

ISEO Zero1

V364 1.1

07 June 2018 v 01

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Product Manager Electronic Products





1.1



F9000 Key



RFID

September 2018

V364 Brochure



Download at app.iseo.com

V364 Target Customers



How does it work?

I can open door 3

From 8.00 until 18.30



F9000 Key

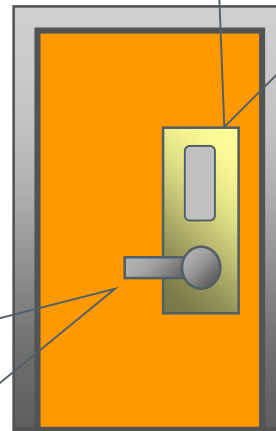


I write on the card that at 14.00 on April 2 2014 it has opened lock 3 and that batteries are low.

I am lock number 3

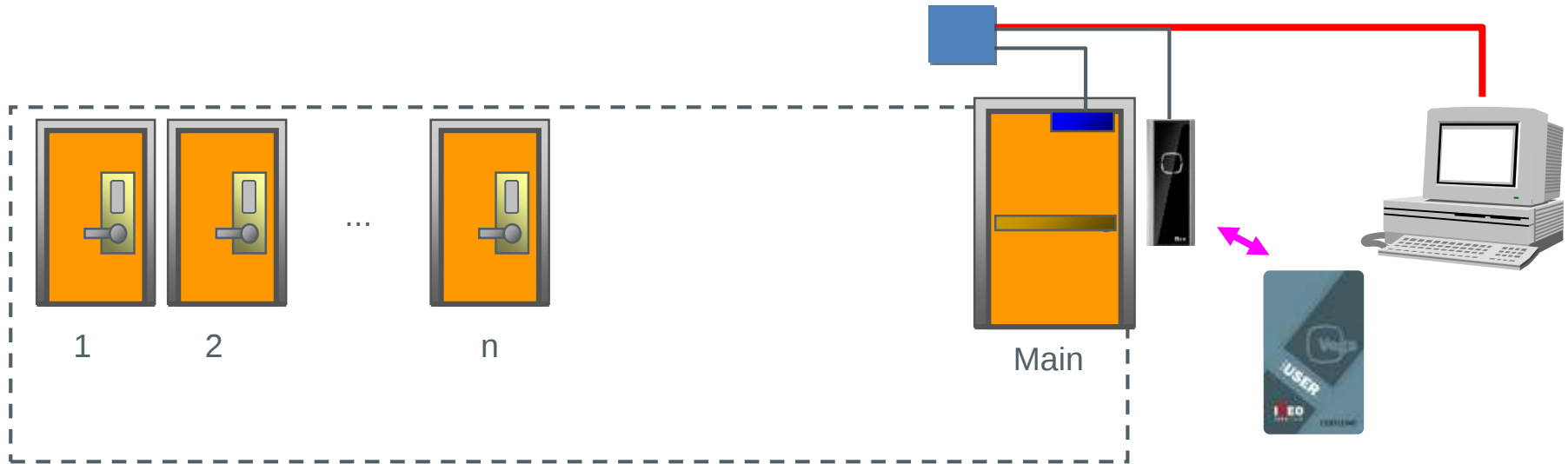
My time now is 14.00
on April 2, 2014

I OPEN



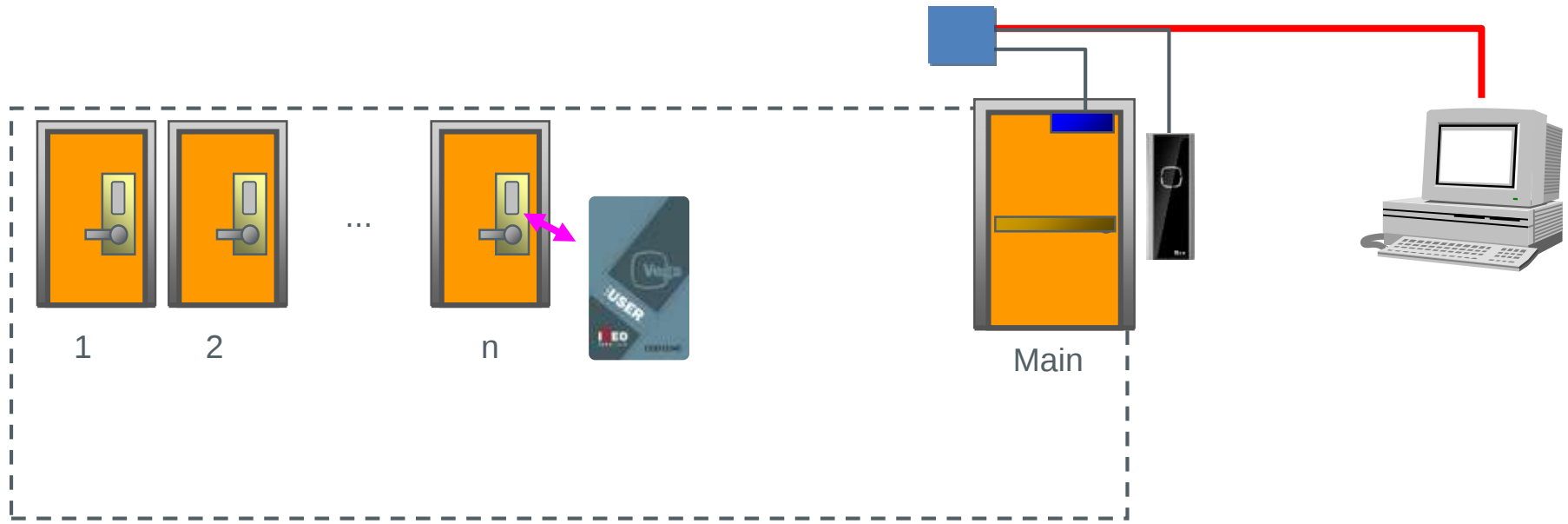
The users access right are written on the credential
The credential collects informations from offline readers

At the On-line readers (step 1)



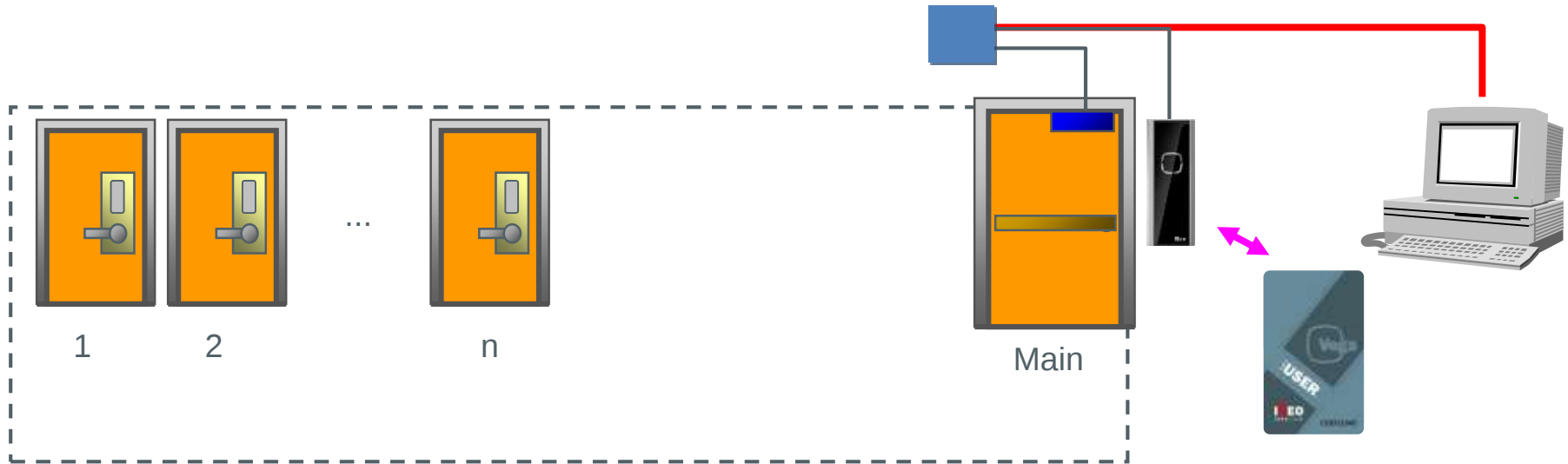
- The main door reader programs the credentials with the access rights
- The users can enter to the internal doors for a limited period

At the Off-line lock



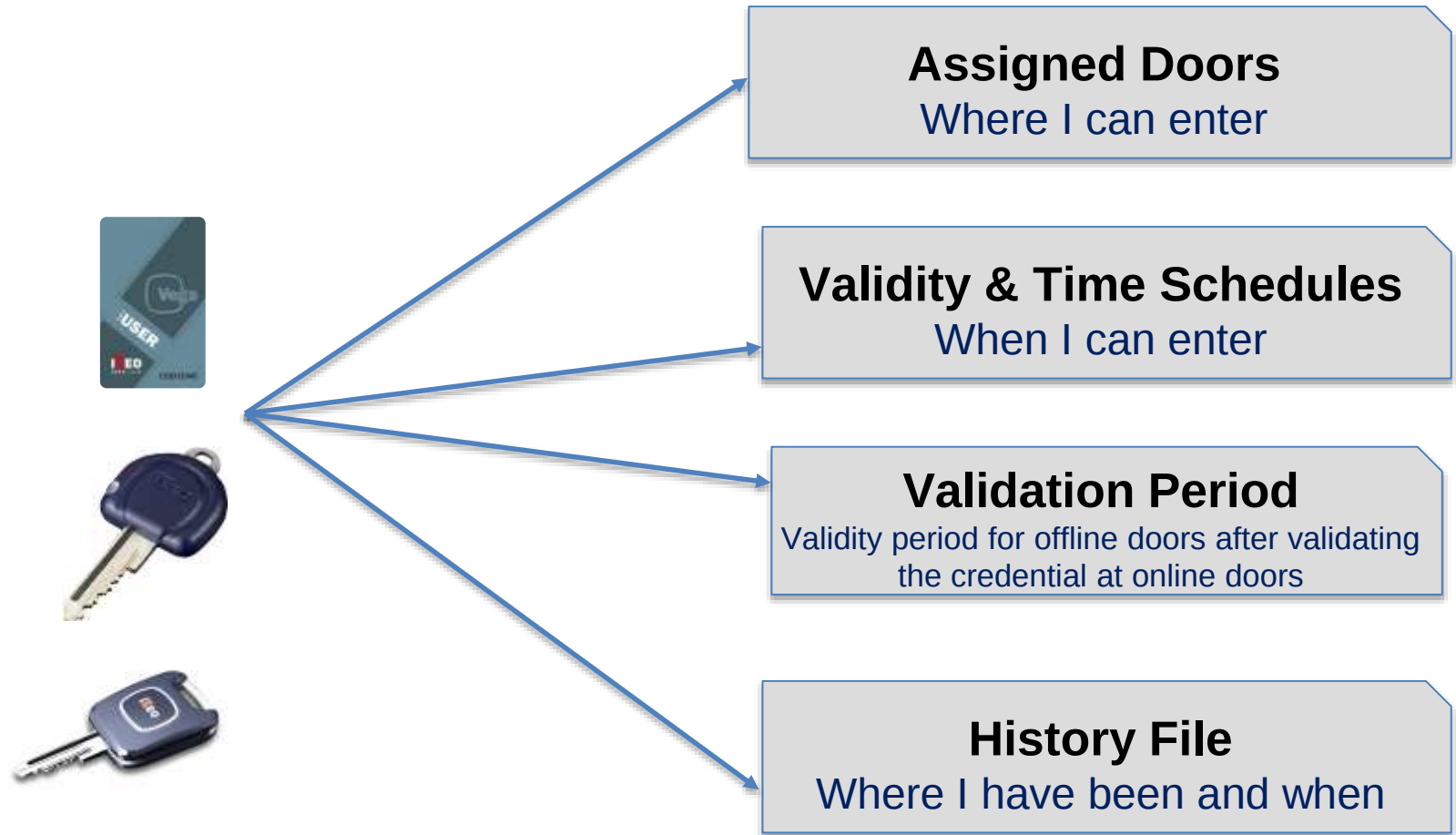
- The Locks checks the access right and the validation
- The locks writes the access log into the card

At the On-line readers (step 2)



- The main door reader download the entries made earlier
- The main door reader validates and updates the access rights
- The users can enter to the internal doors for a limited period

Data on Card – File System



Web Based Access Control System

- Built-In Web Server Platform
- Solid State Atlas Master Controller
- No software to install into Server Computer
- System Setup and running in minutes
- Secure platform due to Linux Operating System
 - stability
 - immunity from Virus
 - immunity from external threats attacks
- System Administrators different login access levels
- Multiple administrators concurrent sessions
- Multilanguage



Managed by Browsers and V364 Mobile App

- Manage from anywhere without the need to be in a dedicated workstation
- User friendly interface
 - modern look and feel
 - minimal training
 - simple to use and configure



Webkit Engine browsers



Microsoft
Edge



Apple
Safari



Google
Chrome



Secures Internal and External doors

- Secures Online External Doors
- Secures Offline Internal Doors
 - battery operated
 - easy to install
- Access Permissions updated with Validators
- Audit trails stored on the credentials
- Cost effective solutions for small and medium facilities

Supports Contactless RFID or Mechatronic Keys

- **RFID**

- Mifare Classic 4K
- Mifare DESFire EV1 8K



- Customizable card layout: accommodate into legacy credentials

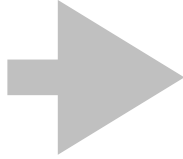
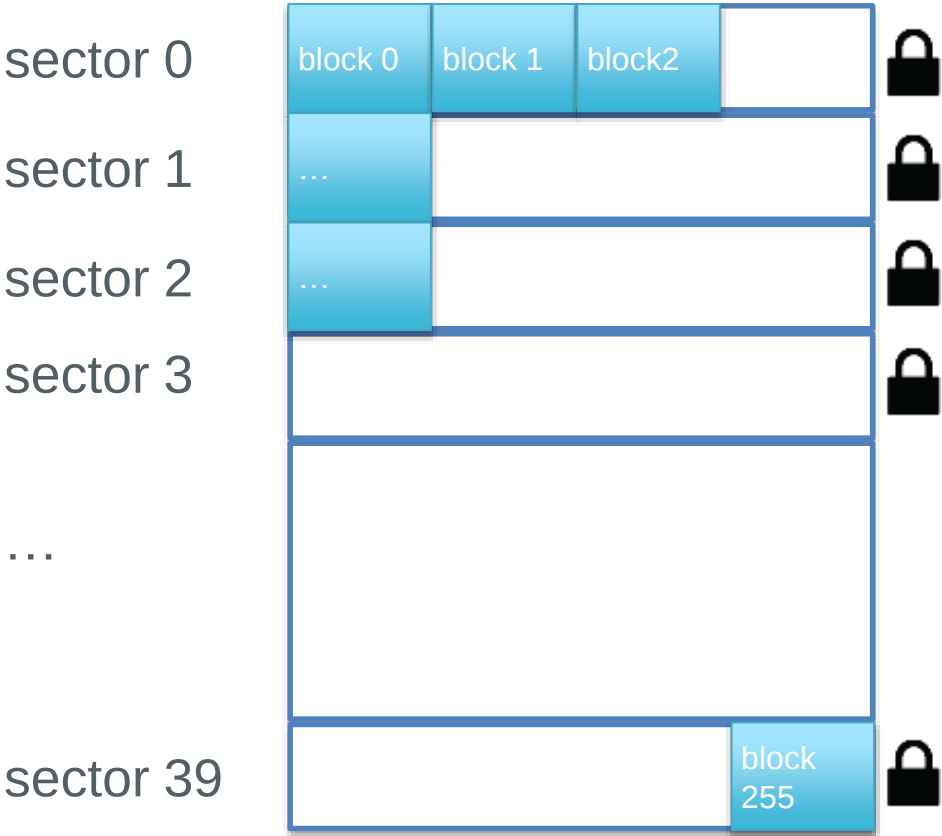
- **Mechatronic F9000**

- Compliant with ATEX directive (suitable for explosion danger environments)
- Work in combination with F9 MechanicalMaster key systems
- Mobile Validator



RFID Configurable Credential Layout

Mifare Classic 4K



- 2000 Doors
- 200 Events
- 6 Time Schedules

F9000 Mechatronic Highlights

F9000 Mechatronic Cylinder

- **Easy Installation**

- Cable free cylinder installation
- Flexible Modular Cylinder
- Euro profile form factor of a standard mechanical cylinder (no cables and no batteries)
- Allows to create mixed plants with different security levels:
- pure mechanical (ISEO F9, F900) and mechatronic (ISEO F9000)

- **Contactless Technology for Data and Energy transfer**

- No contacts ensure durability: No corrosion no Dust No Electrostatic discharges

- **Secure and Reliable**

- Dust and Water resistant IP66
- Highest resistance against drilling pulling picking and bumping:
EN 15684:2012 16B4FF32 classification certified by PIV



F9000 ON Key

- **Bluetooth Smart connectivity: access right updates with smartphones**
- **Secure connectivity encrypted AES 128 communication with smartphone**
- **ON demand switch on allows battery life up to 5 years**
- **Mechanical key like user experience (activation time in 80 mS)**
- **Secure connectivity encrypted AES 128 communication with smartphone**



Management System

- **Future proof: scalable and easy to integrate**
- **Flexible management of access rights**
- **Validation limits the risk of exposure with lost keys**
- **Remote disabling of keys**
- **Cylinder memorizes authorized and unauthorized opening attempts**
- **Key memorizes authorized and unauthorized opening attempts**
- **Automatic collection of events and battery status from keys**



Mechatronic Contactless Technology



Contactless Data and Energy Transfer

No Corrosion

No Dust

No Electro Static Discharge



F9000 ON

The Bluetooth Smart embedded connectivity provides the possibility to remotely update and validate authorizations with smartphones at anytime and anywhere.



F9000 UP

The F9000 UP can be programmed with the stationary F9000 reader/ writer devices (Validator) or the F9000 Mobile Validator connected to smartphones.



F9000 PROGRAMMER

The Programmer Key (PR) is used to download events from the cylinder, re-program the cylinders. The key has Bluetooth Smart connectivity for direct programming with the smartphone.



F9000 EMERGENCY

The Emergency Key (EM) opens all cylinders at any time in case of situations that poses an immediate risk to health, life, property, or environment. This key is specifically designed to enable the fire brigade to access the facility in case of an emergency. The key has a very high durability with battery life over 5 years and is all weather resistant.



Switch **ON** button

Bluetooth is active only ON demand

Advantages

1. Extended Battery Life

2. Increased Security

(Bluetooth Smart is activated only 12 seconds max reducing risk of any potential attack over the encrypted AES128 channel)

Mobile Workforce Access Management

- Provide access authorization to remote unmanned sites to a Mobile Workforce always on the move connected to the office with smartphones



ON line Validation and Enroll



F9000 ON Features

Option for RFID Tag

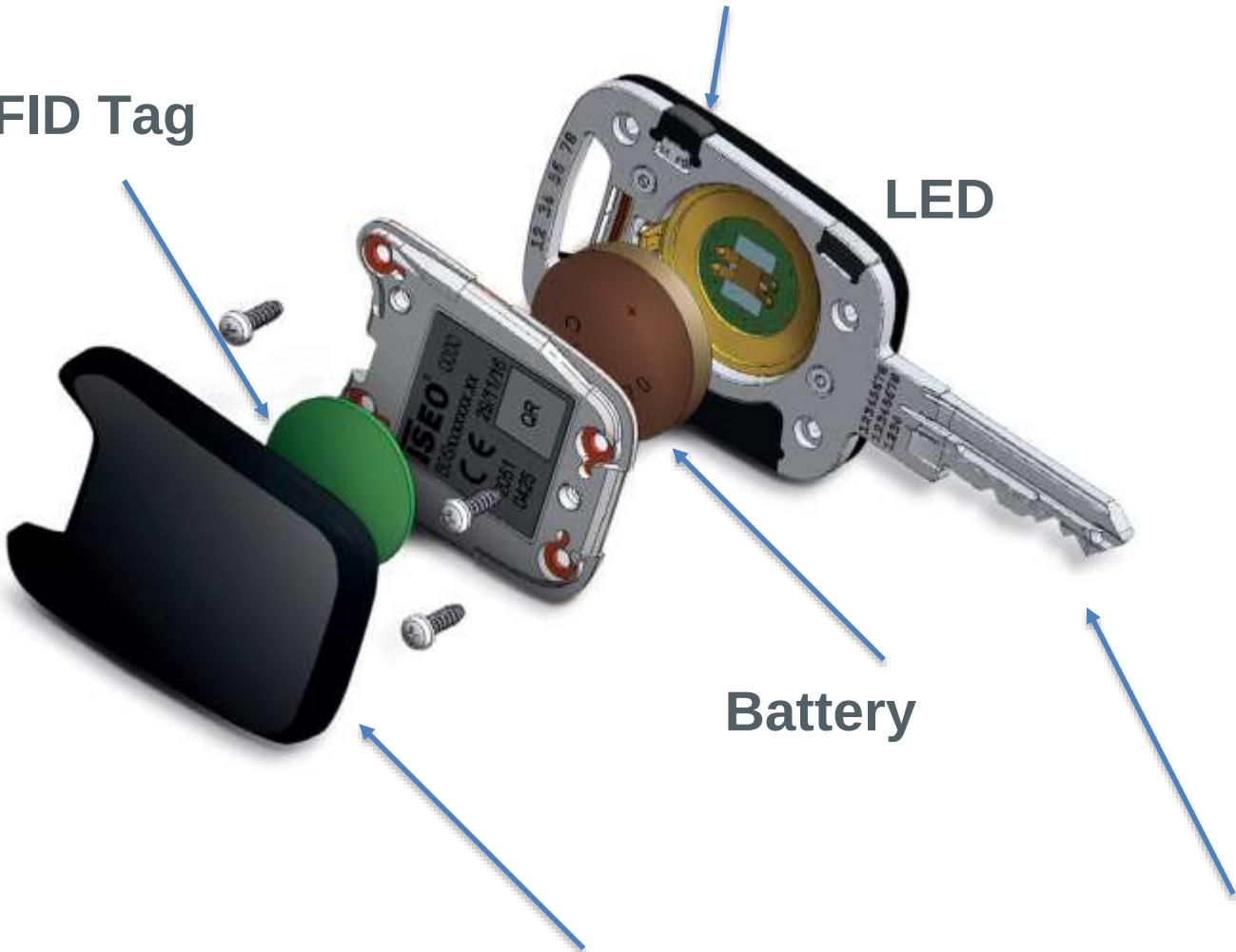
Switch ON

LED

Battery

All Weather
IP 65

Protected Key



Identification Marking



ATEX Option

ATEX Ex II 2 G Ex ib IIB T4 (zone 1) (on request) use in potentially explosive areas.

II = Equipment Group II usable on surface.

2 = Level of protection 2 High level.

G = Type of explosive atmosphere: gas vapors.

Ex = Explosion protections.

ib = Intrinsic safety of the product (EN 60079-11).

IIB = Group of gas (Ethylene) .

T4 = Temperature class $\leq 135^{\circ}$.

UID Enroll

Globally Unique Number



Identification Marking

Plant Code

Customer Marking (8 characters)

Key function ON (or UP, PR, EM)

F9000 Modular Cylinder



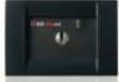
LE60

MODULAR CYLINDER

The F9000 cylinder is available in modular versions as Euro profile cylinder in length starting from 30 mm per side. The standard length of 60 mm can be extended in 5 mm increments up to a total length of 145 mm (95 mm maximum per side).

Wide Range of Cylinders

- 1 MAIN DOOR**
Wall mounting
reader/writer



- 2 MAIL BOXES**
F9000 Round Threaded
with locking lever



- 3 KEY DEPOSIT**
F9000 Cylinder
for Safe Tube



- 4 GATE**
Padlock Universal
with F9000 Cylinder



- 5 HIGH SECURITY
PASSAGE DOORS**
F9000 European Profile
with 2 sides electronics



- 6 EMERGENCY
EXIT DOORS**
F9000 European
Single Profile



- 7 ARCHIVE**
F9 (or F900) mechanical cylinder
with European Double Profile



- 8 OFFICE DOORS**
F9000 European Double
Profile round knob



- 9 ELEVATOR**
F9000 Threaded M26
with Microswitch

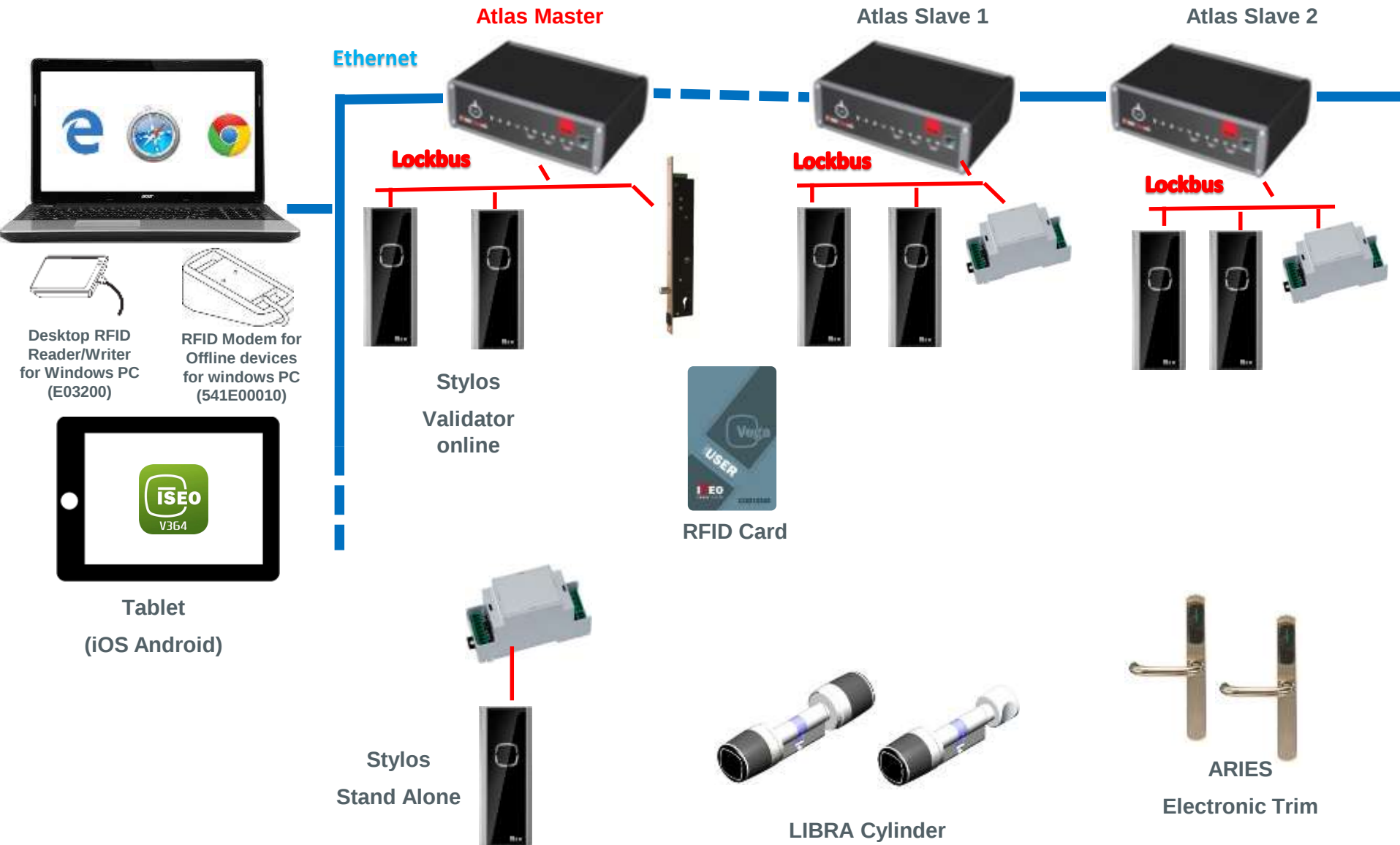


- 10 STANDARD DOOR**
F9000 European Double Profile

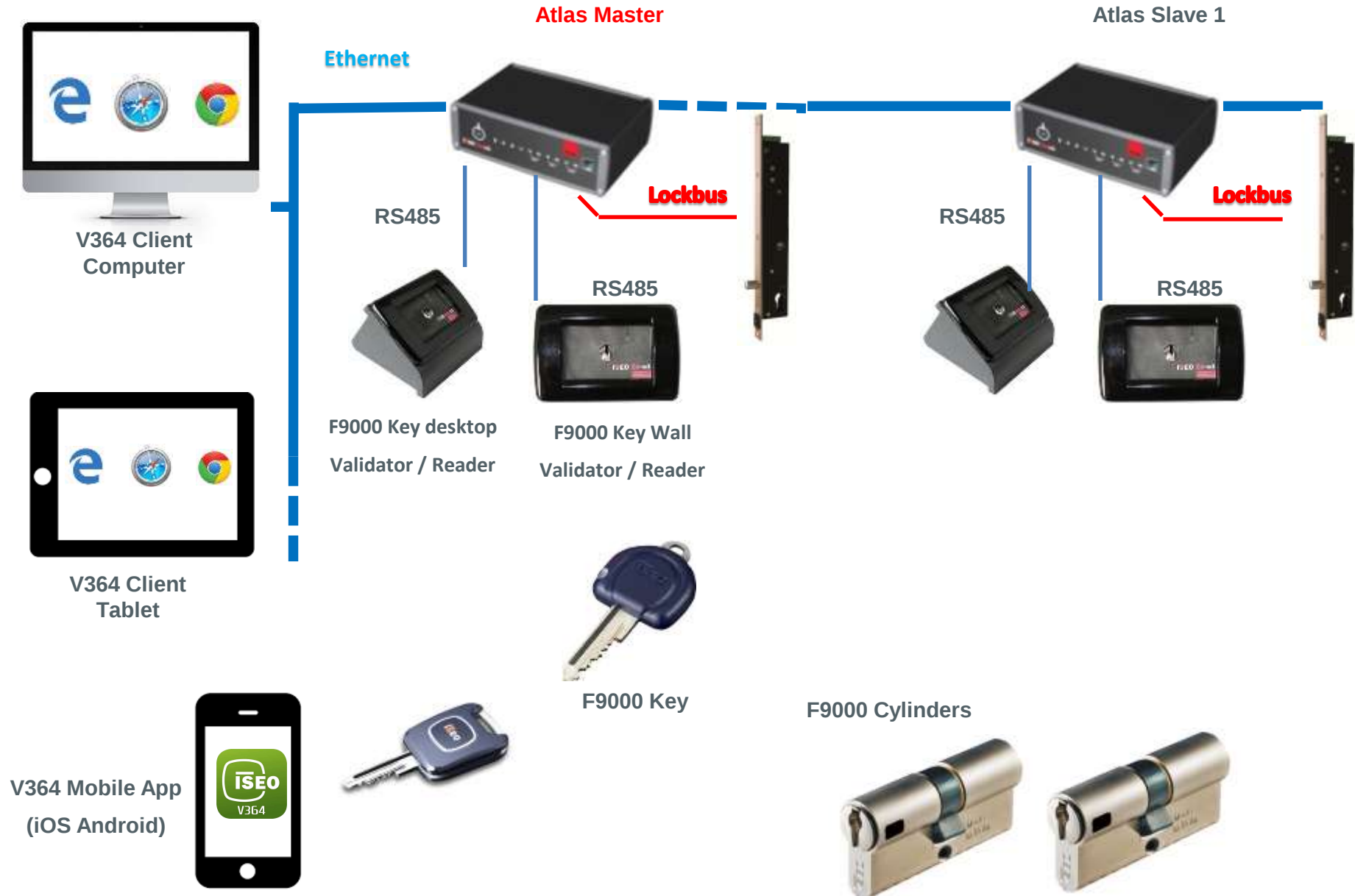


- 11 CONTAINERS**
Rectangular padlock Boxer
with F9000 cylinder

V364 RFID



V364 F9000



Scalable Architecture

- Multiple configurations supporting several Users
- Easy to expand adding:
 - Access Users (license)
 - Atlas Slave controllers
 - Doors
- Devices software upgrade in the field
- Integration into building Management Systems
 - Web Services with SOAP over http technology

Atlas Controller

Atlas Master



Atlas Plus
5E0020 12

Atlas Slave



Atlas
5E0020 10

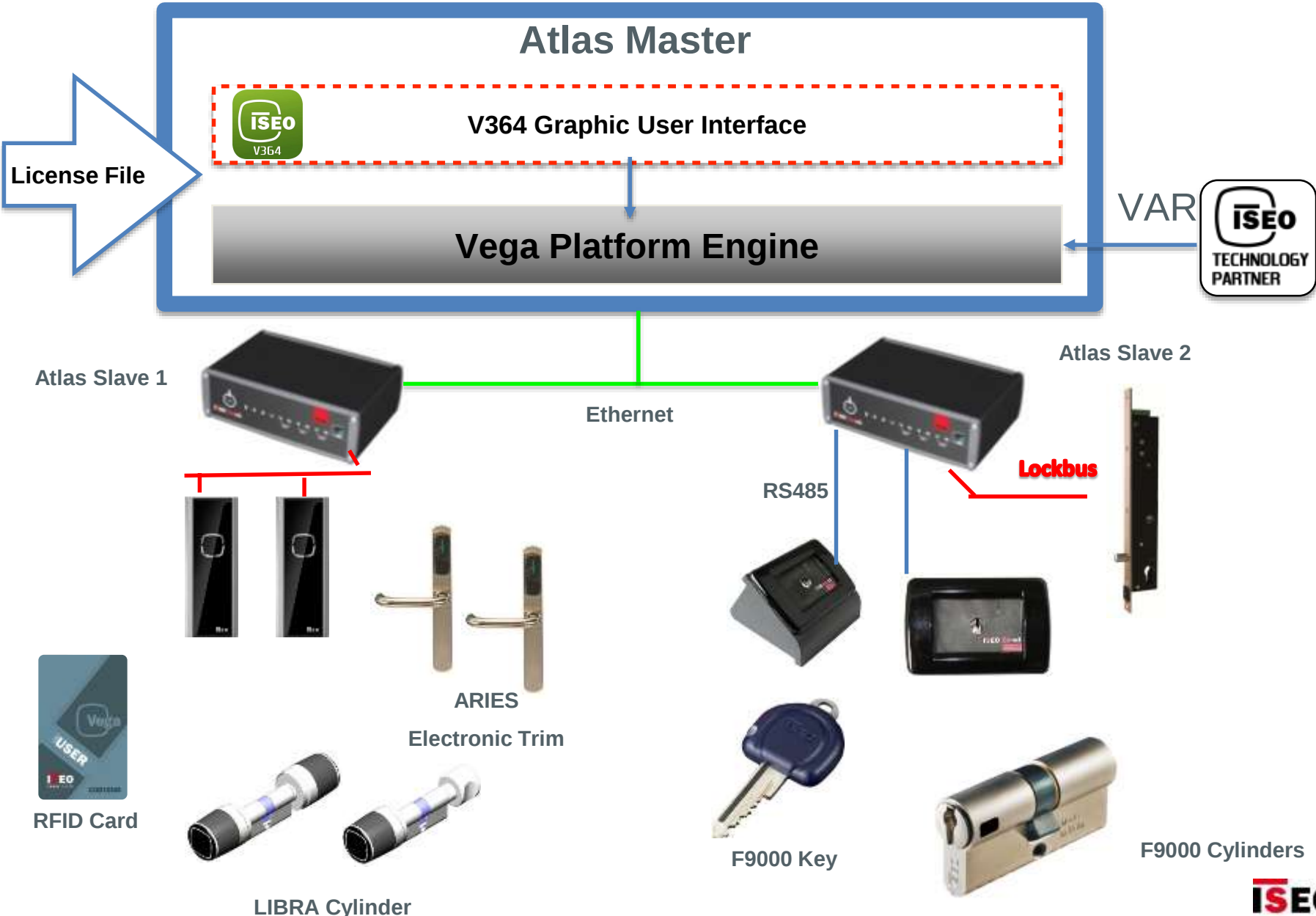
Atlas Plus

5 times faster than Atlas
Hot backup on microSD

V364 1.1

**ISEO**

V364 Architecture



V364 License

End User Licence

Up to 100 users	1	0041600
Up to 500 users	1	0041601
Up to 1.000 users	1	0041602
Up to 2.000 users	1	0041603
Up to 5.000 users	1	0041604

End User Licence upgrades

Upgrade users token	1	0041650
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Users upgrade licence scheme

The table reports the quantity of token to be ordered to increase the number of users from the licence in use (Current Licence), to the desired one (Upgraded licence).

		Upgraded licence			
		500 U	1.000 U	2.000 U	5.000 U
Current licence	100 U	1	2	4	6
	500 U	1	3	5	
	1.000 U		2	4	
	2.000 U			2	

Optional modules

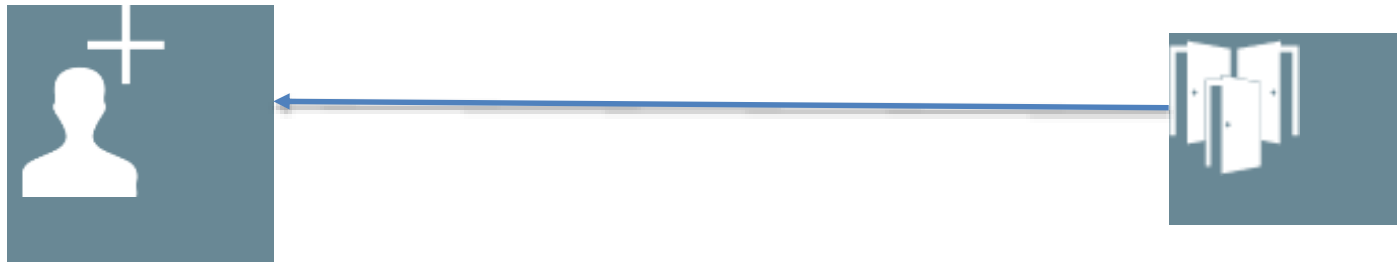
Extra modules are optional additional modules in order to increase the V364 System functionalities

Plant partitions	1	0041641
Customer UID management located in Mifare Classic Sector	1	0041640

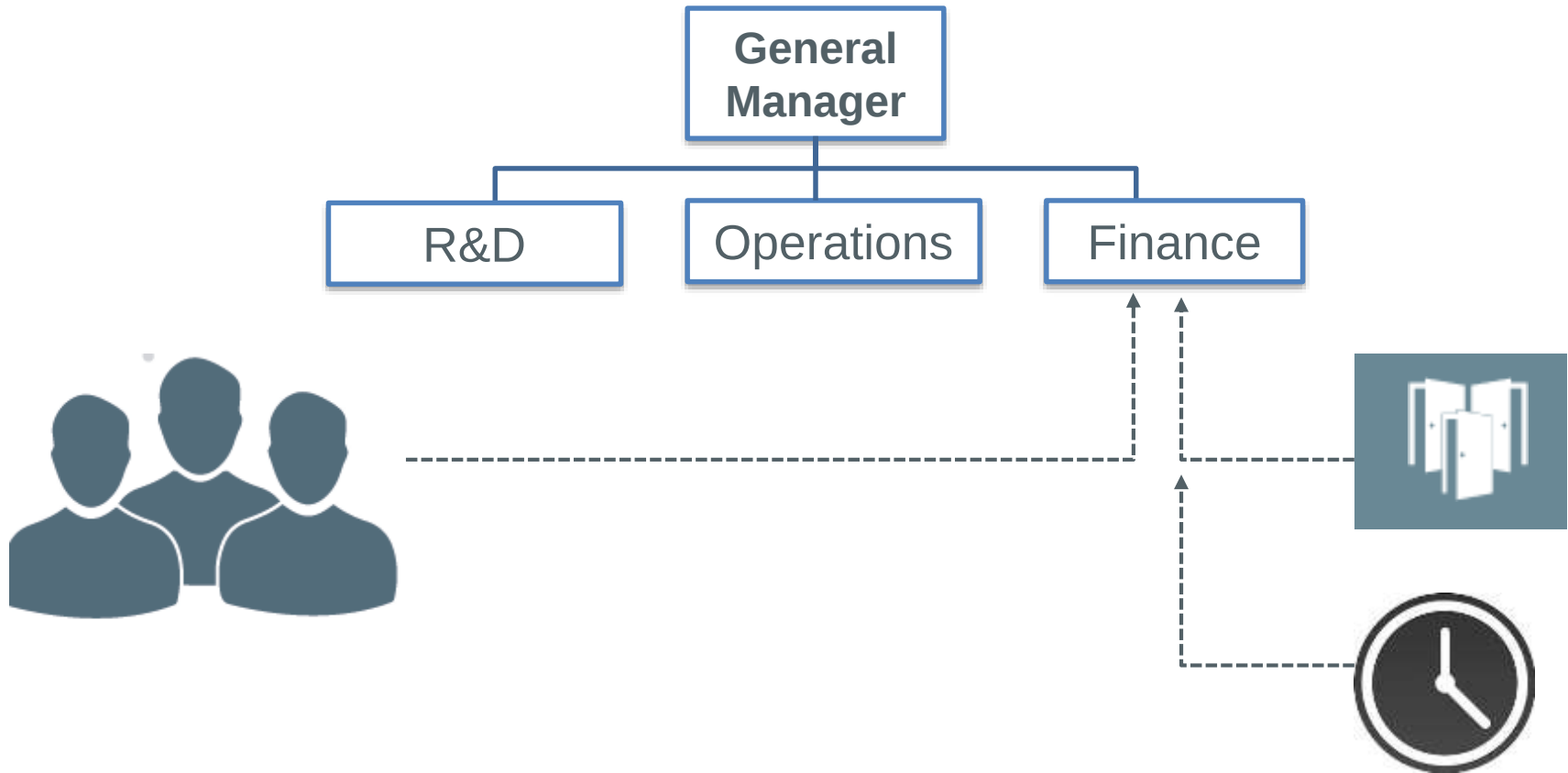
V364 1.1

Traditional Access Control

Access authorizations assigned to the access user



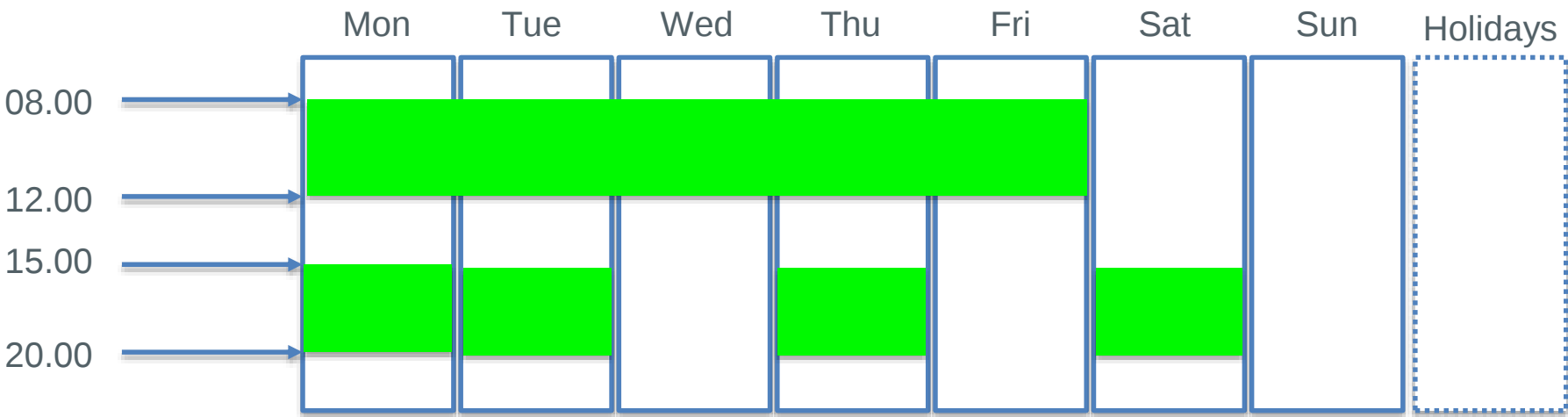
Role Based Access Control



A user can have one role which defines his door access privileges.

Several users can have the same role in the organization determining a group of people (a set of users) with the same access privileges to a facility.

- Workers Time Schedule



Holidays are defined calendar days (or calendar events) when the "normal" work schedule does not apply. During Holidays, "normal" time schedules are overridden by the Calendar Events that are specified.

Holidays				
New Year's Day	Start 1/1/2018	Duration 1	Repeated 	
Epiphany	Start 6/1/2018	Duration 1	Repeated 	
Easter Sunday	Start 1/4/2018	Duration 1		
Easter Monday	Start 2/4/2018	Duration 1		
Liberation Day	Start 25/4/2018	Duration 1	Repeated 	
International Workers' Day	Start 1/5/2018	Duration 1	Repeated 	
Republic Day	Start 2/6/2018	Duration 1	Repeated 	
Immaculate Conception	Start 1/8/2018	Duration 1	Repeated 	
Assumption Day	Start 15/8/2018	Duration 1	Repeated 	
All Saints' Day	Start 1/11/2018	Duration 1	Repeated 	
Christmas Day	Start 25/12/2018	Duration 1	Repeated 	
St Stephen's Day	Start 26/12/2018	Duration 1	Repeated 	

Access Users

Type and Enter

	Baraldi Bruno (validation)	Role it manager	UID 045843			
	Crepaldi Carlo	Role ALL DOORS 24H	UID			
	Delonghi Davide	Role	UID 04291F			
	Eccetera Ercole Expired	Role	UID 042B37			
	Fenicotteri Fabio	Role	UID			
	Gotti Giuseppe	Role	UID			
	Hans ÄÖÜ	Role	UID	Activation 01/01/2018	Expiration 30/06/2018	>
	Hermes Hugo	Role	UID	Activation 01/01/2018	Expiration 30/06/2018	>
	Icardi Igor	Role	UID	Activation 01/01/2018	Expiration 30/06/2018	>

13/13 Elements

V364 1.1.1.08 F9000 23/03/2018 12:36:11 Plant: UBUNTU02 A Global partition admin Reader: prod-w

Advanced Filters Search

Users not assigned to Partition

User without any credential

User with credential Lifecycle status

Select an item from the list

User with credential Synchronization Status

Select an item from the list

User activating

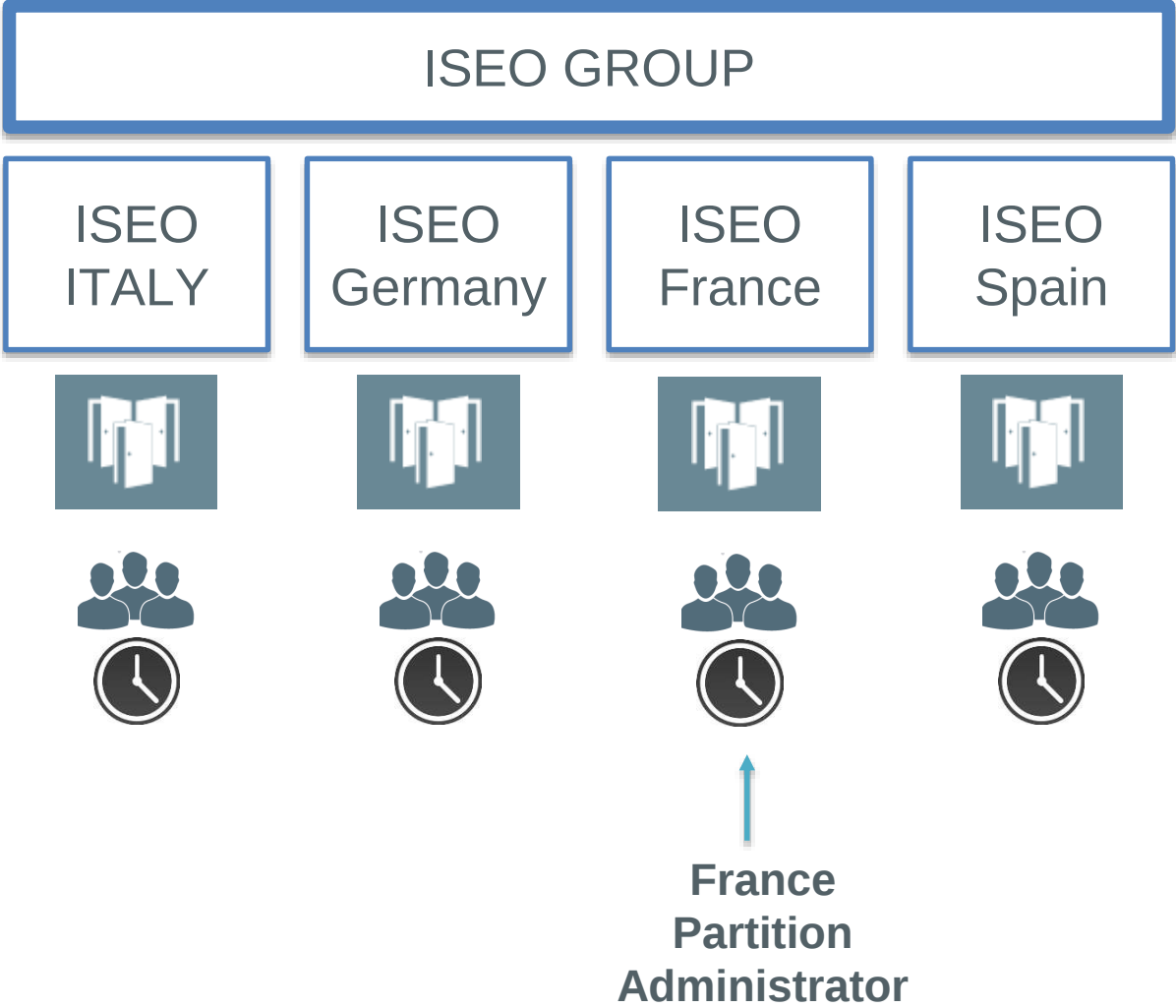
After 15/03/2018

User expiring

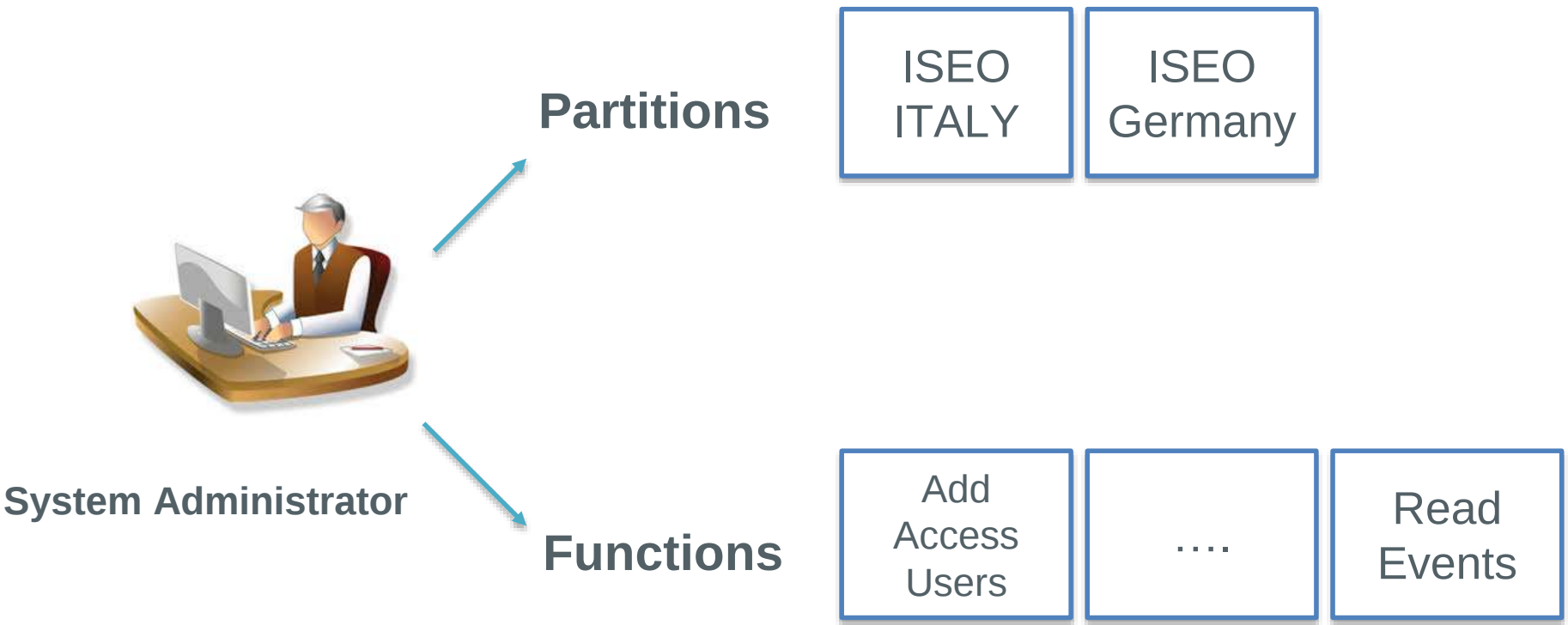
Any

Search might take time...

Cancel Search



Plant Partition as additional License Module



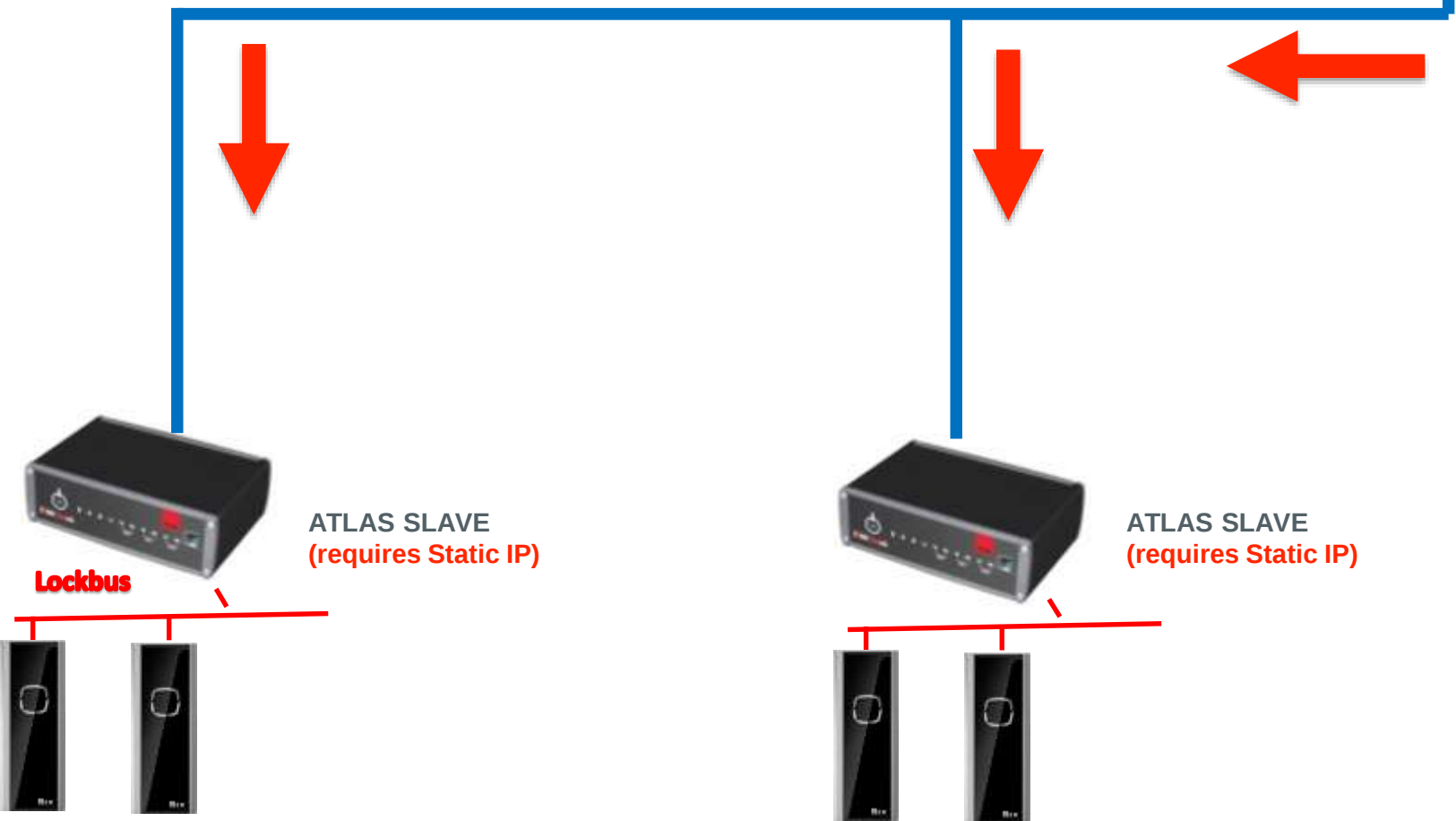
V364 System Architecture - Atlas Slave behind Firewalls



1.0

ATLAS MASTER

MASTER Initiates Communication



ATLAS SLAVE
(requires Static IP)

ATLAS SLAVE
(requires Static IP)

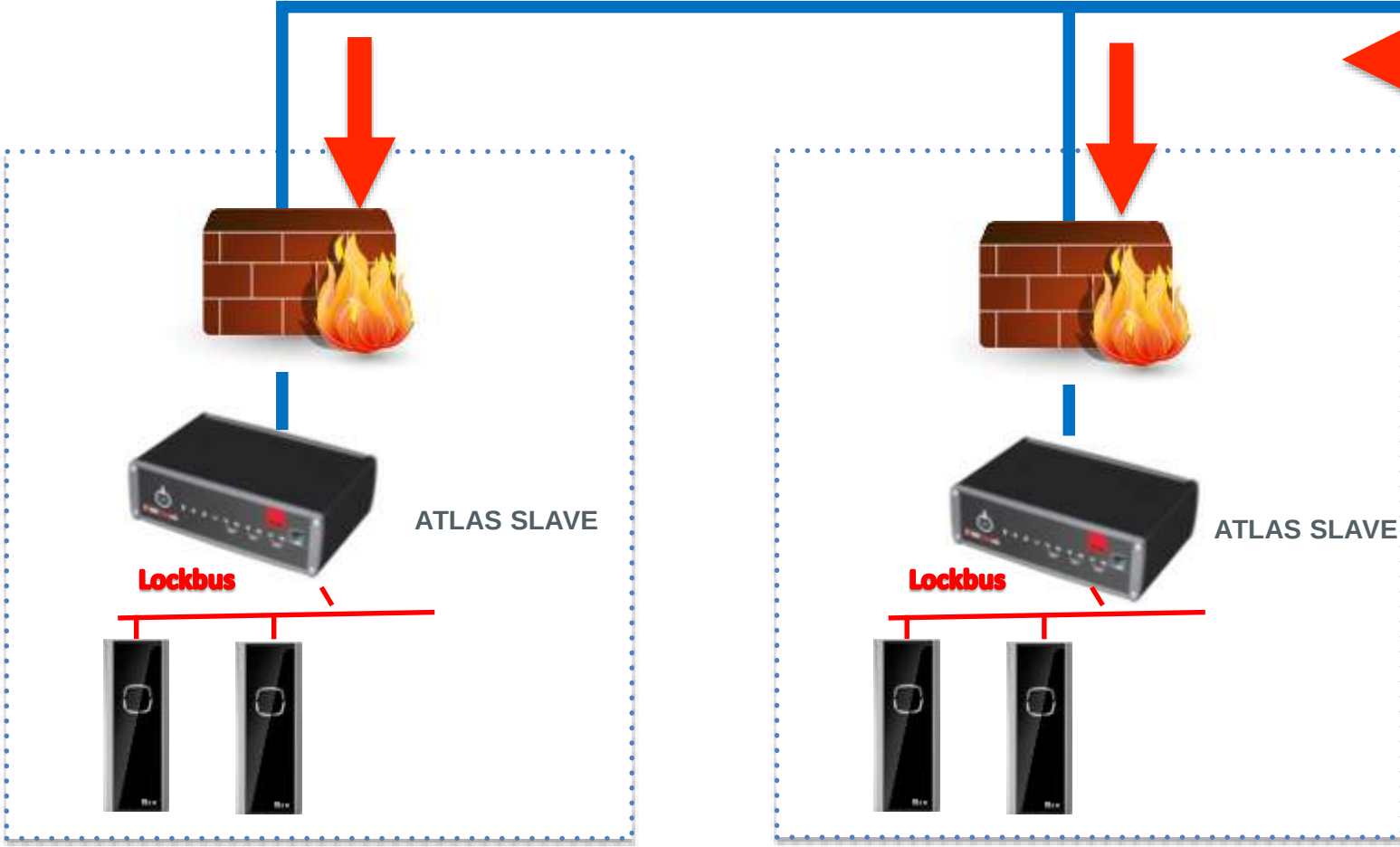
V364 System Architecture - Atlas Slave behind Firewalls



1.0

ATLAS MASTER

Firewalls blocking inbound traffic



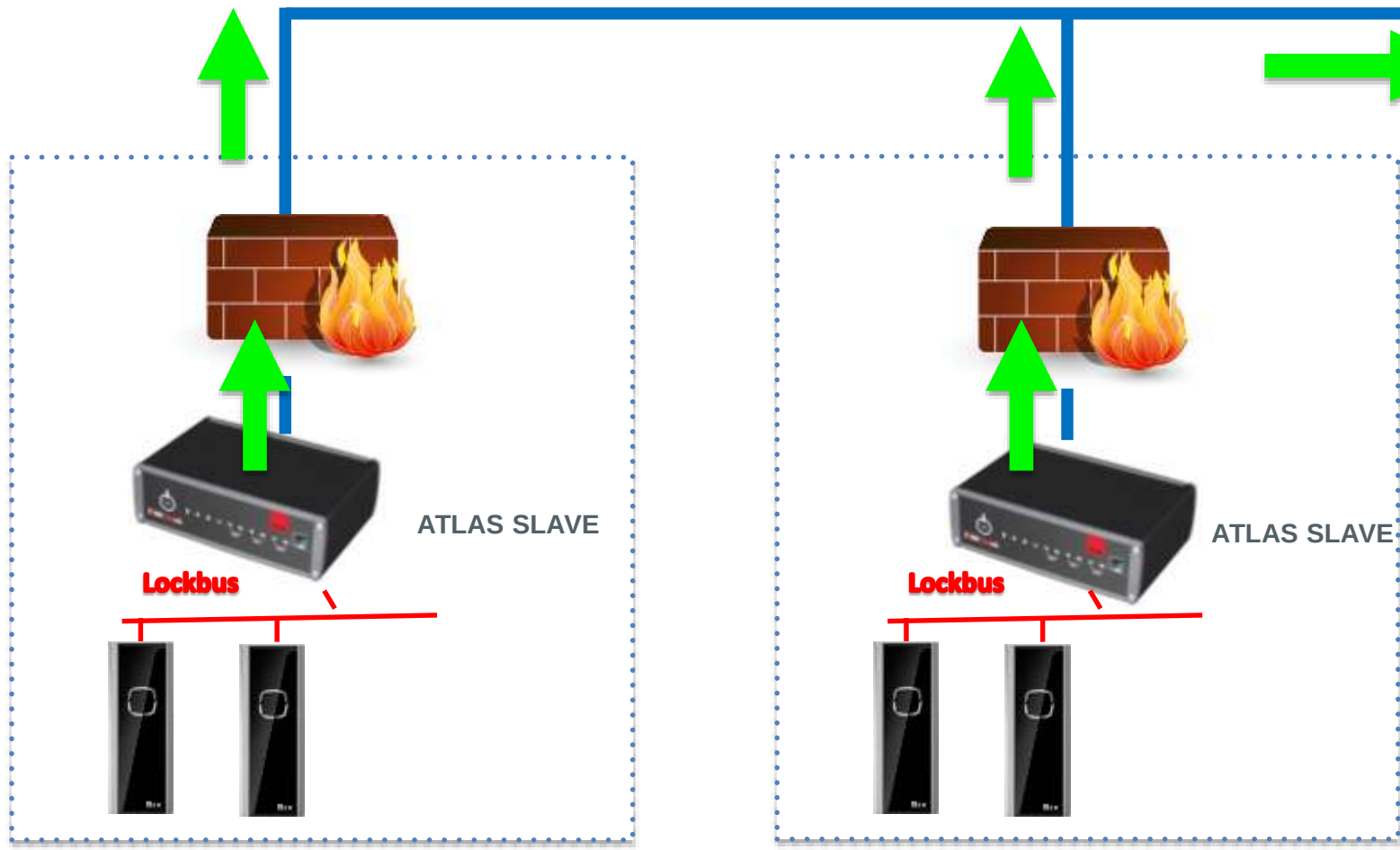
V364 System Architecture - Atlas Slave behind Firewalls



1.1

ATLAS MASTER

SLAVE Initiates Communication

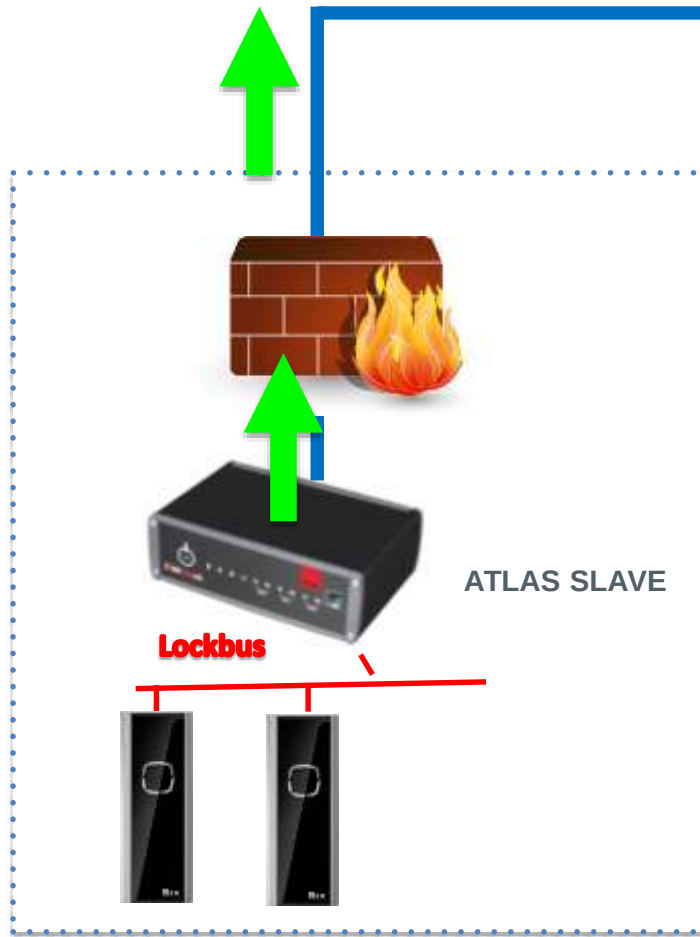




1.1

ATLAS MASTER

SLAVE Initiates Communication



Benefits

1. add Atlas inside network protected by firewalls
2. no IP static for SLAVE
3. Easy Configuration - Plug and Play
4. Increased security on Atlas Network

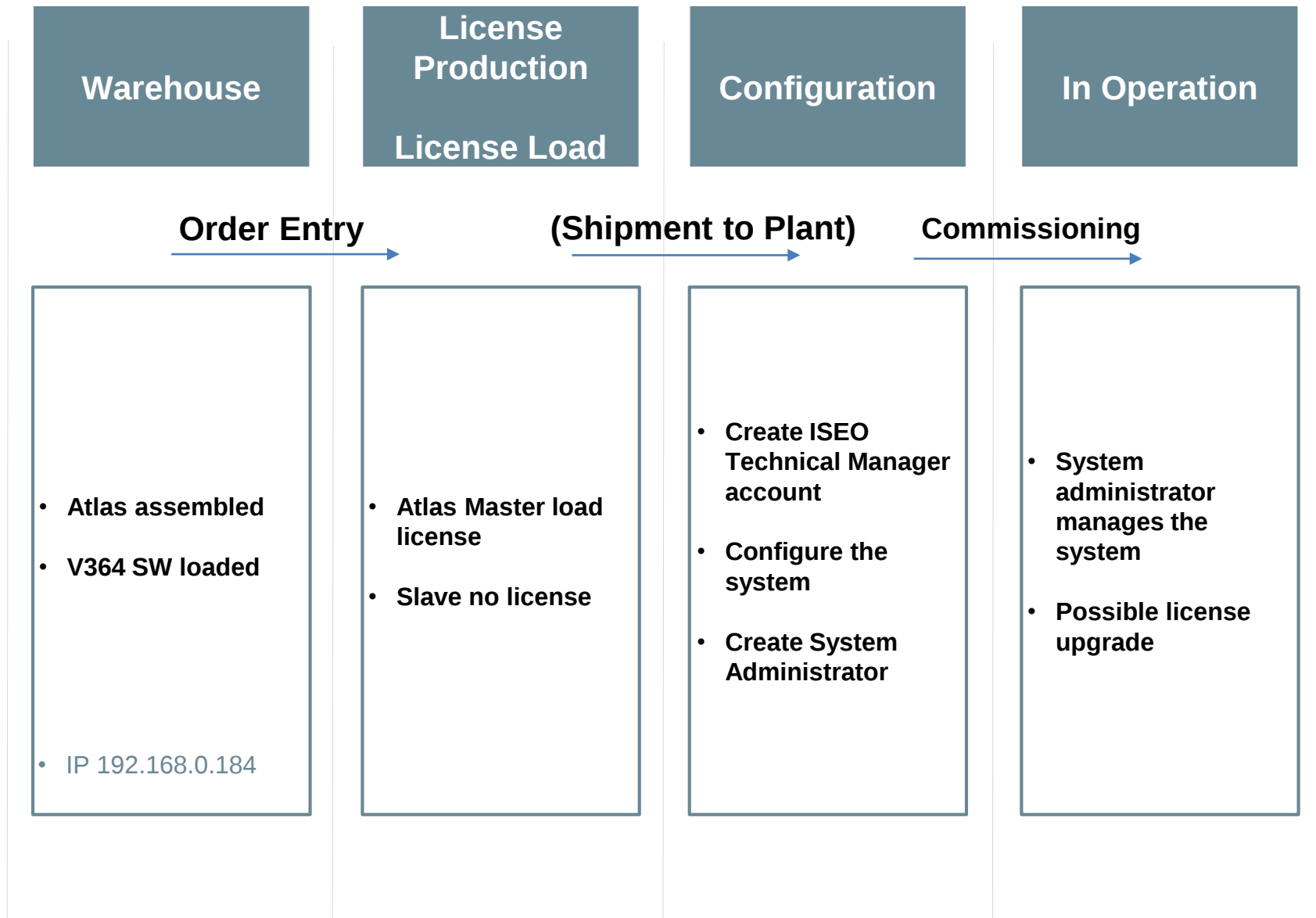
Site Survey



V364 Plant Information Summary

ISEO CUSTOMER NAME (Iseo will invoice to this customer)				
CONTACT (to whom to send the license file)	e-mail			
PLANT (the actual Plant which will use the V364 Atlas Master and license)	if available			
LICENSE CODE (with reference to Iseo V364 catalogue)		0041600	up to 100 Access Users	
		0041601	up to 500 Access Users	
		0041602	up to 1000 Access Users	
		0041603	up to 2000 Access Users	
		0041604	up to 5000 Access Users	
		0041650	upgrade Access Users Token	
			Demo License (with plant code demo) up to 100 Access Users	
		F9000 V2		
CREDENTIAL TYPE (you can select multiple credentials type)	RFID – Mifare Classic			
	RFID – DESFire			
CREDENTIAL LAYOUT	Standard 4KByte (2000 doors / 250 Events)			
		Custom Layout	Available Memory (example number of sectors available in legacy Mifare classic)	
			Desired number of Doors	
			Desired number of Events	

Atlas Controller lifecycle



Demo V364 F9000 system



**SYSTEM
ADMINISTRATOR**



EMPLOYEE



ROLE CHANGE



**SERVICE
TECHNICIAN**

**Add Access User
Role Employee
Issue credential
(direct write iPad)**

**access to building
Open doors
Wall validation
(events download)**

**Change Role to
Service Tech**

**Validation on phone
open doors**



**SECURITY
MANAGER**

View events



**TERMINATION
OF EMPLOYMENT**

**Revoke (validation expired)
Delete User**

Demo V364 F9000 system with F9000 ON demo kit



**SYSTEM
ADMINISTRATOR**



EMPLOYEE



ROLE CHANGE



**SERVICE
TECHNICIAN**

Login to V364 with Tablet
Add Access User
Assign Role (or doors)
Issue credential
(direct write on Tablet)

Open doors

Change Role (or doors)

Validate on Smartphone
open new doors



**SECURITY
MANAGER**

View Events



**TERMINATION
OF EMPLOYMENT**

Revoke (with validation expired)
Delete User

Demo V364 RFID system



**SYSTEM
ADMINISTRATOR**

**Add Access User
Role Purchasing
Issue credential
(UID enrollment)**



EMPLOYEE

**Access to building
Open doors
Wall validation
(events download)**



ROLE CHANGE

**Change Role to
Sales Dep**



EMPLOYEE

**Access to building
Open doors
Wall validation
(events download)**



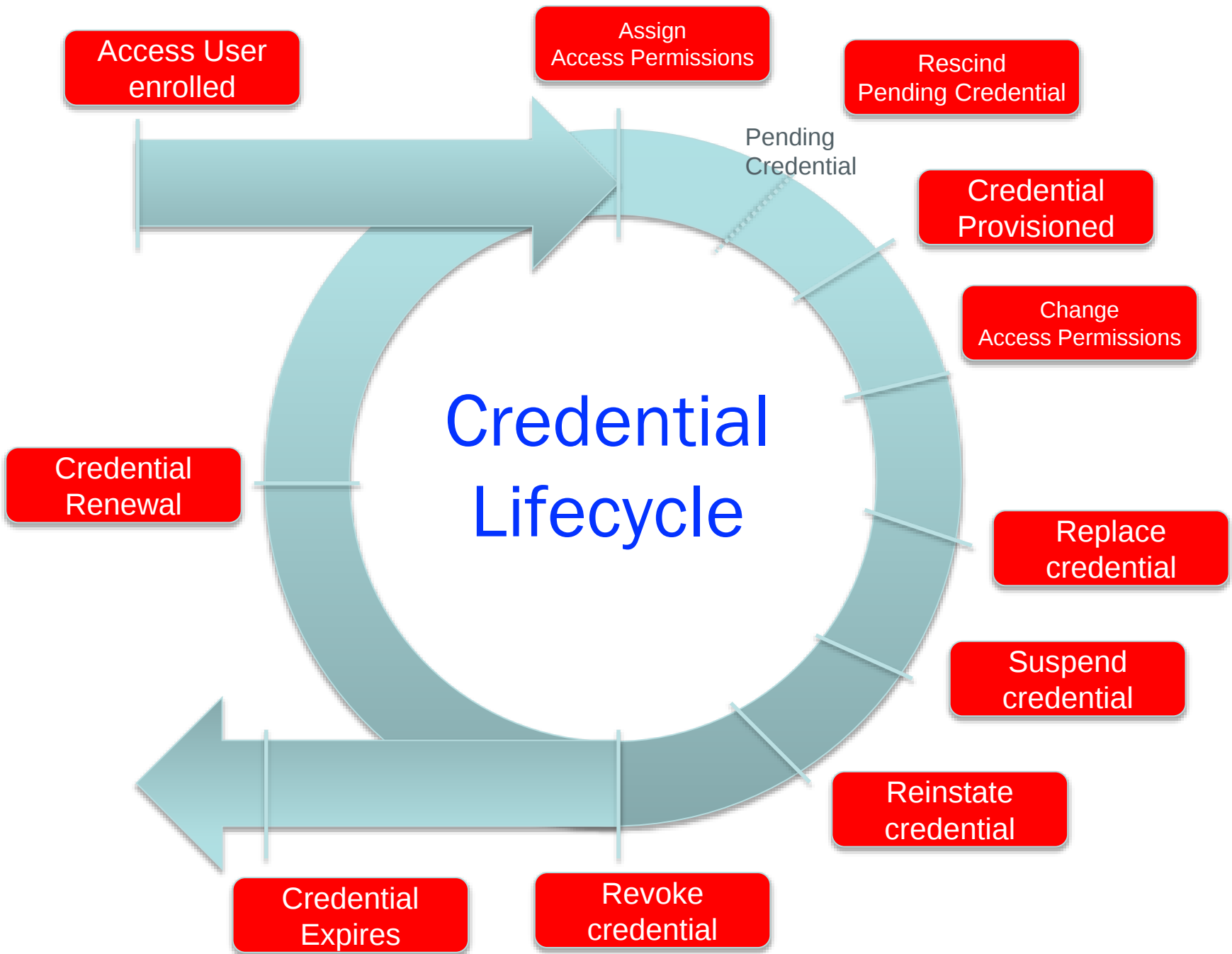
**SECURITY
MANAGER**

View events



**TERMINATION
OF EMPLOYMENT**

**Revoke (validation expired)
Delete User**



F9000 Credential Enrollment

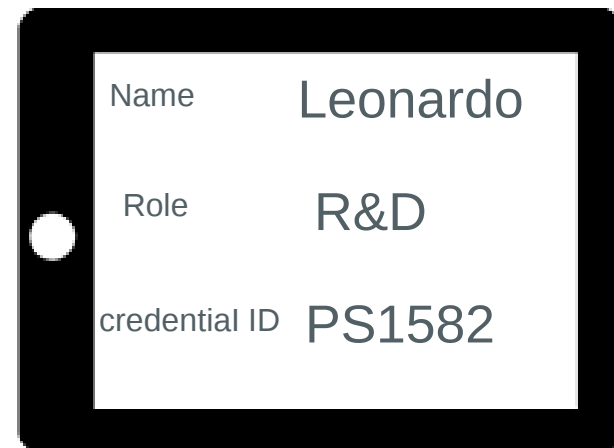
F9000 Desktop
Reader/Writer



Typing credential number



PS1582



RFID Credential Enrollment

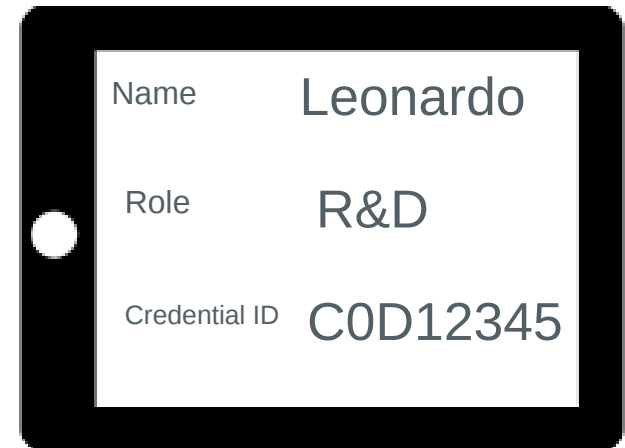
USB Reader/ Writer
Only Windows PC



Stylos Reader



Typing Card number

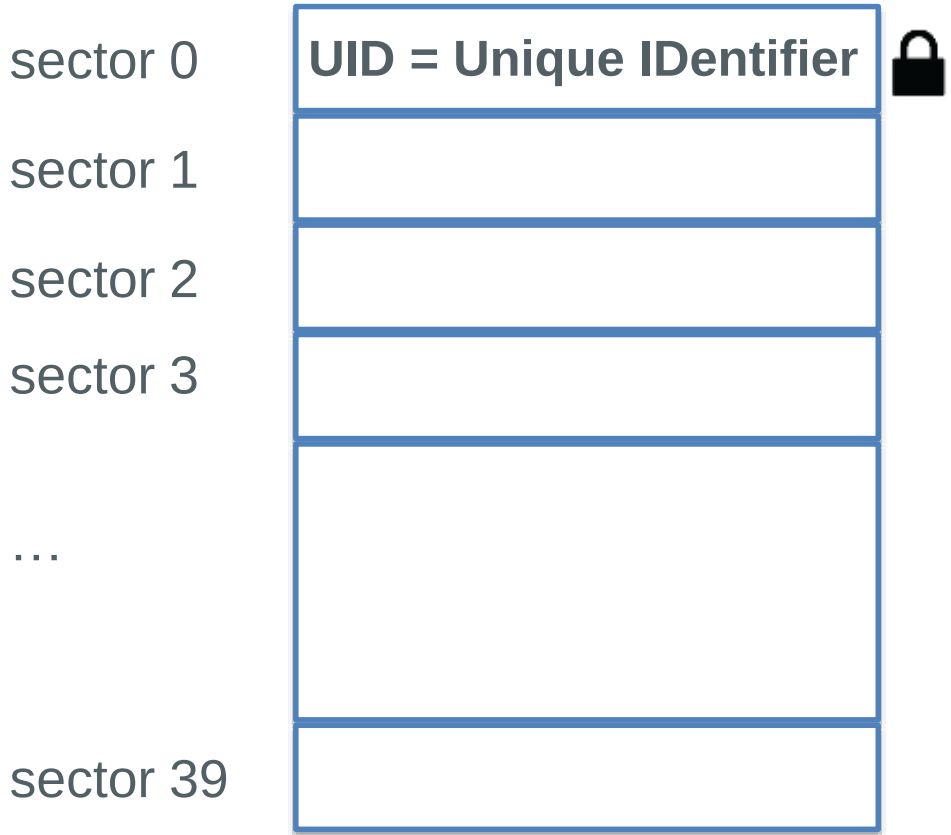


Enroll with Customer ID in Mifare Classic Card

Confidential

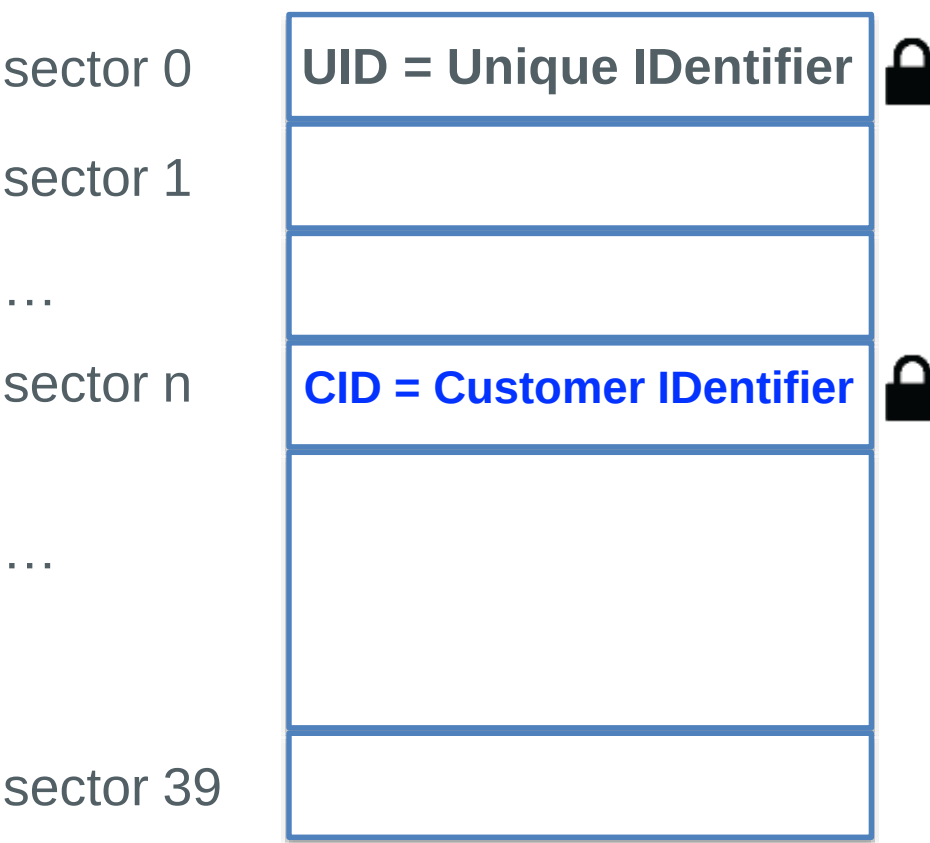
UID enroll

Mifare Classic 4K



CID enroll

Mifare Classic 4K



Customer ID in Mifare classic as additional License Module