

# ARGO 3.0

## From remote



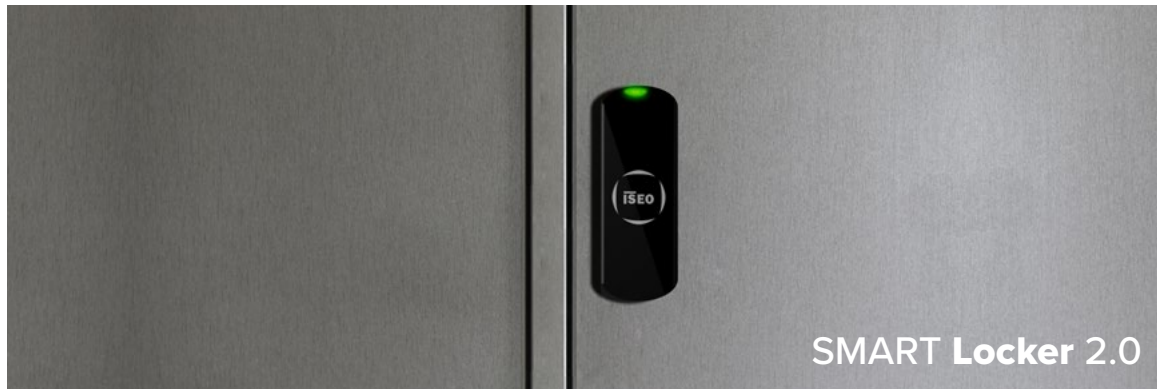
**ISEO**<sup>®</sup>  
ULTIMATE ACCESS TECHNOLOGIES

## A NEW GENERATION OF SMART DEVICES

Argo 3.0 introduces a new generation of door lock smart devices featuring Bluetooth Smart 5.0 (known also as Bluetooth Low Energy 5.0 or simply BLE 5.0) and the Smart Gateway.



State of the art Bluetooth Smart 5.0 technology enables the door lock to simultaneous multiple connections: for example while one member of your family is opening with the smartphone, the locks can connect to the Smart Gateway and you can manage the door lock from remote adding users or reading events.





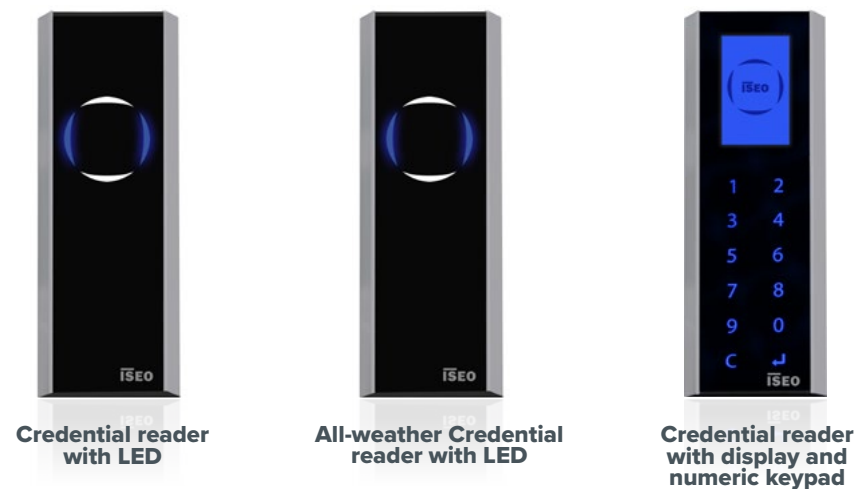
**ISEO**  
**ARGO**



**X1R SMART 2.0**

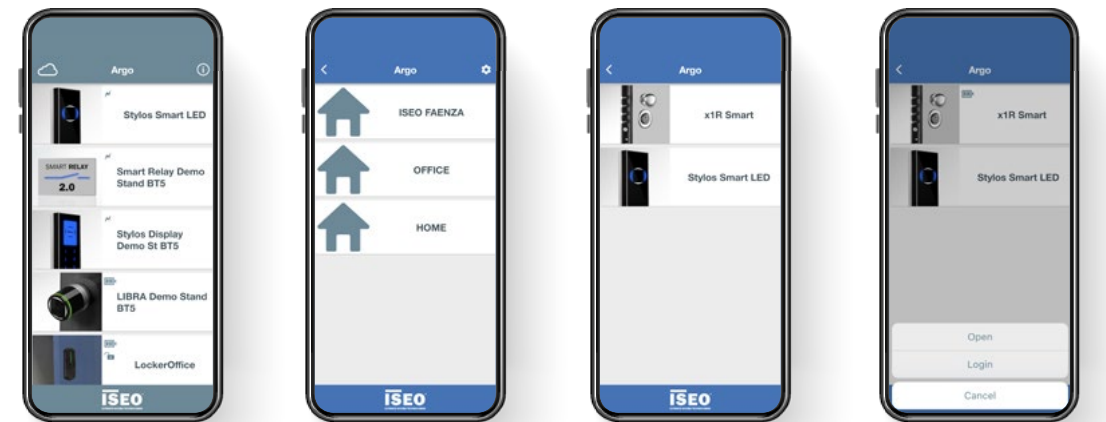


**STYLOS SMART 2.0**



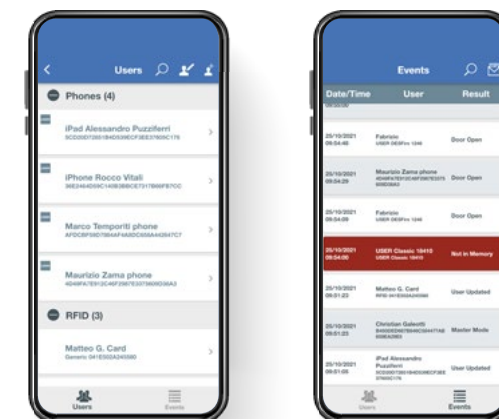
**ARGO from REMOTE**

Argo 3.0 combined with the Smart Gateway and Bluetooth Smart 5.0 devices allows to perform Argo from Remote: the Argo functionalities at anytime from anywhere in the world.  
If you already know Argo you can use it straightforward from remote. Connecting from remote you will be able to manage the door lock in the same way as you are in front of it (local).



From **Argo** main page select "cloud"      Select the **House**      Select the **Door**      Select the **Action**

**After Login you can:**



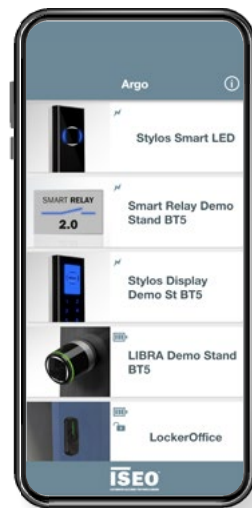
Manage **Users**      Read **Events**

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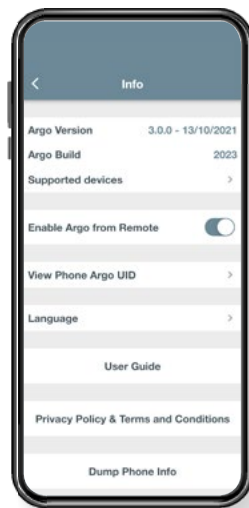
ARGO  
Account



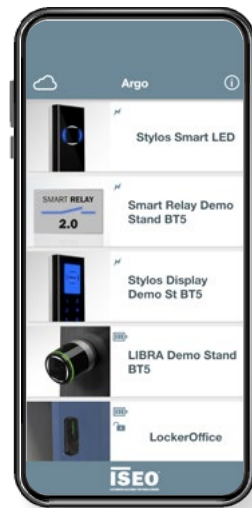
In order to use Argo from Remote it is necessary to have an ISEO Argo account.



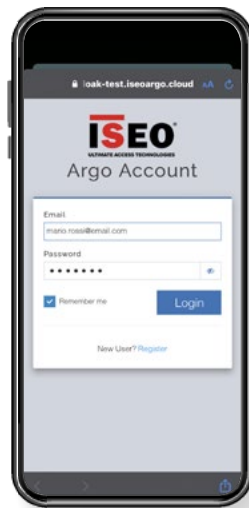
From **Argo** main page select **“info”**



Enable **Argo from remote**



On the main page a **“cloud”** appears. **Select the “cloud”**



Create the **Argo account**.

The ISEO Argo account and “the cloud connectivity service” are cost free.

ARGO 3.0



**ARGO 3.0 COMPATIBILITY**

Argo 3.0 app can manage in local Bluetooth Smart 4.0 and Bluetooth Smart 5.0 devices. In addition, Argo 3.0 can manage from remote Bluetooth Smart 5.0 devices through the Smart Gateway.



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# SMART Gateway



The Smart Gateway connects the cloud (ISEO Argo account) to the door lock. It communicates with the cloud via data connection and with the door lock via Bluetooth Smart 5.0. The Smart Gateway can manage all the door locks in its Bluetooth Smart 5.0 range (around 10 meters depending on environment conditions).

The Smart Gateway is available in two models:

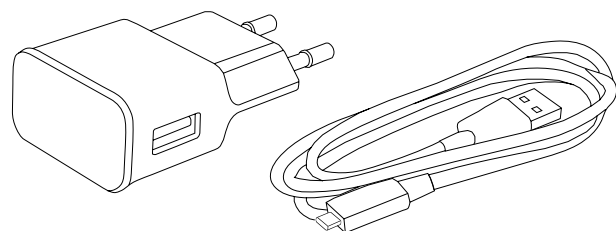
### WIFI DUAL BAND



### POE (Power Over Ethernet)



### ACCESSORIES:

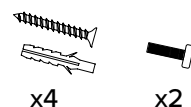
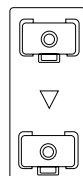
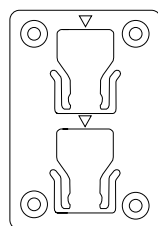


#### Power Supply

- IN = 100-240V 50-60Hz 0.50A
- OUT = 5.0Vdc 2A (10W)
- USB A to USB C 1.5mt cable

#### Wall Fixing Brackets kit

- N° 1 Wall bracket
- N° 1 Gateway bracket
- N° 2 Screws
- N° 4 Wall plugs and screws



Architecture and Security



CHARATERISTICS	WIFI	PoE Power over Ethernet
<b>Functionality</b>	Converts from WIFI data to BLE 5.0 Dual Band WIFI at 2.4 GHz and 5 GHz	Converts from Ethernet data to BLE 5.0
<b>Power Supply</b>	Powered by USB C +5VDC input power 2A (10W)  Power supply not included (accessory to be ordered)	- PoE (Power over Ethernet) - Requires PoE Switch IEEE 802.3af up to 15,4W - Delivery of data and power over CAT5e/CAT6 ethernet cable. Maximum power consumption 10W - Optionally powered by USB C +5VDC input power 2A (10W) Power supply not included (accessory to be order)
<b>Size</b>	LxDxH 125x40x85 mm	LxDxH 125x40x85 mm
<b>Operating conditions</b>	Operating Temperature: 0°C/+50°C Storage Temperature: -25°C/+75°C	Operating Temperature: 0°C/+50°C Storage Temperature: -25°C/+75°C
<b>Installation</b>	Desktop Wall Fixing option (accessory to order)	Desktop Wall Fixing option (accessory to order)
<b>Connection ports</b>	USB C female	USB C female Ethernet TCP/IP 10/100 baseT
<b>Visual indicator</b>	Signalling LEDs - Power (white): ON = Power Supply connected - BLE (white): ON = BLE transmission in progress - Network (white) ON = Gateway connected to Cloud - Config (white): ON = Gateway to be configured - Boot (red): ON = Gateway starting up	Signalling LEDs - Power (white): ON = Power Supply connected - BLE (white): ON = BLE transmission in progress - Network (white) ON = Gateway connected to Cloud - Config (white): ON = Gateway to be configured - Boot (red): ON = Gateway starting up
<b>CPU, Memory, Operating System</b>	ARM A7 based CPU module 512 MB RAM 8 GB Flash eMMC Non volatile Memory Operating System: embedded Linux	ARM A7 based CPU module 512 MB RAM 8 GB Flash eMMC Non volatile Memory Operating System: embedded Linux
<b>Push buttons</b>	Reset (reboot or factory mode status)	Reset (reboot or factory mode status)
<b>OEM version</b>	Available OEM version for Argo Integrators with SDK	Available OEM version for Argo Integrators with SDK



**ISEO**

## **ARGO** Architecture and Security



ISEO considers security of paramount importance and has applied proven techniques based on industry best practices from existing Cryptography and Network Security technologies.

The Argo app connects directly point to point to the door lock using this encrypted connection architecture:



The connection to the Cloud ISEO Argo Account is protected with TLS 1.3.

The Smart Gateway communicates to the door lock over a Secure BLE layer based on:

- Crypto AES 128
- AES session keys generated with DHEC (Diffie Hellman Elliptic Curves)
- Random Number generator complying with NIST (National Institute of Standards and Technology) specifications.

**Architecture  
and Security**



Any operation from remote is performed only through an “authorized gateway to door lock”: the gateway must be registered in the lock as device acting as a proxy for the administrator connected to the ISEO Argo account.

Furthermore, the ISEO Argo account needs to be memorized in the door lock as any User (User type Account). In order to authenticate the ISEO Argo account to the door lock, it is necessary to enter the Lock Account Password. No password is saved in the cloud: the Lock Account password is stored in the most secure place: “inside the lock”.

Any management operation from remote must be confirmed by “something that only the administrator knows”. Several accounts can be invited from the lock owner to manage the door lock from remote with different levels of administration rights.

In summary, Argo 3.0 allows direct connectivity to the lock with end-to-end encryption, without intermediate server (Cloud used only as tunneling). Argo 3.0 is network agnostic, enabling both local and remote connection with the same level of security.



### **FUTURE PROOF**

The Iseo Bluetooth Smart 5.0 device and the Smart Gateway are future proof: they can be software upgraded in the field as Iseo will deliver new features with future Argo releases.



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