduces or even eliminates the manual effort necessary to gather, calculate, enter, and edit data required as input to a Payroll System.

SAI's DEDICATION TO OPEN, SOFTWARE BASED SYSTEMS

SAI's Security Products maximize their value by maximizing benefits and minimizing the cost of ownership now and in the future. Software development provides ever-increasing power without inflating the price or complicating the installation and use of a system. SAI will continue to develop open, software-based products that allow modular expansion and a consistent user interface while minimizing acquisition costs, on-going maintenance costs, expansion costs, and user training costs. SAI's Security Products will remain economical to buy, easy to install, easy to use, and economical to maintain and expand in a small office as well as a large enterprise.

SAI's PROFILE

Security Applications, Inc. **(SAI)** has been dedicated to the design and development of open, integrated electronic security solutions since 1982. Experience, innovation, and success with integrated systems have afforded SAI the ability to offer the most advanced software technology in the industry. SAI was the **first** company to offer true multi-user, multi-tasking security management software and the **first** company to offer open architecture software that integrates access control, alarm monitoring, and CCTV hardware from multiple manufacturers. SAI is now the **first** company to offer Digital Video and Access Control in a single product.

SAI's MISSION

SAI's mission is to remain the industry leader in providing and supporting innovative, open architecture, software-based security solutions that maximize our customers' productivity and return on investment.

SAI

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