



AXCYS

Security Management Systems



by Global Electronics, Ltd.



Included Features

- Software Updates
- Software Upgrades
- Continuous Support
- Software Licenses
- NEVER discontinued a product!



AXCYS

EMBEDDED



Security Management System

Global Electronics, Ltd.
Serving the Self Storage Industry
Since 1995



www.axcys.com



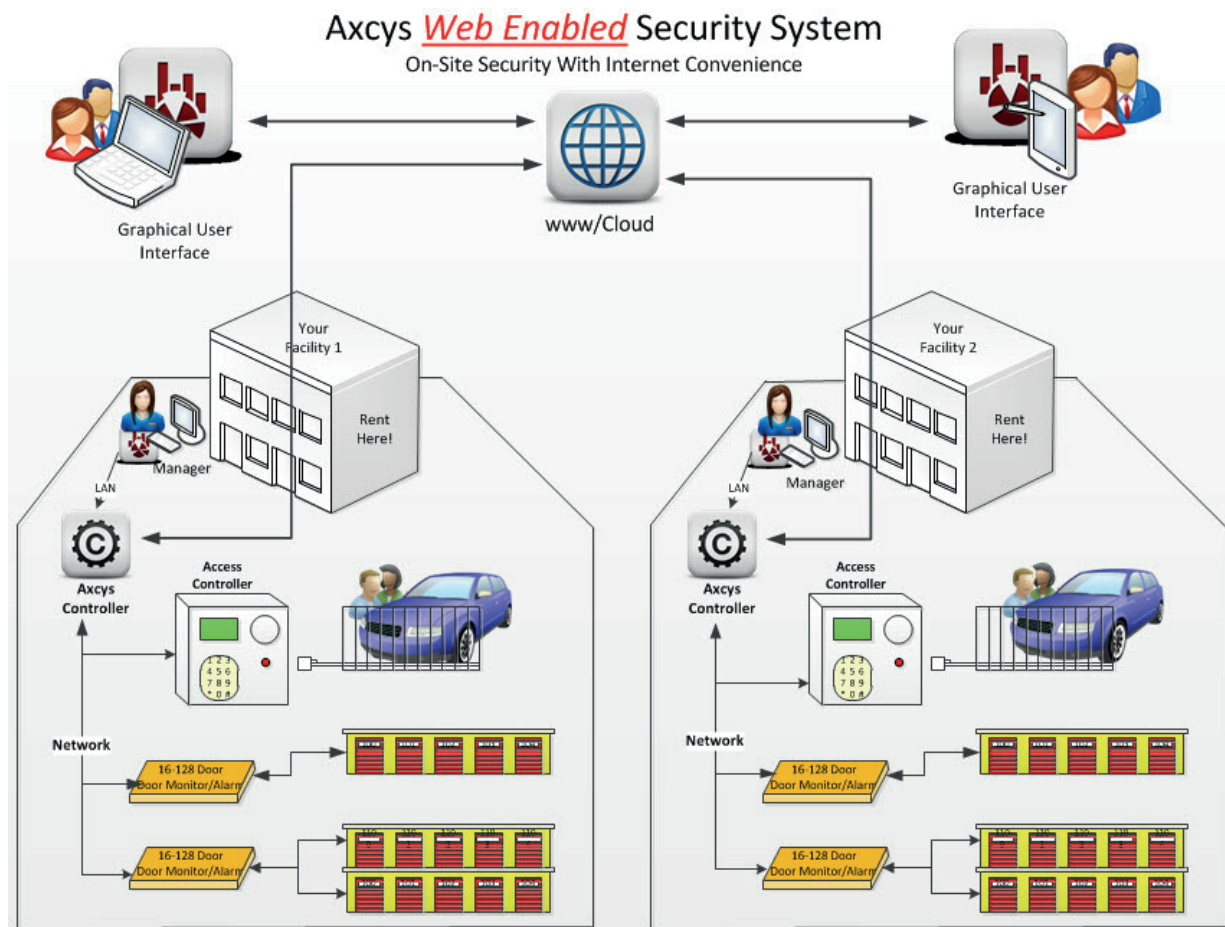
500 N 56th Street Ste15
Chandler, AZ 85226
800-591-6989
global-electronics.com
sales@global-electronics.com

Overview

Axcys Facility Security Management System Controller is the high performance, Automated and Autonomous Electronic Control Center designed to manage Tenant and visitor movement and accessibility **in, out** and **within** your Self-Storage Facility 24 hours a day, 7 days a week, 365 days a year.

This platform, features enterprise class reliability, available integration with your Property Management System, Elevator Control, Perimeter Alarm panel and Fire Panel - resulting in a complete Facility Security Management System.

Our engineers pre-configure the Controller so that it is tailored to meet the needs of your specific Facility - right out of the box. Your choice of Axcys Software is installed and system tested; facilitating rapid installation in new, or retrofit environments - Enterprise class.





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With more than 20 years of direct experience identifying and solving these challenges, Axcys is The Solution for you!

Axcys Introduction

The first and primary method of “Active Security Solutions” is Access Control. The fundamental task and responsibility of any quality Access Control System, is to keep out those who should be denied entry/exit or have access rights limited to certain areas only. As part of this basic task is the responsibility to prevent those who manage to “tail gate in” from getting out.

To further enhance **Axcys’** Access Control, many other built-in features are included. These provide the Facilities Owner/Manager/Operator with a completely configurable system to suit their particular needs and requirements. Features such as unlimited Time/Tenant Zones; unlimited Keypad/Location Zones, Anti-Pass Back and Anti-Pass In. Each feature increases your Facilities ability to provide Access Control to specific designated areas.

Bespoke, Purpose Design

Each of Global ‘s products are bespoke, purpose engineered, specifically for both Managed and Reduced Management facilities of all kinds, utilized in even the harshest environments around the world.

Global Electronics offers several different Access Control solutions including Keypad models with options to enhance the security of the Tenants, and Facility. These include and All Metal Touch pad, VoIP Telephones, Intercom, High Resolution Cameras and Gate/Door Position Monitoring. Most interesting are Axcys’ soon to be available, specialized WiFi that allows only those smart phones that have been **pre-approved** to work with a particular Facility or access point within the Facility to be used as a PIN Pad. Another is **Axcys Request** - a Web based Tenant Permission system designed to provide the ultimate Security Solution by completely eliminating “shared” PIN’s.

Solutions wrap up

Axcys, by Global Electronics, provides the purpose designed, bespoke management systems needed and necessary, to solve these and other challenges! Customized, End-To-End control, is provided by Axcys’ extremely flexible systems and systems software configuration. **You** are in control with unique systems configuration and management tools including continuous activity and event recording. The system is completely expandable and upgradeable, at any time, providing the ultimate in systems flexibility and protection of your investment. **Global has never discontinued a product** and designs new products to work in both existing and new facilities ensuring Backward and Forward compatibility thus, allowing our customers to leverage new technology as it becomes available or necessary.

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Axcys Embedded

Optimized Performance - Size - Features - Cost - Benefits!

System Controller + Axcys Security Manager

The Axcys Embedded Controller is an Autonomous - state-of-the-art - Intelligent Platform designed to manage all aspects of modern Self Storage Facilities including Security, Access Control, Individual Unit Alarms, Elevators, Lighting, Perimeter Alarming and De-Arming. Global embeds into this Autonomous System all necessary components to create a stand-alone, fully encapsulated, Controller that does NOT require an external PC, Server, Internet or LAN to operate. If a PC crashes, the Axcys Controller still operates! If the Internet or LAN goes down, the Axcys Controller continues to operate. An industrial strength, ultra-high reliability System providing you, your facility, Tenants and Managers with peace of mind 24/7/365!

Axcys Embedded by Global Electronics, comes ready to run with a powerful, robust and inherently safe Linux Operating System. Designed to be easy to use through a familiar Web Browser interface and secure against PC user error, other unauthorized/undesirable human interaction and intrusion both from curious employees and outside malware attacks - thus fulfilling our commitment to providing a complete, user friendly but formidable state-of-the-art Self Storage Security System.

Security - While its convenient to manage, maintain and configure your access control and security system from a desktop, you do not want it hosted on that computer. Symantic Corp, identified 430 million new and unique pieces of malware last year alone. Axcys Embedded gives you the convenience of desktop management via your browser, but the security of a dedicated server.

Reliability - Sometimes there are events that can impact your customers access. Cable cuts, tree downs and others can cut off communication to your facility. With Axcys Embedded your facility is still online and accessible by customers, regardless of the state of the network.

Ease of Use - You can install Axcys Embedded quickly with little technical resources and be online by the end of the day. Familiar interface via browser will allow you to quickly and easily assign, name and configure your assets.

Like all of Globals products, Axcys Embedded is designed specifically for the challenges of Self Storage environments. Independent of a PC, Server AND the Internet, the System Controller provides 24/7/365 performance whether a PC is present or not. This is accomplished by leveraging a unique combination of Internet "Available Anywhere" benefits, but **without the reliance** or necessity of the Internet!

Additional Features and Specifications [here](#)





Axcys Embedded System Controller Features and Benefits



Feature		Benefit
Web application User Interface	✓	Provides a solid layer of security preventing unauthorized user access
Never discontinued a product	✓	Peace of mind - Global has never in 20 years discontinued one of its products
Bespoke Design	✓	Designed expressly for this application.
Experience	✓	Experience Counts! 20 Years providing specialized solutions!
No PC required	✓	Gates operate whether your PC is on, off, has a virus etc.
Autonomous - No human intervention	✓	Runs on its own, without human intervention 24/7/365 Eliminates human error/abuse keeping it free from malicious software virus
No LAN required	✓	LAN is necessary only to update the database of Accounts. All existing Tenant Accounts, permissions, Keypad (Area) Zone Controls operate autonomously
No Internet	✓	Internet is not required to operate or for updates from the Property Management System
State of the Art Industrial Grade platform	✓	Designed with only industrial grade electronics normally used in machines like ATM's and Kiosks
Supports both Axcys Software products	✓	Supports both Axcys Security Software (Windows) and Axcys Facility Security Manager - Windows or Linux
Choice of Operating System	✓	Avail 2016, choose Windows or Linux operating systems
Redundant Communication option	✓	Optional configuration supports Dual Communicator
No Monitor, keyboard or mouse	✓	Enhanced security so employees may only use this for Access Control
Real-Time Data Recording	✓	Every action is recorded and reportable at any time in the future
Solid State Non-Volatile Memory	✓	Ultra reliable, no moving parts and very fast
All-in-one self contained design - All components enclosed in a single compact case	✓	Compact size. Reduced wires and clutter in the office. Secures the main "brain" of your Access Control System.
Small light dust resistant case	✓	Small Environment resistant desktop case fits anywhere
Power Supply included	✓	Works in all parts of the world
100% modular design	✓	Future proofing and easy in-field, non-professional, maintenance, upgrading
Unlimited Record Keeping	✓	Records are limited, allowing report generation for any period or time
Supports Facility Graphics	✓	Big Screen Birds Eye View Graphix shows real time status of Facility and Tenants On-Site
Fire Panel Input Option	✓	Opens all access points when notified of fire by Fire Panel
Supports Parallel, Star, Tree or any combination of wiring topography designs	✓	Tolerates poor wiring, phased, unplanned existing facility expansions, integrates both legacy wiring and new construction/expansions. Yielding lower cost installations, and ease of adding new remote devices to the facility.
Use existing wiring	✓	Simple, easy to install or replace existing systems



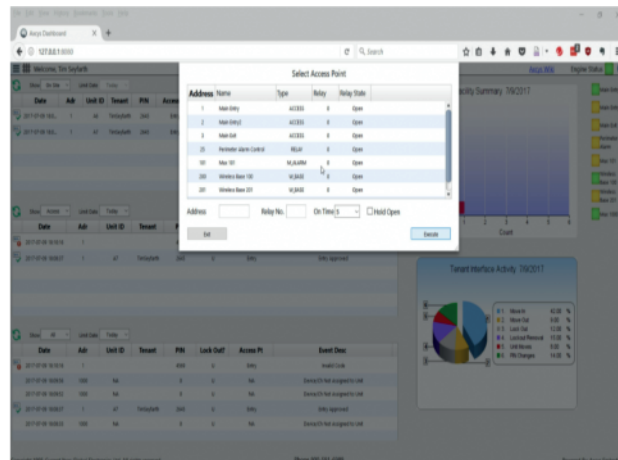
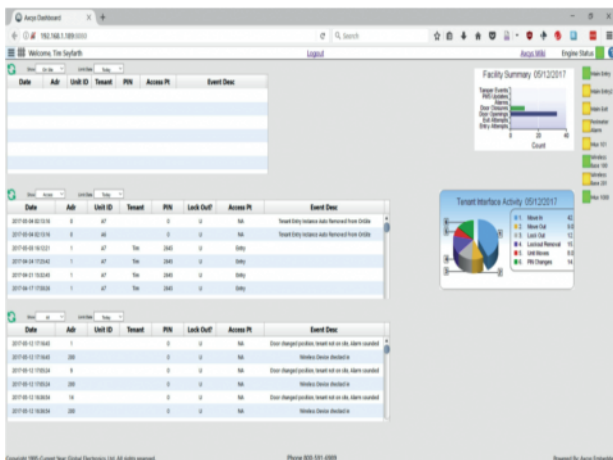
Axcys Embedded is made of two major parts

Axcys Controller - A high reliability bespoke, purpose designed group of electronics enclosed together in a single case. The small footprint fan-less design uses state of the art components running a secure, high performance Linux Operating System. In keeping with all of Axcys products, the in-case components are all modular for easy upgrade and maintenance as required. Comes complete with all multiple indicator lights for easy visual diagnostics, and power supply. Battery backup available either through an Axcys Intelligent Power Supply or a commercial UPS.



[Click here to see more information and specifications](#)

Axcys Security Manager - Web Browser based web application that mimicks the 'traditional' Windows GUI applications owners and managers are used to. However rather than relying on their inherently insecure PC by having to install special software on their PC, Axcys Security Manager is designed to be included as a Web Application in the Axcys Controller. The Axcys Security Manager includes several key components - Graphical User Interface (GUI), Polling Engine, Property Management System (PMS) Interface.



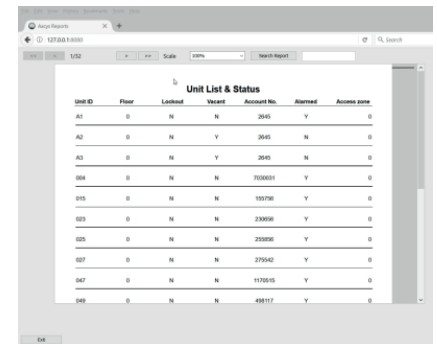
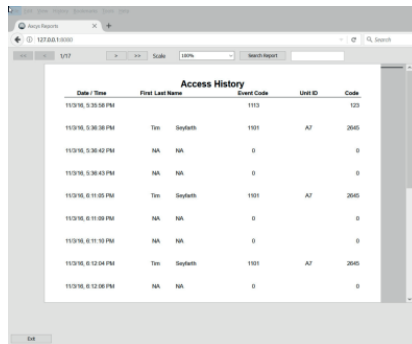
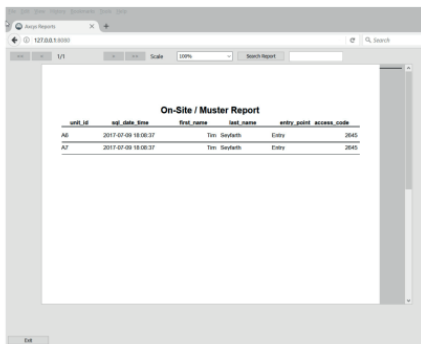
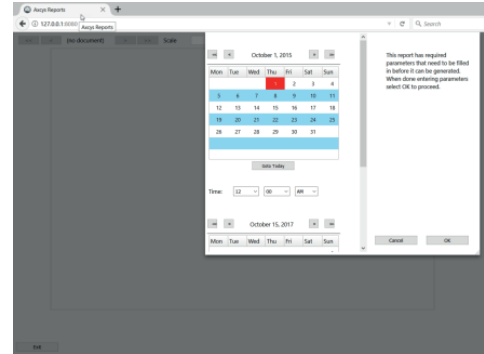
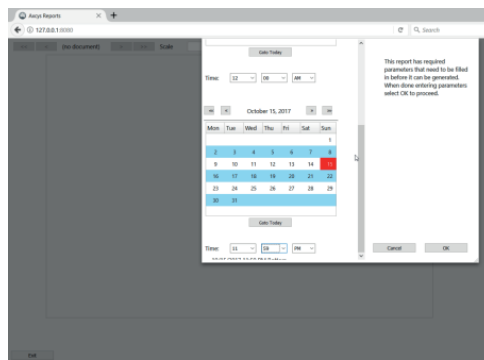
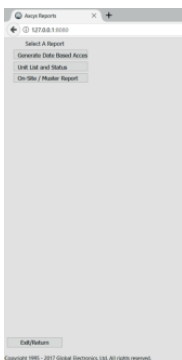
[Click here to see more information and specifications](#)



Real Time Reporting

Every action is recorded, no data is deleted.

Complete, Real Time Reporting. Every action is recorded, no data is deleted. Users can create their own custom designed reports using our report generator. All reports can be viewed, emailed or downloaded as PDF files.





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- **Bespoke, Purpose Designed**

All Axcys System Products are designed and manufactured by Global expressly for the intended purpose.

- **Automated & Autonomous**

100% Automated Facility Control, Completely Integrated with Popular Rental Software.

- **100% Industrial Grade**

Highest Quality Design and Hardware For Demanding Critical Facility Control 24/7/365.

- **Facility Security Control**

Access Control - Unit Alarming - Roller Shutter Motor Control - Elevator Management - Perimeter Alarm Integration - Fire Control Integration - Gate Position Monitoring - Man Door Monitoring - Lighting

- **Web Enabled**

A unique combination of Internet flexibility without the reliance on Internet Availability!

- **Facility Perimeter Security**

Integrates with Perimeter Alarm and/or Fire Panel

- **Facility Graphics**

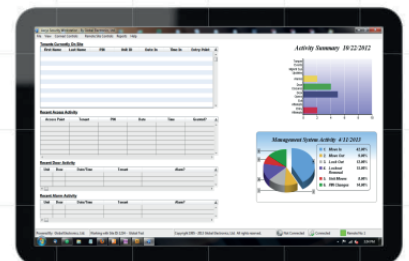
Active Visual Facility Notification

- **Expandable and Up-Gradable**

Expandable as Your Facility Grows - Up Gradable to include most new products

- **Multi Platform**

Available in your choice of Linux or Windows Models.



For Computing Use Only. (S)

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Axcys System Features and Benefits

<u>Feature</u>		<u>Benefit</u>
Never discontinued a product	✓	Peace of mind - Global has never in 20 years discontinued one of its products
Bespoke Design	✓	Designed expressly for this application.
Experience	✓	Experience Counts! 20 Years providing specialized solutions!
Redundancy	✓	Optional power systems
Data Preservation	✓	No data is ever deleted. There is no maximum amount or time limit
Real-Time Data Streaming	✓	Streaming from Controller on-or-off site graphics and work stations
Monitoring	✓	System monitoring similar to commercial alarms - 1/2017
Multi-Facility Monitoring	✓	Allows a central location/facility to monitor and manage more than one property
Simultaneous Multi-Facility Monitoring	✓	Allows simultaneous multi-property management
Centralized Control Center	✓	Control room style allows a central location to monitor many facilities simultaneously
Electronic Locking	✓	Axcys locking system combines the best of a centralized control with a distributed control system. Reduces cost, complexity, wiring, installation and maintenance costs. Uses locks not made by Global.
Perimeter Door Locking	✓	Manages correct locking of perimeter door in conjunction with perimeter door status
Perimeter Alarm Interface	✓	Controls the Shunting of Perimeter Door Alarm
Perimeter Alarm Monitoring Interface	✓	Interfaces with recommended Alarm Panels
Interior Unit Locking	✓	Unlocks and locks interior doors based on Tenant Entry attempts
Interior Unit Alarming	✓	Manages interior door alarming based on tenant keypad use
Perimeter Door Locking/Alarming	✓	Works with alarm panel and monitoring
User Programmable Override Parameters		Complete flexibility including Perimeter Alarm shunting, time based shunting, *time of day shunting, man trap - twin entry door control
Interior Door Locking/Alarming User Programmable Override Parameters	✓	Each interior lock controlled space is monitored. If its door is opened without the Tenant first entering their code, the alarm is engaged
Door Position Check Before Lock	✓	Proper unit operation management
Manages Multiple Units Per Tenant	✓	Ease of access for Tenants
Automatic Account Suspension	✓	Forces past due Tenants to pay their bill, or forfeit the contents of their unit
Suspended (Locked Out) Accounts work on Entry and Exit	✓	Catches suspended Tenants even if they tailgate (follow) another Tenant inside.
Maintenance Personnel Codes	✓	Provides tracability and user configurable access control for Management and Maintenance personnel.
Zone (area) access control	✓	Provides an additional level of access control within a facility.
Unlimited Time Zones	✓	Tenants may be assigned separate access From/To times you see fit
All Parameters fully adjustable	✓	Management maintains complete control over how the system is used and how it allows/denies access everywhere
All actions recorded into Database for reporting	✓	Enables Summary and Detailed report generation without time restrictions. Data may be manipulated for many different uses.
Unlimited Door Lock Record Keeping/Reporting	✓	Enables Door Lock Command Summary and Detailed report generation
Unlimited Door Position Record Keeping/Reporting	✓	Enables Door Position Summary and Detailed report generation.
Unlimited Tenants	✓	Allows facility growth
Unlimited Record Keeping Time	✓	Records are not time or space limited, allowing report generation for any period from the time the system is installed
Multi-Facility Monitoring	✓	Allows a central location/facility to monitor and manage more than one property
Simultaneous Multi-Facility Monitoring	✓	Allows simultaneous multi-property management



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Security Management System

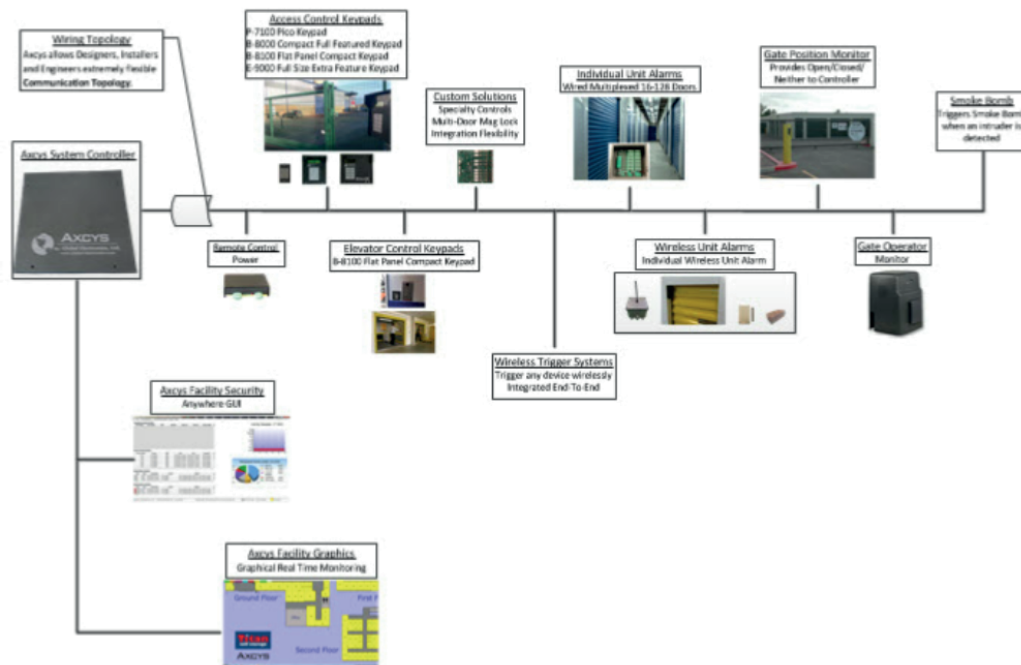
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Axcys Access Control System

Part of the Axcys Managed Facility Solution

End-To-End Systems Integration



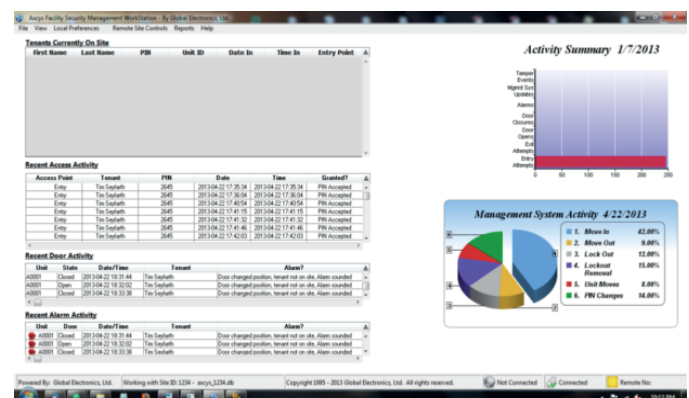
The Monitored, Managed and Controlled Facility

Modern Self-Storage facilities feature many active and passive access points and portals in their labyrinth of buildings, floors, hallways and units. These may include Entry Gates, Exit Gates, Elevators, Roller Shutter Doors, Man Doors and Unit Doors. The Axcys Facility Security Management System is designed to incorporate these systems to provide feedback, in **real-time**, for the control, monitoring and security of the Self-Storage Facility.

There are many ways to implement controlled access and/or monitoring of these access points and portals. Axcys Facility Security Management System covers them all! Designed to efficiently and effectively support an unlimited number of monitoring and control devices from a single Facility Security Management System Controller, real time access control, monitoring and feedback to Tenants, Visitors and Managers is provided.

Incorporating modern software, developed by Global expressly for Self-Storage, provides managed communication with unlimited Remote Devices such as Keypad Access Controls, Multiplexed Alarms, Wireless Alarms and other devices. Specialty devices provide confirmation of facility workings - such as Timing Devices and the Gate Monitor that detects when the gate is open, closed or in between.

Axcys GraphicX completes the Facility Security Management solution by providing a control room of visual means for the Facility Management team and Tenants.



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Why Linux!?

***Web application User Interface** provides a solid layer of security to be sure users cannot access “under the hood” setting.

Open Source - Millions of developers world wide help to maintain and grow Linux thanks to its Open Source licensing; free to use as well with virtually unlimited community support on-line.

Millions of users and uses - Linux runs everything from Computer Servers to automobiles to refrigerators and everything in between; your cell phone of course!

https://en.wikipedia.org/wiki/Linux_on_embedded_systems

Stability - Rarely needs to be restarted/rebooted. Normally updates are not required especially when used in a bespoke specific purpose embedded application/environment. Many Linux users have never seen a crash. That's great for users of every kind, but it's particularly valuable for embedded applications that run mission critical applications such as Access Control and Alarm/Monitoring Systems. Downtime for these come with disastrous consequences.

Security - Rarely attacked by virus and other malware. A solid lock down permissions system ensures users cannot access core settings and malware attempted attacks are stopped before they can start! Linux, which was designed from the start as a multi-user operating system utilizes a series of flexible layered permissions system. Only the administrator, or root user, has administrative privileges, and fewer users and applications have permission to access the kernel or each other. That keeps everything modular and protected.

<http://www.theserverside.com/feature/Embedded-operating-systems-Linux-versus-Windows>

Although the following link is aimed at desktop users, it provides an easy to understand overview of Linux and its security. <https://wiki.ubuntu.com/BasicSecurity>

Size - Linux has a very small footprint - small code size - so it takes less space. Optimizes memory use and non-volatile storage really well.

Comparison of Linux to Windows - <https://www.computerhope.com/issues/ch000575.htm>

Resources on the web:

https://www.pcworld.com/article/204423/why_linux_beats_windows_for_servers.html

<http://www.pcworld.com/article/2013431/10-reasons-to-choose-ubuntu-12-10-over-windows-8.html>

<https://itsfoss.com/linux-better-than-windows/>

<https://www.infoworld.com/article/3026209/linux/why-linux-is-still-better-than-windows-10.html>

<https://www.storagecraft.com/blog/linux-advantages-disadvantages-open-source-technology/>



All Axcys System Controller Models feature:

- Many benefits for large or small facilities
- Autonomous operation
- Designed for extreme reliability - performing the most arduous, continuous, mission critical tasks
- Leverages power of the Internet without Reliance ON the Internet
- Independence from PC's
 - A) No reliance on PC's prone to
 - B) Crashing
 - C) Virus
 - D) User error
 - E) Unauthorized/undesirable human interaction
- Integrates with Property Management Systems World-Wide
- High Quality industrial grade components
- 100% Solid State, non-volatile memory
- Unlimited user creatable keypad messages in YOUR language
- Date & Time Format US/UK/EU User Selectable
- Comes completely configured ready to operate YOUR facility
- Easy install, setup and serviceability
- Extensive Surge and Lightning protection built in
- Modular design for easy upgrade and field service
- Desktop Case design
- Low Heat, High Reliability Fanless Design
- Built-in WiFi
- Audible user feedback

Fully user configurable feature sets:

- Programmable Relay On-Time
- High security inside and out - PIN Masking-display any character desired instead of actual PIN
- Display alternates between programmable Greeting /Date/Time/Use Instruction
- Relay Position Confirmation - Confirms to system that relay has executed command
- Fire System Integration
- Perimeter Alarm Panel Integration
- Windows 7, Windows 10 or Linux Operating System
- Axcys Integrated Security or Axcys Facility Manager
- Redundant Auto Switching RS485 I/O Modules
- Battery Backed Intelligent Power Supply

Standard Programmable features

- Unlimited user creatable keypad messages
- Date & Time Format US or UK/EU
- Touch pad 'feel'
- Relay Position Confirmation
- Any device can initiate a relay or other action on/to any other device
- No "language chip" necessary
- PIN Masking
- Display scroll timing
- Relay On-Time
- Communication Timing

Standard Messaging - more available

- Greeting
- Entry
- Exit
- Area
- PIN
- Access denied
- Access approved
- Door Open





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About Global Electronics, Ltd.

Global Electronics, Ltd., established in 1995, is a privately held Arizona Corporation. Our facility is located in Chandler Arizona at 500 N 56th Street, Suite 15, Chandler Arizona 85226. The company was founded as a Contract Manufacturer, manufacturing a wide variety of products to customers which in addition to IBM, Intel, and IPEC, included the then, largest supplier of Access Control and Alarm Systems to the Self Storage Industry -Mini Storage Technology Corporation (MSTC).

Due in large part to MSTC's lack of a continuous improvement program and lack of technical resources within its organization, Global quickly became the "go to" resource for owners of MSTC equipment. This coupled with Globals, history of working with World Class organizations, introduced in 1998 the Axcys product line. The Axcys line of products was created with the specific goal of providing existing MSTC users a means to inexpensively and easily upgrade, keypad and alarm components, in a mix and match; as-necessary philosophy. From that point forward to today, Global still allows for backward compatibility providing a very low costs means for users to upgrade and/or replace their aging or broken equipment.

To this day, **Global continues its philosophy of not discontinuing any of its products**, and still maintains solutions to support users of MSTC electronic devices throughout the world.

Since Global began designing and marketing its Axcys Product line, many new products have emerged from the Global 'skunk works' specifically targeting the needs of the Self Storage Industry. Most notable is our Axcys Security Software, Patented e-LocX - Globals Electronic Door Over-locking System and our Wireless Retrofit Individual Unit Alarm and well as many other unique product solutions.

Global, unlike many of its competitors in the Self Storage Industry, performs most all design, development and manufacturing operations within its factory. Design of all types including hardware, software, electronic and mechanical are all performed within our plant by highly skilled and experienced personnel. Global's manufacturing facility has been organized to effectively manufacture all of its products in a very efficient manner. This allows Global to provide its customers with a very high quality products at a very competitive price. Further, having all aspects of manufacture under our direct control, engineering can quickly produce prototypes, then monitor the production quality of every product at every stage of manufacture!

Global has invested heavily in manufacturing technology and has partnered with some of the finest Arizona based suppliers and other world class companies. These include specialty metal fabrication, paint, and technology companies such as Atmel, Silicon Labs and EAO.

Global is committed to design, manufacture and assembly in the United States.

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Property: Secur Self Storage
Location: Hamburg Germany

Units	1645
Floors	6
Elevators	2
Keypads	5
Muxes	17



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United Kingdom



Portugal



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