

ISEO® 50th that's amore.

ISEO® Zero1
ELECTRONIC
SOLUTIONS

ACCESS CONTROL FOR DEVELOPERS

E N G L I S H

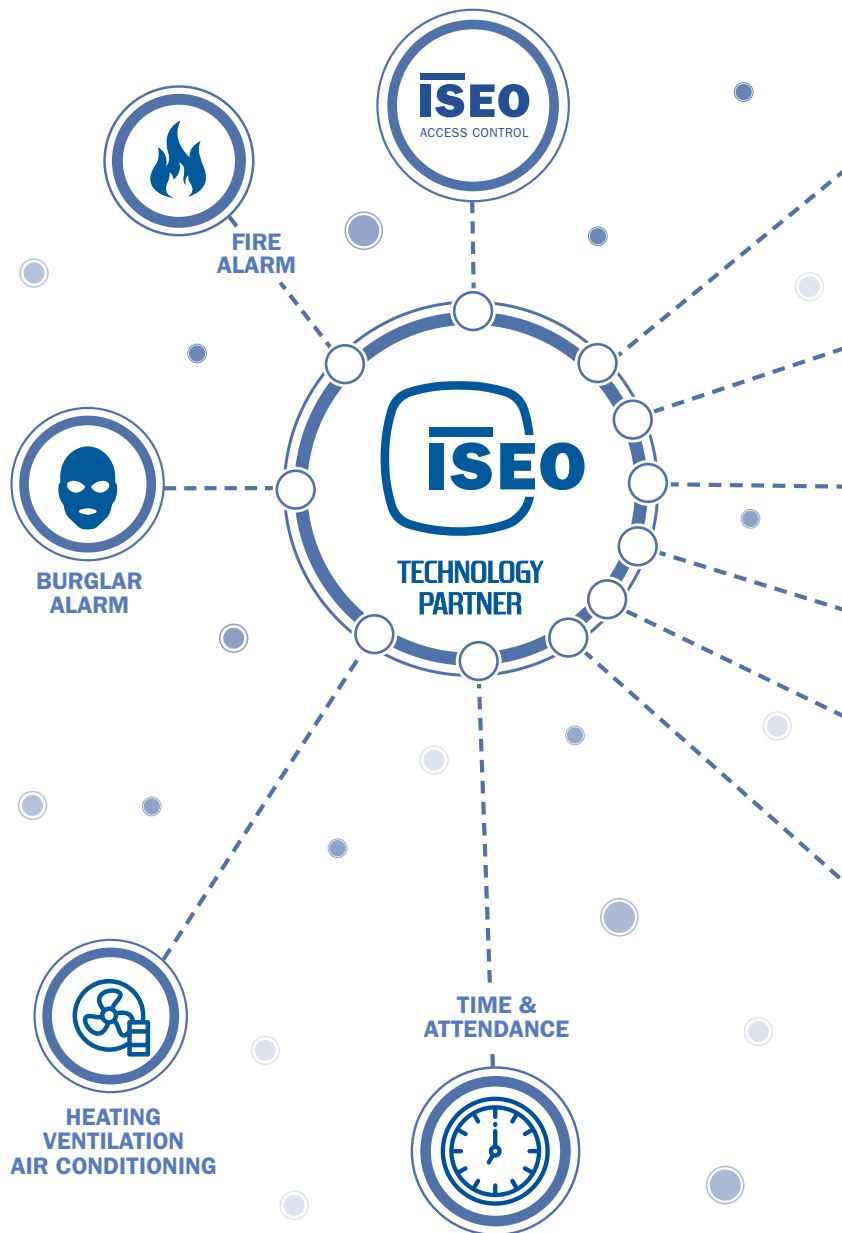
1969-2019
50th Anniversary



ACCESS CONTROL INTEGRATION

Customers are looking for Unified Security Solutions that include access control demanding that several security systems from different suppliers interoperate with building managements systems and IT systems forming an integrated security system.

ONE SYSTEM OF SYSTEMS





An Integrated Security System can deliver major benefits across multiple Building Management Systems.

The integration with Building Management System improves the management and enhances the user experience.

Disparate systems working together allows administrators to:



**ONLINE
RESERVATIONS**



**EXTERNAL DATABASE
CONNECTION**



**EMPLOYEES
MANAGEMENT**



**LOGICAL ACCESS &
IDENTITY MANAGEMENT**



**HUMAN RESOURCES
MANAGEMENT**



**VIDEO
SURVEILLANCE**

- ☐ USE A SINGLE CONTROL PLATFORM
- ☐ INTERACT WITH A UNIFIED SECURITY INTERFACE
- ☐ REDUCE THE AMOUNT OF DATA ENTRY
- ☐ MAXIMIZE ADMINISTRATION EFFICIENCY
- ☐ MONITOR THE COMPLETE STATE OF A FACILITY
- ☐ OBTAIN CONSOLIDATED REAL-TIME MONITORING AND REPORTING
- ☐ CORRELATE EVENTS FROM SEVERAL SECURITY APPLICATIONS
- ☐ CONSOLIDATE DATA FROM MULTIPLE SYSTEMS IN A SINGLE DATABASE
- ☐ IMPROVE DECISION MAKING DURING EMERGENCY AND CRITICAL SITUATIONS
- ☐ REDUCE OVERALL COST

ISEO

Technology Partnership Program



ISEO Technology Partnership Program offers to developers the possibility to integrate ISEO access control platforms into their existing software solutions creating new business value beyond the boundaries of access control.



ISEO VALUE PROPOSITION TO PARTNERS

- ❑ OPEN ARCHITECTURE ACCESS CONTROL EASY AND FAST TO INTEGRATE
- ❑ STATE OF THE ART SOFTWARE TECHNOLOGY FOR INTEGRATION
- ❑ MOBILE DEVICES TO MANAGE AND OPEN DOORS USING BLUETOOTH SMART TECHNOLOGY
- ❑ WIDE RANGE OF ELECTRONIC SECURITY PRODUCTS:
 - TO FULFILL ANY NEW DOOR LOCKING REQUIREMENT
 - EASY TO RETROFIT INTO EXISTING DOORS
 - COMBINING OFFLINE WITH ONLINE PRODUCTS, CLOUD AND MOBILE DEVICES
- ❑ OFFERING CONTINUUM: FROM PRODUCT TO CUSTOMER VALUE
 - EASY MIGRATION FROM RESIDENTIAL TO COMMERCIAL APPLICATION USING THE SAME DEVICES
 - FROM SYSTEM IN A BOX TO HOSTED SOLUTION
- ❑ UNIQUE DIFFERENTIATED SECURITY PRODUCTS:
 - FOR RESIDENTIAL: X1R SMART
 - FOR COMMERCIAL F9000 MECHATRONIC CYLINDER
- ❑ IN HOUSE STRONG EXPERTISE FOR INTEGRATION OF:
 - MECHANICS
 - ELECTRONICS
 - SOFTWARE
- ❑ ISEO BRAND AWARENESS
- ❑ 50 YEARS OF PROVEN COMMITMENT TO INNOVATION





ISEO ACCESS CONTROL PLATFORMS AND SDK

ISEO access control platforms are:

- ▣ **ARGO** for residential and light commercial contexts
- ▣ **V364** for commercial contexts.

Both ISEO access control platforms have a Software Development Kit (SDK) in order to make access control integration seamless and simple for system integrators or VAR (Value Added Reseller).

ARGO SDK and the V364 SDK are based on the latest software technologies in compliance with industry standards, providing open interfaces, simple tools, and network-friendly IP-based solutions.

ISEO provides to developers ARGO SDK and V364 SDK under Non Disclosure Agreement.



ARGO SDK and V364 SDK provide a set of standard API (Application Programming Interface) to allow fast integration.

WHAT DOES THE API DO?

An API is a set of functions that one computer program makes available to other programs so they can talk to each other directly. ISEO offers an API that provides a range of services for physical access management like:



**ADD ACCESS
USER CREDENTIAL**



**REVOKE ACCESS
USER CREDENTIAL**



**GET EVENTS
FROM DOORS**



**OPEN
DOORS**



**AND MANY
OTHERS**

ISEO ARGO



ISEO ARGO platform targets residential and light commercial contexts with a limited number of access users and doors.

Argo is a **Lock Centric platform** where access rights are stored in the lock white list (Data on Lock).

Each access user is allowed to enter if his/her credential is stored in the door list.

The lock manages the access by comparing the credential acquired by the reader (RFID card, PIN code, fingerprints, mobile credential) with the lock database (white list) of users credentials.

The access user white list can be easily programmed in the door with smartphones or similar devices over the Bluetooth Smart interface.

ARGO SYSTEM



SMART SERIES DEVICES

ISEO devices of the SMART series are compatible with ARGO platform:



ISEO V364



ISEO V364 platform targets commercial contexts with several access users and doors.

V364 is a **Key Centric platform** where access rights are stored in the credential (Data on Card).

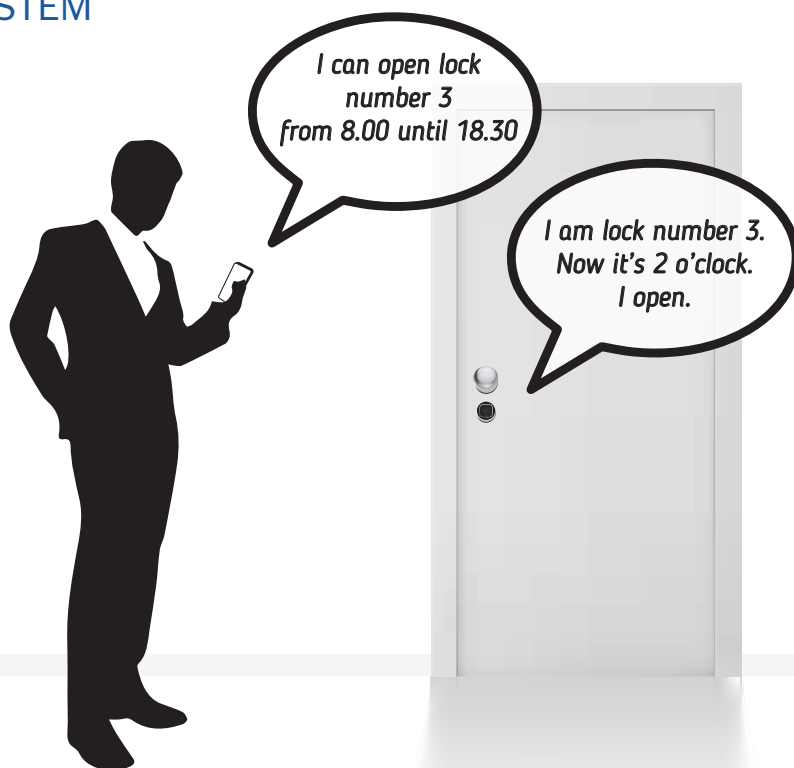
Each access user is allowed to enter if his/her credential is programmed with access rights matching the specific device installed on the door including date and time.

The device manages the access by comparing the credential acquired by the reader (RFID, Mechatronic F9000 key) with the device's information programmed at setup of the system.

The credentials can be easily programmed with online validators or mobile devices (smartphones, tablets) and the system access rights are stored in the server database (Atlas Master).

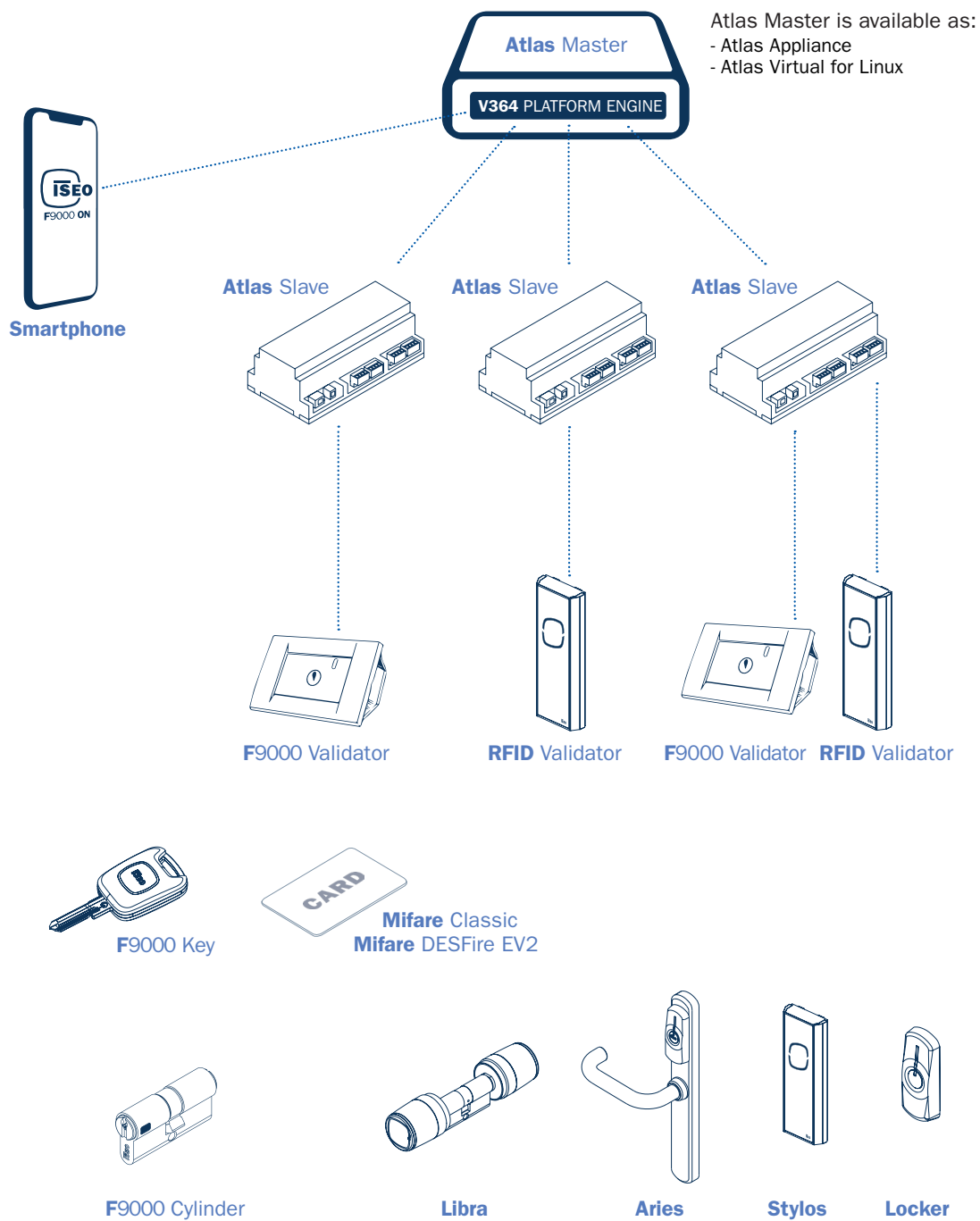
The access rights stored in the credentials are structured data generated by the Atlas Master which the doorlock is able to read and verify deciding then to unlock the door.

V364 SYSTEM



V364 COMPONENTS

ISEO devices which are part of V364 system are:



ISEO

ARGO SDK



Argo SDK targets developers willing to integrate SMART series devices compatible with ARGO in their systems like home automations or similar type of applications in residential or light commercial.

Argo SDK allows the integration by connecting directly to the device installed on the door.

ARGO SDK IS AVAILABLE FOR:

- iOS as native library
- Android as native library
- Linux Argo web service (JSON – RPC 2.0)

Argo SDK for iOS and Android allows to develop smartphone applications to open the SMART series devices by ISEO compatible with ARGO and to manage the access user list.

Argo SDK for Linux allows an embedded controller to communicate with SMART series devices over the Bluetooth Smart using Argo security layers (AES 128 , Diffie Hellman Elliptic Curves and NIST Random generator).

Argo SDK library interface is able to perform all the Argo app functionalities.



EDGE COMPUTING

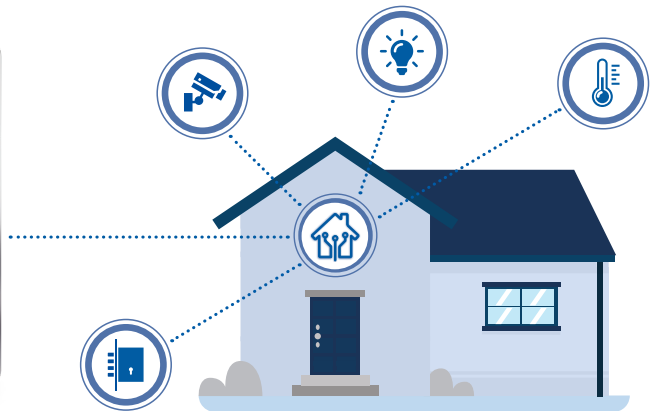
Since the local database of users is on the device installed on the door, it can operate even if temporarily disconnected from the Linux Gateway controller.

ARGO SDK

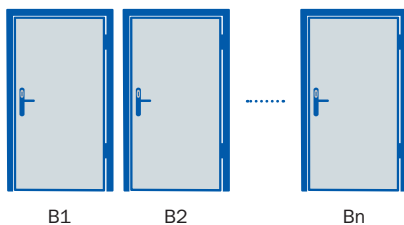
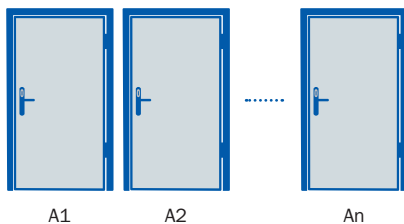
Applications



Home Automation Controller



Wireless Access Control



A Linux Gateway Controller

B Linux Gateway Controller



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V364 SDK



V364 SDK targets developers willing to integrate F9000 Mechatronic cylinders and RFID devices off line into their systems for commercial building management systems or similar type of applications like banks, utilities, hospitals, schools, and so on.

V364 SDK allows the integration by connecting directly to the Atlas Master the Server platform that holds all the data for the access control.

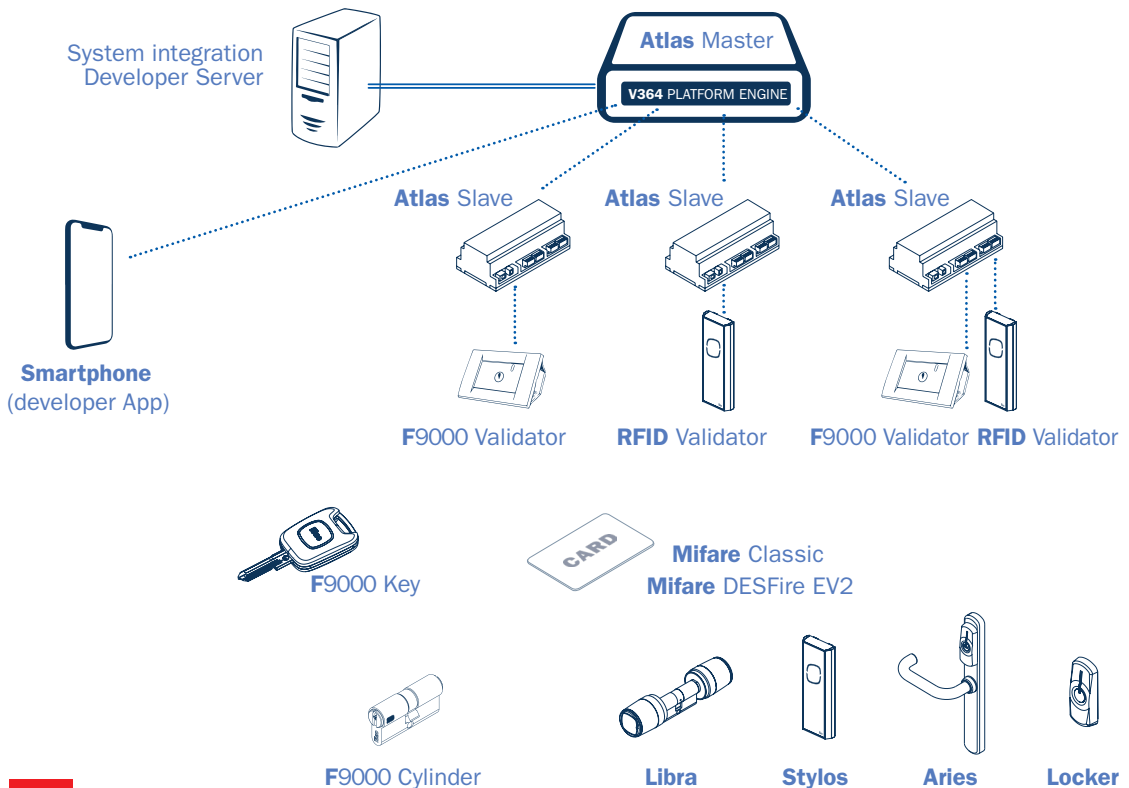
V364 SDK allows the connection via web services with SOAP (Simple Object Access Protocol) API over HTTP technology.

V364 platform engine stores all security policy data managing the whole ISEO access control system made by off line locks and on line validators.

THE MAIN TASKS OF THE V364 PLATFORM ARE:

- the credential data definition
- the storage of locks and credentials database
- the credential updates and the immediate distribution to Atlas Slaves
- the credential validation and reprogramming process
- the events upload from credentials
- the storage of system and locks events

The V364 SDK library interface is able to perform all the V364 software functionalities.

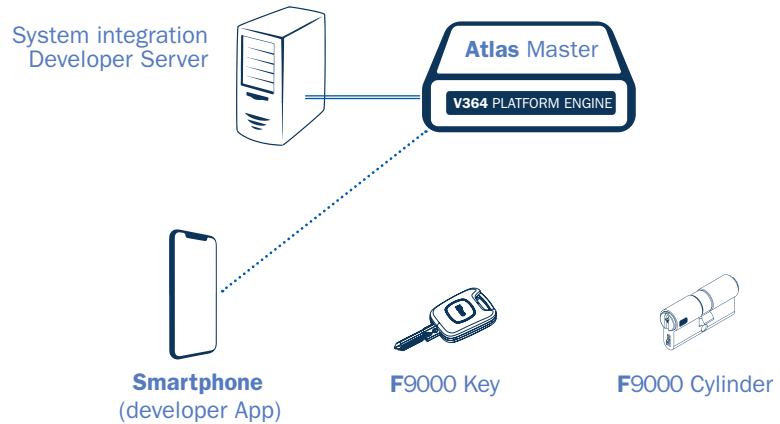


V364 SDK

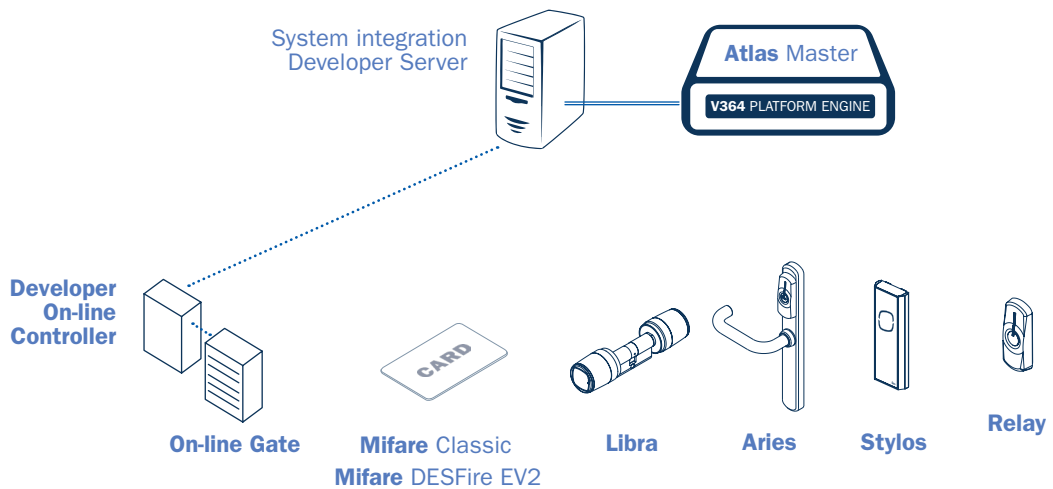
Applications



F9000 Integration



RFID Integration



ISEO SDK

Comparison



	Argo SDK	V364 SDK
Application	Residential & light commercial	Commercial
Access Rights	Lock Centric	Key Centric
	Data on Lock	Data on Card
Database	Lock database	Atlas Master database
Integration by connection	To the lock	To the Atlas Master Server
Software Development Kit	- iOS as native library - Android as native library - Linux Argo web service (JSON – RPC 2.0)	- web services with SOAP (Simple Object Access Protocol) API over HTTP technology. - iOS as native library - Android as native library
	SDK available under Non Disclosure Agreement.	

ISEO Zero1 Electronic solutions includes a wide range of electronic access control devices easy to install in order to meet every application requirement. You can choose different devices according to the door type and security level required:

- cable free off-line battery operated devices, such as Aries electronic trim set and Libra electronic cylinder;
- mechatronic cylinders with power source on the key only, such as F9000;
- wired devices such as Stylos credential readers, Atlas controllers and smart locks.

All the ISEO Zero1 Electronic devices can be combined to create the following access control system solutions:

ARGO

Argo is the ideal solution for residential or light commercial contexts (B&B, small companies, offices, shops, professional studios etc). You can use your smartphone as well as other devices, such as Apple Watch, fingerprints, PIN codes, keyfobs, cards for opening your doors.

All you need is installing on your door, even without replacing them, an opening device of the Smart series (electronic locks, cylinders, trim sets, etc.).

Thanks to Argo App, you decide who can enter your home, your office or the room of your accommodation facility. You can even set a time slot for each access.

With Argo, even from remote you can authorize people to enter. That's why this is the perfect solution for private homes, B&B and small hotels. For example, you can allow your guests to open their room's door with their smartphone on a specific day and time, even if you are at home or at work.



V364

V364 is an advanced access control software for commercial applications allowing to manage both on-line and off-line doors for small and medium sized facilities.

It is based on web server technology which allows the system up and running in minutes as it is not necessary to install any software.

V364 features a user-friendly interface allowing the management of your electronic access control system from computer with browser.

V364 supports RFID technology and the mechatronic key F9000. V364 is designed to easily scale and will be the core of your next level of facility integration by the system integrators of the ISEO Technology Partner program.



ISEO® Zero1
ELECTRONIC
SOLUTIONS

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