## MILITARY TRAINING CENTER ADOPTS A UNIFIED SECURITY APPROACH

### **Organization:**

LENSEC

Military Training Institute - Riyadh, Saudi Arabia

## **Project name:**

Integrated Security System for the main campus using a unified security platform

Perspective

VMS

## **About The Project:**

The institute for military and police training in Riyadh is the designated government educational facility for educating soldiers and police officers in the Kingdom of Saudi Arabia. The project is at an educational college designated for training all government personnel in military and security positions. The educational facility is a strategic government location, including a research center, workshops, shooting range, special program facilities, housing, and more.

### **Previous Situation:**

Previously, security included an inadequate number of surveillance cameras. There were many blind spots not covered by cameras, and the existing security system was outdated with limited infrastructure. The administration needed to take counter measures, implementing an integrated security system due to the strategic nature of the facility nature and expected external security risks. It is a priority to protect people and certain assets from possible threats.



### Project scope and solution:

The security project encompasses many systems and components from different security manufacturers. The physical security experts from LENSEC work with representatives from other companies to integrate security software and tools to comprise the complete security footprint.

Perspective VMS<sup>®</sup> is at the center of the project, working to connect different security solutions and bring the information together in a unified security platform. PVMS is an enterprise-level video management software by LENSEC. The project's primary is streaming security video and storing recorded video and data in the archives.

PVMS has an additional role in the security system that is key to the success of the project. The software pulls event data from disparate security systems, logging event information, connecting video with tagged metadata, initiating critical actions based on predetermined criteria, and consolidating the information in one place for security operators.

Perspective VMS<sup>®</sup> works in unison with security systems to provide essential information to personnel monitoring and controlling the security command center.





## **Unified Security Systems**

- IP Surveillance Cameras 1450+ IP surveillance cameras
- Access Control System 750+ access control doors
- Asset Management RFID Reader System 125+ RFID Readers
- Perimeter Intrusion Detection System 80+ pairs of IR Beam Barriers
- Electric Fencing Intrusion Prevention System 8000+ meters of electric fencing mat
- Under Vehicle Surveillance Systems 5 UVSS devices for under vehicle scanning
- Road Blocker System 10 road blockers
- Security Arm Barrier System 25 arm barriers
- Hydraulic Security Bollard System 10 security bollard systems
- Information Technology Infrastructure A standalone IT network consists of 375 switches, 325 communication cabinets, 150,000+ meters of fiber optic cable, 150 uninterruptible power supplies, 16 network servers, and a centralized network-attached storage (NAS).
- Video Wall System 12 screens with consoles and workstations

# LENSEC Product

Perspective VMS<sup>®</sup> is an intuitive and scalable physical security platform. PVMS is an enterprise-level software designed for video surveillance, managing events, and collecting metadata from integrated security tools such as access control, traffic control devices, perimeter intrusion systems, and other security systems.

LENSEC manufactures Perspective VMS<sup>®</sup>, a video management software designed for surveillance. PVMS is a thin-client application operating in the modern browser through an easy-to-use graphical interface.

For the campus project, the security integration team installed LENSEC Griffin Series Network Video Appliances. These network servers are optimized for security and surveillance, providing a dependable foundation for the security footprint.



## System Architecture

The security network architecture combines many systems onto one network, allowing the systems to communicate. Video surveillance, access control, RFID asset management, video analytics, under vehicle surveillance systems, alarm panels, intrusion detection and prevention, and security system storage are all communicating on the network.



# **PVMS Workflows**

Workflows leverage "If-This-Then-That" logic, enabling users to integrate physical and logical inputs into onscreen display actions or other notification alerts through associating objects, triggers, and actions.

Any trigger can start numerous actions simultaneously, including video analytics events, IP-device I/O events, camera-detected motion events, and more.



# Summary

LENSEC and their technology partners worked together to solve many problems at the military training institute. The resulting unified security platform gives the security team an advanced security system that combines many disparate systems. Systems work together to achieve a safe environment. Government officials in Saudi Arabia can maintain a secure facility and keep trainees and staff safe using Perspective VMS<sup>®</sup> as the anchor, unifying security systems throughout the enterprise.

# **Applied Use-Case Scenarios:**

LENSEC provides many features in Perspective VMS®, allowing automated processes to initiate standard procedures. Integration with 3rd party security tools and software work inunison with PVMS Workflows. Actions are triggered when certain pre-defined events occur. Here are a few use-case examples.



Security	Cameras	&	Access	Control	S	ystems
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Scenario #1 Valid Door Access	Scenario #2 Invalid Door Access	Scenario #3 Door Forced Open		
<b>ACTION:</b> When a person approaches an access control door, they swipe their valid key card at the access control reader.	<b>ACTION:</b> When an unauthorized person approaches an access control door, they swipe an invalid key card at the access control reader.	<b>ACTION:</b> A door is forced open without a valid key card swipe.		
<b>RESULT:</b> With a valid access event, the door will release.	<b>RESULT:</b> With an invalid access event, the door will not release.	<b>RESULT:</b> A 'Door Forced Open' event is created.		
<ul> <li>ADDITIONAL ACTIONS:</li> <li>Event information is registered in PVMS.</li> <li>The event is associated with a security camera monitoring the door.</li> <li>Remote locking, unlocking, and pulsing of doors.</li> </ul>	<ul> <li>ADDITIONAL ACTIONS:</li> <li>Invalid event information is registered in PVMS.</li> <li>The event is associated with a security camera monitoring the door.</li> <li>An audible alarm sounds in the security operations center.</li> </ul>	<ul> <li>ADDITIONAL ACTIONS:</li> <li>'Door Force Open' event information is registered in PVMS.</li> <li>The event is associated with a security camera monitoring the door.</li> <li>An audible alarm sounds in the security operations center.</li> <li>An onscreen camera pop-up is displayed.</li> </ul>		

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### Security Cameras & RFID Asset Management

Scenario #1	Scenario #2			
Authorized Asset Movement	Unauthorized Asset Movement			
<b>ACTION:</b> Radio Frequency Identification (RFID) tags placed in assets are picked up by RFID readers.	<b>ACTION:</b> An RFID tag associated with a crucial asset is moved outside of an authorized location.			
<b>RESULT:</b> RFID tag ID's are sent to the security system.	<b>RESULT:</b> The RFID tag ID's unauthorized status is sent to the security system.			
ADDITIONAL ACTIONS:	ADDITIONAL ACTIONS:			
<ul> <li>The asset RFID tag and reader location is registered in PVMS.</li> <li>Security cameras associated with RFID readers monitor activity in the vicinity.</li> </ul>	<ul> <li>The asset location tags video from a security camera monitoring the RFID reader.</li> <li>An audible alarm sounds in the security operations center (SOC).</li> <li>A pop-up window displays in PVMS showing the live video stream from the security camera.</li> </ul>			





#### Scenario #1

#### **Intrusion Detected**

**ACTION:** IR Beam Barriers are set up at perimeter locations to detect movement crossing into the campus perimeter and non-controlled locations.

**RESULT:** The IR Beam Barrier System communicates with the Security Operations Center.

### **ADDITIONAL ACTIONS:**

- Event information is registered in PVMS, reporting unexpected activity at the campus perimeter.
- A PTZ Camera moves to a preset location to capture video of activity at the reported perimeter breach
- A pop-up window opens in PVMS to provide a visual cue to system operators of activity.
- An audible alarm sounds in the security operations center.
- Authorized security personnel can silence or resolve the device alarms using PVMS controls from the map or events panel.

#### Scenario #1

#### **Intrusion Prevented**

**ACTION:** Electric Fencing Systems detect and prevent movement on perimeter walls using rubber mats and electrified wiring designed to prevent people climbing walls to breach the campus perimeter.

**RESULT:** A non-lethal electric voltage system prevents intruders with low voltage and non-lethal high voltage when they touch system sensors.

#### **ADDITIONAL ACTIONS:**

- A PTZ Camera moves to a preset location to capture video of activity at the reported perimeter breach.
- A pop-up window opens in PVMS to provide a visual cue to system operators of activity.
- An audible alarm sounds in the security operations center.
- Authorized security personnel can control the device from PVMS using map or event panel actions. Controls include Disarm, Arm, and Close/Resolve Alarms.



# Under Vehicle Scanning Systems With Security Arm Barriers & Road Blockers

Scenario #1	Scenario #2			
Vehicle Cleared	Vehicle Not Cleared			
<b>ACTION:</b> The UVSS system scans under the vehicle carriage to see if the vehicle has been altered in any way.	<b>ACTION:</b> The UVSS system scans under the vehicle carriage, comparing the image to the UVSS database.			
<b>RESULT:</b> The UVSS image is compared to the database, looking for vehicle alterations that might indicate nefarious intent.	<b>RESULT:</b> The UVSS image is compared to the database, looking for vehicle alterations that might indicate nefarious intent.			
<ul> <li>ADDITIONAL ACTIONS:</li> <li>The UVSS does not detect any vehicle abnormalities.</li> <li>PVMS captures and registers the event. Image of the undercarriage. The system captures the vehicle LP.</li> </ul>	<ul> <li>ADDITIONAL ACTIONS:</li> <li>The system detects a change in the vehicle indicating nefarious intent.</li> <li>The UVSS alerts security personnel of the vehicle abnormality.</li> <li>PVMS captures and registers the event. Image of the undercarriage. OCR capture of the vehicle LP.</li> <li>The security team can use PVMS to manually close the arm barrier, preventing vehicle movement.</li> <li>The security team can use PVMS to manually raise the road blockers, trapping the vehicle in place.</li> <li>A pop-up window opens in PVMS to provide a visual cue to system operators of activity.</li> <li>An audible alarm sounds in the security operations center</li> </ul>			





# Automatic License Plate Recognition With Arm Barriers

Scenario #1	Scenario #2			
Registered License Plate	Unregistered License Plate			
<b>ACTION:</b> The ALPR System reads a license plate.	<b>ACTION:</b> The ALPR System reads a license plate.			
<b>RESULT:</b> The plate is compared to the database and found on the whitelist.	<b>RESULT:</b> The plate is compared to the database and found on the blacklist.			
ADDITIONAL ACTIONS:	ADDITIONAL ACTIONS:			
<ul> <li>PVMS reports the event as an authorized vehicle.</li> <li>The arm barrier is automatically raised.</li> </ul>	<ul> <li>PVMS reports the event as an unauthorized vehicle.</li> <li>The arm barrier remains in a lowered position.</li> </ul>			

# Visitor Management System

Scenario #1	Scenario #2		
Authorized Visitor	Unauthorized Visitor		
<b>ACTION:</b> The Visitor Management System recognizes an authorized visitor.	<b>ACTION:</b> The Visitor Management System does not recognize a visitor.		
<b>RESULT:</b> The system logs the event.	<b>RESULT:</b> The system logs the event.		
ADDITIONAL ACTIONS:	ADDITIONAL ACTIONS:		
<ul> <li>Event information is registered in PVMS.</li> <li>PVMS generates a snapshot from a security camera associated at check-in and checkout.</li> </ul>	<ul> <li>The unauthorized visitor event information is registered in PVMS.</li> <li>During the scheduled time, streaming video from the associated camera pops-up automatically in the security operations center.</li> <li>After hours, the user interface will automatically change to a specific camera view showing streaming video from associated cameras.</li> </ul>		

# **Perspective VMS®** Action Buttons

Scenario #1	Scenario #2
Evacuation Button	Emergency Button
<b>ACTION:</b> Security personnel activate an evacuation soft button in PVMS for a specific building or the entire facility.	<b>ACTION:</b> Security personnel activate an emergency soft button in PVMS for a specific building or the entire facility.
<b>RESULT:</b> Event information is registered in PVMS.	<b>RESULT:</b> Event information is registered in PVMS.