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Diamond II

Sophisticated access control for global enterprise applications

Overview

With years of experience in the development of the industry's most established and reliable systems, GE Interlogix brings security management, access control and alarm monitoring to a new level with the Diamond II integrated security system. Diamond II is a leading-edge series of very flexible and truly integrated systems that utilize many of Windows 2000's proven strengths in global enterprise applications.

The Diamond II software is a server/client application designed to support multi-user, preemptive multi-tasking operations. The system operates on the Intel family of processors, incorporating state-of-the-art hardware and processor technology.

Diamond II

Browser based user interface

Menu buttons and screens are intuitive providing the user an easy to understand method for navigating through Diamond II. Screen design is streamlined to reduce programming steps and minimize the need to go to multiple screens in the system for routine operation.

Security

A high level of security is provided in the system using the foundation of the Windows 2000 security structure. It allows control of the user's access within the operating system environment including but not limited to logon, file access, and remote server access. The security also controls the user's access to menus and screens, down to the individual field level.

Video Imaging and Photo ID Badging

Create badges easily with the powerful badge design software. The software includes an extensive badge design and drawing package with multi-layer design tools, a powerful editing package, and full drag-and-drop capabilities. The design package also provides a snap to grid capability, scaleable fonts with auto kerning, portrait and landscape badge templates, an extensive color palette with individual color design facilities and a utility to perform badge design check and test print.

Adding company logos, and imported background images to the design is as easy as drag-and-drop. The badge can include text, signatures and other information directly from the cardholder database. There are even anti-counterfeit features that can be added. Creating the cardholder picture is very simple to accomplish. Multi-frame digital captures allow the selection of the best image. This is then adjusted to maximize color and clarity. The photo becomes part of the cardholder database. The completed badge can be printed using an industry standard access card printer. The system supports printers with built-in encoders that can encode magnetic stripe photo ID cards at the time the badge is printed.

Interactive Dynamic Color Graphics

Operators have full system control through the use of dynamic alarm, reader, relay and security area icons displayed in the graphics map. The maps have full drill-down capabilities to the device level. Devices and alarms may be acknowledged, masked and secured from mouse clicks on the appropriate icons.

Report Generation

Flexible database management, search and report generation capabilities permit the user to easily define report criteria and obtain extensive information from the Diamond II system.

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Partitioned Database, Multi-Server and Redundant System

The Diamond II system architecture is designed to provide high speed/high integrity partitioned database, multi-server and redundancy options for medium to large global database applications. Partitioning is not panel-dependent, set-up is simple and Diamond II allows for flexible control of operator access to partitions.

The Diamond II server stores its data in both a relational database (SQL Server) and in a Microsoft Active Directory. This is a substantial upgrade of the ODBC implementation, resulting in a faster and much improved interface and performance over the ODBC standard.

System Description

A fully expanded Diamond II system is capable of supporting over 2,000 readers, 40,000 alarm points, and 40,000 output relay points, while handling multiple concurrent tasks without impeding the system performance. This is a very important advantage when dealing with high levels of real time transaction activity and concurrent overhead demands such as report generation, database downloads and other system administration activity.

Computers may be operated as full screen workstations. The system allows user interaction, while simultaneously monitoring and controlling real-time events, and providing a dynamic system status summary. The system allows continuous monitoring of alarms and system status at any or all operator workstations. Standard configurations of the Diamond II system will support up to 128 user-configurable workstations per server. Special system configurations will support up to 1,000 workstations.

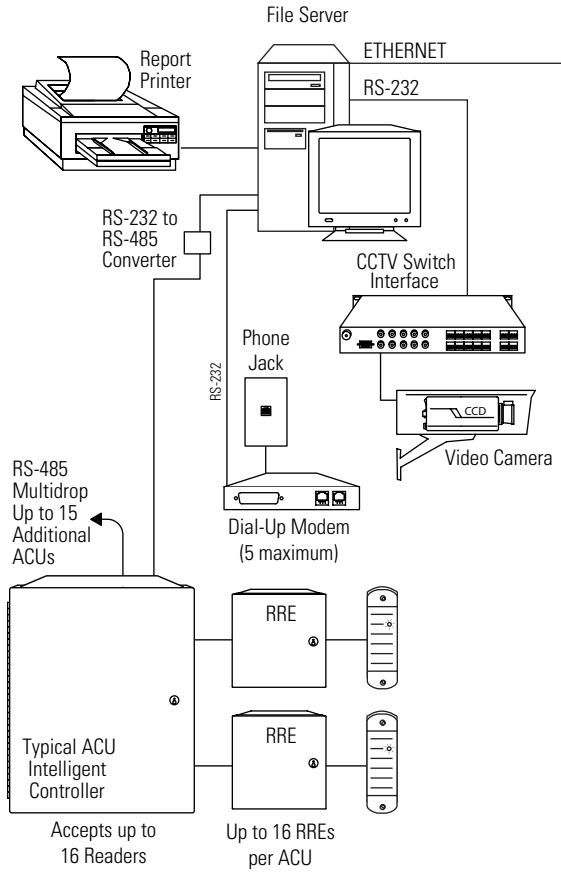
Standard features that provide optimum system flexibility include: full interactive graphical maps, CCTV interface software, elevator control, high-integrity dial-up capability for field panels, multiple company site codes support, and TCP/IP communication support for LAN field panels.

Numerous other software options are available to maximize Diamond II's effectiveness as a security management system. These features and options include: computerized guard tour software, area loading/two-man rule software, SCIF software, multiple server operation software, asset tracking software, server hot redundant software and radio paging software.

System Architecture

An LDAP interface is used for the network directory. The use and mix of this technology as required insuring the most effective means of data storage and management for the file server and other components regardless of the system's size.

LAN connection is utilized between the file server and workstations. Field panels can be connected to the system using a number of options including LAN, RS-485 and remote dial-up.

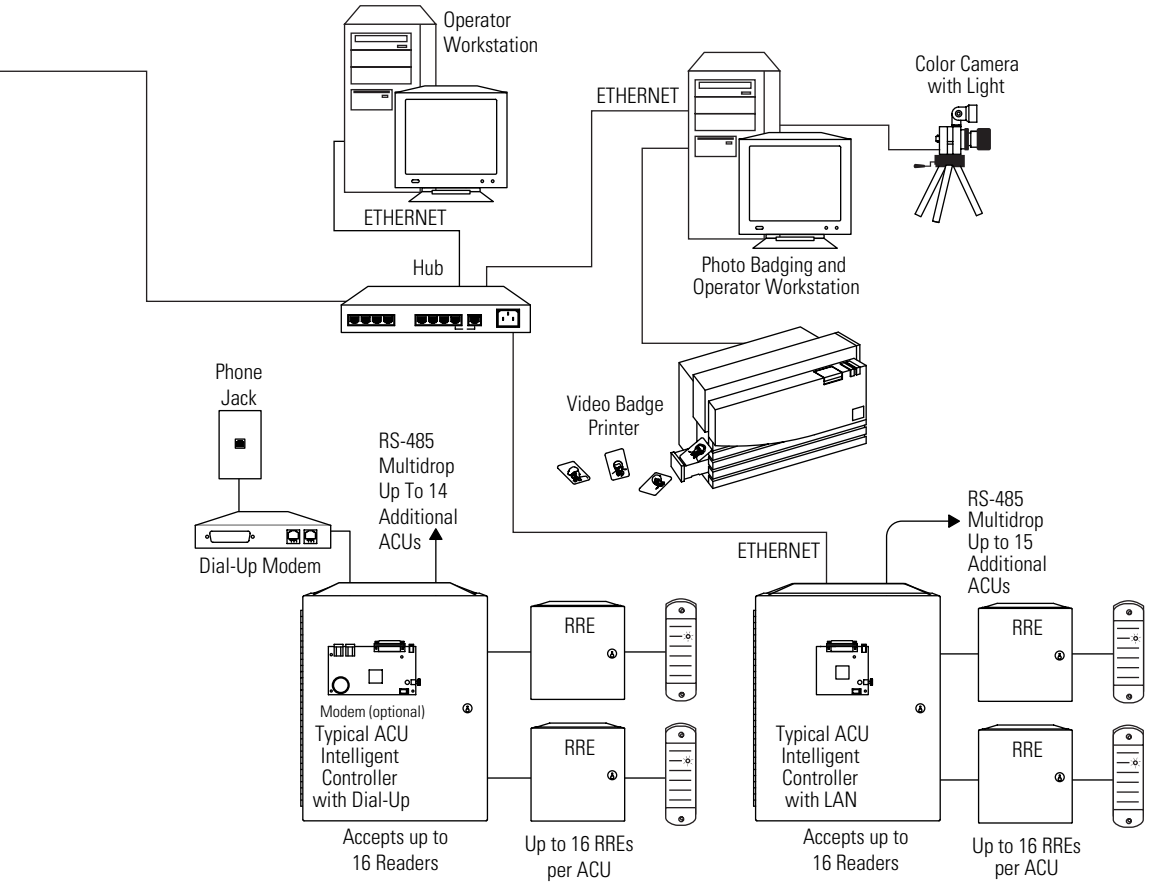


With an optimized system architecture, Diamond II has achieved several unique features, including:

- High-speed database replication and redundancy in small and large-scale global LAN/WAN/Internet environments.
- Open architecture ensuring the ability to quickly connect to third party software for a seamless integrated enterprise solution including database sharing, import and export capabilities.
- Highly secure, reliable control of access within the system through the use of Windows 2000, Secure Socket Layers (SSL) technology and other native security features.
- Cost effective system implementation with many options for connecting workstations and field panels.

Active Directory

For multi-server, hot redundant and partitioned database applications, the Active Directory provides multi-master replication, for all or a portion (partitioning) of the database within one server, or between multiple servers. For installations requiring exceptionally high reliability, full Active Directory replication between two servers forms the basis for a Hot Redundant system.



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Specifications

Maximum System Capacity

- Readers: unlimited
- Printer support: 256
- Time intervals: 8
- Security areas: 2,000
- Alarm inputs: 40,000
- Alarm priorities: 99
- Cardholders: 500,000
- Time Schedules: 255
- Holidays: 32
- Access groups: 2,000
- Relay outputs: 40,000
- Alarm categories: 32
- Operator groups: 1,024
- Action messages: 1,024
- Operator passwords: 2,048
- Total additional workstations: 128
- User definable cardholder fields: 128
- Access groups per card: 8 standard, 32 maximum
- Security areas per card: 8 standard, 128 maximum

PC Requirements

- Intel® Pentium® 4 1.8 GHz processor
- Windows 2000 file server operating system
- SQL server software (version 2000)
- Monitor resolution: 1024 x 768 pixels x 65,535 colors
- RAM: 1 GB minimum
- Video memory: 4 MB
- 3.5" 1.44 MB floppy disk drive
- 2 Serial Ports
- 2 Parallel Ports (1 required if only 1 printer is used)
- Hard disk space: 20 GB SCSI
- CD ROM drive: 20x
- 6 PCI slots (typical maximum)
- Matrox millennium G450 dual head SVGA accelerator card: optional
- SMC 1244TX 10/100 LAN adapter for ethernet (PCI bus)
- Adaptec model 2930-CU SCSI adapter
- Internal Orb 2.2 GB removable disk drive

Ordering Information

Part Number	Product Description
D2-64-SW	Diamond II 64 - standard server - SQL Server (ver 2000) and Windows 2000 Server required
D2-128-SW	Diamond II 128 - standard server - SQL Server (ver 2000) and Windows 2000 Server required
D2-256-SW	Diamond II 256 - standard server - SQL Server (ver 2000) and Windows 2000 Server required
D2-500-SW	Diamond II 500 - standard server - SQL Server (ver 2000) and Windows 2000 Server required
D2-1000-SW	Diamond II 1000 - standard server - SQL Server (ver 2000) and Windows 2000 Server required
D2-2000-SW	Diamond II 2000 - standard server - SQL Server (ver 2000) and Windows 2000 Server required
D2-FAC-CONFIG	Factory loading and configuration of software on user-supplied computer
D2-SVR-64	Diamond II 64 - standard server - configured with hardware and software
D2-SVR-128	Diamond II 128 - standard server - configured with hardware and software
D2-SVR-256	Diamond II 256 - standard server - configured with hardware and software
D2-SVR-500	Diamond II 500 - standard server - configured with hardware and software
D2-SVR-1000	Diamond II 1000 - standard server - configured with hardware and software
D2-SVR-2000	Diamond II 2000 - standard server - configured with hardware and software
D2-WKSTN-SW	Diamond II workstation software, Windows 2000 Professional required
D2-WKSTN	Diamond II standard workstation - configured with hardware and software

Additional Diamond II parts can be found in the price guide.

GE Interlogix
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