

Why is the Maxxess/Salto integration different from all other SALTO integrations?

SALTO, one of the fastest growing wireless access control companies, and Maxxess, the leader in open, integrated systems have developed the most complete and most powerful Enterprise solution.

This seamless integration of SALTO hardware with Maxxess/ Mercury hardware provides an extremely flexible and scalable suite of Access Control and Security Management applications. The eFusion software offers hundreds of integrations, from cameras to video to fire panels to intrusion panels to data integrations to database export experience.

A complete Open Architecture Enterprise Solution

- Fully integrated, multi-user, multi-tasking
- Support of SALTO off-line, wireless, wireless related locks, Mercury and PCSC controllers
- Includes database integration: LDAP, Active Directory, Oracle, SQL and MySQL
- 3rd party product integrations:

More than 50 different video product solutions from over 35 Video Management System companies, as well as integration of Fire panels, Intrusion panels, PLCs and BMS products.

- Unique integration with Intelligent Mobile Devices.
- Field Level Communication Service with extensive Performance Monitoring and Displays, as well as Diagnostic Status to help inform the user as to when the Service may be getting overloaded with transaction and message traffic
- Unlimited Field Level Communication Servers, allowing for load balancing across multiple communication service channels.
- The Integrated system can link the automatic and simultaneous live video display of multiple cameras to any System event

The Maxxess software (eFusion) integration to SALTO provides a seamless communication between the Maxxess system and the SALTO locking system. Maxxess can control all cardholder permissions to all locks and controllers through the SALTO protocol. The user gets the combined benefit of the low cost wireless SALTO locks and the high security, open architecture Maxxess software.

There is no cabling required for the SALTO lock installation. These locks are available for almost any type of door. Mixing Mercury online controllers and SALTO wireless locks gives the user the best combination of access control protection.

We offer two types of SALTO configurations— Sallis and SVN

Sallis

Sallis is a wireless on-line solution. We link our eFusion or our eAXxess access control systems to the SALTO



SALLIS wireless platform through our access control door controllers to provide access control system capabilities to virtually any kind of door. We accomplish this without the need for any complex wiring.

The SALTO portion of the system consists of:

- Locks
- Nodes- The wireless hub between the locks and the router
- Router- Takes the access requests and passes it through to the Host
- Host- Which acts as a door controller and makes all the access decisions

When a credential is presented to a door, the lock reads the user ID and transmits the information to the node, the router and on to the Host. The Host receives the request and checks permissions for the user. Whatever the result of the ID check is sent back to the lock. If the user is granted access, the door opens.

Benefits Include:

1. The solving of key management problems in real-time with a simple mouse click. SALLIS



escutcheons receive the cancelling information over the air and remove cancelled keys from the system in real-time.

2. Receive audit trail information in real-time and view door access without having to visit the door.

3. Real-time door control: remote door opening, door alarm, intrusion

alarm, single Lockdown.

4. Real-time battery control enables maintenance to view escutcheon power status in real-time.

5. Perform changes on the door as if it was one of your wired readers.

6. Highly secured, meets RF IEEE 802.15.4 at 2,4Ghz Standard and is AES 128Bit encrypted.

7. The SALLIS escutcheons continue to operate off-line with 2 customizable behaviors if the network crashes, enabling users to access the building normally (based on audit trail or emergency codes).

8. No SALTO software required (except for the setup SW that can be removed afterwards).



hardwired door controllers to grant or deny access

- Software- The SALTO software manages the SALTO ecosystem and the Maxxess software triggers the actions so that the decision to grant or deny access to an area is in accordance with the end user's locking plan

When a credential is presented to a wall reader, it is updated with any new permissions. Also its audit trail is uploaded, its expiration date is renewed and a

SVN (Salto Virtual Network)

SVN is based on SHIP (Salto Host Interface Protocol), a proprietary SALTO communications protocol that allows Maxxess to manage and control SALTO offline and wireless locking devices through our GUI. Even though the locks are governed by the SALTO service, the operations are triggered from our GUI.

Off-line locks can be accessed as well. Maxxess manages all off-line access permissions. When a cardholder presents a card at a SALTO update reader, the card will be updated to the latest access permissions for the off-line locks. If a card is not updated, access to off-line locks are set to expire after three days.

The SALTO portion of the system consists of:

- Locks
- Wall readers- which provides a number of functions
 - ◆ When a credential is presented to the wall reader, the credential's audit trail is uploaded into the database
 - ◆ User permissions are updated
 - ◆ Expiration date is renewed
 - ◆ A blacklist of voided user credentials is downloaded for subsequent propagation throughout the network
- Uboxes- which executes the updating process of credentials and communicates both with the SALTO software for any changes and to the

blacklist is written onto the credential. In parallel the Ubox notifies the door controller which handshakes with Maxxess software to ensure that the person requesting access has the end user's permission to access the area at that time. If permission is granted the controller opens the door.

Benefits include:

- 1.** The management of the SALTO users, doors, time zones, calendars, etc. is performed from our software
- 2.** The Audit trail of wireless locks and disconnected locks is displayed in our software. This includes the battery status of the locks
- 3.** User has an ability to remotely open the RF locks

Features in a Maxxess/Salto integration

Other than the offline locks, the Maxxess Access Control functions also include the ability for card readers to be configured with anti-passback control. The configuration allows for hard antipassback, soft antipassback and timed antipassback, on a per card reader and area basis. The antipassback function provides for true global, as well as local antipassback control and recording.

The Maxxess software provides full feature alarm monitoring and control of alarm, trouble, and off-normal conditions from various devices, including card reader controlled doors and any other type of alarm and intrusion sensors connected to inputs on the field controllers. The Alarm Reporting capabilities include the display of Alarm types, Point descriptions, Operator instructions, sound annunciation, and Operator response requirements, all fully configurable and customizable on per point basis. Control capabilities include manual Operator override commands, as well as automated action linkage commands, time scheduled commands and operating mode changes.

The Maxxess software provides an easy to use graphical user interface providing simple point-and-click database editing and system monitoring controls. The graphical user interface is intuitive and easy to

read with fully configurable select menus and tabs. The interface is multi-function and supports multiple software windows, each window providing various system functions to the operator. The windows are configurable as to size and location on the desktop and can be floating allowing them to be moved around the desktop or across multiple monitors.

The Maxxess software includes Multi-User capability, in a Client/Server configuration, in order to support multiple Operator Monitoring Stations, Command & Control Stations, and Data Entry Stations. The System is designed to be compatible with standard, off-the-shelf computer Hardware and Software, including standard Windows Operating Systems and Microsoft SQL Server relational database software. Hot-Standby, Redundant Servers configuration is also available.

The Maxxess software Interface includes fully interactive and dynamic color Map Graphics using various types of graphical maps and floor plans configured with interactive graphical icons. The graphical floor plan maps and icons support command menus, and real-time updating map displays with icons showing the current status of each assigned point.

Area Controller Options

The primary Area Controllers are fully intelligent devices, with completely local processing based on a downloaded and locally stored system database and operational parameters. Intelligent Area Controllers also include memory for local storage of events and



transactions in the event of communication loss with the Host Server. Intelligent Area Controllers will interface with, and control, multiple downstream local controllers. Intelligent Area Controllers will support up to 32 downstream controllers, and up to a maximum of 64 Card Readers.

Choice of Field Controllers shall also include and support a completely Fault Tolerant Controller, offering the highest level of reliability through its automated process of system recovery for access control, alarm monitoring, and output control functionality. The Fault Tolerant Controller shall provide a Virtual Point Definition network, with integration peer-to-peer and redundant communication.

Other features included in a Maxxess/Salto integration:

- The System provides options for the integration and direct data interface to CCTV Video Management and Surveillance Systems. This option supports the integration of various manufacturer's Video Controllers, DVRs, NVRs, IP Cameras, and Video IP Servers.
- This capability will allow the Display, Control, Recording and Archiving of Video and Text information based on pre-determined Events, as well as manual Command & Control, directly from the eFusion System Interface screen.
- The combined system includes the Integrated Identity Management Module, which is a Browser-based thin client application used for both basic and advanced management of people, access permissions, credentials, and badges.
- This allows for Remote Managers/ Operators to access the System without the requirement for special Software or a local System Workstation.
- Options may be added for the

support and implementation of Asset Management, providing for the definition, configuration and tracking by the System of physical Assets in and out of the Facility. Assets can also be assigned to specific Cardholders within the System Database.

- The System includes support for a Data Import/Export utility, allowing Users to manually or automatically import Cardholder records or data fields, via a standard comma delimited file, from other databases such as Oracle and SQL, or export data to a delimited files or other external databases.
- The Import/Export functions can be performed manually on a one-time basis, or optionally configured to execute automatically at preset times and days.
- eFusion offers a configurable Data Integration module, to allow for the System to integrate/interface with external 3rd-Party Systems, such as Fire Alarm Panels, Intrusion Detection Panels, and other such external

systems. This integration will provide for the Security & Access Control System to monitor, receive and report alarms and events from the external systems in real-time.

- The integrated system can interface with third party software systems including Human Resources, Financial cards, laundry, bookstore parking and other access control systems.
- A smartphone and tablet interface is also included.
- System generates reports of door access activity, including denied events, multiple entries and other events such as door forced/ajar events. Can also generate custom reports.
- Uses any SMART RFID Read/Write, including Mifare and iClass
- System supports a lock down feature for online doors
- System supports multi-languages
- System supports AES 128 encryption. Wireless communications comply with 802.15.4.
- The eFusion System supports an option to provide Remote Point Identification and Verification of access control cardholders via wireless handheld devices, such as a PDA.
- The remote device will read Smart Cards and interface directly with the System database allowing for the identification and display of cardholder information and photo using a wireless PDA device, as well as determining Access Authorizations.
- Fingerprint verification can also be incorporated into the handheld device.
- Option to incorporate the fully automatic Guard Tour application



Other features included in a Maxxess/Salto integration: (continued)

which provides for real-time monitoring and reporting of status for configured Guard Tours, based on pre-defined timing parameters for the Tour.

- The System also offers an option for Elevator Control, utilizing Card Readers inside the Elevator Cab with configurable parameters for floor by floor access control on an individual Cardholder basis.
- Each Cardholder can be assigned parameters for exactly what Floors of the Building they are allowed to access.
- This option can also provide for Floor Monitoring in order to detect and log what floor was selected by the authorized Cardholder.
- The eFusion System offers a Mobile Messaging option that includes the capability to provide a fully integrated, SmartPhone-based critical messaging service.
- This integrated Service will provide for Emergency information, crisis management instructions, and important operational information to be transmitted and efficiently communicated to the mobile workforce.
- The System can provide the capability to initiate messaging in response to Events detected by the Event Management function of the Software, and the capability to generate managed Events from Mobile User messages and/or responses.



- Lock Features:
 - a) Grade 1 ANSI U.S. Mortise Lock, UL Listed
 - b) Grade 1 or 2 ANSI U.S. Cylindrical Lock, UL Listed
 - c) ADA Compliant Levers and Trim
 - d) Exit and Panic Hardware options including from other manufacturers.
 - f) Water resistant for outdoor applications.
 - g) Standard AA or AAA alkaline batteries, Battery life 30,000 to 40,000 openings
 - j) The lock holds a minimum of 1000 audit records, for valid, and invalid card holders
 - k) Both mortise & cylindrical locks have a clutch mechanism to protect the lock body
 - l) The lock is physically protected with hardened steel to protect from drilling

m) Auxiliary locks including cam locks; lockers or secure storage (medical, weapons, etc.)

s) Door unit trim is available in standard ANSI hardware finishes

t) Door units have an option for a BioCote® antimicrobial coating

Specifications

Maxxess offers completely imbedded software-based integration to all of the SALTO Wireless Lock Products, including the on-line SALLIS Wireless Products as well as the SVN Data-On-Card product line.

eAXxess or eFusion 6.1.1 or later

The Software is fully compatible with x86 and x64 versions of all the latest Windows® operating systems, including:

- Windows 8
- Windows 8.1
- Windows 10
- Windows Server 2008
- Windows Server 2008 R2
- Windows Server 2012
- Windows Server 2012 R2

The software is designed to use standard ODBC Relational Database structures with the implementation of standard Microsoft SQL Server database engines, including:

- SQL Server 2014
- SQL Server 2012
- SQL Server 2012 R2
- SQL Server 2008
- SQL Server 2008 R2

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