



COMPLETEVIEW

A total Banking Security Solution

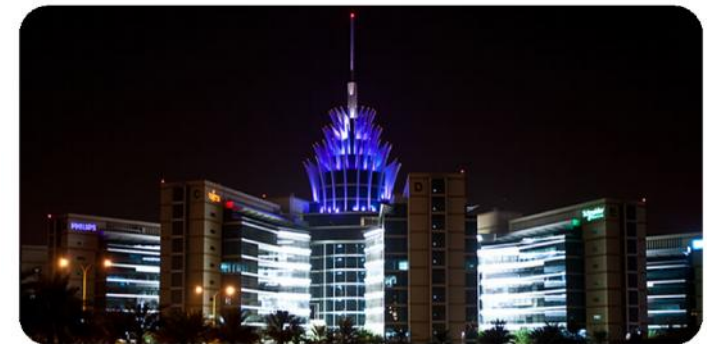
www.AISecuritySolutions.com
www.OrionSystems.com

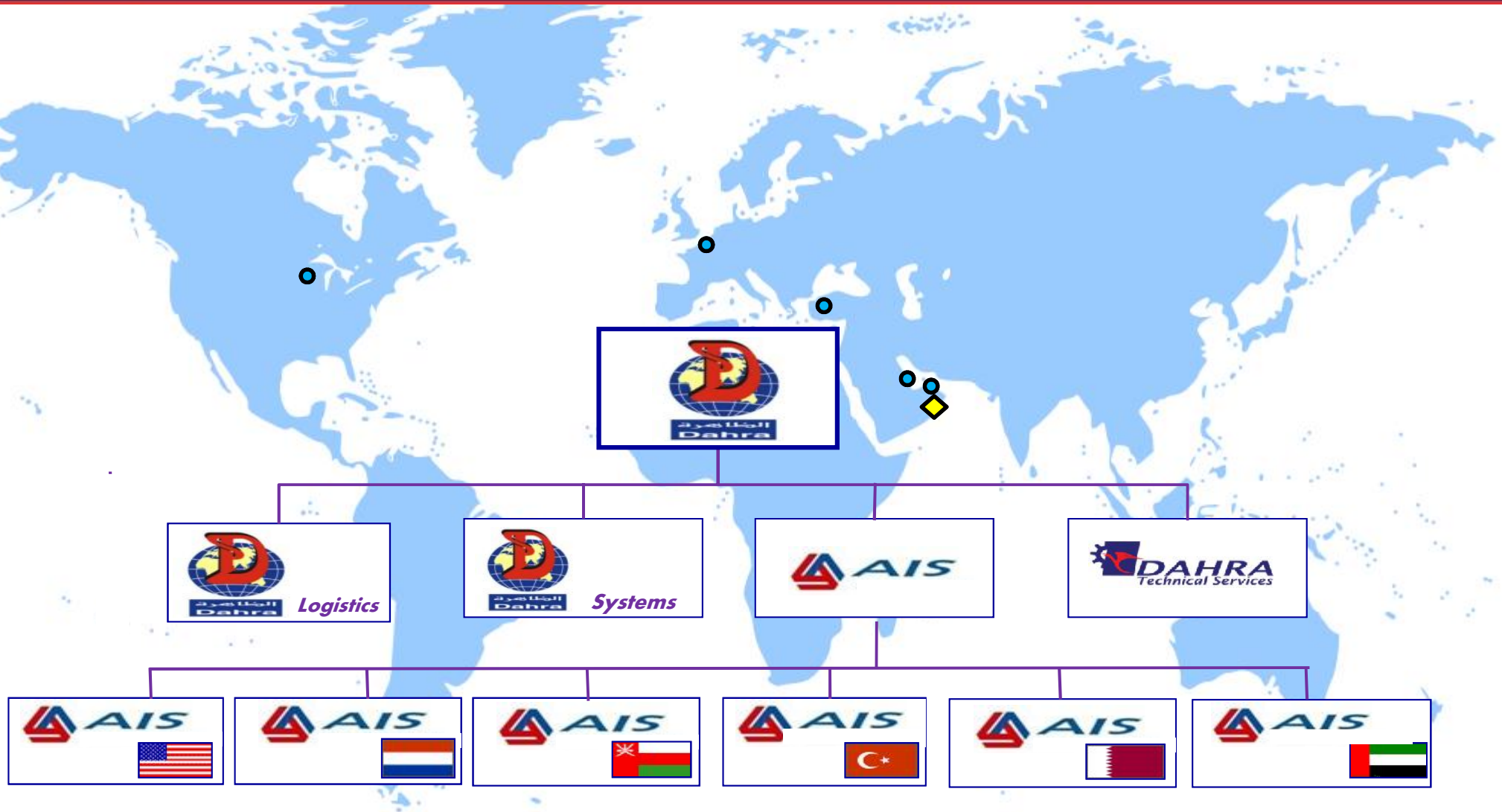
- ⦿ AIS - a GCC **Defense & Security Solutions** company.
- ⦿ Allied International Support in Business for >10 yrs.
- ⦿ In Defense, Aviation & Security sectors
 - ✓ Supply Chain Management
 - ✓ System Integration Support
 - ✓ Defense Program Management
 - ✓ Integrated Security Solutions
 - ✓ Integrated Training Solutions

AIS Oman - Ruwi



AIS International – Dubai Silicon Oasis





The only Omani defense and security company operating outside of Oman

We engineer solutions for the most challenging security problems....

One of the fastest growing security companies in GCC:

- ✓ Over 30 key customers
- ✓ Over 250 major OEM's represented
- ✓ Real value-added services
- ✓ True commitment to local skills development



Key Partners:



Key Capabilities:

- ✓ Critical National Infrastructure Security
- ✓ Coastal / Port Protection, Port Management
- ✓ VIP Protection & Security
- ✓ Banking Security
- ✓ Military Base Security

Key to Success:

- ✓ Thorough Understanding of **Customer Mission** / Security Threat
- ✓ Diverse Workforce with Strong **Program Management**
- ✓ Dedication to **Customer Support** through project life cycle

• Mix of **Ex-Military** (*Oman, Europe, North America*), **Engineers & Logistic Support** specialists

• ISPS – Port Security Officer Certified

• PSIM Solution Engineer certified, IP Security Engineer certified



SECURITY DESIGN & CONSULTANCY

Our team of military experts, system engineers, and program delivery specialists are able to design a security solution tailored to your specific needs.

MAXIMUM PEACE-OF-MIND

AIS will undertake a full **evaluation** of your exact requirements, carry out **site surveys**, produce detailed reports, technology specifications and drawings to design a **complete security solution**.

SECURITY TRAINING & DEVELOPMENT

Our diverse team will design & implement tailored Security Training to national and international standards covering all aspects of safety & security, optimal use of technology, and tactics.



Requirements Capture



Technology Assessment



Detailed Design



Integrated Project Team

We have the resources and expertise to provide a turnkey solution for any complex security application: from large scale military, commercial, industrial and border security to local and VIP security.



Airport Security

wide-area surveillance
multi-layered security approach
full airport operations maintained
access control and screening



Port Security

Maritime & land surveillance
access control and screening
intrusion detection multi-layered
security



Border Security

x-ray & baggage screening
container screening and tracking
narcotics & explosives detection



Banking Security

intrusion detection
ID and access control
cyber security
transaction security



Oil & Gas Security

On-shore & Off-shore protection
ID and access control
day/night persistent surveillance
continued operation



VIP Security

protection of VIP palaces
perimeter security of aircraft
Personnel & vehicle security

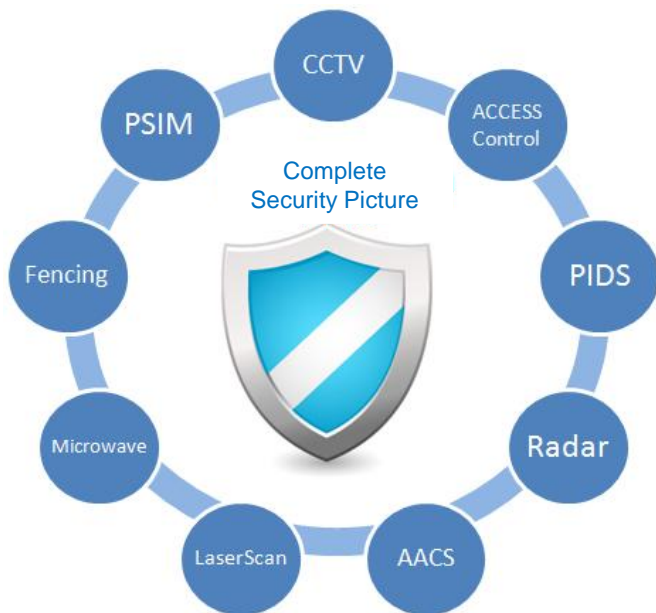


AIS is an Oman-based highly specialized provider of complete Security Solutions for all high-value infrastructure.

AIS has a team of world-class highly-skilled systems designers, security personnel and engineers each experts in their fields.

By selecting best-of-breed technology and combining with expert security knowledge, we are able to design and install an Effective Security Shield for Physical & Electronic Security.

This applies fully for **Bank Security**.



AIS Security & Orion Systems agree partnership to provide **COMPLETE VIEW™** to Banks

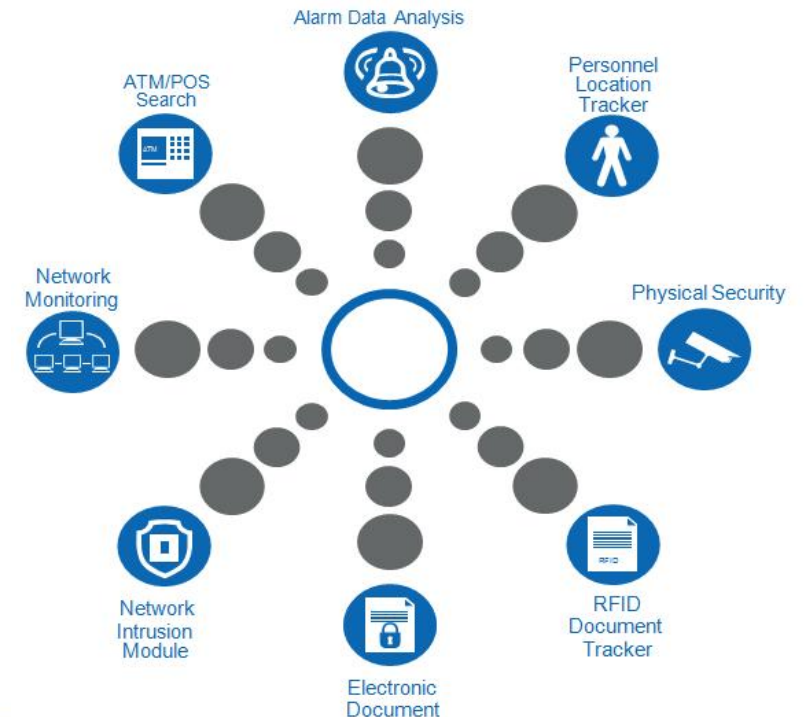


Orion Systems is a world-class software Integration Company headquartered in the Middle East.

Orion's philosophy is Total System Information Management (**TSIM**) as both a practise and a methodology.

TSIM is the integration of the data from Disparate enterprise operational systems into user-specific and relevant information that can be provided and displayed in different formats for different users, through a **single window**.

This applies fully to **Bank Operations**.

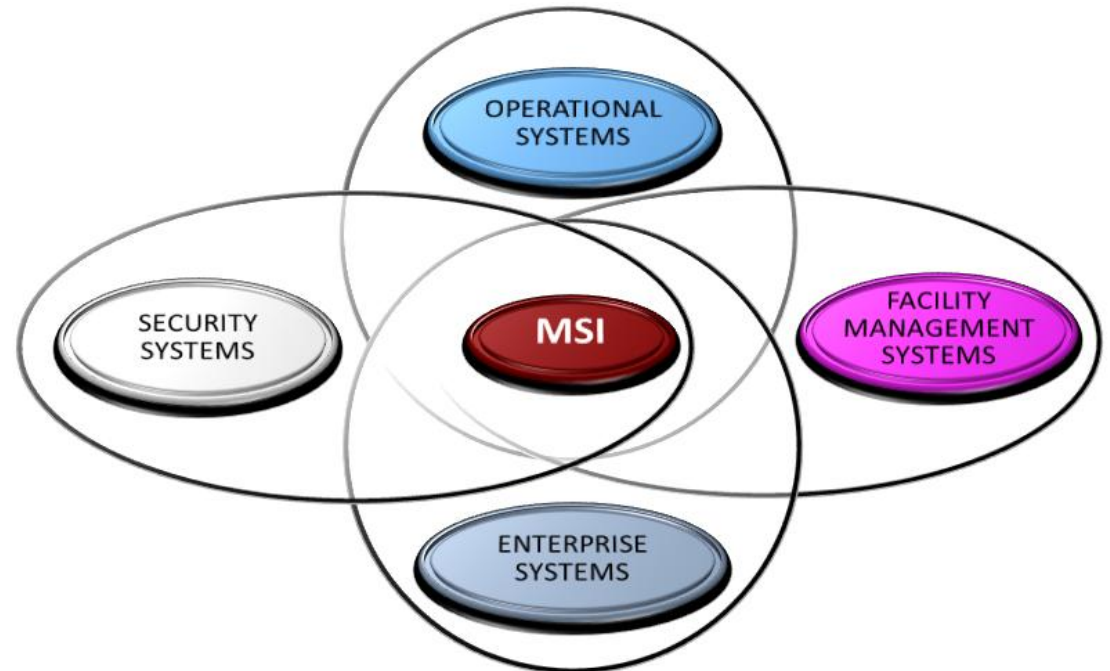


- ❖ Orion Systems grew out of CIMAC – the largest systems integrator in the Middle East – operating since 1971.
- ❖ Tony Durnford, Chairman sold CIMAC to Schneider Electric in 2010.
- ❖ Orion Systems is a Master Systems Integrator in security, banking, utilities, transportation, facilities, oil & gas.

Total Situational Awareness and Control
through
Total System Information Management



Total System Information Management



Honeywell Multi-Tier Integrator



Convergence Systems Limited



Matrikon OPC Gold Partner



1st Choice Security Solutions



CNL Master Integrator



Intellex



Oracle Gold Partner



Nedap 1st



Microsoft Partner



Sivix



Cisco Partner



Sirit



ETSI – European Telecommunications Standards Institute



ISO – International Organization for Standardization



TRA – Telecommunications Regulatory Authority



ASIS – Advancing Security Worldwide



LPRA – Low Power Radio Association



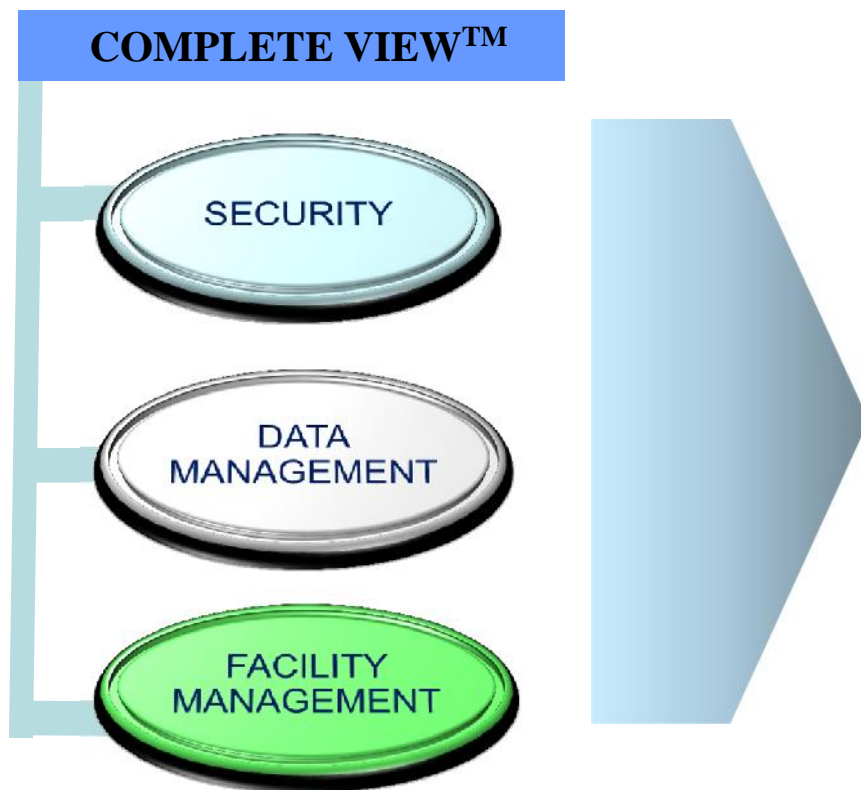
GS1 – Global Standards 1



Traditional Security solutions focus mainly on physical defence.

Risks banks face daily basis have evolved. Expanded to include threats to People, Data, IP as well as traditional assets such as buildings, plant and equipment, materials and products → needs **Common Operational Picture**.

COMPLETE VIEW™ platform integrates the **Security** (physical + electronic) with **Data Management** & **Facility Management**:



Presents a **Common Operational Picture**

- a single display providing total situational **awareness** and **control**



SECURITY

Physical Security

Total multi-layered physical security: inside & outside

ATM/POS Transactions Search

Total management of ATM transaction with video footage, time-stamp, transaction details, branch code, ATM ID

Security Alarm Data Analysis

Rules-based Analysis & Data-optimization for Security Team

Personnel Location Tracker

Leverages mobile infrastructure to provide personnel situational awareness

DATA MANAGEMENT

RFID Document Reader

Controls the movement of documents within bank & between branches

Digital Document Protection

Automatically advises when documents are opened and by whom

Network Management

Network Monitoring & Intrusion

Management Information

Employee monitoring, illegal logins, excessive and width, keyword usage on internet, etc

FACILITY MANAGEMENT

Common Picture for Building Management Facilities

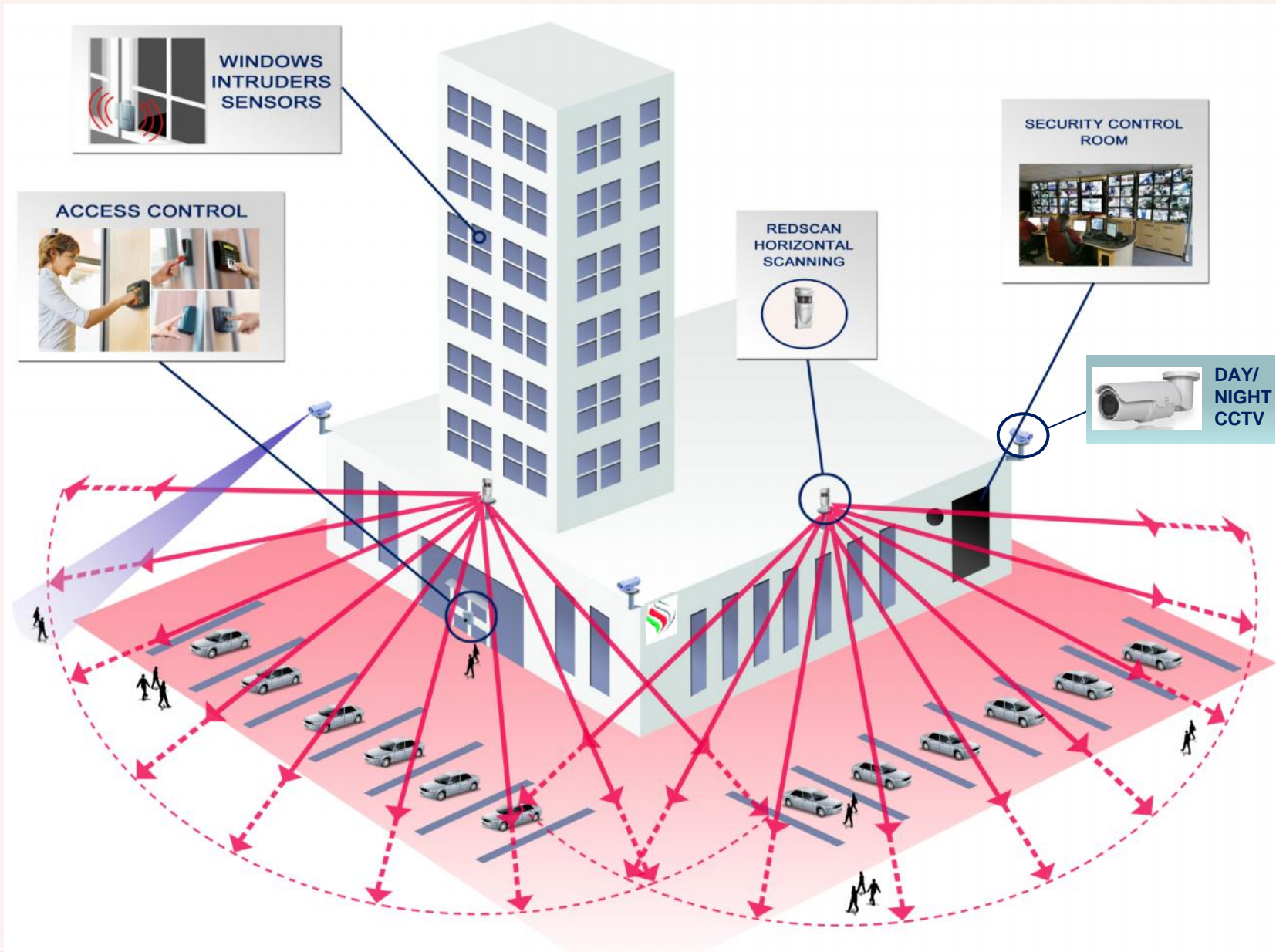
HVAC, Lighting systems, Power Mgt, Fire Alarms, Access

Interface into SCADA Systems

Management of LAN, WLAN
Bank Communications

MULTI-LAYERED PHYSICAL SECURITY FOR BANKS

- Access Control
- CCTV
- Thermal – Day/Night
- Perimeter Detection Systems
- LaserScan
- Intruder Detection Sensors
- Security Gates
- Explosives Screening



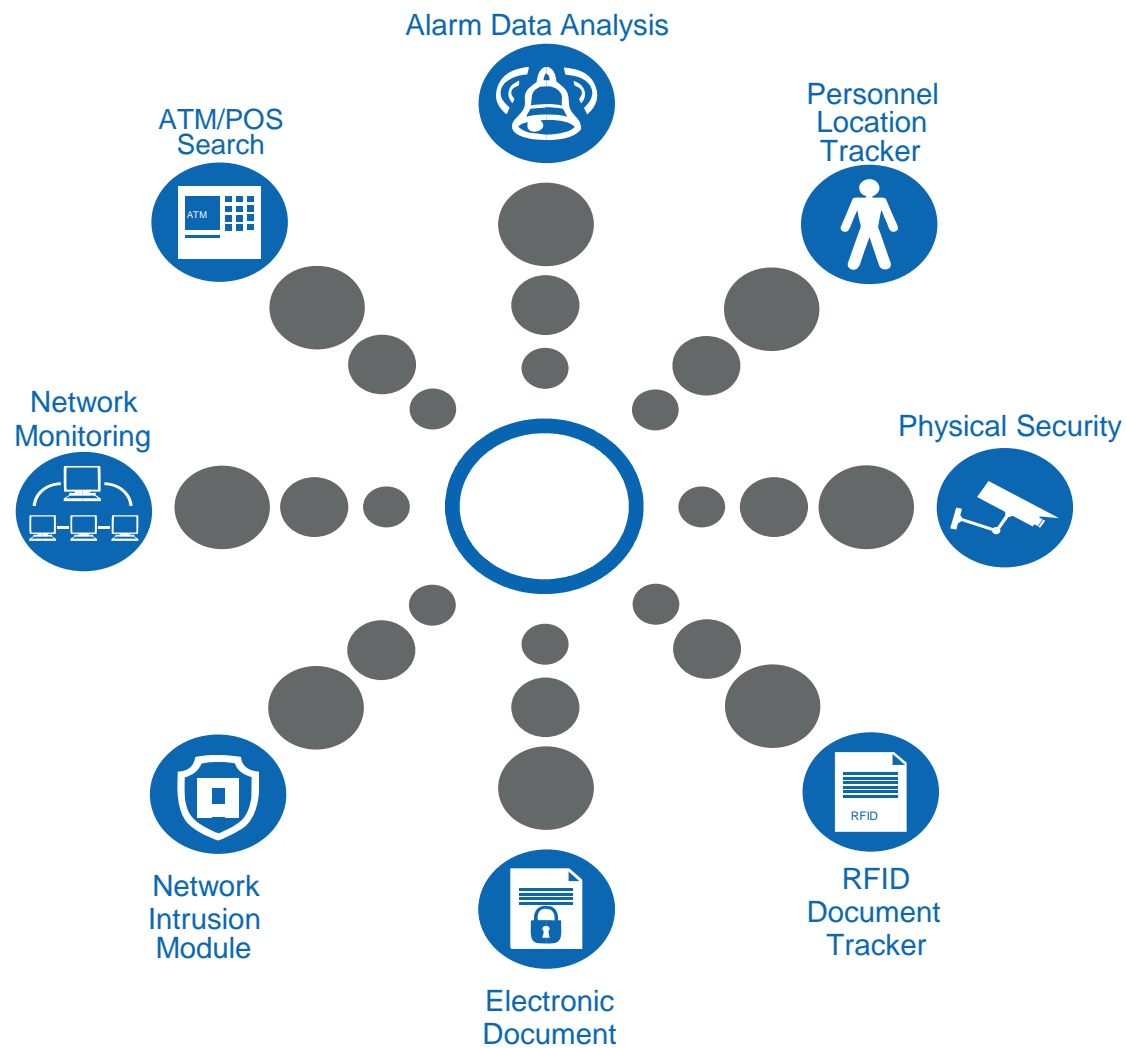
COMMON OPERATIONAL PICTURE

- ✓ Multi-Site
- ✓ Multi-Layered
- ✓ Multi-Sensor

MULTI-LAYERED ELECTRONIC SECURITY



Going beyond physical security **COMPLETE VIEW™** brings previously disparate information together into a Common Picture



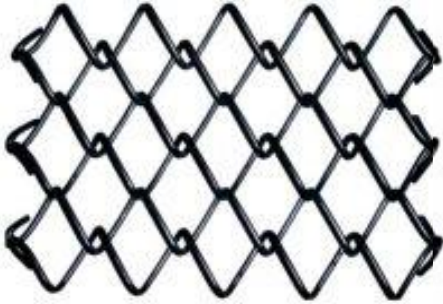
COMPLETE VIEW™

BANK SECURITY



Complete Fencing Solution around bank facility

High-Security Chainlink/ Diamond Fencing



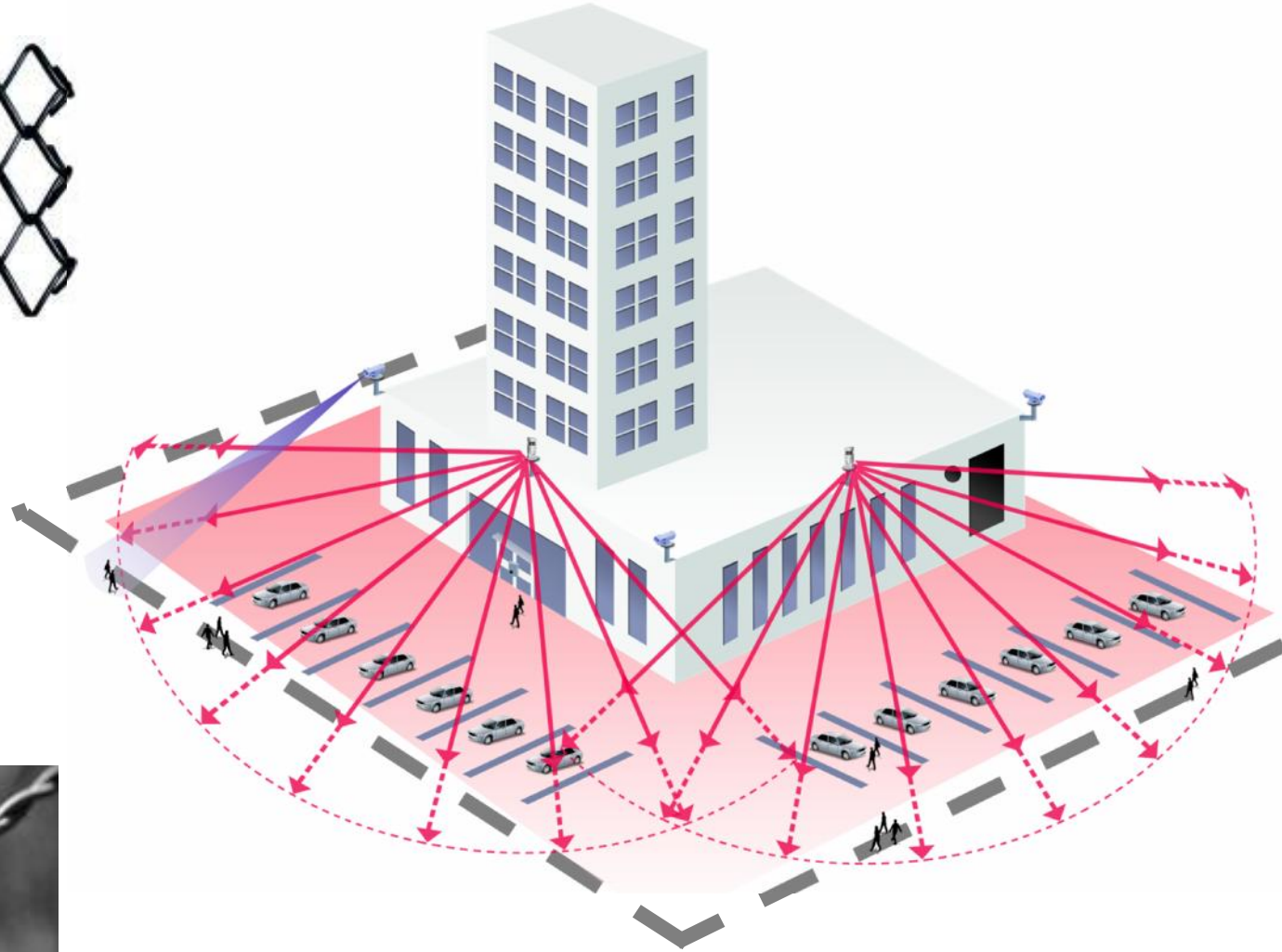
High-Security WeldMesh Fencing



Anti-climb
Anti-cut
Flat panels



Galvanised/ PVC-coated
Concrete embedded posts
High-Integrity galvanised Barbed Wire



High-Integrity Crash-proof Security Gates

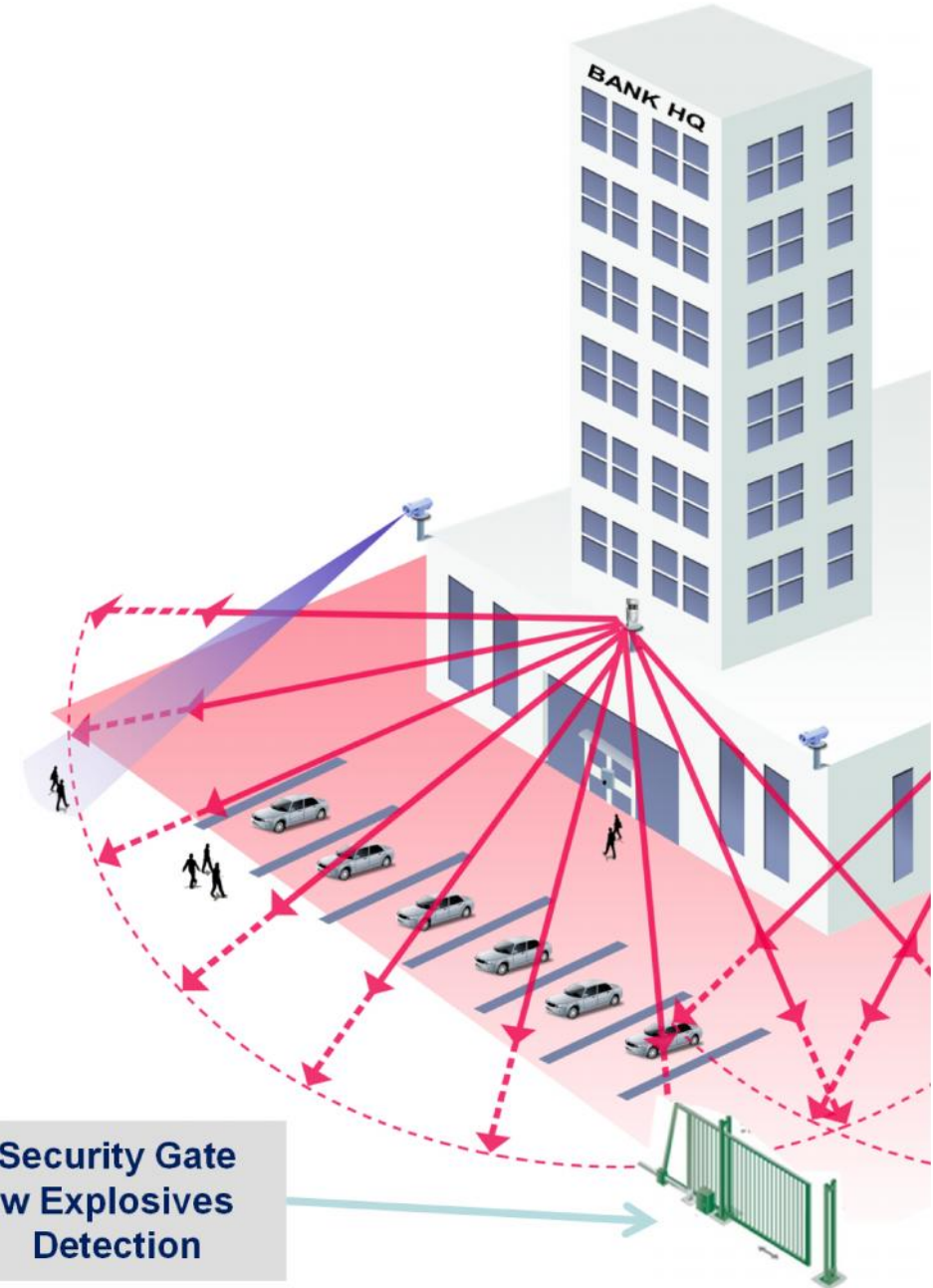
Automatic Sliding
Rolled Steel, Galvanised
Crash-resistant



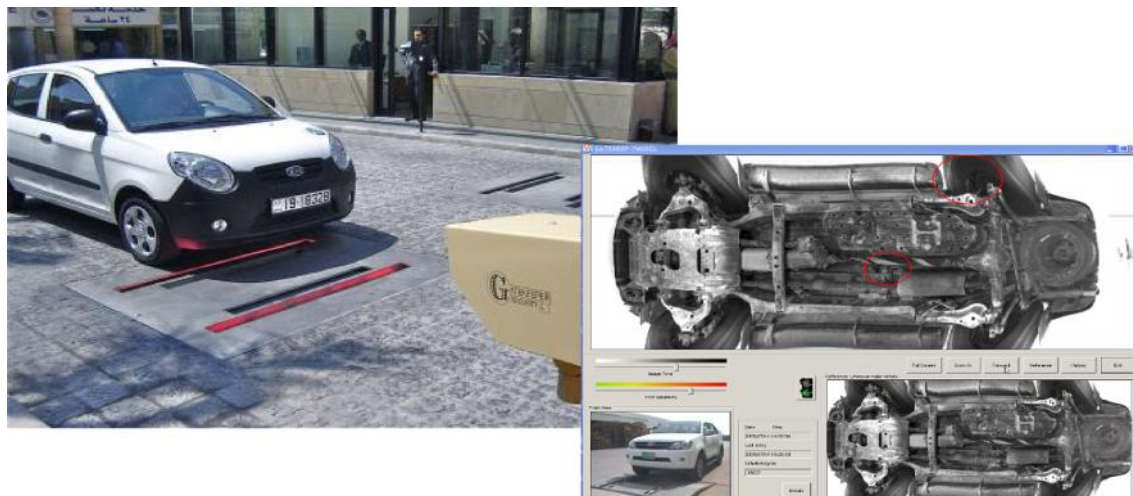
Gates at main entry to Bank



Bollards & Crash-proof Vehicle Arrestors



Under Vehicle Screening System (UVSS)



Rapidly & Automatically identifies any threatening objects to the underside of vehicle & raises alerts to Security Room.

Integrated with Security Screening Procedures.

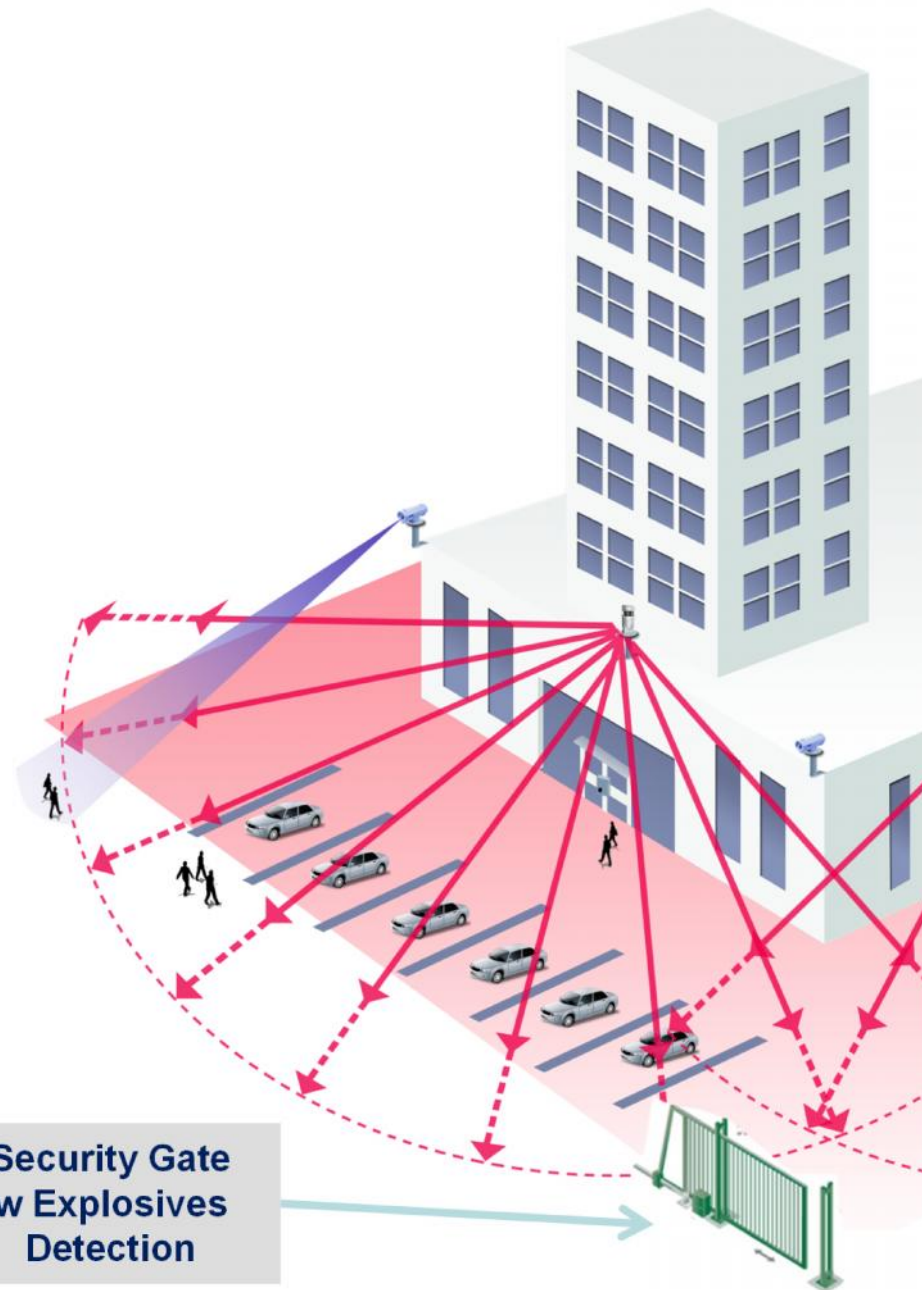
Automatic License & Driver Face Detection & Recording

Automatic licence plate detection for all vehicles entering site

Capture of Driver Face

Knowledge of which vehicles & persons inside site

Storage/ Recording of Data and Playback



Perimeter Intruder Detection via LaserScan

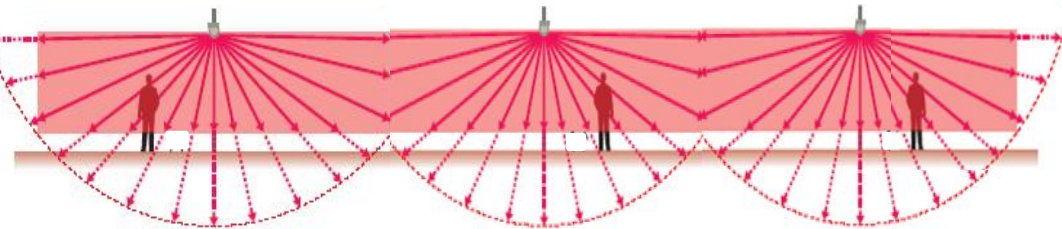
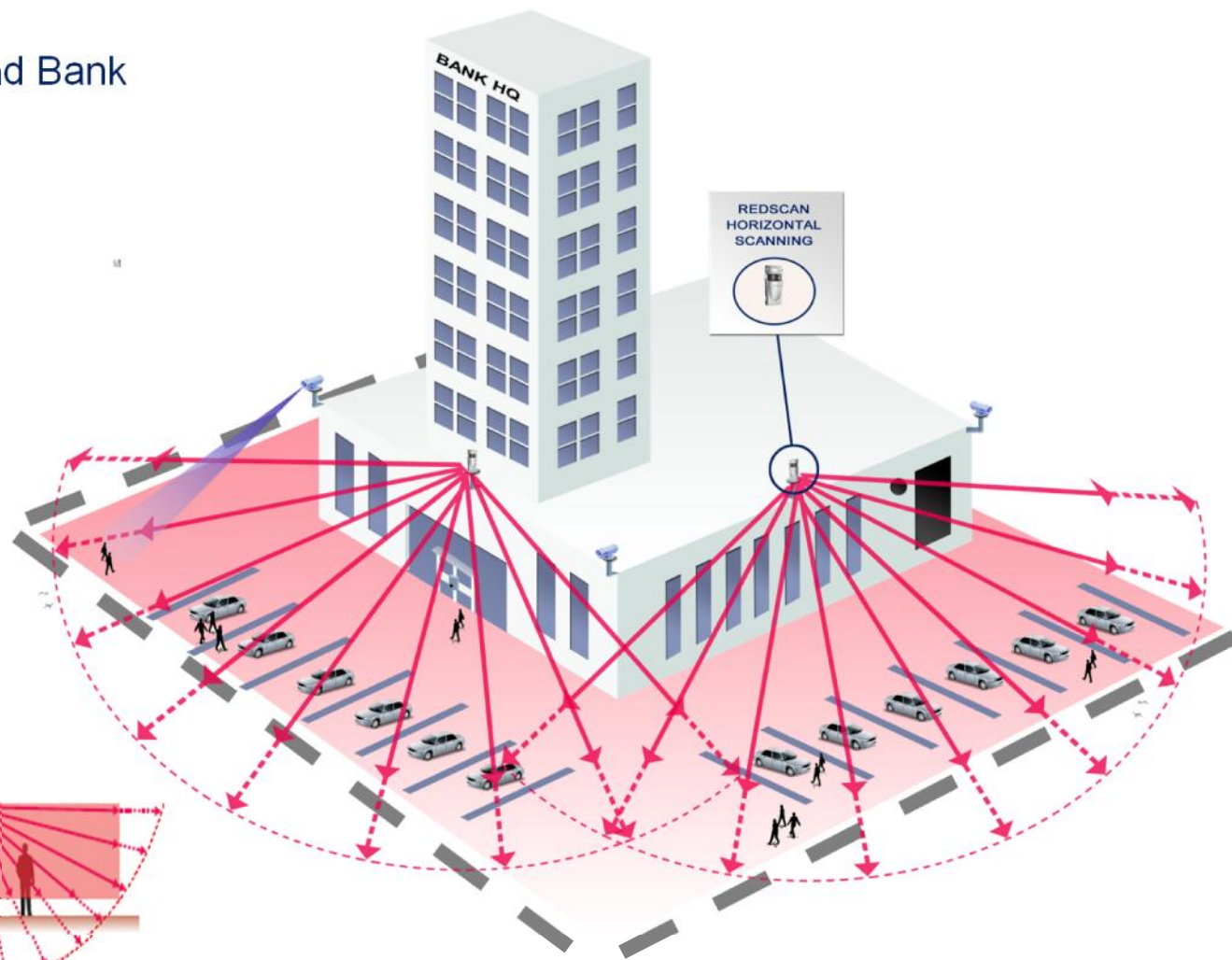
Creates Seamless Electronic Fence around Bank

- 100% protection – all weather
- Only one discrete unit on each wall
- Detection range is 100m around bank day & night

→ Cues CCTV camera for positive identification of target day & night



An Invisible Detection Shield around Bank



Perimeter Intruder Detection System (PIDS)

Fence Vibration Sensors for intruder detection:

- Provides exact location of intruder on fenceline
- Exact location indicated on geo-spatial map
- Climbing fence/ cutting triggers alarm
- Designed for operation in extreme environment



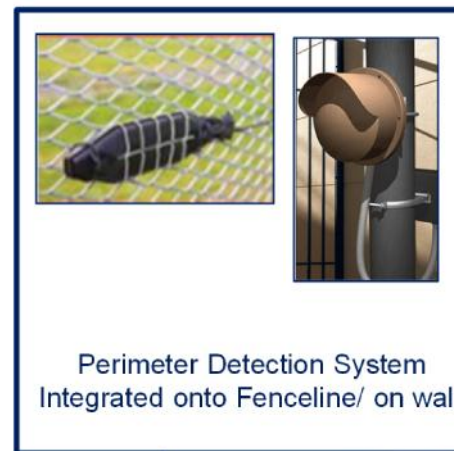
TripWires for Intruder Detection:

- Provides **exact location** of intruder
- Invisible** radar detection field/ microwave field

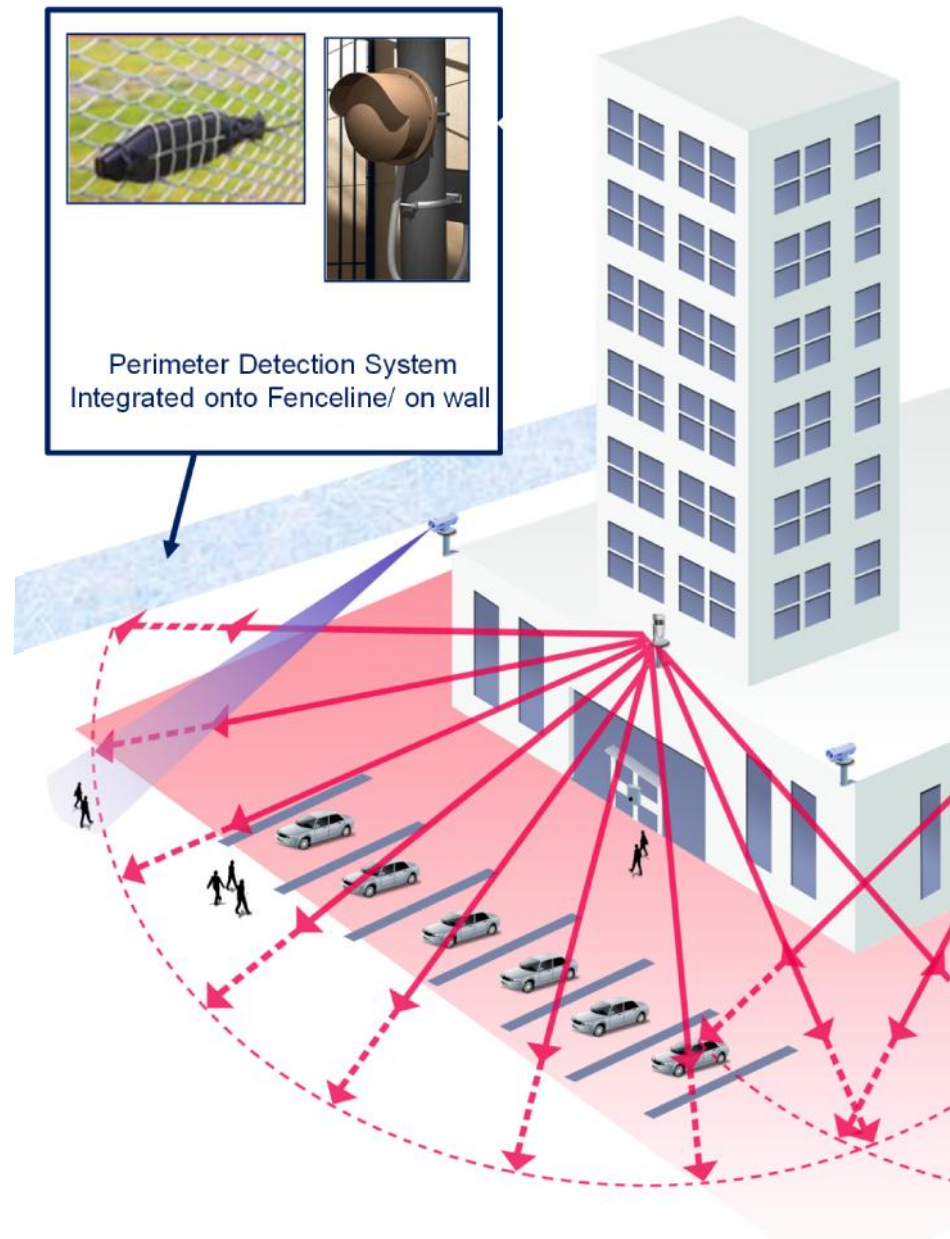
Buried Volumetric Sensors



Microwave Solutions



Perimeter Detection System
Integrated onto Fenceline/ on wall



Day/Night Surveillance

Hi-resolution seamless surveillance on boundary.

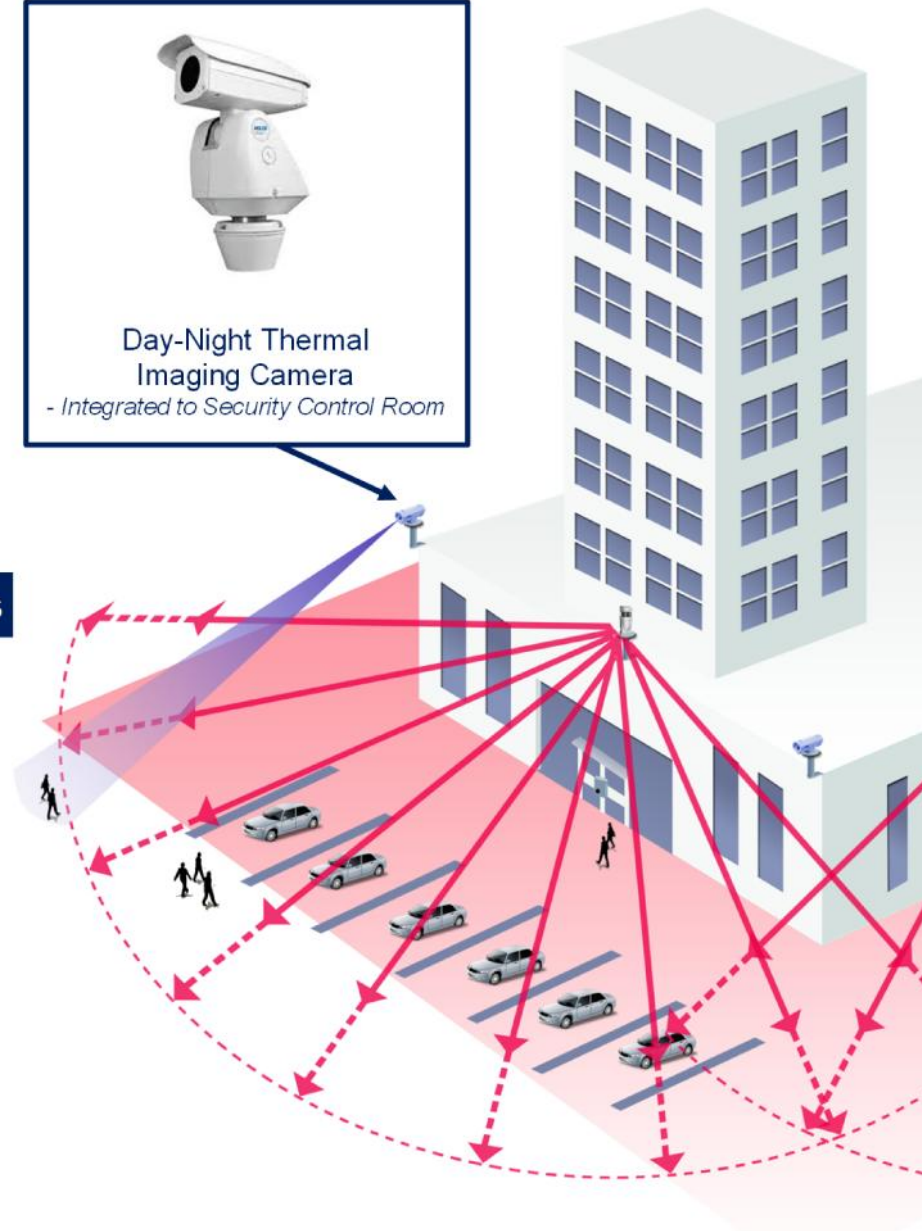
Integrated with LaserScan & PIDS for positive ID.

Thermal Day/Night Camera solution on fenceline

Integrated with PIDS sensors → *slew-to-cue*

IP-based with Video Analytics

Built-In IR Illuminators & White Light



World's most advanced perimeter detection day/night camera systems



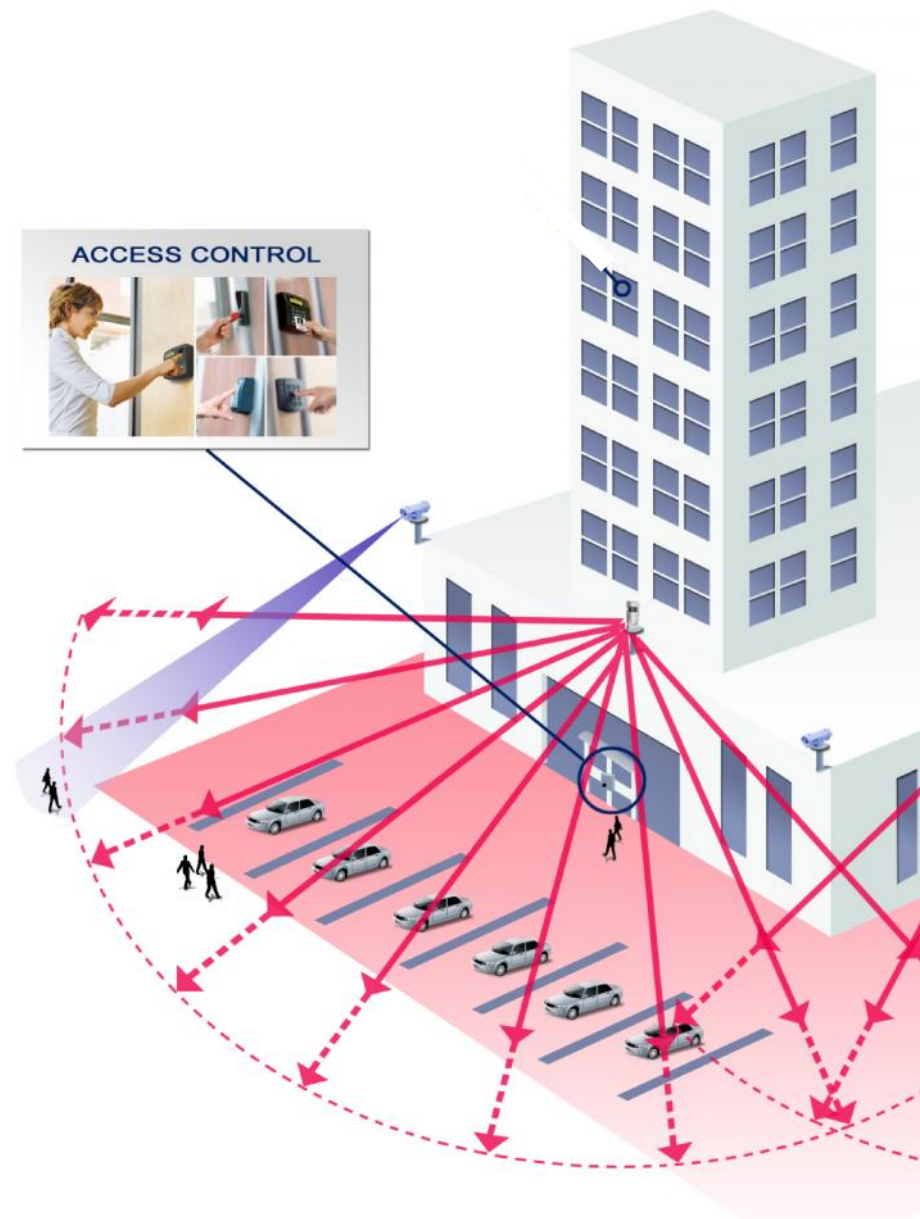
Access Control Systems

We integrate technology to provide safe, secure and reliable access control for **staff and customers**

From fully integrated biometric systems to stand-alone systems for a single door.

Systems can be used for both customer and staff access control and management:

- Identify Authentication
- Smart Card Technology
- Time and Attendance Reporting
- Visitor Management.
- Credential Encoders
- Credential Management
- Readers
- RFID Tags
- Access Control Software



Full integration capability with other building management systems including:

CCTV

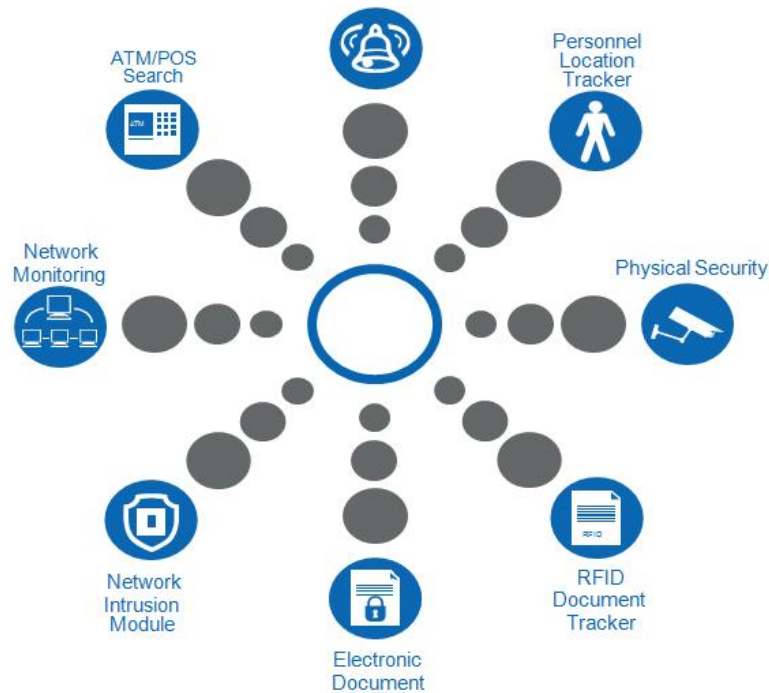
Fire and intruder alarms

Building Management & HVAC

Lighting and air conditioning systems.

Total Security Situational Awareness via COMPLETE VIEW™

- Multiple Operator Consoles
- Integrated Video Wall
- Touch-screen Functionality
- Total Solution – Internal & External
- Displays CCTV, Access Control, PIDS, gates etc



Real-Time Device Monitoring

Total situational awareness of all customer interfaces; tellers, ATMs etc

Real-Time Incident Handling

Immediate identification of incident or violation → dispatch to Response Team

Scalability:

 From single server to fully federated mega systems.

Single Window Interface:

 All events from all systems in one place.

Open Architecture:

 Easy, user-friendly interface with other systems.

Open Protocols:

 Most industry standard protocols included → no drivers.

Vendor Neutral:

 Prevents vendor lock in and reduces rip and replace.

Full Auditing and reporting:

 Enables you to analyze post-event & ensure correct procedures followed.

Operator Procedures:

 Displayed for each alarm to minimize mistakes.

Virtual Matrix functionality:

 Can place video from multiple disparate systems on the same video wall at the same time.

Mobile Access:

 Web Client, SMS and Email enables worldwide mobile access



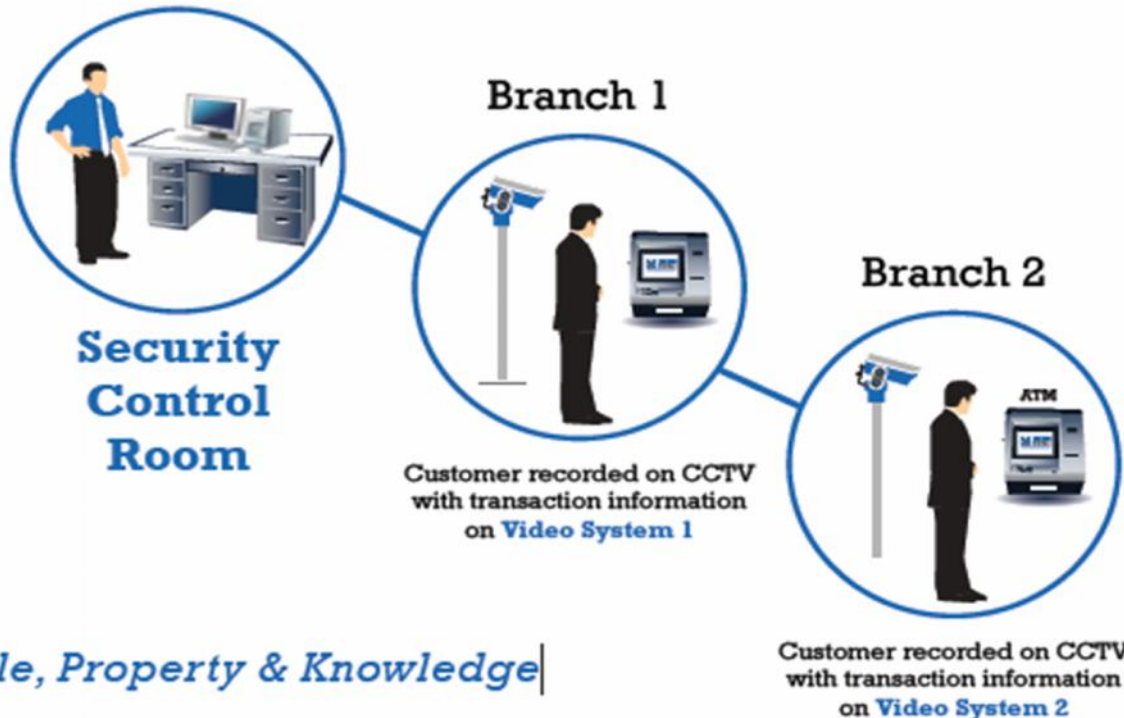
ATM/POS SEARCH

Complete View quickly and comprehensively resolves Customer ATM transaction disputes

Multi-site, multi-technology search of ATM transaction data. Video footage search across an entire ATM network using:

- CUSTOMER NAME
- CUSTOMER ACCOUNT NUMBER
- TRANSACTION AMOUNT
- TIME OF TRANSACTION
- TRANSACTION LOCATION

Figure 2. Complete View ATM



HOW IT WORKS.

Step 1.

Security operator searches for video based on transaction data, which can be:

- Name
- Account Number
- Amount
- Time
- Location

Step 2.

Complete View Server sends out request to all video systems.

Results are returned to requesting operator who can then view video.

IP Camera/ ATM Integration:

Full Record/ Playback Functions via COMPLETE VIEW™

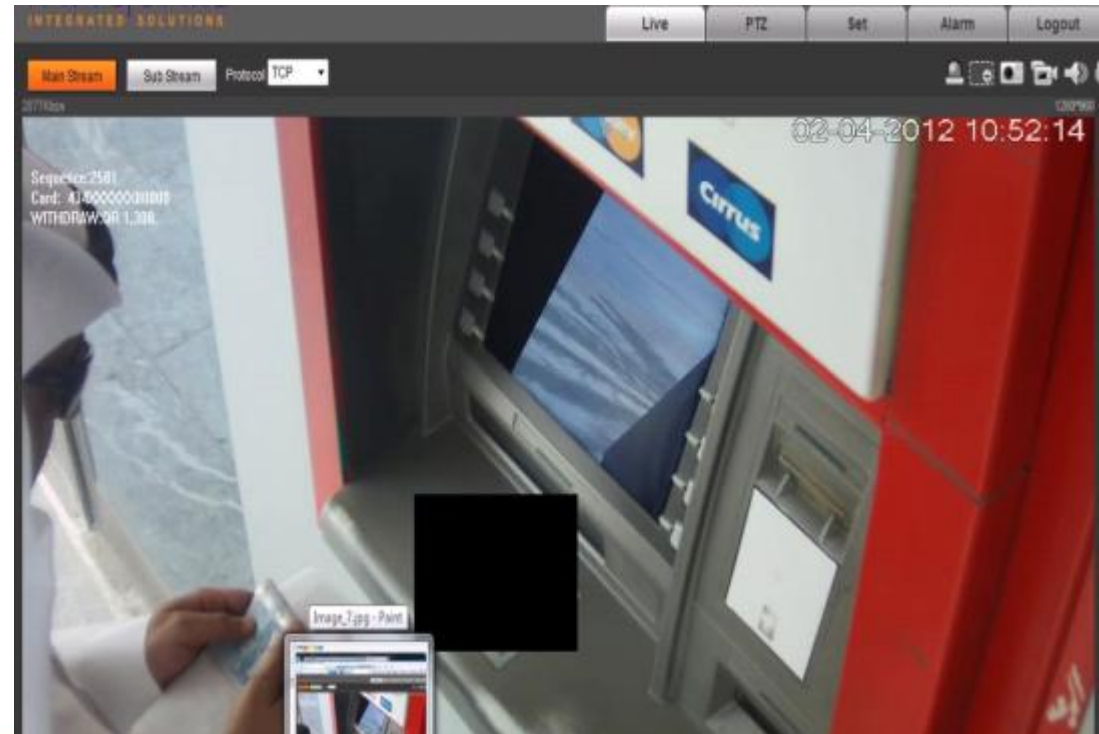
Secure ATM integration (video, transaction history) recorded in secure remote NVR

Integration with fully-IP camera solution

Verification of Identity



Verification of Cash Receipt



ATM Skimming & Tampering

Skimming device on top of card slot of the ATM, e.g. card reader, false front etc

When customer inserts card in reader, skimming device reads card details from magnetic strip & transmit wirelessly to receiver.

Skimming device placed over Card Reader



Skimming device placed over Card Reader



Observation camera across road recording & transmitting PINs

Hidden camera records PIN



What is this?



Camera reading PINs



Anti-Skimming & Anti-Tampering Solution

Anti-Skimming technology allows for **detection** and **reporting** of ATM skimming hardware.

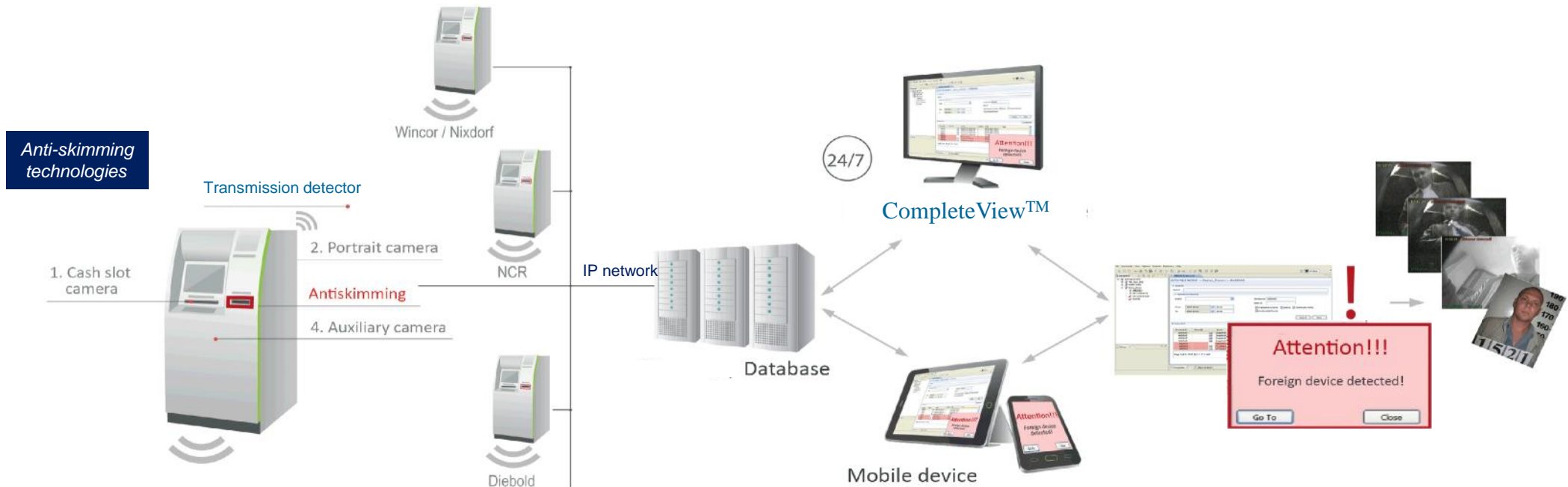
ATM Scanner installed at Branch & sensors on remote ATMs

Scans all ATMs via Network to detect Rogue Transmissions

Extracts the rogue intercept data

Remotely shuts off ATM if fraudulent activity detected

Looks up Stored Data Imagery for Suspect & alerts the Security Services



Features:

Photographic and Videos **synchronized** with anti-skimming device.

Prompt notification (workplace, mobile device).

Prompt reaction (ATM stoppage /launch, audio signal, screen message for user, initiation of external process,)

Remote analysis of situation (remote photographic and video materials in real time mode, log files review, etc.).

Anti-Skimming Devices:

Multiple Anti-Skimming solutions consist:

Control Module

– Detects the presence of PIN recording cameras

Magnetic Field Detector

– detects presence of skimmers placed on the ATM fascia or front of card reader.

Video Analytics

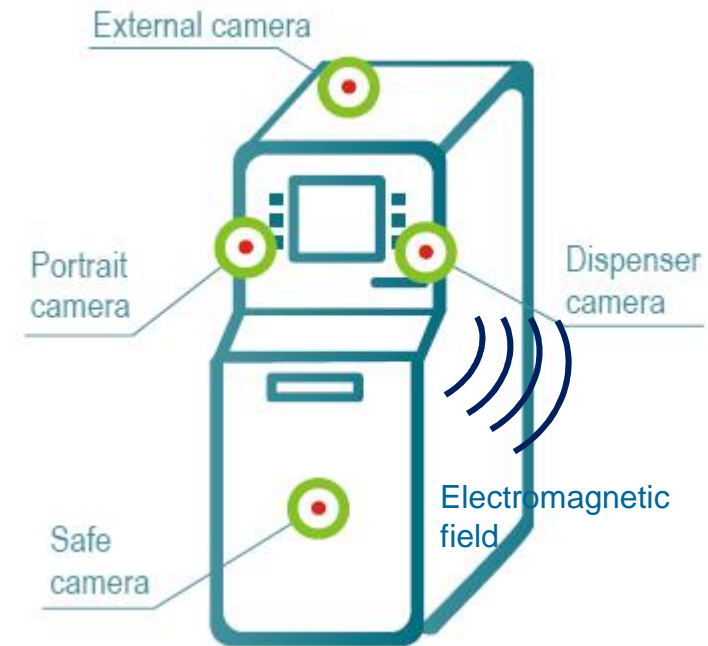
– detects changes shape of ATM, alerts suspicious behaviour

Electromagnetic Field

– destroys emissions from skimmers

Ultrasonic Module

– detects presence of any abnormal protrusions along the front of the ATM fascia.



Identified & Reporting Status to User, ATM helpdesk & Alarm Monitoring Centre.

Example: if someone uses your ATM card without authorization

Search for transactions across multiple ATMs, multiple sites etc to immediately find the video to identify suspect.

Example: if someone claims did not receive payout from ATM

Search for transaction, immediately find the video to confirm payment received.



SECURITY ALARM DATA ANALYSIS

Make sense of Security systems' Big Data rather than trying to understand largely irrelevant streams of data from seemingly unrelated and unmanageable events.

Complete View is a rules-based application that monitors access control systems and notifies exceptions to normal patterns of behaviour by individuals. For example:

- A person travels between 2 doors significantly faster than normal - are they running and why?
- A person tries to access or does access an area that they never usually visit - is a lost or stolen card being used?
- A person uses a different exit to their normal exit – why?



PERSONNEL LOCATION TRACKER

An adaptive fast-response solution, both low-cost and intuitive, that leverages existing mobile infrastructure to provide a managed messaging service:

Situational Awareness: Coordinates the operation and interaction of facilities and people - local, remote and mobile. Know who is where and what their status is during an event

Reporting: Reporting of events quickly and intuitively with the event location and the reporter's identity

Analytics: Distils all user responses down to the information required to make a decision in real-time

Training: Simulate events and evaluate responses



People, Property & Knowledge

BANK DATA MANAGEMENT

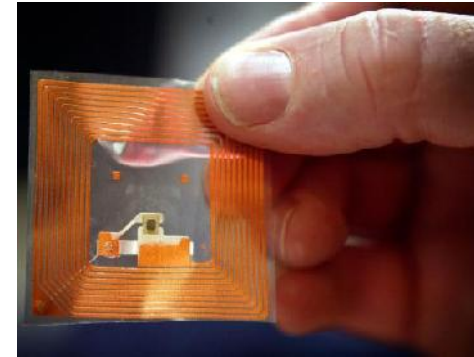




RFID DOCUMENT TRACKER

Instantly notifies you when a document leaves a location, or is separated from its associated documents.
Using RFID tags attached to documents you can always be sure that your documents are tracked and that content does not disappear.

- Significantly reduces the substantial amount of time wasted searching for important mislaid documents,
- Significantly reduces the operational cost of searching for important mislaid documents, and improves productivity
- Protects against document theft
- Protects against regulatory, operational, financial and reputational damage resulting from leaked or stolen confidential information



DIGITAL DOCUMENT PROTECTION

Instantly notifies you when a protected digital Document such as a PDF or EXCEL file is opened outside your domain or by a non-authorized user:

- An email is sent with the name of the unauthorized User who opened the file, the time, the IP address and the machine name
- The document can be set to auto-delete if opened in a non-authorized environment, whether internal or external

Complete View Display



MANAGEMENT INFORMATION

Network Monitor can alert you to activity on your network. Including:

- Invalid Logins | Excessive Bandwidth being used by individuals | Equipment faults
- Network intrusion | Threshold-threatening CPU usage of critical servers | Application performance over the network

People, Property & Knowledge

Cryptographic Solutions & Services

- Reliable & flexible protection → integrate into payment systems
- Uses latest cryptographic technology.



Protect withdrawal and payment transactions

- Bank or Private card, contact or contactless
- Production and printing of PIN code mailers
- Data preparation for card personalization and transaction switching between networks.

Applications include

- Transaction acquisition
- EMV and magnetic stripe authorisation
- PIN management
- PIN printing
- Card audit and PIN unblock
- Applications for private cards
- Secure issuance and authorization
- EMV and magnetic stripe data preparation
- Key Management Centre.



BANK FACILITY MANAGEMENT



Common Picture for Building Management

Facilities

HVAC, Lighting systems, Power Mgt, Fire Alarms, Access Control

Interface into SCADA Systems

Management of LAN, WLAN
Bank Communications

Management via Open Protocols:

SCADA/ OPC, SNMP, Bacnet, Modbus Lonworks



FACILITY MANAGEMENT

FACILITY MGT	
Buildings Management System	
Lighting Management	
Power Management	
HVAC Management	
Sewage System	
Fire Alarm System	
Electrical Distribution	



- ⦿ Seek Partnership with Bank - develop security and management as an Integrated Team

- ⦿ Perform Requirements Capture & Site Surveys
 - Will design, deliver, install & commission turnkey Bank Operations System
 - Awareness , Management & Control
 - Tailored to Banks's requirements
 - Aligned to existing investments in infrastructure
 - Full Life Cycle Support

- ⦿ Deliver Common Operational Picture, with multi-site capability, across:
 - Bank Security
 - Data Management
 - Facilities Management

- ⦿ Local Team
 - Muscat-based Design & Development Team
 - Long-Term Supportability – guaranteed



For further information, please contact:

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