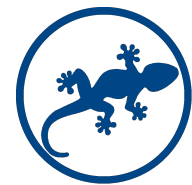# SLM Satellite

Salamander 2.4 I2C Mode-0

Configuration Guide

Jan22

Introduction

This configuration guide applies to the Salamander 2.4 I2C Mode-0 <u>ONLY</u>.
For any other version please use the appropriate guide as several configuration options are different.
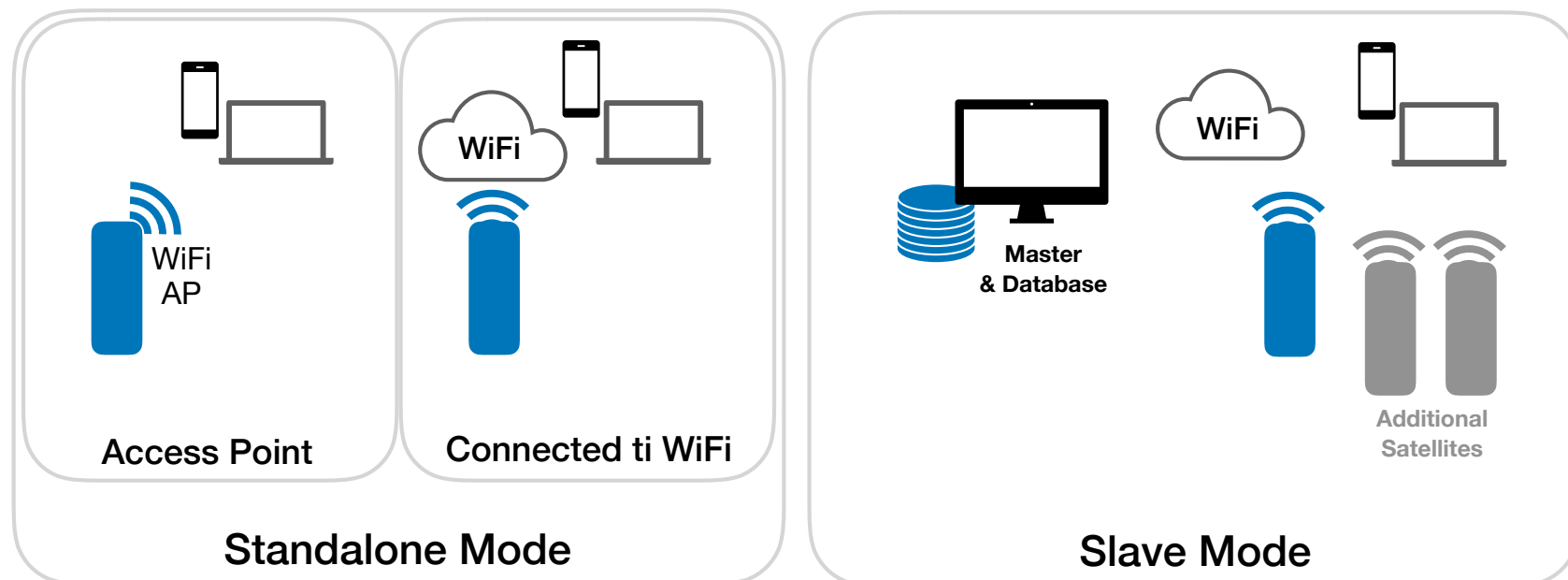
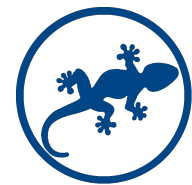The Salamander 2.4 I2C Mode-0 has 2 operation modes: Standalone and Slave.

In Standalone Mode, the unit has no interaction with other units and is only accessible via web for configuration, command or readings of sensors. In this mode, the access control features are available with local recording of cards and permissions. A limited log of card readings and events is also available.
It is highly recommended to connect the unit to a wifi network.
If a wifi network is not available, the unit will automatically start the wifi access point feature, creating it's own wifi network named S-AP_xxxxxxx.

In Slave mode, the unit has to be connected to a Master controller, using a wifi network. The access control features rely on the configuration of the Master and all events are recorded in the Master database. The Master controller provides several extended features like advanced date/time permission settings for the access control, recording of logs for longer and graphic features.

WiFi AP

Access Point

WiFi

Connected ti WiFi

Standalone Mode

Master & Database

WiFi

Additional Satellites

Slave Mode

Configuration

Connect for the first time

When powered for the first time, the Salamander Satellite has no wifi configuration and starts a wifi Access Point (AP).

1. Connect the USB power cord and wait for 1 minute.

2. Connect to the WiFi network with SSID = S-AP_xxxxxxxxx (the xxxxxxxxx may be ant combination of numbers). Make sure the DHCP is on. The password is "Admin001"

3. Open your browser and type to "192.168.4.1". This is the IP address of the Satellite when working as AP. You will get the home screen of the Satellite.

IP configuration when working as AP

Working as Access Point Standalone = Not connected to a Master

Salamander
Satellite

| Home | Command | Authorized Cards | Setup | Settings | Register | Logs | Transfer Cards |

| Change Password | Reboot | Update | Logout | Factory Reset |

Network Information

IP Address: 192.168.4.1
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.4.254
MAC Address: C4:5B:BE:62:BA:1D

WiFi Network

WiFi Connection: Working as Access Point
                     Standalone

Messaging Status: Inactive - (State: -1)
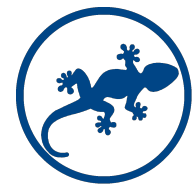
Digital Inputs

Switch 1: ON
Switch 2: ON

Access Control System

Reader 1 : Not Connected
Lock-0 : OFF
Lock-1 : OFF
Relay-2 : OFF
Relay-3 : OFF

Configuration

Login

To change the configuration of the Satellite a login is required.

1. Click on Setup. The login screen will show-up.

2. Use Admin / Admin001 to start the session

If you change the password make sure you remember it. Resetting a password requires factory support.

Configuration - Network
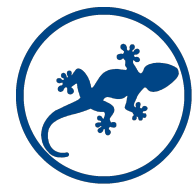
Network (if working as standalone with no connection to a wifi network, skip this step)

To connect to an existing WiFi network,

1. Go to Setup, Select the wifi network and provide the password.

2. Next step provide a static IP Address, Subnet Mask and Default Gateway for the Satellite.

3. If working as Slave Provide the Master Controller IP Address. If not (as Standalone) leave this field empty.

4. Click on Reboot. The Satellite will restart with the new network settings. Change your computer settings and access the Satellite with the new IP.
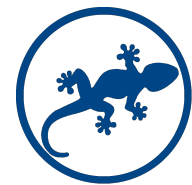
Configuration - Settings

Some basic configuration settings are configured here.

Salamander
Satellite

| Home | Command | Authorized Cards | Setup | Settings | Register | Logs | Transfer Cards |

| Change Password | Reboot | Update | Logout | **Factory Reset** |

Settings

Satellite Name: `Sat Test3`

Activate relay at: `HIGH ▾`

> Our relay boards work acting the relay with an high signal.
> If using 3rd party relays this may be different.

Output 1: ☑ Lock
Output 2: ☑ Lock

> The satellite has 4 Outputs. The Outputs 1 and 2 can be configured as Locks and be part of the access control system being activated when an authorised card is used or an open lock command is received.

Synch Time: `50000` seconds

> Only used when in Slave mode to synchronise with the Master

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Alarm Mode: `0`   ⬅

Save

> There are 3 modes available.
> **Mode 0**: The satellite does not process any information from the sensors. If in Slave configuration, sensor readings are sent to the Master.
> **Mode 1**: When sensing movement the satellite starts relay 3 and 4 in sequence turning on a light or sound alarm.
> **Mode 2**: Same as Mode 1 but only starts relays 3 and 4 if the input 1 if on
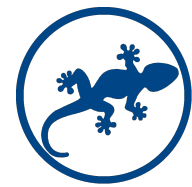
Configuration - Register

Register (if working as standalone skip this step)

The Satellite automatically discovers any sensors, card readers and relays connected to it. If working as Slave, relays and data from the sensors have to be registered with the Master Controller.

In the Register page, click on Register button and wait for the confirmation message on the screen.

Go back to the Home screen.
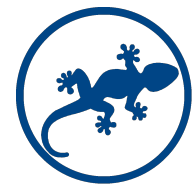
Configuration - Check Settings

Reading the Home screen

Check if the network settings are correct.

Check the connectivity and registration with the Master. If properly connected, the Satellite will have a Controller ID. If communicating with the Master, the Messaging Status will show Active.

Salamander
Satellite

| Home | Command | Authorized Cards | Setup | Settings | Register | Logs | Transfer Cards |

| Change Password | Reboot | Update | Logout | Factory Reset |

Network Information

IP Address:	192.168.1.61
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.1.254
MAC Address:	C4:5B:BE:62:BA:1D

WiFi Network

| WiFi Connection: | Vodafone-DE51D3 (64%) |
Connected to Master:	192.168.1.9
Satellite Controller ID:	20
Messaging Status:	Active - (State 0)

Digital Inputs

Switch 1: ON
Switch 2: ON

Check the status of the inputs (usually switches)

Access Control System

Reader 1 : Not Connected
Lock_20-0 : OFF
Lock_20-1 : OFF
Relay_20-2 : OFF
Relay_20-3 : OFF

Check also if the Card Reader is connected and the status of the relays (on / off)
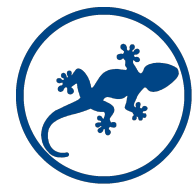
Configuration - Other Features

Command

Provides a way to turn switches **on and off**.
If switches are configured as Locks, it turns the door lock relay **on** for approximately 5 seconds.

Authorised Cards

Lists authorised cards.
When in Standalone configuration, cards recently detected by the card reader are displayed here and you can manage which should be authorised or not.
In Slave configuration, the list of authorised cards is provided by the Master.

Logs

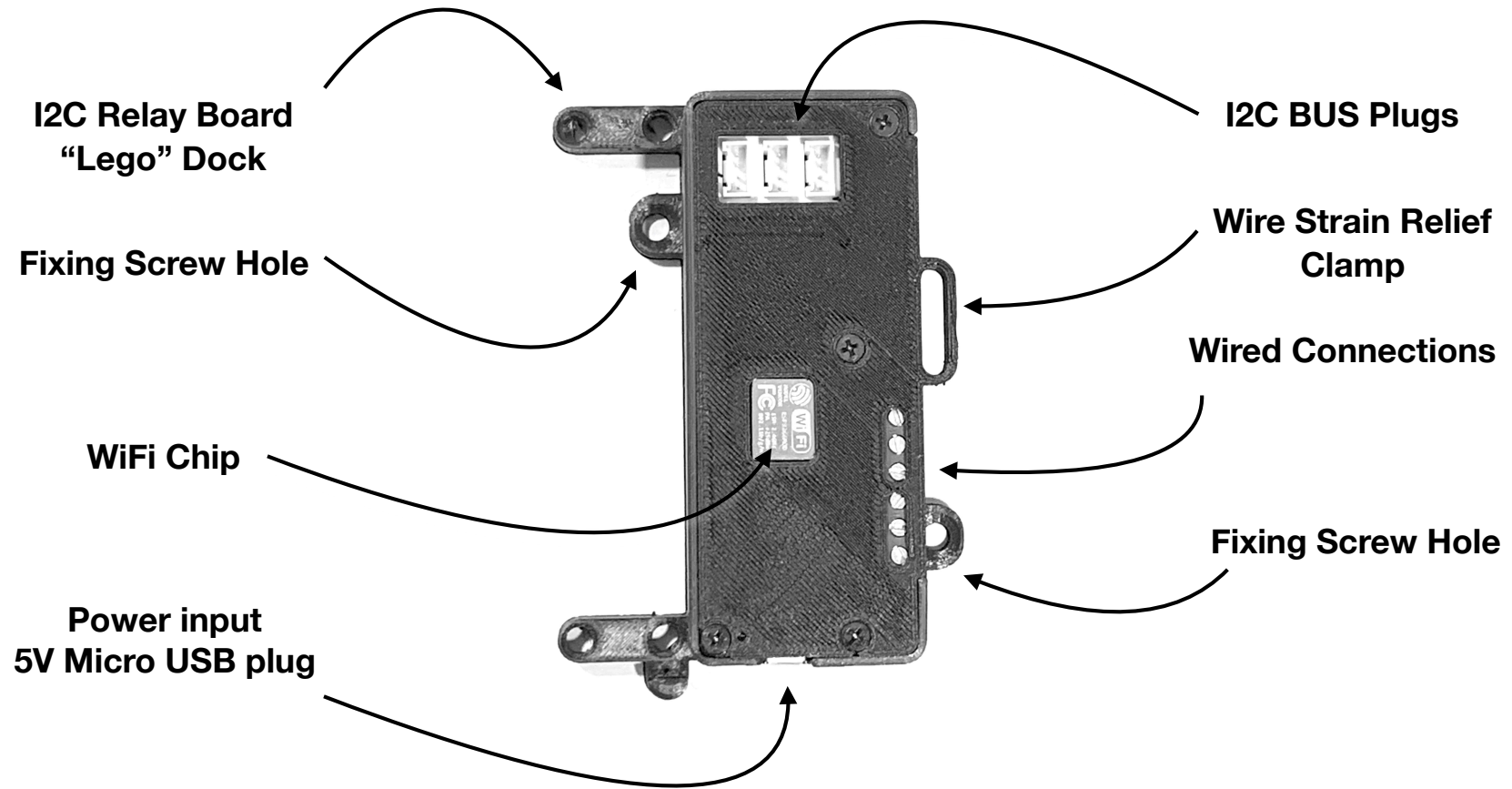Displays the list of recent errors, card readings and events.

Transfer Cards

This feature is only available in Standalone configuration and allows Satellites nearby to share their list of authorised cards. Mostly used when several racks are in the same room and have the same authorised cards for opening the doors.

Update

Used for firmware updates.

Configuration - Wired Connections

I2C Relay Board "Lego" Dock

Fixing Screw Hole

WiFi Chip

Power input
5V Micro USB plug

I2C BUS Plugs

Wire Strain Relief Clamp

Wired Connections

Fixing Screw Hole

Configuration - Wired Connections

Ground OUT

3.3V OUT

Input 1

Input 2

Digital Temperature IN

Sample - Wired Connections
Alarm Mode 1

I2C Relay Board

I2C RFID Card Reader

Movement Sensor PIR

3.3V Power

Ground

(data)

Lock 1

Lock 2

Alarm Output

Pre-Alarm Output

4-RELAY

Micro USB 5V Power IN

Sample - Wired Connections
Alarm Mode 2

I2C Relay Board

I2C RFID Card Reader

Movement Sensor PIR

3.3V Power

Ground

(data)

Alarm On/Off Switch

Lock 1

Lock 2

Alarm Output

Pre-Alarm Output

4-RELAY

Micro USB 5V Power IN