### **Building Security**



# Planning

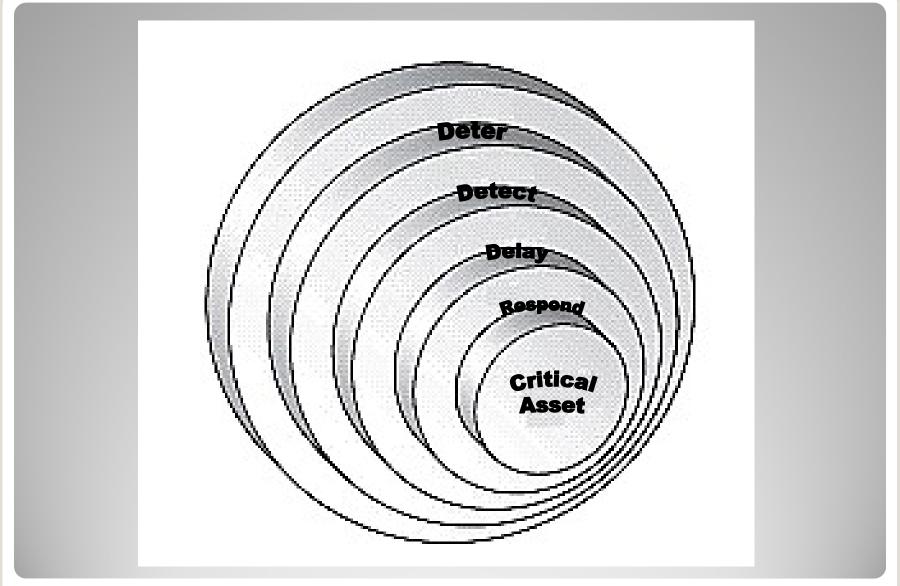
The proper plan should be:

- Practical fits your current structure
- Scalable can grow over time.
- Affordable costs do not exceed value.

# Security Overview

A Vulnerability Assessment will:

- •Examine the various ways an attacker might exploit vulnerable areas based on structure and use
- Allow you to develop countermeasures to an attack



#### **Concentric Circles of Protection**



Source: NFPA 730 - Guide for Premises Security - 2006 Ed

## Where do we begin?

At the perimeter



#### Perimeter Control

- Security Fencing
- Gate Control
- Emergency Call systems
- Bollards / Hydraulic barriers
- Security Planters
- ALPR







#### **ALPR**

- Advance License Plate Recognition
- Optical Character Reading
  - Not the same as Video
- Data base checking
- Access Control for Gated Areas



# Detect



#### **Means of Detection**

Visual
Video
Electronic Systems



### Visual

#### Single point of entry into building

Parking lots should be situated so as to ensure a common approach to the building for all people entering the structure. A person, secretary, receptionist, guard should be positioned so as to have full view of the bank of entry doors and approaching visitors.



# Video Entry

- Should be located at all entries into the building.
- Should be able to roll from one respondent station to another without restriction with audible two-way communication.
- Should be network based for additional features.
- Should have a full view of the guest via the integrated camera



# Video Analytics

- Video Tracking
  - Allow authorities to track an event through out a structure to fully determine extent of the problem
  - Contrary moving traffic
- Object recognition
  - Provide information about abnormal images allowing for response prior to problem
  - A brief case with left unattended



# Video Analytics

- Flame and Smoke Detection
  - Prior to other devices more rapid response
- Shape Recognition
  - Unusual objects as compared to background images
- Dynamic Masking
  - Privacy areas where video is needed but with exception areas



# Delay



# Delay

- Proper building structure should sufficiently delay an intruder so that First Responders can reach the scene to minimize damage/destruction.
  - Areas of entry into building (lobbies)
  - Cafeteria openings/areas of mass gathering
  - Loading docks or other utilitarian areas



## Visitor Management

- Scan to insure validity of visitors
  - Identities are verified through checks against national, local and proprietary data bases
  - Insurance in the event of court orders in custody disputes
- Can track visitors through facility
  - Insure that they are going to appropriate areas



## Video ID Badging

- Pop-up photo ID
  - Identity of the badge holder is verified by a security guard.
  - Provides instant recognition that someone may not belong in the facility
  - Can be used to differentiate classes of employees.



# Interior Modifications

- Create Areas of Isolation
  - Point of attack can be random
  - Confine/Contain attacker to area entered or interior area where attack has begun.
- Vestibules at all Entry Locations
  - Two sets of doors,
  - Entry into the second set is delayed until the first set is closed and locked.



# Respond

# Response Type

- Human:
- Traditional 911 calls to first responders can have inherent delays that may reach 5 to 7 minutes, it is like the Pony Express and is no longer functional
- Incorrect or incomplete information may be transmitted.
- Electronic:
   Can be instant through networked products and include valuable information to allow a more rapid response and quicker actions



## **Electronic Response**

- Electronic Access Systems:
  - Provide instant notification to first responders
  - Include graphic maps of site with activation device type and location
  - Include video images of ongoing event
     No wasted effort or delay directing to point of attack.



# Alert messaging

#### E-Blasts or Text Messages

- Sent to server for mass distribution
- Campus environments message detail
  - Issues
  - Actions

#### Audio/Video messages

 Devices can be campus based, or mass distribution

## Response by source

Site Based – allows for immediate response to defend on premises

- Can initiate a lockdown
- Activate suppression systems to disable an attacker

First Responder based

- Immediate notifications to enable responders to arrive on Premises as soon as possible.
- Evaluate situation to determine extent



### **Suppression Systems**

#### Proper system should:

- Be controlled by multiple sources
- Not affect first responders who enter the scene
- Not cause permanent harm to anyone
- Be able to disable people in an area in seconds
- Be distributed throughout a building
- Activated through video integration



#### **Software Features**

- Network based
- Mass Notification in the event of emergency
- Full Video integration with Analytics
- Graphic Mapping with device location and description
- Situation Manager
  - At least 5 definable levels



# **Key Control**

#### Limited Key Distribution

- Key bypass defeats Access Control
   Patent Restricted Key Systems
- Insures that mechanical keys are not duplicated
  - Keys can only be made by authorized signature
  - Eliminates unauthorized keys, secures site



# Access Control: Beyond the Benefits of Saving Lives

- Secure the facility, Students and Staff
- Expand the usage of existing structures
  - ✓ Space utilization ratios
- Expand personal freedoms
  - √ Tracking through facility
- Channel the flow of people
  - ✓ Defining ingress and egress solutions
- Cost saving solutions
  - ✓ Dramatically reduce re-keying expenses



### Conclusion

 The investment in a properly designed and secured educational facility will, when amortized over time, produce the most comprehensive and cost efficient solution to today's issues with building security.