

www.GEsecurity.com

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 Security brings integrated security management for access control and alarm monitoring to a new level with Diamond II.

Diamond II is a leading-edge security system platform built on proven Microsoft technologies for advanced enterprise applications. Diamond II software is a client/server application designed for true multi-user preemptive multi-tasking operations, that fully leverages the power of today's state-of-the-art Intel compatible processor and hardware technologies.

Partitioned Database and Redundant System

The Diamond II system architecture offers a high integrity partitioned database option for medium to large global database applications. Individual card readers, alarms, and other devices in the system are easily assigned to a database partition. The system allows for flexible control of operator access to one or more partitions. Diamond II is also available in configurations that provide high-speed/high-integrity system redundancy.

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, desktop and file access. Diamond II application security 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, scalable 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.



Standard Features

- **Browser based interface**
- **Video imaging and photo ID badging**
- **Interactive dynamic graphics**
- **Flexible report generation**
- **CCTV switcher control**
- **User configurable cardholder/employee screens**
- **Architecture supports partitioned database and redundant system options.**

Diamond II

Sophisticated access control for global enterprise applications

Dynamic Interactive Graphics

Operators have full system control through the use of dynamic alarm, reader, relay and security area icons displayed on graphic maps. The user may create maps with links for full drill-down capability. 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.

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.

System Description

A fully expanded Diamond II system is capable of supporting over 2,000 readers, 250,000 access cards and 32,768 input/output points, while handling multiple concurrent tasks without impeding 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 operator workstations. Standard configurations of the Diamond II system will support up to 63 user-configurable clients per server, in addition to a client on the server.

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 (UDP/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: guard tour software, area loading/two-man rule software, SCIF software, digital video integration, intercom interface, server hot redundant software and radio paging software.

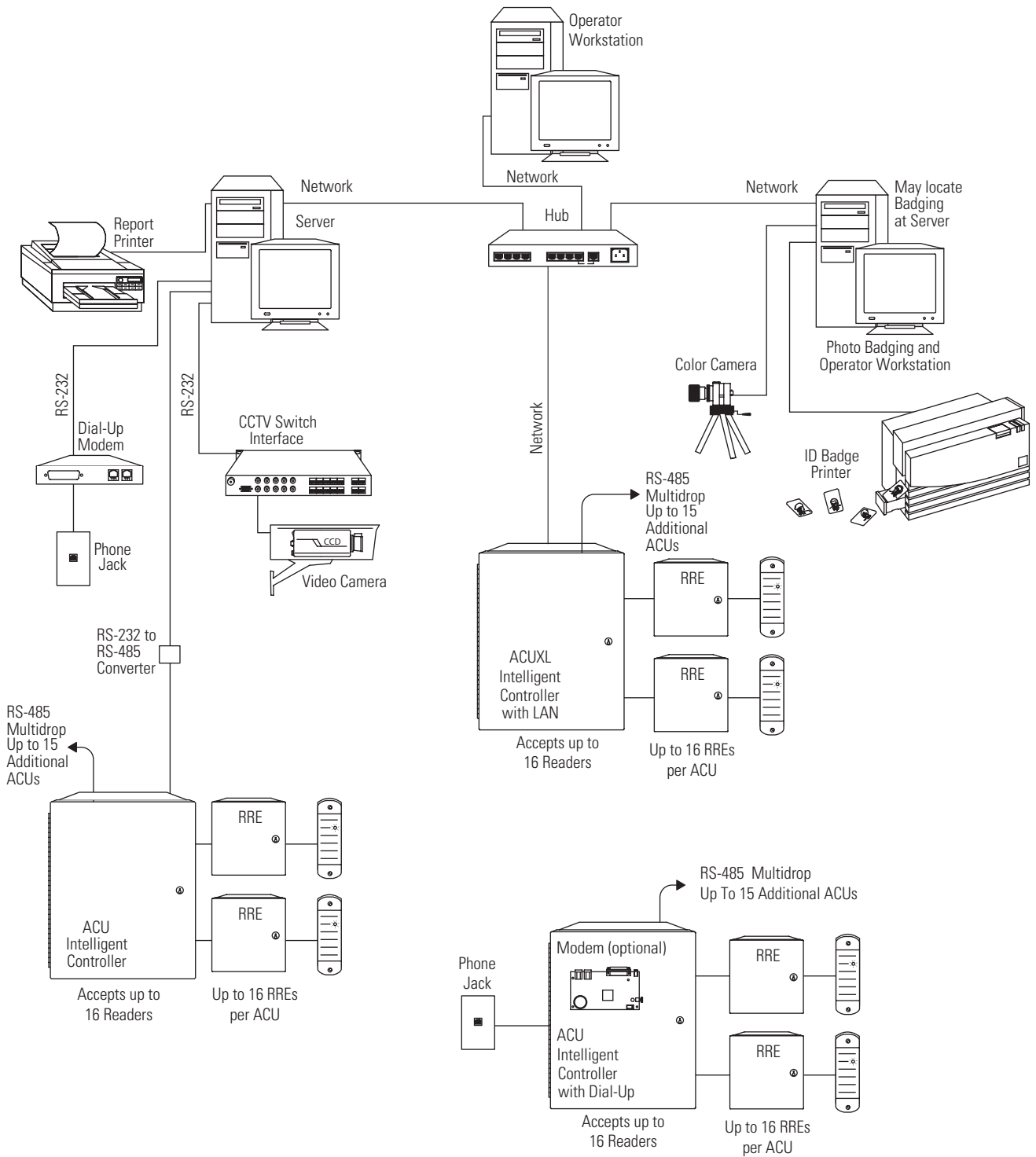
System Architecture

Diamond II utilizes Microsoft Message Queue, which provides reliable communication between servers across a variety of network topologies. Microsoft SQL Server provides fast and reliable storage of configuration data and historical logs. SQL also allows generation of extensive reports utilizing Crystal Reports runtime.

LAN connection is utilized between the server and workstations. Intelligent field panels provide access control in both on-line and standalone modes. Field panels can be connected to the system using a number of methods including LAN, RS-485 and dial-up.

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

- Options for connectivity with third party systems for an 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 and other native security features.
- Cost effective system implementation with many options for connecting workstations and field panels.
- High-speed database replication and redundancy in small and large-scale global LAN/WAN/Internet environments.
- Customizable interface that allows user defined fields to be added to the cardholder record.



Diamond II

Sophisticated access control for global enterprise applications

Specifications

Maximum System Capacity

- Readers: 2048
- Cardholders: 250,000
- Holidays: 32
- Security areas: 2,000
- Access groups: 2,000
- Alarm categories: 32
- Input points: 32,768
- Output points: 20,000
- Alarm priorities: 99
- Printer support: 128 (2 per client)
- Operator groups: 1,024
- Action messages: 1,024
- Operator passwords: 2,048
- Time schedules: 255 (8 intervals)
- Total clients: 63 (plus one on server)
- User definable cardholder fields: 64
- 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 server operating system (for Server)
- SQL server 2000 software (for Server)
- Windows 2000 or XP Professional operating system (for Clients)
- 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
- Disk space required: 20 GB SCSI
- CD ROM drive: 20x
- 6 PCI slots (typical maximum)
- USB port: 1 minimum for Software Sentinel
- LAN adapter card: Required
- Removable disk for backup



Enterprise Solutions, 791 Park of Commerce Boulevard Suite 100, Boca Raton, FL 33487
Tel: +1 (561) 998-6100 - U.S.A. Toll Free: 1 (800) 428-2733 - Fax: +1 (561) 994-6572 - Internet: <http://www.GEsecurity.com>