XAD Visual Building Security System Integration
• **XAD Visual Building Security System Goals**
  

• **XAD Visual Building Security Benefits**
  
  - Flexible & Versatile ALL-IN-ONE system structure / Access Control, Alarm, Video Surveillance, Time & Attendance, Point of Sale, and Central Control / Monitoring System
  - Alarm monitoring and recording capability for Local Buildings & Remote site
  - XAD allows building managers to monitor all operations anytime and anywhere
  - Supervisor can search video transaction data by any text data of Access control, Alarm, Visitors, Guard Tour, and Time & attendance system.
  - True facility protection, surveillance, and multiple sites remote monitoring security system.
  - XAD system supports Mifare Smart Card R/W solutions for Access Control, Debit Meal, and Time & Attendance system.
  - Mifare Smart Card R/W system supports value addition and subtraction functions.
  - Supports pre-existing 125 KHz Proximity Reader and card system for all applications.
  - Finger Biometric Time & Attendance Features. (Optional)
  - Multi-site remote real-time monitoring.
  - Associated Video Pop-ups can be recorded at local & remote sites.
  - Access Control, Alarm, and other transactions can be searched by text and motion.
XAD Visual Building Security Integrated Applications

One Card Solution with 125KHz Proximity / Mifare Smart R/W Readers

Access Control - Time & Attendance
  - Elevator Control - Guard Tour
  - Debit Meal - Visitor Management
  - POS - ATM
  - ID Badging Printer - IP/Analog Camera
  - Metal Detector - Alarm

Enterprise Level Expansion Capability

Multiple Clients
  - Remote Clients
  - IE Browser / Smart Phone

Supervisor

CMS Station with Pop-up Videos

Redundancy Storage Back up

Administrator

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XAD Visual System VS. Conventional Middleware Solution

**XAD Visual System**

- Integrated Internal Modules
  - Access Control up to 128 doors
  - DVR / Hybrid NVR
  - Elevator Control
  - Time & Attendance
  - Visitor Management
  - ID Badging
  - Video Surveillance

- Integrated External Modules
  - POS
  - ATM
  - EAS System
  - Metal Detector

**Conventional Middleware Solution**

**Unresolved Problem**

- Server Burden
  - Video Encoding & Decoding & Conversion
  - Database Indexing
  - WAN & LAN Operation

- Extremely High Cost

**IT Professionals Require for Installation & Maintenance**

- 6~7 Programs Running
  - $40,000 ~ $60,000 + Server Cost

**Components**

- DVR $5,000 ~ $7,000
- NVR $6,000 ~ $8,000
- CMS $15,000 ~ $20,000
- Access Control $1,500 ~ $2,000

**Low Maintenance & Operation Cost**

- CMS (Free Version to start with option to upgrade)

**High Maintenance & Operation Cost**

- Server
- DVR
- NVR
- CMS

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• Deployment Example

- For local offices, XAD standalone DVR, XAD 8/16/32 Visual Access System can be installed depending on the levels of security and Central Control / Monitoring site & Corporate Headquarters to support the local & remote recording.
- XAD is a Convergence system that allows to utilize both analog and Megapixel IP cameras (Axis, Arecont Vision, Acti, Cynix, Pixord, etc. Protocols are embedded)
- XAD’s four remote monitoring software provides a perfect fitting for the customer’s need of real-time monitoring; CMS, Remote Client Software, PDA Client Software, and through IE Browser.
- Off-Duty office manager can monitor the facilities at anytime and anywhere.
- All security system transactions can be search by text from local & remote sites.
- Motion detection & Specified area motion can searched.
- All associated video clips from access control transactions can be saved at local & remote sites.
- XAD system provides two audio communication through internet, and it can be used as a communication tool between Headquarters & local offices.
- Effective user control of the system can provide various levels & flexibilities using ID & Password
**XAD Hardwire Connection Diagram**

- XAD Access Control DVR Connects up to 128 XAD Units
- Connects up to 128 Doors
- 8 / 16 / 32 Cameras per XAD (IP / Analog)
- 8 / 16 / 32 Audio Inputs Per XAD 1st Channel 2-Way Audio
- ID Card Printer
- TCP / IP Switch
- Access Control Database
- Video Database
- XAD Clairvoyance (Central Monitoring Software) for XAD Units
- Remote Clients/ Web Based Monitor
- ATM
- POS
- Elevator
- Door Lock
- Exit Button
- Reader
- ITDC 4 Door Control Panel
- ITDC EL Elevator Control Panel
- 15 Inputs & 15 Relay Outputs
- LAN/WAN TCP/IP

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XAD Visual Single System Diagram

Remote Management

XAD Clairvoyance/ CMS

VIDEO REMOTE CLIENT

IE BROWSER

XAD Clients

ACCESS & LIFT CONTROL CLIENT
TIME & ATTENDANCE CLIENT
VISITOR MANAGEMENT CLIENT
ID BADGING CLIENT

XAD SYSTEM

ID BADGING PRINTER
ATM
IP CAMERA
Up to N
ANALOG CAMERA

Up to N
READERS & DOORLOCKS

Up to N
READERS

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XAD Applications

• Elevator/Lift Control
  - XAD System provides Elevator/Lift control with ITDC Elevator Controller.
  - Accessible floor can be configured for each individual ID card holder

• Time & Attendance
  - Efficient HR management system with fundamental time & attendance features.
  - Effectively preventing proxy attendance by using card, PIN pad and fingerprint readers

• Visitor Management
  - Visitor’s detail record and track their visiting data
  - With automated deletion, It controls access specified date & time for each individual

• ID Badge Creation & Printing
  - Advanced ID Badge Creation & Print feature will provide high quality badge printing and ID badge creation tools.

• Advanced POS/ATM Interface
  - Search the associated videos by text and conditions
  - 70 popular POS/ATM communication modules embedded
• Features

XAD Redundancy Backup System Solution provides true meaning of intelligent redundancy backup. XAD Redundancy Backup System will enable to re-route the videos automatically and take over failed system.

XAD Redundancy Backup System is fully scalable, redundant and interoperable with most existing analogs systems. Designed for ultimate scalability, the XAD Redundancy Backup System can host an unlimited number of video inputs.

Redundancy
Integrating the Redundancy technology, the system is capable of automatically detecting video, network, or power problems and immediately re-route the video signal so that not a minute of video recording is missed.

Interoperability
Designed to be integrated with most existing analog systems, you can integrate the system partially or in entirely.
XAD Visual Building Security with Dual Monitor Operation

- XAD Visual Access Dual Monitor Operation Screen
  - XAD Dual Monitor Operation provides associated video files for Access Control Events and Alarms, and full features of Video Surveillance.
XAD Visual Building Security with E-Map and Door Control
XAD Visual Access Text Search Screen

- XAD System allows to search the associated video files by text and area motion from the CMS, local, and remote systems.
- Searchable Video files by User Name, Card Number, Door Name, Department, Time, Date, and etc.
• Central Monitoring System Screen
  - All Access Control event, Alarm data, and other transaction video files via Internet are being recorded, stored onto the remote CMS Server.
  - The Clairvoyance Server provides 49 split screens per monitor up to 4 monitors per CMS with total of 196 screens
Central Monitoring System (Multiple Monitors)

- **XAD Clairvoyance Remote Monitoring**
  - Up to 255 Customizable Monitoring Screen
  - Event Video Pop-up
  - Video Log feature (Using DB)
  - Video Stream Recording
  - Up to 1000 Remote monitoring sites
  - Two-way Audio feature
XAD Visual Building Security System Scalability

POS / ATM Interface
- Samsung, NEC, NCR, Diebold and 70 other Protocols

IP / Analog Video Surveillance
- Axis, Arecont, Acti, Cynix, Pelco-D, and More

Biometric Reader

Central Monitoring Station

Access / Elevator Control
- Cell Phone
- Biometric Reader
- iTDC Controller
- Parking Gate
- ID Badging Printer
- Long Range Reader
- EAS System
- Metal Detector
- Elevator Controller
- Door Lock
- Alarm

Time & Attendance

POS

ATM

IP Camera

Analog Camera

Client

Client
• **Purchasing Point**

- The Cutting-Edge Convergence video surveillance system technology that provides text search feature of Access Control event / alarm data.
- One System Solution for all IT integrations.
- Simple installation and Easy to operate the system
- The most versatile remote management tool available.
- Meet customer demands with a flexible budget and low maintenance cost.
- Fits to customers’ needs with modulated add-ons, such as Elevator control, Time & Attendance, Debit Meal, Visitor Management, ID Badging, POS, Access Control and ATM.
- Expandable & Scalable to the enterprise level of security solution.
- The most efficient flawless performance total security solution for Buildings.
The XAD Visual Access DVR, Access Control Video Surveillance Management System contains full of access control system features and high-end customer application features, as well as Point-of-Sale, ATM interfaces onto the DVR. Moreover all modulated optional Time & Attendance, Visitor Management, Elevator Control, and ID Badge Printing systems’ software are available from the XAD.

- The true facility protection & surveillance, and multiple sites remote monitoring capability system
- A single operation System platform for Access Control, Video Surveillance, Time & Attendance, ID badge printing, Elevator Control, Visitor Management, and POS/ATM
- One XAD system supports up to 32 video cameras and 128 access control doors
- Server is not an option for application S/W integration for Access Control, Video Surveillance, and Alarm Monitoring
- Single / Dual / Triple Monitor operation mode support
- Multiple simultaneous pre-defined alarm / event video pop-up, maximizes video surveillance
- Searchable digital data transaction and video files with watermarks technology
- IP Camera and Analog Camera Connectivity as a hybrid NVR

- Unlimited system scalability, unmatched performance and stability
- Supports Small, Medium, and Enterprise level of system integration
- Over 1,000 remote sites monitoring capacity through Central Monitoring System anywhere around the world
- Able to utilize and maximize the invested pre-existing security cameras, readers, and cards
- No Direct Competitors in the market
- The ONLY Cutting Edge Access Control Video Surveillance Security & Management System
**ITDC Standalone / Network Access Control Panel**

ITDC 2 / 4 Door Controller is a small and medium sized, intelligent field programmable Standalone / Network access control panel. It supports 26 bit Wiegand or higher reader input formats, ABA Track II, and Mifare Smart Card reader inputs. ITDC 2 / 4 Door Nema Pack has an integrated tamper switch, 3 LEDs for system status indication on the front cover, one 4 door controller board, one EIO88, and two maintenance-free 3 Amp power supplies in the heavy-duty steel enclosure.

- Dynamic Control of Memory up to 50,000 Users / up to 29,500 Event Buffers
- Standalone / Network Communication via RS232 / RS422 / RS485 (Max.255ch), TCP/IP (optional)
- 26 bit / 34 / 37 Wiegand format Proximity Reader connectivity
- Independent 15 Inputs and 15 Outputs including 4ea of 2 Form-C Relay Outputs
- Anti-Pass back, Duress Mode support
- 3 LEDs for power, communication status on Nema box
- Up to 4 hours System Operation with Redundant power back up
XAD Visual Access Compatible Products

125 KHz Proximity Readers / Cards

125 KHz high security, digitally encrypted proximity card readers for use with both passive and active proximity cards. It has a read range of 4 inches with passive cards (IDC170, IDC80). It is architecturally designed to mount on wood or metal door frames (mullion), and Single Gang box (Wall Mount) and operate with consistent performance and reliability in a durable and scratch resistant polycarbonate housing, which allows for easy installation.

- Full epoxy potting ensures successful operation even in harsh environments. IP65 / IP66
- Read Range up to 4 inch / 12 inch / 18 inch
- Standard 26-bit Wiegand and/or higher Wiegand format RS232 and ABA Track II Output Format
- Vandal resistant poly-carbonate housing
- External LED and Buzzer Control
- 100% weather proof & waterproof Out Door Use
- UL, CE, FCC approved, ROHS compliant
- Reverse Polarity Protection, Supervisory Signal
- Life time Warranty for the Readers / Cards
Finger Biometric Readers

Our Finger Biometric Series of Readers are intelligent field programmable Standalone / Network Access Controller based on dual microprocessors, designed for the highest security access control and Time and Attendance (TA Version) with built-in 4” proximity reader, keypad, and fingerprint module with solid optical sensor for high reliability as well as easy operation.

- 1,000 / 2,000 / 4,000 Fingerprint Users accommodating 26,000 Event Buffers
- 1:1 Verification and 1: N Identification
- Identification Method: by PIN Key (default) by Auto Touch Sensor
- Finger / Proximity Reader / Pin Pad Individual Operation Mode or Any Combination Mode supports
- Standalone / Network Communication via RS232 / RS422 / RS485 (Max.32ch), TCP/IP
- Supports standard 26 bit Wiegand Output and/or higher, RS232 and ABA Track II Output Format
- High Protection from Scratch and ESD (Electro Static Discharge)
- Dual Function for Access Control and Time & Attendance
**RF245 Long Range Reader with IDA245 Battery Replaceable Tag**

- 2.45GHz Long Range Reader
- Up to 33’ Reading Distance
- Multiple tag identification (30 tags/sec)
- Directional Antenna for Multiple Lane Coverage
- 26-bit Wiegand or higher, and RS232 Output Format
- Life Time Active Tags with Replaceable Battery
- Direct Bar gate Output (Open Collector: 1sec)
- OTR (One Time Reading) and HOLD Control Input
- FCC, CE & RoHS Compliant Device

**Images:**
- RF245 Long Range Reader with IDA245 Battery Replaceable Tag
- Diagram showing Parking Control (Island)
- Diagram showing Multiple Gates with OTR & HOLD Control
Digital Identification Solutions

The Digital Identification Solutions Group is a global leader in providing ID card and high security identification solutions through the well-known brand name EDIsecure®. We are ideally positioned to serve the needs of companies, associations, government authorities, financial institutions, and other enterprises around the world by providing them with the perfect identification solution.

Product Lines

Value Line

The Value Line consists of the EDIsecure® the single-side, edge-to-edge EDIsecure® DCP 240+ Direct Card Printer and the double-side, edge-to-edge EDIsecure® DCP 340+ Direct Card Printer.

Professional Line

Our Professional Line printers are designed for more demanding ID applications such as smart card personalization, ranging from card printing and inline encoding to high-speed ID production with inline lamination.
RF Logics Partners

**ACCESS CONTROL MANUFACTURERS**

RF Logics offers OEM branded products to all access control manufacturers at preferential pricing.

**INTEGRATORS**

Access control is the core of the integrator’s offering and RF Logics offers a complete “one stop shop” for RF Card Readers, Smart Card Readers, Cards, and an unparalleled range of Biometric Devices.

**DISTRIBUTORS**

RF Logics offers a complete range of Stand alone Readers and Biometric Devices for small installation.
Future Technology, Available Today.

Thank you.
For additional information, please visit www.RFLogicsinc.com