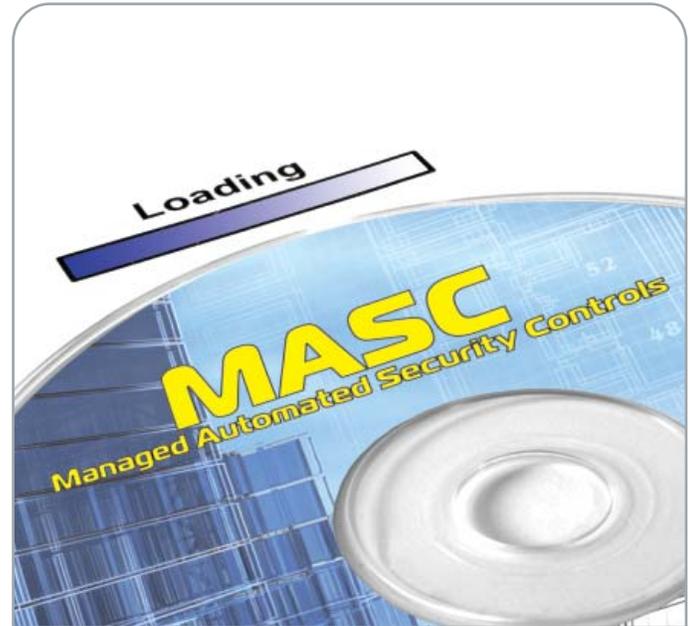


Managed Automated Security Controls (MASC) from VUANCE, Inc. is a scalable enterprise-class application designed to integrate, control and automate access control, intrusion detection, alarm monitoring, intercom, video surveillance, DVR systems, photo ID badging and Programmable Logic Controllers (PLC) into one seamless software package.

MASC's graphical user interface (GUI) provides operators with a visual representation of their facility. Symbols, icons, sounds and text are dragged and dropped onto imported maps or floor plans and display the real-time status of one or many points. Over 50 different operator control functions can be linked to these objects and automatically executed with a click of the mouse or touch of the screen. Even the response can be pre-determined based on the status of the point being controlled.

With only five main screens in the entire application, the status of a facility is always at your fingertips – not hidden under layers of menus or multiple screens.



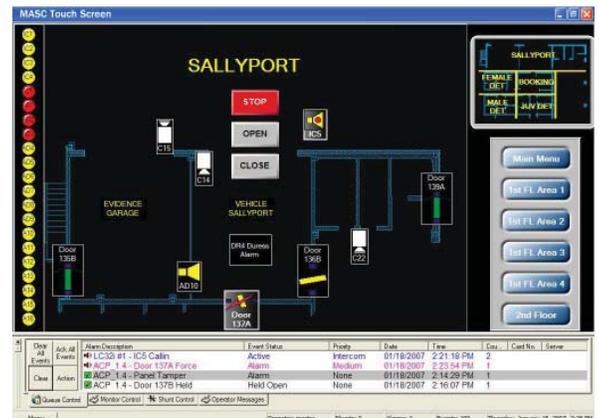
## Main Features

MASC is a multi-user, multi-tasking solution that can be applied to single buildings, multiple buildings, sites or cities.

MASC operates in conjunction with VUANCE's MAC-Series controllers. The controllers utilize Echelon's LonTalk® (ANSI 709.1) communications protocol to deliver all the power of a PLC in a distributed processing environment. Access control is no longer limited to just opening a door; internal ladder logic can be customized to meet specific needs. Peer-to-peer communications allow direct communication between controllers. One switch can be programmed to unlock any number of doors on multiple controllers.

Facility security is ensured if communications with the primary host is lost. LonTalk provides redundant communications through primary and secondary network interfaces.

- Integrated, open-architecture interoperable platform
- User-defined customizable graphical control interface
- User-defined functionality
- Drag-n-drop controls, ladder logic programming or both
- MSDE or MS-SQL database
- Database partitioning
- Single or multi-server configurations
- Native client/server architecture
- Ethernet LAN/WAN compatible
- TCP/IP protocol is standard
- Meets UFGS 13801 and UFGS 15951
- FIPS compliant



## Standard Features

### Custom Graphical Control Interface

- Design custom floor plans/maps, card holder screens and custom photo ID badges by dragging pre-defined symbols from the images directory and dropping them on a building layout, screen or badge template.
- Pre-define actions to be executed upon the occurrence of event. Previously defined actions can be changed at any time and as often as needed. Multiple events are processed simultaneously in a multi-tasking, multi-threaded environment.
- Customize messages, priorities, colors, action groups, audio sounds (.wav files), functionality and icons associated with alarm and event conditions.

### Access control

- The Cardholder database is user-definable. You can use the standard interface or develop your own.
- MASC comes with a run-time version of MSDE and MS-SQL server. It can also be programmed to operate from a remote SQL server.
- Any number of Access Levels can be assigned to a Cardholder.
- Normal, Visitor, Guard, and Supervisor card types are all available.
- Card Search can be customized to search on any field.
- Automatic Activation, Expiration dates

### Photo ID

- Custom Badge layouts are created through drag-n-drop controls.
- Database Fields, Images, Photos, and Text are all user-definable.
- Colors, Fonts, Size, Placement, and Justifications are selectable.
- Full support of Vertical, Horizontal, Front and Back layouts.

### Alarm Monitoring

- Every point can be uniquely programmed to determine if it should be routed into the Alarm Queue.
- Points can be programmed to require Acknowledgments, Comments, or Clear functions.
- Color coding and priorities are user-definable.
- Text-to-speech can automatically announce alarms.
- A single click on a point brings the operator to the desired graphic screen.
- Any one point will not take up multiple lines but have a count function to display the number of times tripped.
- Email notification of given alarms.

### CCTV Integration

- Live Video call-up from within the program
- Automatic or Manual call-up of Video
- Support of NTSC or IP based video call-up

### Standard and Custom Reports

- Create a historical report on any given point, for any given time frame.
- Users define what information is included in the Card Database reports.
- Supports Crystal Report Generator for custom reports

## Operator Restrictions

- User defined system access privileges for card data, assigning, editing, or deleting cards, assigning access levels, creation of badges, programming field panels, creation of maps, Setting system parameters, or viewing system operators.
- The database can be partitioned so only operators with the appropriate access levels can view data for their area.

## Software Options

- Multi-DB Module- Asset and Personnel Tracking
- Radionics D6600 Alarm Receiver Driver
- Europlex AddPlex and 3GS Alarm Panel Driver
- EST-III Fire Alarm Panel Driver
- OPC PLC Server Package  
(Required for controlling PLC equipment)
- OPC PLC Client Module  
(Required for controlling PLC equipment).

## System Interfaces

### CCTV

Panasonic HD500  
DVR  
Loronix VM/VR DVR  
Phillips Allegiant  
8000  
VICON VPS-1300  
MUX  
PELCO 9000 MUX  
DM Uniplex Series II  
Kalatel KTD-304 PTZ  
NICE NiceVision DVR  
Lanex DVR  
Ultrak 6000 DVR  
Kalatel Calibur DVR  
General Solutions

### CCTV cont'd

DVR  
VideoAlarm PTZ  
Syscom DVR  
American Dynamics  
Megapower  
Regard DVR  
**Intercom Drivers**  
Rauland/SecurePlex  
TOA VS900 Intercom  
Aiphone AI900  
Intercom  
Stentofon 9600  
Stentofon AlphaCom  
Jeron Intercom

### Lighting Control

NexLight LCU

### Perimeter Systems

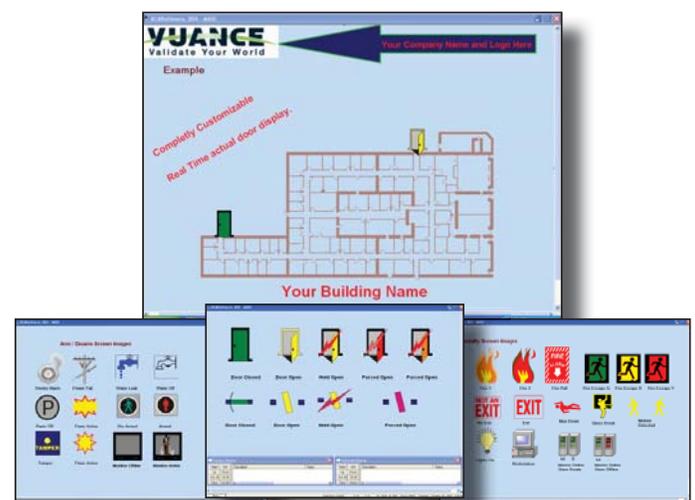
Perimeter Products  
Integrated Security

### Fire/Burglary Hardware Drivers

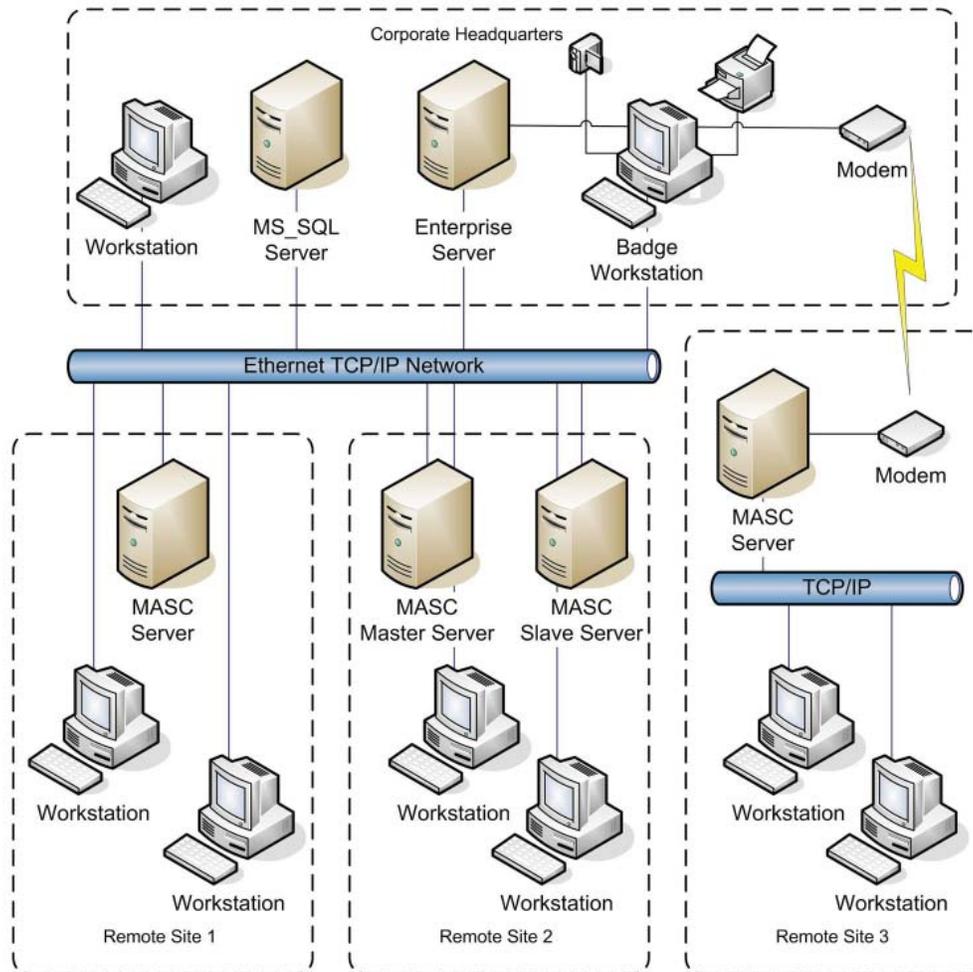
Edwards ESTIII FACP

### Emergency Response

Protect ERS System



## MASC Enterprise Functionality - Top Level Network Diagram



## Parts and Ordering Information

Software Packages	
MASC-SVR1	MASC Server Package 1: Single-User Only. 10,000 Cards with Badging, 32 Readers, 256 Inputs/256 Outputs. No Graphic Maps.
MASC-SVR2	MASC Server Package 2: Multi-User. 50,000 Cards with Badging, 128 Readers, 1024 Inputs/1024 Outputs. Full Graphic Maps.
MASC-SVR3	MASC Server Package 3: Multi-User. 80,000 Cards with Badging, 256 Readers, 4096 Inputs/4096 Outputs. Full Graphic Maps.
MASC-CWS	MASC Client Work Station
Software Capacity Options	
MASC-CRCAP-32	Additional 32 Readers
MASC-IOCAP-128	Additional 128 Points
MASC-CHCAP-5K	Additional 5,000 Card Records

Software Driver Options	
MASC-CAM-32	DVR-CCTV Per 32 Cameras
MASC-MON-4	DVR-CCTV Per 4 Monitors
MASC-ADP-DVR	Adpro DVR Series
MASC-AD-CCTV	American Dynamics Megapower CCTV Switcher
MASC-AXS-DVR	Axis Digital Video Server
MASC-PHP-CCTV	Bosch (Phillips) Allegiant 8000 CCTV Matrix Switcher
MASC-PHP-DVR	Bosch (Phillips) Desa Series DVR
MASC-DM-DVR	Dedicated Micros DVIP and Digital Sprite DVR
MASC-GS-DVR	General Solutions Digiop DVR
MASC-IS-DVR-01	Intelli-Site DVR Module - Per 8 Inputs (Req hardware)
MASC-KTL-CCTV	Kalatel CCTV KTD-304 PTZ

### Requirements

#### Operating System

Microsoft Windows 2000 Service Pack 3 or Window XP Pro with Service Pack 2 with Internet Explorer 6.0

#### Processor

Pentium III 1 GHz Processor

#### Memory

256mb, 1 GB total

#### Disk Space

200MB, 40GB total

#### Video Board

Support 65K Colors, Minimum 1024 x 768 resolution

#### Input Devices

Mouse, keyboard, and 24X CD drive

#### Monitor

Minimum 17-Inch VGA, Touch screen optional

#### Networking

Network interface card (NIC) with Windows networking TCP/IP installed.

#### Ports

RS-232 Port

### Parts and Ordering Information continued

Software Driver Options continued	
MASC-KCAL-DVR	Kalatel DVMRE Calibre DVR Device Driver
MASC-NCE-DVR	NICE NiceVision DVR
MASC-PAN-CCTV	Panasonic PS-Data CCTV
MASC-PEL-CCTV	PELCO 9000 MUX CCTV
MASC-ULT-DVR	PELCO 9000 MUX CCTV
MASC-LRX-DVR	Verint (Loronix) VM/VR DVR
MASC-LNX-DVR	Verint (Lanex) DVR
MASC-VDA-PTZ	VideoAlarm PTZ
MASC-VIC-CCTV	Vicon VPS-1300 MUX
MASC-VIC-AUR-CCTV	Vicon Aurora CCTV Multiplexor
MASC-VIC-KOL-DVR	Vicon Kollector DVR Series
Intercom Software Drivers	
MASC-AIP-AI900	Aiphone AI900 Series Intercom
MASC-RSP-D1	Rauland SecurePlex Intercom I/O
MASC-TOA-VS900	Toa VS900 Intercom Series
MASC-STF-ACOM	Zenitel (Stentofon) Alphacom Series
MASC-STF-9600	Zenitel (Stentofon) 9600 Series
Other Software Options	
MASC-MDB-SQL	Multi-DB Module- Asset and Personnel Tracking
MASC-D6600-D1	Radionics D6600 Alarm Receiver Driver
MASC-EPLX	Europlex AddPlex and 3GS Alarm Panel Driver
MASC-FACP-EST	EST-III Fire Alarm Panel Driver
Access Control	Please Call Factory
MASC-OPC-SVR	OPC PLC Server Package (Required for controlling PLC equipment)
MASC-OPC-CL	OPC PLC Client Module (Required for controlling PLC equipment)