



Protean™: Scalable, Customizable Security and Surveillance Software for Operation Centers

- Easily integrate sensors/subsystems
- Monitor sensors to detect anomalies
- Customizable alerts
- Customizable course of actions/workflows
- Customizable reporting
- Persistent video surveillance with network video recorder (NVR)



SUBSYSTEMS

Protean integrates with all types of subsystems:

- Video Management Software (VMS)
- Life Safety
- Access Control
- Video Analytics
- License Plate Recognition
- Facial Recognition
- Mass Notification Systems

GEOGRAPHIC INFORMATION SYSTEM (GIS)

Protean provides a common operating picture (COP) and complete GIS display showing:

- High-Resolution Imagery
- Sensor Locations
- Camera Locations with accurate field-of-view displays
- Detailed Building Floor Plans
- Annotations
- Areas of Responsibility

INTEGRATED NVR

Protean integrates with third-party NVR systems, or a fully-integrated NVR solution can be provided as part of the normal installation.

ALERTS

Protean automatically alerts operators to violations in rules using both visual and audible alerts.

FAILOVER CAPABILITY

The system features redundancy in the data center. Industry standard clustering and SAN technologies are leveraged to provide a security system with extremely high availability.

OVERVIEW

Protean is highly customizable, open-architecture security software that analyzes input from various sensors and video systems, producing a common operating picture (COP) for operation centers and mobile security guards. The architecture is extremely scalable, which allows it to provide security for a single point, such as an individual building, or an extensive area, like a national border.

Protean allows for the near real-time evaluation and distribution of critical information gathered from video and sensor inputs. It generates tailored alerts, recommended courses of action, and task lists that are appropriate to each operator's level. Operator access can be configured so that users are restricted to certain views and subsystems based on individual clearance levels, while administrators can monitor real-time and historical user activity across the system.

Protean is currently used in security and surveillance applications for border protection, maritime and coastal security, anti-hijacking systems, and critical infrastructure protection.

PROTEAN SUPPORTS NEARLY 100 TYPES OF SECURITY PLATFORMS AND HARDWARE*

Cameras	Axis, Samsung, Pelco, Sony, FLIR, Quickset, DRS Technology's CHILI
Video Encoders	Axis, Verint, Samsung, Mango, Mavix
VMS	Milestone, Genetec, ONSSI
PTZ Units	Axis, Samsung, Pelco, FIIR, Sony
Access Control	AMAG Homeland Security, Lenel, Axis
Perimeter Security	FFT
Mass Notification	Cooper Industries, Everbridge
Radar	ARSS-1, DRS Technology's Squire, Furuno, L3 Klein
UGS	Textron, Vortex
Sonar	Cerberus, Sonardyne's Sentinel

*Above is a sample list. Additional integrations may be available.

SENSORS

Protean integrates with all types of sensors, providing control capabilities for:

- Radars
- Unattended Ground Sensors
- Sonars
- Perimeter Intrusion Detectors

REPORTS

Protean provides a customizable reporting system, allowing users to create and share reports with both auto-completed fields and user-completed fields.

TREND ANALYSIS

Protean processes captured data from the day and provides statistical analysis based on historical averages for sensor data and alerts. The system automatically highlights data outside the historical average.

HISTORICAL REPLAY

Protean automatically records all sensor and subsystem data alongside recorded video and replays that data to show everything that led up to an event.

SCALABLE

Protean supports multiple networked command centers arranged in a hierarchy. The architecture is extremely scalable in order to provide security at a single point, such as an individual building, or up to a large area, such as a national border.

CUSTOMIZABLE

Protean features extremely customizable views. Displays are easily changed from single monitor to dual monitor, or more.

PROACTIVE

Protean enables users to proactively manage crises and routine security processes.

INTERNATIONAL

Protean supports multiple languages out of the box, and new languages are easy to add to the system.

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VIDEO SUBSYSTEMS

Protean integrates seamlessly with many different types of cameras, including analog and IP. It provides complete video management tools for viewing, recording and replaying video through an integrated Network Video Recorder (NVR). Its easily configurable video display gives operators access to live video, recorded video, and video snapshots. Operators can digitally zoom any images on the display regardless of the source, and can listen to accompanying audio.

In addition, PTZ cameras can be controlled manually or configured to automatically zero in on alarm events. While the video is being recorded, meta-data related to the event is recorded and can be replayed at the same time. This allows security personnel to see exactly what led up to the alarm.

SENSOR SUBSYSTEMS

As with video, Protean integrates with a wide variety of sensors, including radar, sonar, unattended ground sensors and perimeter intrusion detectors. The software continuously monitors all sensor input and provides actionable alerts to operators if a system is triggered. In addition, Protean automatically monitors the health and functionality of all sensors. Operators are alerted when faults occur and are provided with directions for appropriate responses.

ALARMS, ALERTS AND REPORTS

All of Protean's video and sensor subsystems work together so clients can meticulously monitor critical areas, eliminate blind spots, and prepare for physical threats against security. The software's extensive decision support system provides operators with a combination of automated actions and user task lists when responding to events, thereby reducing the risk of human error in urgent scenarios.

Protean also saves historical data and can generate customizable status reports for routine security or incident reports based on alarm situations. The software also tracks historical norms and generates reports for any activity that falls outside of statistical averages.

MINIMUM SYSTEM REQUIREMENTS

MAIN SERVER	NVR SERVER	CLIENT
Windows 2008 Server	Windows 2008 Server	Windows Vista or Above
CPU		
Intel Xeon Quad Core	Intel Xeon Quad Core	Intel Quad Core
MEMORY		
8GB	8GB	8GB
HARD DRIVE		
300GB	300GB	300GB
DISPLAY REQUIREMENTS		
N/A	N/A	Dual 1920 x 1080/NVidia