Campus Security for the 21st Century

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L. Thomas Sorrell, RCDD, LEAD BD+C, CHC
CEO, BCCLT, Inc.
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Presentation Objectives

- Assess legacy campus security systems.
- Evaluate current security technology solutions available.
- Integrate video, access control and emergency notification as needed.
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- Safety must be a priority for all campuses, large and small.
- New threats come in many forms
- New tools allow not just for monitoring but are proactive
- Today's ESS practices leverage technology over manpower
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- Are your ESS practices working to your best advantage?
- Do you have multiple legacy systems?
- Are your legacy systems aware of each other?
- Do you have many manufacturers and models?
- Do you have central management?
- Do you have Campus Security Standards?
- Do you have an Electronic Security Master Plan?
Veterinary Diagnostic Laboratory
(formerly the Livestock Disease Diagnostic Center)
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VDL ESS Systems

- Access Control System
- Video Management System
- Wireless Lock Sets
Demonstration of Early Concept
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Pre-Project Conditions

- Approximately 1,500 Existing Cameras On Campus
  Analog and IP mix
- Many Manufacturers and Models
- No Central Management: DVR’s, NVR’s, VCR’s, CCTV Monitoring
- Out of date University Electronic Security Standards
- No Electronic Security Master Plan
- No Central Ownership
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What Is Being Done In Other Campus Environments?

- Merging Access Control Systems with --
  - Video Management Systems
  - Audio
  - Analytics
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Does Video Detection Enhance Security?

- Threat Deterrent
- Improved Response Time
- Video Forensics
- Parent reassurance and Peace of Mind
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How Is This Accomplished?

- Convergence Video + Access Control + Other Devices
- This Information Is Then Converted Into Events
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What Triggers An Event?

- Camera Information
- Access Control
- Emergency Call Boxes
- Contact Closure Devices
- Audio Detection Devices
- Fire Alarm Systems
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New Methods For Central Monitoring?
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Camera Options

- Pan Tilt Zoom (PTZ)
- Fixed focus megapixel
Photo not to scale, used for concept only.
Photo not to scale, used for concept only.
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Project Timeline

- Approve Network Architecture
- Approve Campus Standards
- Approve Retention Policy
- Assessment of Campus WAN Network Impact
- Select Location And Equip Data Center
- Assess & Prioritize Campus Building Readiness
- Issue & Review RFP
- Begin Installation
- System Verification & Commissioning
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Implement a robust video management system:

- Digital Network cameras
- Mobile devices
- Video sharing with outside public safety responders
Video Management System (VMS)

Cameras

NLSS Gateway Appliance

UKPD Cloud

Smart Phones

Desktop Monitors

Tablets
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- Memory Chip
- iClass / Prox Antennas
- Bar Code
- Mag Stripe

BCCLT consulting engineers

Bicsi
Security Management System (SMS)

NLSS Gateway Appliance

UKPD Cloud

Access Control

Campus Lockdown Capability
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Early warning speakers and internal overhead notifications to broadcast threats to campus safety through a combination of warning speakers, overhead paging, voice calls, emails, and text messages.
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Exterior
Emergency Notification

Exterior Notification Tower: Talk-A-Phone

Camera

Emergency Notification Outdoor Speakers

VOIP Emergency Phone
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L. Thomas Sorrell, RCDD, LEAD BD+C, CHC
CEO, BCCLT, Inc.

Sorrell@BCCLT.com
502.633.1506  x128

www.linkedin.com/in/tomsorrell