

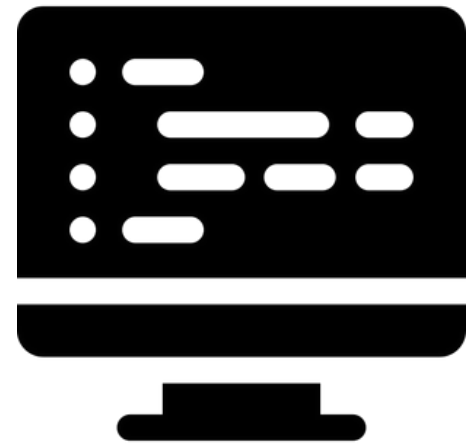
Business Presentation

LoRa Solutions for Smart

Door Lock



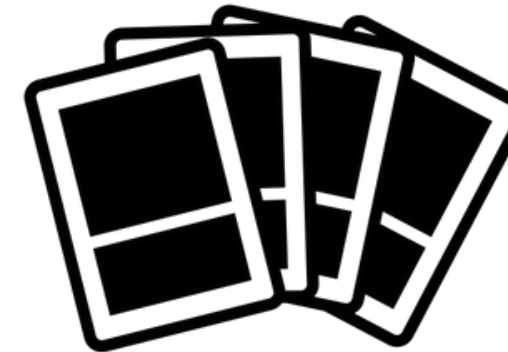
Configuration of Offline System



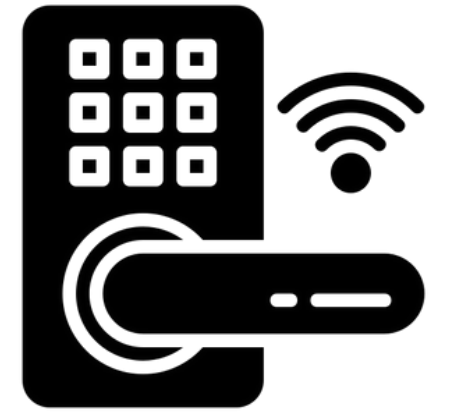
Hotel Lock Interface



Server

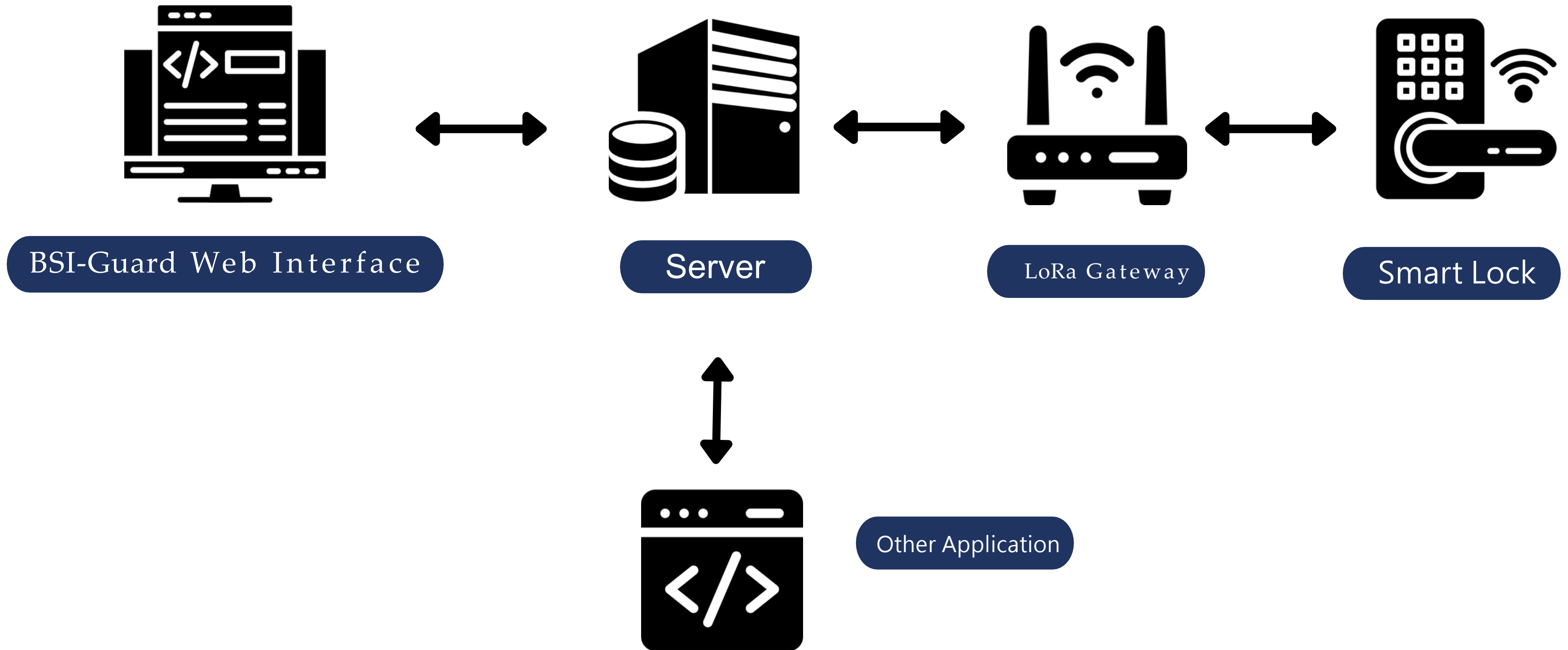


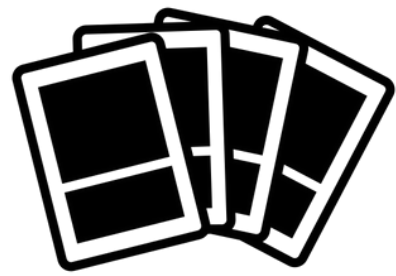
Mifare Card



Smart Lock

Configuration of Online(LoRa) System





Offline

VS



Online

The access authority is saved in the card.

Access Authority

The access authority is saved in the server, which can be changed and updated to the lock.

Need to make a lost card and synchronize the card number to the lock.

Card Lost

Cancel the authorization from system, and synchronize the lock.

It needs to use MiFare 4K card to read each lock's history logs to the server.

History Log

Setting a daily synchronized time of history logs to the server.

Use Access development as standalone version, and design another database for synchronization.

Database Sharing

Use MySQL development, which can add API to other application.

The communication between server and lock are via MiFare card.

Environment

Set up 3 to 5 gateways in each corridor, the ratio between gateway and door lock = 1:16, a physical network cable must be used to communicate data with the server within the same inner internet.

3 Kinds of Power Supply

	Weak Current12V	Wireless Power Transfer STB	alkaline battery(1.5V*4) or lithium battery(18650*3)
Advantage	It can directly supply the power, no need to change battery.	It can supply uninterruptible power by the chargeable battery in the device.	The lock has warning feature when in low battery, or notify/show it on the online system.
Disadvantage	The cable easy to get worn out (broken) makes the lock stop working.	Higher installation cost.	It depends on the frequency of use, which may need to change the battery once half or a year.



Smart Door Lock

- ✓ Mifare Card Access
- ✓ User Code Access
- ✓ It can memory following capacity when the system is offline.

White list 550

History logs 1600

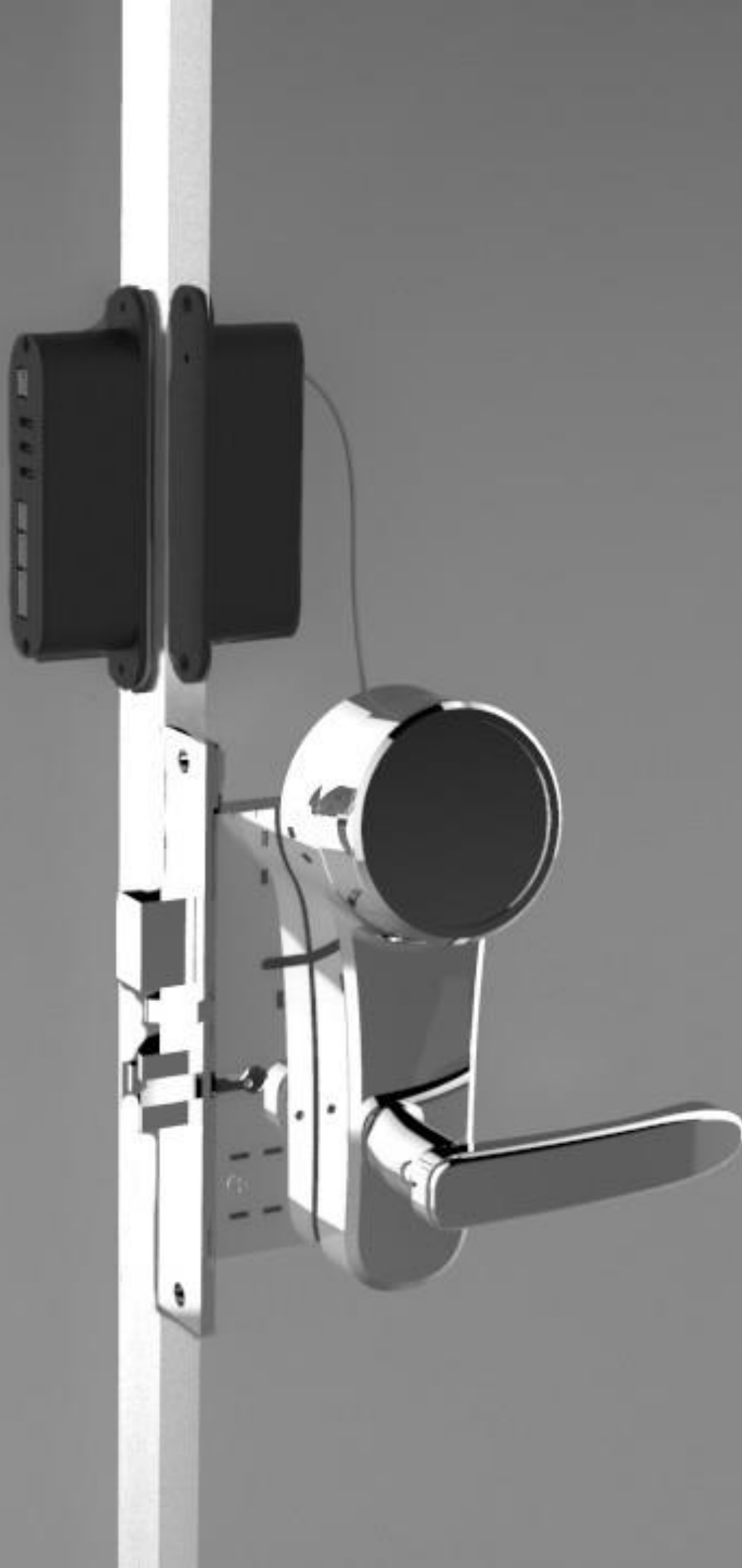




LoRa Gateway

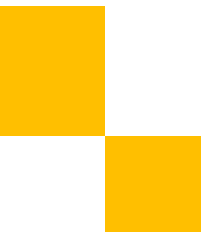
- ✓ Exchange data via internet and server.
- ✓ Lock communication via LoRa.
- ✓ Suggest 1 gateway configure 16 door locks.





Wireless Power Supply **STB**

- ✓ Easy to install and maintain.
- ✓ It fits to confined space.
Conform to EU standard lockset of smallest door thickness.
- ✓ Patented wireless power transfer.
It can replace power supply either by battery on the lock, or access control wiring configuration.
- ✓ RFID patented technology, with international certifications.





BSI-Guard Web Interface

User Management

User Management



Name	Account	status	Setting
231231	23123	可登入	<button>Edit</button> <button>Delete</button>
rodger	rodger	可登入	<button>Edit</button> <button>Delete</button>
rita	rita	可登入	

Add User

Name

Account

Password

Random Password

status

Close

Save



BSI-Guard Web Interface

Department Management

Department Management



Name	Director	Phone	Address	Setting
人事部門	人事主管	0999555222		<button>Edit</button> <button>Delete</button>
資訊部門	資訊主管	0909000111		

Add Department



Name*

Director

Phone

Address

Close

Save



BSI-Guard Web Interface

Personnel Management

Member Management



Identity	Department	name	Card Hex	Card Dec	Birthday	Phone	Email	Address	Remark
S1010001	人事部門	Elsa	5D3F7A17	1564441111	2018-01-04	098766799	kjhk@gmail.com	khh	<input type="text"/>
S1010002	資訊部門	Tina	FDF45323	4260647715	2022-08-10	09877343			
S1010003	人事部門	Rodger	074DF10E	0122548494	2022-08-03	09663242			

Add Member

Identity*

Department

name

Pin Code

Card Hex

Card Dec

Birthday

Phone

Email

Address

Remark

Close

Save



BSI-Guard Web Interface

Gateway Management

Gateway Management

+

Name	LoRa Address	MAC	Build	Floor	IP	Remark	Last_active	Setting
網關01-02F	80010001		01	02		51206		<div>EditDelete</div>
網關02-01F	80010002		02	01		52104		

Add Gateway

Name*

MAC

LoRa Address*

Build

Floor

IP

Remark

Close




Save





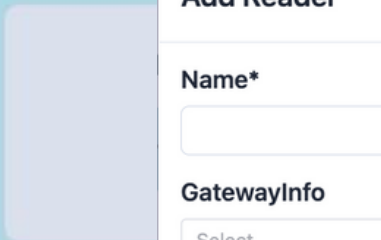
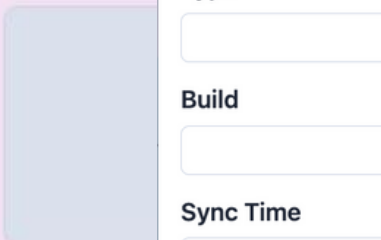


BSI-Guard Web Interface

Reader Management

Reader Management




Name	GatewayInfo	LoRa Address	Type	Mode	Build	Floor	Sync Time	Remark	Setting
51105	網關01-02F(80010001)	00000001		ROOM	01	01	03:05:00		 Edit  Delete  Emergency unlocking
51201	網關01-02F(80010001)	00000002		ROOM	01	02	03:10:00		
51202	網關01-02F(80010001)	00000003		ROOM	01	02	03:15:00		

Add Reader


Name*

GatewayInfo


Select 

LoRa Address*

Type




Mode*



Build

Floor

Sync Time

---:-- 

Remark

Close

Save



BSI-Guard Web Interface

History Log

User History

Elsa
S1010001

Tina
S1010002

Rodger
S1010003

Area	Reader	Type	Data	Time
------	--------	------	------	------

Reader History

01 build
01 floor
51105

01 build
02 floor
51201

01 build
02 floor
51202

Member	Department	Type	Data	Time
--------	------------	------	------	------



BSI-Guard Web Interface

Authorization Management | Restriction Access

Restricted Management

Group List

+

Member

Reader

年 / 月 / 日 ----:--

~

年 / 月 / 日 ----:--

↺

Save

▼

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🔍

🔍

🔍

select all

unselect all

Department

Name

Identity

Card Hex

Card Dec



BSI-Guard Web Interface

Authorization Management | White List

Whitelist Management

Group List

+

Member

Reader

↺

Save

select all

unselect all

Department

Name

Identity

Card Hex

Card Dec



Authorization Management | Hold Open (lock)

Holdopen Management

Group List

+

Reader

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Mon

Tue

Wed

Thu

Fri

Sat

Sun

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Save

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select all

unselect all

GatewayInfo

Name

LoRa Address

Mode

Build

Floor