Access Control Solutions

Unified Security Management

Averics Systems Inc. 7045 Tranmere Dr, Mississauga, ON, Canada L5S 1M2
Averics  Who we are

• A software development company
• Averics develops open architecture, non-proprietary Access Control platforms
• Founded by security product development professionals
• System development started in early 2011
• First systems deployed in the beginning of 2012
• Major installations across North America, Europe, Latin America
• Head Office in Canada in the Greater Toronto Area
Averics Overview

• 100% web-based.
  • Access from anywhere any time using any major browsers.
  • HTML 5 support Averics Unity

• Unified security platform
  • One common Interface for: Access control, video surveillance, intrusion, visitor management, LPR,

• Freedom to choose between hosted/managed, server-based or appliance-based architectures.

• Universal software interface for all architectures. Direct migration path between architectures.

• Scales from small to enterprise systems, to data centre for cloud hosted environments
Averics Overview

- Open system built to integrate
- Browser Based no need to install & update clients
- Intuitive and easy to use yet extremely powerful.
- Minimal training required, for both techs and customers
- Scales from a single door to thousands of doors.
- Freedom to choose non-proprietary hardware from multiple vendors
- Self explanatory dashboard and monitoring screens make it easy to see and control security points.
- Monitoring Screens dashboards are user configurable
- Global search makes it easy to find any system event or item

Intuitive and easy to use, is powerful
System Basics

- No client licenses required
- No limitation on simultaneous client connections
- No limitation on number of cards or users on any system
- Data entry pages follow same pattern making it easy to work with the system
- Quick search makes it easy to find any record
- Custom images may be assigned to any record
- Save As, allows any record to be duplicated easily
- Multi Edit Tools built in, edit groups of records on the fly
- All connections to third party products and systems are done through a driver
- SDK available for integration
Real-time Monitoring Access

- System monitors real time status of all controllers, doors, inputs, outputs, etc.
- Event Viewer displays a real-time log of all events such as access denied or device alarm, etc.
- Events are hot linked, click and go to additional information
  - Events can have customizable Icons
  - Text of any event can be customized
  - Event colour can be changed
  - Sounds or animations may be associated with events
Real-Time Monitoring Video

- View Live Video, single stream or multiple camera views
- Play/replay video from supported VMS or Network Video Recorders (NVRs)
- Support for camera edge-based recording on an event.
- 2-way audio
- Analytics events
- Start/stop recording
- PTZ control
- Switch stream profile
- Consolidate video from multiple NVRS into single view
Real-Time Monitoring Views

- Custom Dashboards
- Custom monitoring views can be created in seconds
  - View stand alone or drop into a dashboard
- Includes Maps and Floor Plans
- Video Views
- Pop-up floor plans
- Place views on secondary monitors
- Widget-based dashboards with real time links
AES 256-bit encryption between device server and controllers
SSL for thin client / server communications
Passwords never saved in the database. Averics uses a hashing based password storage mechanism
Roles based rights for logins
Service Mode function
Security Policies are constantly reviewed as part of product development and updates.
Features - IT

- Built with standard components
- MS SQL DB
- Multiple application authentication mechanisms supported, including Windows Active Directory.
- Complete virtualization support.
- Infrastructure-based load balancing and/or database clustering may be used.
- Support for third party High Availability and Fail Over Environments
Features - Access Control

- Extended unlock time,
- First Person Delay (Snow Day)
- PIN Commands
- Interlocking
- Anti-passback (local and global)
- Reset forced entry when door closes
- Multifactor authentication
- Dual card rule
- IO linking (local and global)
- Unlock schedules
- Lockdown (Controller level or System wide)
- Access group expiry dates
Features - Access Control

- Multiple card formats supported. Allows for enrollment of legacy cards.
- Card/Fob, PIN, QR Codes, LPR, Mobile Credentials
- Biometrics natively supported, IP & Wiegand
- **Credential types** make it easy to manage credential parameter standardization.
- Credential Format tools
Global Commands

• Automation Tool & IO Linking
• Set a Trigger, it could be a: Command, Schedule, or Event
• Link Action(s)
  • A trigger can be linked to perform multiple actions
    • Send e-mails
    • Send SMS messages
    • Send ASCII text message to TCP/IP, HTTP port
    • Execute actions such as lock/unlock doors, control cameras,
    • Send commands to intrusion panels, etc.
  • No limit to the number of Actions that can be linked to a Trigger
• Local PC-based actions can be execute across devices.
Credential Management

Users & Credentials

- Enrolling new credentials is very easy
  - Present to reader to enroll
  - Unknown credential tool allows One-Click enrollment
  - Bulk cards entry
  - Data import tools for automatic data entry: Users and Credentials
  - Imports can be Scheduled
Data Import

- Import user information from LDAP directory services such as Microsoft’s Active Directory (AD).
  - Add, update or deleted.
  - A user disabled in active directory may be set to deactivate automatically from all controllers.
- Import user data from a flat file source file such as a comma separate file (CSV).
- Import user data from a database management system (RDBMS) such as Microsoft’s SQL server.
- A daily, weekly, monthly schedule may be created to import data on a scheduled time. Additionally, data import may be initiated manually.
- Controllers are updated in real-time when credentials are imported.
Multi-site

- Database partitioning allows system to be partitioned in multiple sites for multi-site monitoring.
- Data from each partition is completely segregated from other sites.
- Doors/inputs/outputs may be shared among partitions. For example, **front door may be shared among tenants in a multi tenant building**.
- An operator may have access to one or more partitions or sites.
- Multi-site monitoring allows alarms originating from multiple sites to be handled by a single operator.
Video Integration

- Add or configure cameras and your other devices from a single unified user interface
- Discover cameras or add them manually
- IP cameras from many vendors supported
- Design your own video views
- Mix cameras, doors, inputs, controllers on the same view.
- Place cameras on interactive graphic maps
- 2-way audio support
- PTZ presets
- Aimetis, Axis Camera Station, Digifort, ISS, Milestone, Panasonic, Samsung, many more...
- Camera import from VMS includes camera names
Alarm Panel Integration

• Disarm alarm panel when a valid card is swiped on the front door
  • No need to wire access control I/O to alarm panel. Do it through software event linking
• Arm alarm panel on multiple card swipes
• Unified log viewer for alarm panel, access control and video events.
• Run reports on alarm panel events
• Associate video with alarm panel events
• Program alarm panel access codes through Averics Software
• Control alarm panel through Averics Software as well as Averics Mobile phone application
System Setup

• Freedom to choose from non-proprietary hardware. No locking-in with a particular hardware or software manufacturer.
• Device creation wizard makes adding a new controller easy
• Hardware agnostic. Many controllers supported
  • Assa Abloy Wireless Locksets
  • Axis: A1001, A8004 Video Door Station
  • Axis A9161, Axis A9188 Network IO
  • DSC: Power Series and MaxSys
  • HID Global: Edge EVO, VertX EVO, Edge, VertX
  • NOX
  • Suprema: biometric devices
  • Morpho biometric devices
  • Mercury Security Family of Controllers
Averics has a powerful reporting system that contains built-in report templates with filtering functions.

- Averics reporting is based on Microsoft SQL Server Reporting Services engine.
- Reports can be exported in different formats such as pdf, csv, Microsoft word, Microsoft Excel, etc.
- Saved reports capability allows reports to be rerun with one click, scheduling a regular run time, or e-mailing it.
Activity reports can be customized to show system activity within a time period for selected doors or users.

User Activity Report

• Select a start time or end time.
• Select Filters and columns to include for User Information
• Select Events to report on
• Select all or a group of Users
• Saved reports can be scheduled to run daily, weekly etc., print and or email.
Averics uses a role-based security model

- Permission sets determine an operator’s rights
- Permissions are very granular down to which commands a user can run
- Module permissions determine which modules the operator has access to
Application Users

Application Permissions are assigned to a User by assigning a role as part of the Login set up:

- Role can be Administrator or User.
- User roles can be custom or default.
- User can be assigned a default Language.
- Password settings
- Lost passwords can be e-mailed, or reset in a secure way.
Backup & Restore

- Averics supports single-click backup and restore features that can be used to recover a complete system database in case of data loss or corruption.
- Backup management allows location selection
- Tools to manage the retention period
- Visitor Data can have its own retention period
Backup & Restore

- Backup can be scheduled to run on a pre-defined schedule.
- Backups can be scheduled to occur Daily, Weekly or Monthly.
- Backups can be scheduled to occur after a set number of days.
- A single backup file is created that contains all data to restore the Averics server to a point in time.
Multiple Languages

• All application captions are saved in language tables. Captions are loaded based on currently logged in user’s language preferences.

• Tables are already translated into Portuguese, Spanish, Dutch

• Language tables make it very easy to translate it into any language.

• Translation can be easily done through the web interface. No need to install software on your local machine.

• Use the Language tables to modify terms to your company lexicon standards
Integration Capabilities

• Averics software is designed from ground-up to be integration friendly
• Averics exposes SOAP/JSON based web services that 3rd party systems can call
• Averics security platforms integrate easily with other systems for 2-way integration
• Averics software follows a driver-based model to communicate with hardware controllers. This allows us to integrate with pretty much any controller out there.
Add-on Modules

- Module Licenses can be used to expand the system capabilities by adding additional functionality.
- Most Modules are built-in and are exposed by Licensing
- Custom Modules can be developed
- Modules can cover expanded functionality like adding Visitor Management to a system
- Modules can provide integration capability to third party systems like Easy Lobby
## Sample of Averics Unity Add on Modules

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV-UNT-ADU</td>
<td>Active directory module</td>
<td>Manage cardholders through active directory by using AD tool.</td>
</tr>
<tr>
<td>AV-UNT-ALM</td>
<td>Alarm panel integration</td>
<td>Integrate your Unity system with DSC MAXSys or Power Series alarm panels</td>
</tr>
<tr>
<td>AV-UNT-BGP</td>
<td>Badge printing</td>
<td>Design and print badge templates for cardholders</td>
</tr>
<tr>
<td>AV-UNT-PRT</td>
<td>Multi-site module</td>
<td>Multi-site/multi-tenant database partitioning module</td>
</tr>
<tr>
<td>AV-UNT-ELV</td>
<td>Elevator control</td>
<td>Elevator control functionality</td>
</tr>
<tr>
<td>AV-UNT-INT-OPC</td>
<td>OLE for process control (OPC)</td>
<td>OLE for process control (OPC) integration</td>
</tr>
<tr>
<td>AV-UNT-INT-MDB</td>
<td>MODBUS integration</td>
<td>MODBUS integration</td>
</tr>
<tr>
<td>AV-UNT-INT-BAC</td>
<td>BACNet integration</td>
<td>BACNet integration</td>
</tr>
<tr>
<td>AV-UNT-MOB</td>
<td>Unity mobile application</td>
<td>Add/delete cards or view cardholder status through your mobile device</td>
</tr>
<tr>
<td>AV-UNT-IMP</td>
<td>Data import scheduler</td>
<td>Schedule data imports through Unity</td>
</tr>
<tr>
<td>AV-UNT-RDG</td>
<td>Report Scheduler</td>
<td>Print/e-mail reports on a schedule</td>
</tr>
<tr>
<td>AV-UNT-GRD</td>
<td>Guard tours module</td>
<td>Guard tours module</td>
</tr>
<tr>
<td>AV-UNT-IMG</td>
<td>Image capture module</td>
<td>Take user picture through web cam attached to your PC</td>
</tr>
<tr>
<td>AV-UNT-VWD</td>
<td>Mapping and monitoring views</td>
<td>Design custom monitoring views and dashboards for Professional version</td>
</tr>
<tr>
<td>AV-UNT-MSG</td>
<td>Messaging</td>
<td>Message routing to TCP/IP, HTTP, Serial ports</td>
</tr>
<tr>
<td>AV-UNT-TAT</td>
<td>Time and attendance</td>
<td>Punch in/out, timesheets, management overrides, and reporting</td>
</tr>
<tr>
<td>AV-UNT-ERD</td>
<td>USB Enrollment reader Biometrics</td>
<td>Desktop fingerprint/card enrollment reader</td>
</tr>
<tr>
<td>AV-UNT-VSM</td>
<td>Visitor management</td>
<td>Visitor management through Unity. Includes base station.</td>
</tr>
<tr>
<td>AV-UNT-VSM-STN</td>
<td>Visitor management station license</td>
<td>Additional station license. Required for additional stations.</td>
</tr>
<tr>
<td>AV-UNT-ELC</td>
<td>Easy Lobby Client</td>
<td>Easy Lobby Client Integration priced per client</td>
</tr>
<tr>
<td>AV-UNT-SUI</td>
<td>Suite Management</td>
<td>Defines Users by suite affiliation</td>
</tr>
</tbody>
</table>
Rebranding

• Completely rebrand the Averics Security Management system
• Your company name, product name shows everywhere
• Custom Home page
• Colour theme can be matched to your web site’s colour scheme
Versions

• Averics Security Management System
  • Express (Starter) packages in pre-configured capacities
  • Professional up to 64 readers
  • Enterprise no limit to the number of doors
  • Data Centre for integrator hosted cloud services

• Averics Cloud Services
  • Hosted system – no software installed on site
  • Accessible from anywhere using standard web browsers
  • Offered as a monthly per door solution
More Information

Visit us at www.averics.com

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