

# **PRODUCT SPECIFICATIONS**

## **Perimeter Security Manager Security Management System**

**System Type:** Security Management System (SMS)

**Installation:** By Integrator

**Project:** Sample "XYZ" Project

### **1.0 Integrated Security Management System**

The Security Management System (SMS) shall be designed to support a single site, yet powerful enough to manage a multi-site network. The Security Management system shall consist of workstation PCs connected to multiple third party systems via a network or serial connection. The workstation PCs shall be installed with software that provide a graphical user interface with touch screen control to provide an integrated system enabling monitoring, control and interaction of multiple systems.

### **1.1 Security Management Application**

The security management application shall allow the user to control and monitor CCTV, digital video recording and perimeter detection utilizing an intuitive, easy to use graphical user interface.

- 1.1.1 User Permissions: Shall set-up user permissions based upon Microsoft Windows® and Perimeter Security Manager security policies. Restrict user access to specific functions dependant on username, password and associated access level. The system shall allow for up to 99 access levels.
- 1.1.2 Diagnostics: Shall enable the administrator to more efficiently monitor the entire security management network. From a single workstation, the user can test the network communications, allow users to simulate alarm events without devices being configured and provide a graphical display of data communications (Rx/Tx) between third party devices.
- 1.1.3 Help: Shall allow users to browse to PSM manual stored on hard drive.
- 1.1.4 Configuration: Shall allow for management of the entire security management system providing comprehensive management set-up and configuration of system functions and PC workstations.
  - 1.1.4.1. Edit: Shall allow the graphical displays to be updated with portals, devices, links and icons.
  - 1.1.4.2. Grid: Shall enable grid over graphical maps for precision placement of dynamic icons.
  - 1.1.4.3. User: Shall create user with username, password and access level.
  - 1.1.4.4. Rights: Shall create functions enabled for each access level.
  - 1.1.4.5. Channel: Shall allow set-up of each channel for each third party device.

- 1.1.4.6. Groups: Shall set-up groups of alarms. Shall allow users to preset the priority of alarm events by assigning color, sound or user-defined messages.
- 1.1.4.7. Matrix Actions: Shall set-up matrix actions by name, camera, duration, monitor and preset.
- 1.1.4.8. Scenario: Shall set-up scenarios to perform a list of system actions.
- 1.1.4.9. Modules: Shall create menu buttons by device type.
- 1.1.4.10. System: Shall enable automatic update of software drivers and icons, set-up machine network configuration and machine specific drivers, and toggle alarm alerts and sounds.
- 1.1.4.11. Monitor Wall: Shall set-up which camera is to be displayed on which monitor.
- 1.1.4.12. Alarm Tags: Shall set-up default responses when acknowledging an alarm.
- 1.1.5 Event Log: Shall track all user interactions including alarm events, scenarios and administrator functions. Audit trail reports shall be sorted by time, date, username, event description, and access level and memo field and may be exported to a commonly used word processing format.
- 1.1.6 Network Status: Shall list computer name and IP address of workstations on the network and provide test facility to ensure network communication of workstations.
- 1.1.7 Housekeeping: Shall allow users the ability to manage past event logs.

## **1.2 Graphics**

The Security Management System shall be operated via a hierarchical Graphical User Interface (GUI) controlled by a touch screen monitor or mouse.

- 1.2.1 Main Graphic: The system shall provide the required number of graphics for the site providing one overall site graphic with relevant sections providing easy access to each part of the site
- 1.2.2 Multi-Level Graphics: Various subs levels shall be accessed via portals allowing the operator to quickly navigate to any area of the site quickly. There shall be an inset of the previous level selected along with a graphic of the facility. Operator shall be able to select various icons to navigate directly to any graphic required.
- 1.2.3 Links: The user shall navigate between graphics by means of links or portals. These shall be in graphical or icon format and shall be created easily within the configuration menu.
- 1.2.4 Icons: The system shall be configured with dynamic icons that represent system devices such as intrusion sensors, alarm points, cameras and systems. Each dynamic icon shall display the status of its represented device. Icons shall be placed onto each graphic in the exact location that the device is required.

## **1.3 Alarms**

The Housekeeping button shall allow the operator to instantly view live alarm events, retrieve stored alarm video and create customized reports – all from a single screen, without interfering with alarm monitoring.

- 1.3.1 Real Time Alarm Monitoring: Shall alert users to alarm situations from the integrated applications such as dynamic library linking (\*.dll), and/or external contact closures from intrusion sensors.
- 1.3.2 Status Indicators: Dynamic icons shall indicate the functional status of each device in the system.

- 1.3.3 Alarm Activation: On alarm, the border of the screen shall flash red and an audible alarm shall be initiated. The alarm that has been activated shall be highlighted on the appropriate graphic for that alarm together with its current status. A text description for that alarm shall also be displayed together with any instructions for the operator. Multiple alarms shall be presented to the operator either by priority level or by operator priority.
- 1.3.4 Automatic Scenarios on Alarm: On activation of an alarm a pre-defined scenario of system actions for multiple system devices shall be initiated.
- 1.3.5 Alarm History: Shall surveys all past alarm events stored in the database (Event Log).
- 1.3.6 Priority Alarm Configuration: Shall allow users to preset the priority of alarm events by assigning color, sound or user access level.
- 1.3.7 Alerts: Alarms shall be configurable to deliver a variety of audio alerts as well as visual alerts upon an alarm.
- 1.3.8 Alarm Groups: Shall allow the administrator to set device schedules for automatic access and secure.

#### **1.4 Integrated Applications**

The graphic display shall provide a number of application buttons (filters) to allow the operator to select icons relative to a particular integrated application. These shall be displayed on the appropriate graphic. It shall also be possible to display any other application icon on any graphic. It shall be possible to import any icon easily.

The Main button (filter) is the primary operators screen. It contains the controls as listed in section 1.1.

##### **1.4.1 CCTV:**

On selection of the CCTV application filter the appropriate icons assigned to the CCTV function shall be displayed and all CCTV functions shall be enabled.

1.4.1.1. Live Camera View: Selection of a camera icon shall switch the image from the camera to the spot monitor and a window on the security management application. It shall be possible to view the image full screen with all telemetry controls necessary to operate the camera presented to the operator. If the image is from a PTZ camera it shall be possible to control the camera via the touch screen, mouse, or USB 3 Axis joystick. The system shall allow a USB joystick to be connected to each PC position.

Live Video: Shall allow the user to freeze the live image, with the options to save, print or e-mail the image. The user shall be able to export video to an analog monitor, a DVR or a file, which can be saved to a CD/RW.

1.4.1.2. Camera by Number: Shall enable users to enter the camera number to be displayed on the spot monitor and video window together with the related graphic.

1.4.1.3. Cameras List: Shall enable the user to select a camera from a list to appear on the spot monitor and video window together with the related graphic.

1.4.1.4. Stored: Shall open stored images files.

1.4.1.5. Camera Tour: Shall allow the user to manually select a pre-defined camera tour. The camera tours shall also be activated with an alarm scenario or by a time profile.

1.4.1.6. Monitor Wall: Shall allow the user to select a monitor on which to display a specific camera.

1.4.1.7. Events: Shall show a list of the alarm events.

#### 1.4.2 Intrusion Alarms:

On selection of the appropriate Alarm application filter, the icons assigned to that sensor Alarm type shall be displayed and all Intrusion Alarm functions shall be enabled.

1.4.2.1 Alarm Acknowledgement: The user shall be able to acknowledge the alarm and then access, reset or secure the alarm.

1.4.2.2 Alarm Notes: The operator shall have the option to record details of the event either from a drop-down menu of standard responses or by entering text. An on screen keyboard shall be made available for this action. All text records shall be added to the system log file.

### 1.5 PC Workstation

The PC workstation shall be Windows® based. The operator shall be able to configure and maintain the system, view live and recorded video from both local and remote sites, manage alarms and monitor overall system performance.

The Perimeter Security Manager application shall be installed onto a PC with the following specification:

#### **Security Management Workstation PC**

Operating System:	Windows 2000, XP Professional
CPU:	Pentium IV, 2 GHz
Memory:	256 Mb Ram
Hard Disk:	20 Gb
Mouse:	PS/2
Ethernet Adapter:	100 Base T
Ports	1 Serial, 1 Parallel
Video Adapter:	Matrox Millennium G550 – Analog Export Card
CD/RW:	X16
Monitor:	17" minimum, 1024x768 Color
Power Consumption PC:	Peak – 200 watts, Operating – 140 watts
Power Consumption Monitor:	Peak – 360 watts, Operating – 280 watts

### 1.6 Network Communication

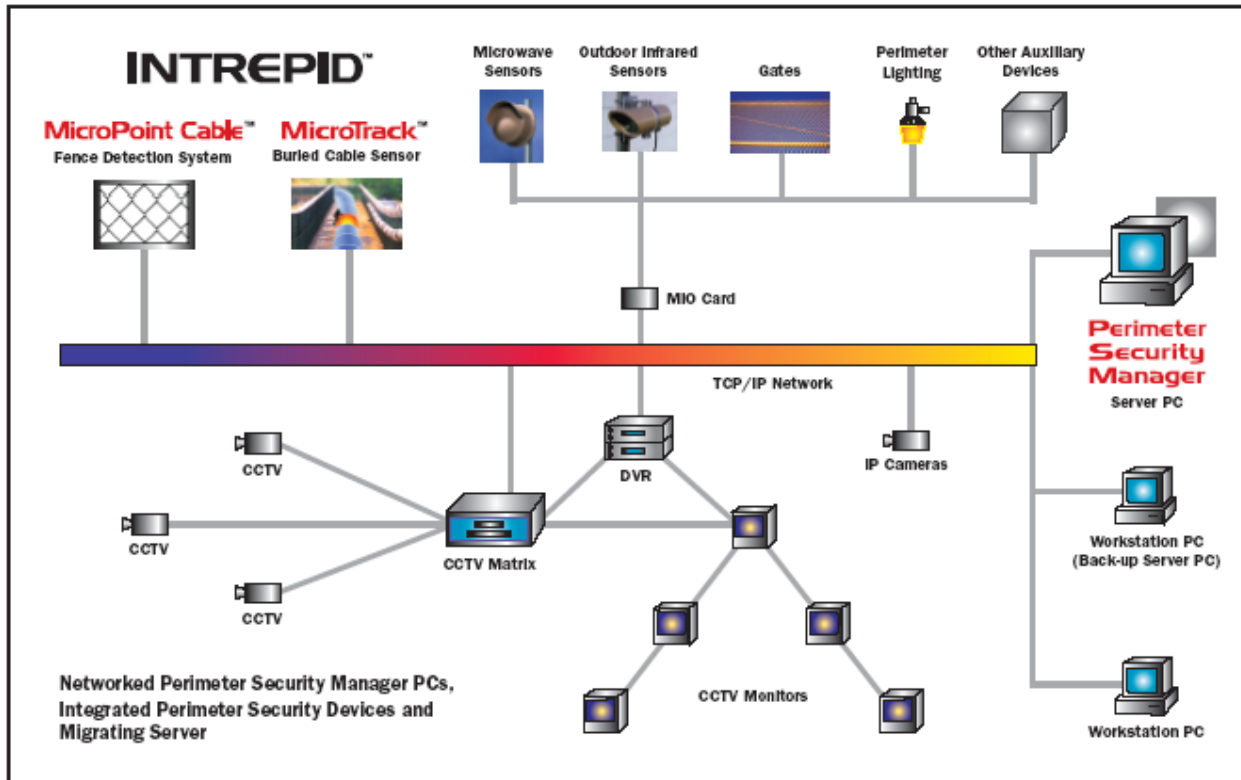
The Security Management System shall provide a unique method to provide system integrity and redundancy using a hierarchical list of migrating server PCs. A TCP/IP network connection shall be required to connect the workstation PCs and the integrated security applications to their associated hardware.

1.6.1 Migrating Server: In the event of server PC failure, a designated PC workstation shall automatically replace the server and all other workstations shall automatically communicate to the new server PC. The user shall be able designate workstations in priority order to take over in the event of server failure.

1.6.2 Serial to Ethernet Connection: All serial devices shall be connected to a TCP/IP network using serial to Ethernet converters.

## 1.7 Configuration Diagram

The following diagram provides a sample configuration of Perimeter Security Manager System Workstation PCs on a network.



## Perimeter Security Manager Software Drivers

February 2008

The following is the current list of drivers available for the Perimeter Security Manager. Check with Southwest Microwave for drivers of equipment not listed.

### CCTV MATRIX

SYNECTICS  
BBV  
ERNITEC  
BOSCH  
VIDEO BLOX  
PELCO  
COE  
MOLYNX  
TECTON  
DEDICATED MICROS  
MEYERTEC  
VICON  
AMERICAN DYNAMICS  
BAXALL IP CAMERA  
LEDERER  
BAXALL  
MAXPRO

### MODEL / INTERFACE

PC232 INTERFACE FOR X 2600 SERIES  
TX1000, TX1500  
SYSTEM X (LON 1141, 1141CX, 1141SX)  
TC8000, 8500, 8600, 8700, 8800 ALLEGIANT  
ALL RANGES WITH REVISION 3 PROTOCOLS  
CM 6800/6700/9740  
TW 16PC, TLU16PC TELECOMMAND  
TTX 309 (DCCON AND TTX309 INTERFACES) + PCCON  
DRAX (MULTIPLEXER)  
BX2 (MULTIPLEXER)  
ZONE VU SDK (ZSC 250) INTERFACE  
ALL RANGES from 2002  
(AD1024 MEGAPOWER 2 CPU)  
GTN AP1 PROTOCOL  
Various Models  
ZTX80 Telemetry  
MAX 1000

### PERIMETER SYSTEMS

SOUTHWEST MICROWAVE  
SOUTHWEST MICROWAVE

### MODEL / INTERFACE

INTREPID MicroPoint Cable Fence Detection System  
INTREPID MicroTrack Buried Cable Detection System

### DVR

FAST  
ERNITEC  
DVTEL  
PI VISION  
SYAC  
AMERICAN DYNAMICS  
VIGILANT  
VISIMETRICS  
COVI TECHNOLOGIES  
GEUTTEBRUCK

### MODEL / INTERFACE

BLUE & SILVER RANGE  
6000 SERIES DIGIOP  
LATITUDE Visual Basic SDK  
SDK (refer to Tech Support Department)  
DIGIEYE  
INTELLEX  
ENTERPRISE ELITE  
FASTAR and OCTAR  
COGNITIVE VIDEO DVR@4  
MULTISCOPE 2

### CODEC/IP CAMERAS

COE  
INDIGO VISION  
AXIS

### MODEL / INTERFACE

X Class codec G2/3 full interface with  
Quad Video streaming, Audio and I/O  
CONTROL CENTRE INTERFACE\* and Pelco  
Keyboard functionality  
IP

\* Switches cameras to monitors only