



Secure Perfect® 6.0

Access Control & Integrated Security Management System

Overview

Secure Perfect 6.0 offers powerful, easy-to-use, IT friendly, integrated security management for growing businesses. Secure Perfect is more than just access control and alarm monitoring, it is a complete security management system. Seamlessly integrated in a single application, Secure Perfect uses Microsoft technology standards that make it easy to implement, operate and support. Secure Perfect provides cost-effective scalability for meeting the needs of any size organization, from a small office to a multi-site enterprise.

Power and ease-of-use

Secure Perfect's intuitive graphical user interface incorporates many Microsoft standards, including quick right mouse button form navigation with data access, context sensitive on-line help, and national language support. Secure Perfect's implementation of industry standard Microsoft technologies provides a system that most security, HR, IT and other business professionals are already familiar and comfortable with.

High Availability and Flexibility

Designed as a mission critical application, Secure Perfect is built on Microsoft Windows 2003/XP technology, leveraging Microsoft's latest database replication and cluster services to provide a fault tolerant, as well as fully distributed SQL Server 2000 database architecture with endless expansion capabilities. Secure Perfect provides the ability to replicate, in real-time, database information safely across multiple servers. This allows the contents of each regional database server, which can be geographically located anywhere in the world, to be published across all other regional servers—creating a truly distributed database architecture. In addition, Secure Perfect's flexible architecture provides the ability to be configured as a single server system or with a designated database server and one or multiple communications servers. Communications servers can be configured for automatic device fail-over providing redundant paths of communication to ensure that Alarm and Activity monitoring continue uninterrupted in the event of an outage. System administration and monitoring may be performed from any Secure Perfect communication server, designated Secure Perfect clients, Citrix or Microsoft thin clients, or by accessing the system using a standard Web browser.



Standard Access Control Features

- Access rights for grouping doors and other controlled devices with time schedules to provide increased flexibility over traditional access levels
- Unlimited access rights, issuable per person
- Multiple card support per person
- Time and attendance (T&A) data collection
- Elevator control with floor tracking
- System wide local or global anti-passback (IN/OUT)
- System wide local or global time & attendance (IN/OUT)
- Active or Passive APB and T&A configurable per reader
- Schedulable reader events for automatically switching between card only, card and keypad, and keypad only operation, based on desired level of security by time of day
- Schedulable online/offline reader function
- Schedulable lock/unlock door function
- Access-based intrusion zone control for arming/disarming secured areas
- Card access activity monitor with swipe and show photo ID verification
- DES/3DES encrypted host/microcontroller communications

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IT Friendly

Secure Perfect provides complete security system management and integration over standard LAN/WAN infrastructure. Secure Perfect system components are designed to be fully deployed over local and wide area TCP/IP networks using standard 10/100Mb Ethernet connectivity; this includes all workstations, access control and alarm monitoring panels as well as digital video multiplexer recorders for video surveillance. Complete system administration and monitoring can be performed from any Secure Perfect workstation on a network. This means greater system management and monitoring capabilities for remote multi-site applications, with a far more cost-effective and reliable installation than using traditional dedicated leased-lines, dial-up modems, or network terminal server adapters.

Seamless & Open Integration

Secure Perfect provides a single user interface for integration of the most common mission critical security applications. Secure Perfect's core access control and alarm monitoring capabilities serve as the cornerstone for building a completely integrated security management system, including photo ID badging, video surveillance, full system database reporting, true open database connectivity, and an open application program interface (API) for addressing customer specific integration requirements. Secure Perfect's open architecture database and application components are designed for integration with external applications allowing real-time data exchange with other security and enterprise business systems.

Distributed System Architecture

Secure Perfect provides maximum flexibility for communications connectivity between system components, workstations and the security management system database server; achieving better load balancing as the system grows for optimized system performance. All access control and alarm decisions are made and processed at the field panel level, providing local real-time response while minimizing network traffic and eliminating or reducing host system decision dependencies. Because distributing system administration and monitoring capabilities is just as important, Secure Perfect also provides logical partitioning of the system database by facility or area of responsibility. System operators can be assigned management, control and monitoring of any and all areas as required. Secure Perfect's database partitioning effectively distributes system administration and management across an organization, reducing the burden of day-to-day operations from a centralized security department.

Lower Total Cost of Ownership

Secure Perfect is designed for simple and cost-effective system implementation and maintenance, guaranteeing long-term investment protection. Secure Perfect offers a complete line of licensable configurations and software options to cost-

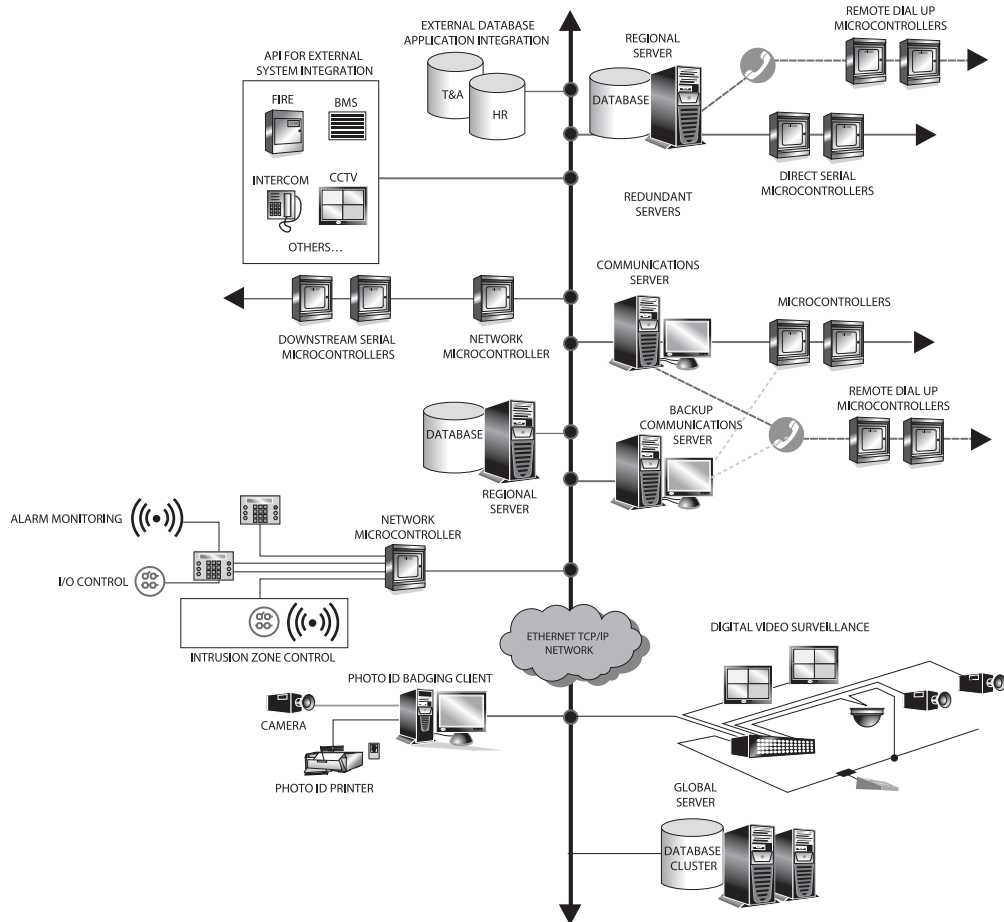
effectively meet the security needs of any size organization. Whether needing to secure a small office or a large multi-site enterprise, an organization can avoid unnecessary investment up front by starting small, and easily upgrading capacities and system options as needed. Because field panel firmware upgrades over time can represent significant maintenance costs, Secure Perfect uses eFLASH technology to remotely download firmware upgrades from any system workstation without requiring deployment of technicians out to the field. e-FLASH enables field panel upgrades to occur quickly and efficiently while the entire Secure Perfect system remains operational—drastically reducing downtime and total cost of ownership.

Alarm Monitoring and I/O Control

- Local and global alarm I/O linking
- Manual and schedulable alarm monitoring and I/O control
- 2-state and 4-state alarm point monitoring
- Continuous tamper supervision of non-monitored points
- User selectable alarm priorities per alarm
- User definable alarm instructions and responses per alarm
- Alarm monitor for operator assessment and acknowledgment
- Alarm graphics editor and viewer
- Serial CCTV alarm interface for American Dynamics, Burle, Kalatel, and Pelco
- E-mail and pager alarm notification
- Control, monitor, and query for system device status including workstations, microcontrollers, readers, points, and intrusion zones
- Graphical interface to easily create complex time intervals and define time, event, and mode schedules
- Web enabled and thin client enabled with support for both Microsoft[®] Terminal Services as well as Citrix[®] MetaFrame[®] XP.

System Administration and Management

- Time zone support configurable per workstation and microcontroller
- Microcontroller communications support via direct serial RS232/RS422, dial-up modem, and 10/100mb Ethernet
- Semi-custom report builder with user definable templates including data grouping, sorting, and filtering
- Advanced T&A reporting with hour calculation, time rounding, and history transaction override generator
- External report launcher for custom reports built with Microsoft Access
- A Microsoft open standard SQL database that is ODBC/OLEDB compliant with built in triggers for real-time updates of personnel information from external database applications



- Search on any field with 90 user fields per person
- The ability to select multiple personnel and badge records in applying mass changes
- Context sensitive on-line help
- National Language Support (NLS) with multi-lingual operation in English, Chinese, Dutch, French, German, Italian, Japanese, Korean, Norwegian, Portuguese, and Spanish
- Built in system diagnostics manager for local and remote support
- Network-deployed Secure Perfect software updates

Software Options

Integrated Photo ID Badging

- Capture and display personnel photos and signatures
- Design and print custom photo ID credentials
- Enable photo ID badge production capabilities on any workstation

Integrated Digital Video Surveillance

- Supports Kalatel DVMRe product line via Ethernet TCP/IP connectivity
- Real-time event driven camera control and digital video recording
- Quick launch video feature for access, direct from alarm and activity event monitors
- Automatic video pop-up on alarm events
- On-screen PTZ and video playback controls
- Access live and recorded video events from any workstation
- Simultaneous viewing of video across multiple DVMRe units
- Save video image or clip to file
- Export video and QuickWave player onto a CD in the secure .60d file format

- Search a selected area of a recorded camera image for motion
- User permission control of record functions: start/stop recording, save video to file and export video to CD

Web-based Report Management

- Deploy access to standard and custom reports for enterprise-wide information delivery
- Serve up to 50 concurrent users via standard Web browser
- Supports database partitioning to filter report data based on assigned operator facilities
- Custom report builder and designer

Application Program Interface (API)

- Designed for developers to build custom software applications that seamlessly integrate with Secure Perfect
- Fully documented with sample COM application code for modeling in Visual Basic, C++, and C#
- Real-time event processing and command & control functionality

100% GE Quality and Service

The GE name represents 100% high-quality security products, cheerful customer service, and trained customer support technicians to help you with any questions. These are just a few reasons why over 75% of the Fortune 100 companies are using GE access control systems. We invite you to choose GE, the strongest name in security to protect your organization's personnel and property.

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Secure Perfect Editions

Cost-effective scalability without sacrificing enterprise-class features and performance

Secure Perfect eZ Edition - System starter kits completely packaged for addressing the needs of smaller businesses. Secure Perfect eZ Edition kits are designed exclusively to support the CASI Micro/PX-2000 series controllers and are configured for easy ordering, installation, and start up of new 2- and 4-door systems, while allowing system expansion up to 128 doors.

Secure Perfect Professional Edition - For mid-sized businesses that require the flexibility of supporting both CASI Micro/PX-2000 and/or Micro/5-PX series controllers with system expansion up to 256 doors.

Secure Perfect Enterprise Edition - For larger businesses and multi-site enterprises that have requirements exceeding the supported Microsoft database server platform and system capacities of Secure Perfect eZ and Professional Edition.

Secure Perfect Global Edition - Provides distributed database replication across multiple regional servers allowing for endless expansion. The contents of each regional database server, which can be geographically located anywhere in the world, is replicated across all other regional servers as well as the global server—creating a truly distributed database architecture.

System Requirements

Server and client workstations require a Windows 2000/XP compliant PC, configured with a minimum*: PIII - 9XXMghz CPU, 256Mb RAM, 10Gb HD, CD-ROM, 10/100Mb Ethernet NIC, color display support for SVGA 1024x768 at 16-bit color.

*Actual requirements may vary; increasing memory and processor speed improves performance. Microcontrollers and DVMRs can be hosted by the server and/or client workstations for optimized load balancing across the system.

System Configuration Guidelines

An average of 32 to 64 microcontrollers and 8 to 16 DVMRs can be hosted per computer, based on system load and PC configuration.

Up to 8 microcontrollers or 64 readers are supported per single communications line.

Microcontroller reader capacity is based on a fully configured logical door that includes 1 door status DI point, 1 door lock DO point, and 1 request-to-exit DI point per reader port. Additional alarm input and output points are not required for standard reader/door control and monitoring on microcontrollers.

Specifications

SECURE PERFECT	EZ EDITION KITS	PROFESSIONAL EDITION	ENTERPRISE EDITION	Global Edition ³
Server O.S.	Win2K Pro, XP Pro	Win2K Pro, XP Pro	Win2K Server Win2003 Server or Advanced Server	Win2K Pro, XP Pro Win2K Server Win2003 Server or Advanced Server ¹
Server D.B.	SQL2K (MSDE)	SQL2K (MSDE)	SQL Server2000 Standard or Enterprise	SQL2K MSDE, Standard or Enterprise ²
Support	PX2K,PXN2K	PX2K,PXN2K, M5PX,M5PXN	PX2K,PXN2K, M5PX,M5PXN	PX2K, PXN2K, M5PX, M5PXN
Maximum Panel Capacity	32	32	256	256
Maximum Reader Capacity	128	256	4,096	4,096
Maximum Input Point Capacity	320	2,560	20,480	20,480
Maximum Output Point Capacity	256	2,048	16,384	16,384
Maximum Person/Badge DB	25,000	25,000	Unlimited	Unlimited
READER CAPACITY	STANDARD	STANDARD	STANDARD	STANDARD
Included with base software	128	256	32	32
Expandable up to	N/A	N/A	4,096	4,096
CLIENT WORKSTATION CAPACITY	STANDARD	STANDARD	STANDARD	STANDARD
Included with base software	Server + 5	Server + 5	Server + 5	Server + 5
Expandable up to	N/A	N/A	Server + 25	Server + 25
PHOTO ID BADGING OPTION	OPTIONAL	OPTIONAL	INCLUDED	INCLUDED
Included with base option	1	1	1	1
Expandable up to	5	5	25	25
DIGITAL VIDEO SURVEILLANCE OPTION	INCLUDED	OPTIONAL	OPTIONAL	OPTIONAL
DVR connections included with base option	1	1	1	1
DVR connections expandable up to	8	16	64	64
REPORT COMMANDER	NOT AVAILABLE	OPTIONAL	OPTIONAL	OPTIONAL
Concurrent users included with base option	N/A	50	50	50
API CONNECTION LICENSE	NOT AVAILABLE	OPTIONAL	OPTIONAL	OPTIONAL
External application connectivity	N/A	Per instance	Per instance	Per instance
TERMINAL SERVICES LICENSE	NOT AVAILABLE	OPTIONAL	OPTIONAL	OPTIONAL
VISITOR SYSTEM INTERFACE	NOT AVAILABLE	OPTIONAL	OPTIONAL	OPTIONAL
DEVICE COMMUNICATION REDUNDANCY	NOT AVAILABLE	OPTIONAL	OPTIONAL	OPTIONAL
DATABASE CLUSTERING⁴	NOT AVAILABLE	NOT AVAILABLE	OPTIONAL	OPTIONAL

Microcontroller Specifications (per/Micro)

	MICRO/ PX-2000 SERIES	MICRO/5-PX SERIES
Maximum Reader Capacity	4	16
Maximum Auxiliary Alarm Input Capacity	10	80
Maximum Auxiliary Output Capacity	8	64
Access Control Card Capacity	128,000	128,000
Access Control History Events Buffered Offline	8,000	8,000
Alarm History Events Buffered Offline	8,000	8,000
Time Schedules	1,024	1,024
Access Rights Per Person	96	96
Serial RS232 / RS422 Communications	PX Model	PX Model
Dial-up Modem Communications	PX Model	PX Model
10/100Mb Ethernet Communications	PXN Model	PXN Model
Network Fallback to Dial-up Communications	PXN Model	PXN Model

¹Global Server OS must be Win2K Server or Advanced Server

²Global Server DB must be SQL2K Standard or Cluster

³Maximum capacities listed for the Global Edition are per Regional Server. A Global Server can support an unlimited number of Regional Servers allowing for unlimited system expansion.

⁴If Clustering is desired, Windows 2000 Advanced Server and SQL Enterprise Edition are required.



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