



# SECURE LOCK, KEY & ELECTRONIC SMART LOCKING AND MONITORING SYSTEMS FOR YOUR ELECTRICAL INFRASTRUCTURE

***PRESENTED BY DAVE TURTON***



*The Association of Electricity Distribution Undertakings in  
Namibia, AEDU Namibia*

Edgeline was formed in 2010 with the intention of becoming a market leader in the design, manufacture, and sales of electrical / electronic / mechanical products to the commercial, industrial, municipal, and mining market sectors.

Shortly after the formation of the company, we acquired a manufacturing entity which was established in 1964. This acquisition provided a solid foundation and accelerated our growth to our current position.

We are a proudly South African Level 2 BBBEE company based in Robertsham. Johannesburg

At Edgeline we strive to be the industry leader within our field, deliver extraordinary value to our customers, ensure service excellence, and build long-term and enduring relationships with our clients.



## What we are about:



**Sheet Metal**



**Laser Cutter**



**Powder Coating**



**Final Assembly**



**Sealing**



# Our Core Business is Enclosures & Retrofit Sub Station Doors





















# BEFORE

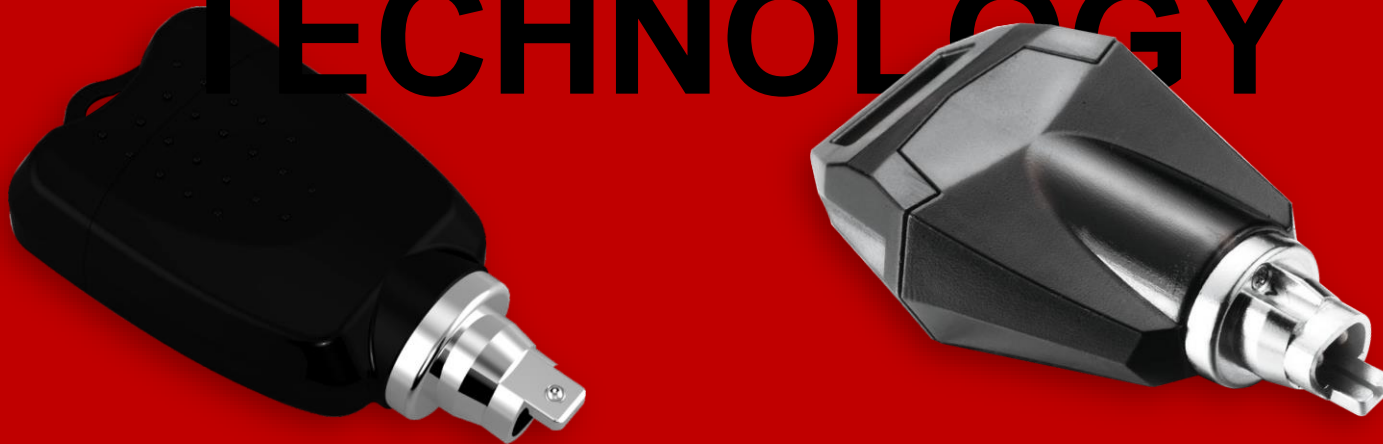


# AFTER





# INTRODUCTION OF ELECTRO/ MECHANICAL TECHNOLOGY



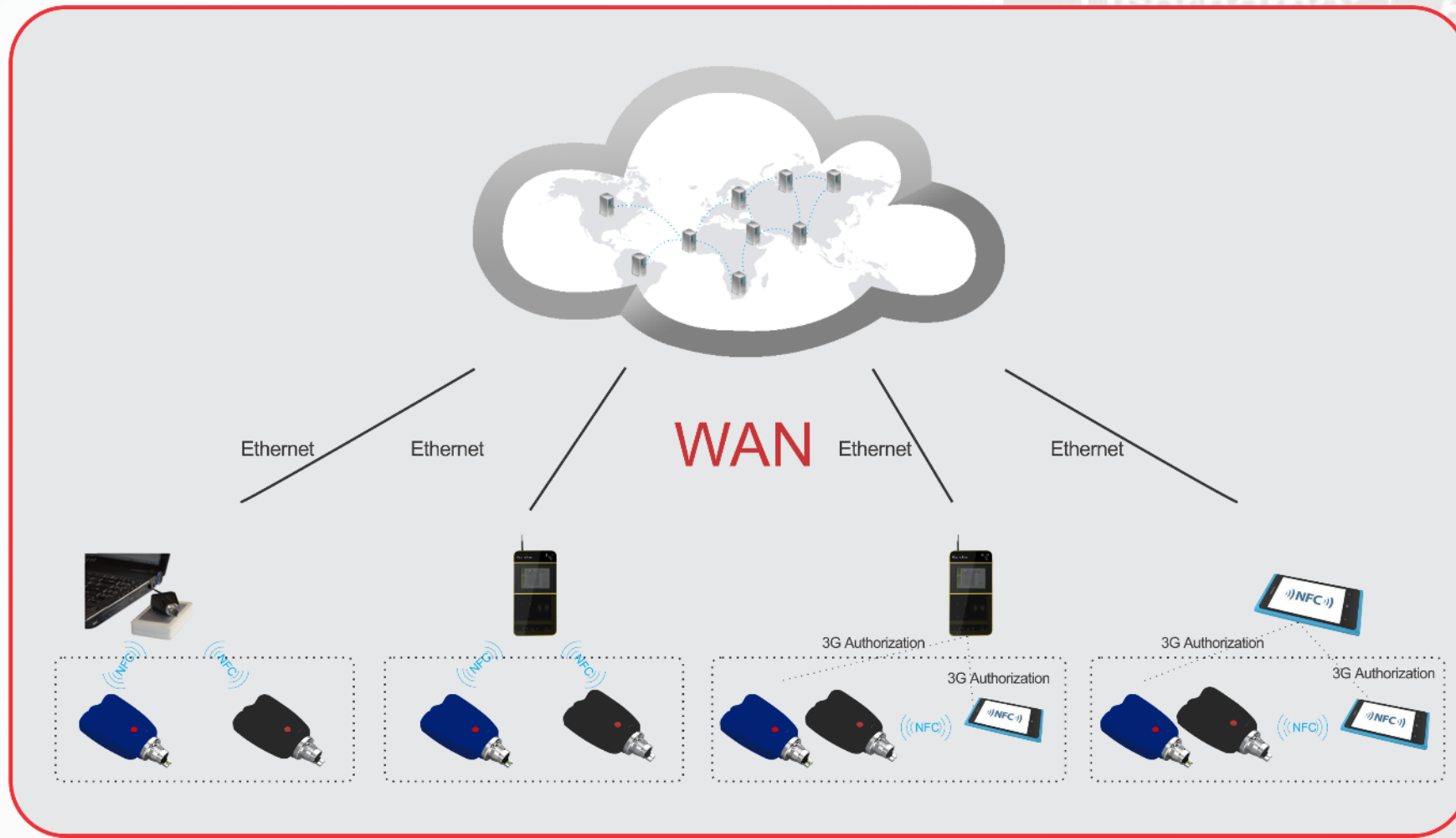


# Why the Smart Lock?

- Affordable
- High security
- Auditable
- Flexible
- Authorisation management
- Unduplicated keys
- Simple Installation
- One key open many doors

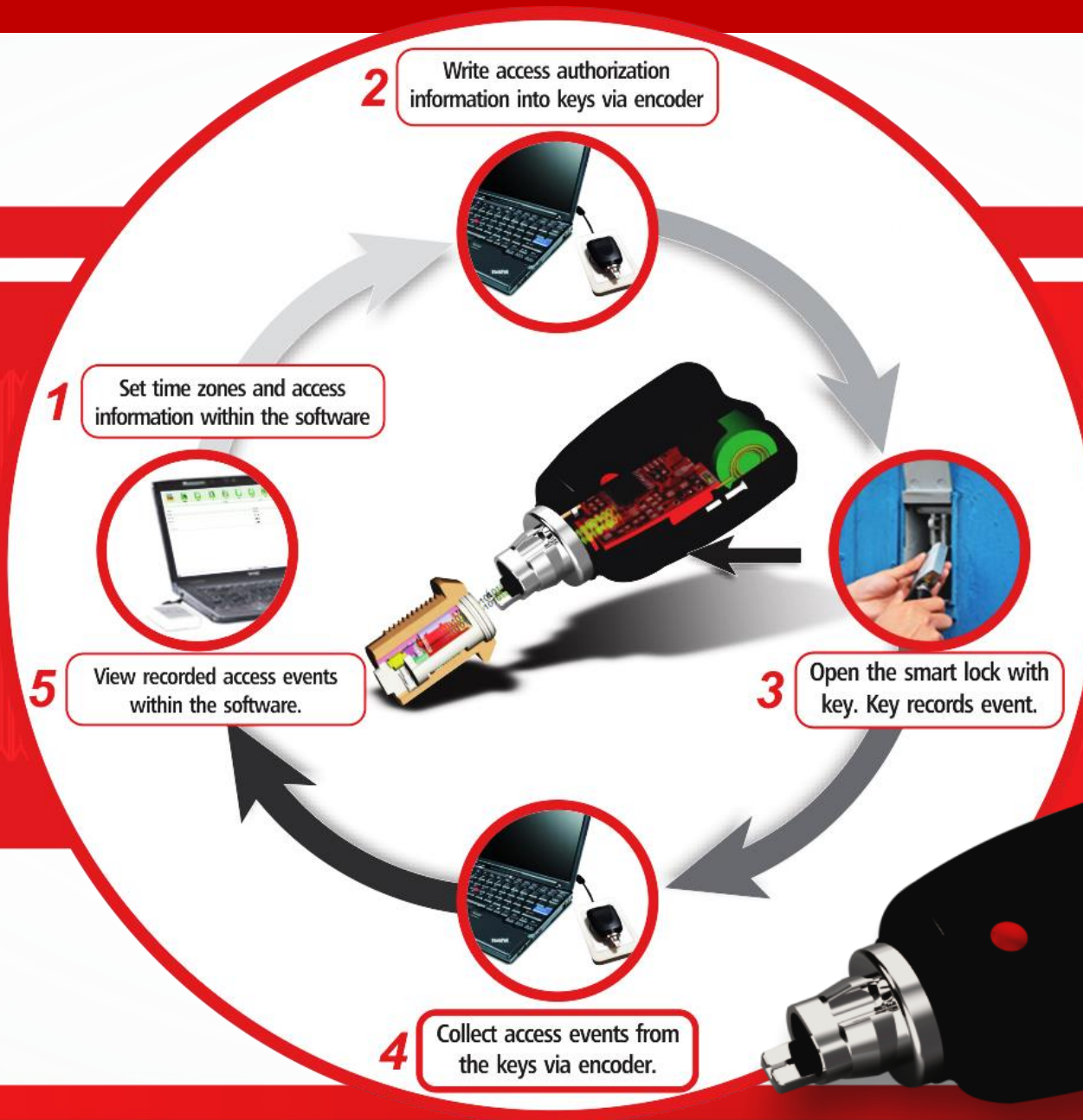


# Smart Lock System – Cloud Based Software





# Overview



## Administrator Key



- System Code Key: Sets the lock system code.
- Setting Key: Sets the lock ID number
- Blacklist Key: Sets the lock to blacklist.
- Audit Key: Collects lock events.
- Engineering Key: Opens all locks during installation period, after that, key authorization will be disabled.





- Stores opening permissions which were authorised via the encoder and software. These include lock authority and time frames
- Calendar and time zone information can be stored within the user key.
- Stores records, such as attempts to open specific locks and the opening times

**User Key**

# Smart Lock System – One Key Opens Different Types Of Locks



**PUK  
LOCK**



**CAM LOCK**



**PADLOCK**



**SWING  
HANDLE**



# The keys Blue Tooth Key



- Accepts opening permissions from the mobile phone application which were authorised via the software. These include lock authority and time frames
- Calendar and time zone information are transferred to the app for record and audit purposes
- Can you be used for single or multiple entry

## Bluetooth Key



# MANAGEMENT AND OPERATION







# ELECTRONIC MONITORING OF YOUR

SE



NGS

# THE Field Service Monitoring System



## Monitoring Functions and Events

- Door position (open/closed)
- Audible alarms for illegal operation / tamper conditions
- Mains Power Failure (all three phases)
- High Temperature
- Low Battery / Battery Voltage
- Vibration Monitor
- GPS tracking available as an option
- **Reporting**
- Daily communication LOG
- Access card configuration reports
- Access reports
- Alarm reports
- Status data
- User login reports



# How It Works - Tags



# How It Works – Phone Blue Tooth





# How It Works – Phone Wi-Fi



# HOW DOES THE SYSTEM WORK MOBILE PHONE VIA WI-FI

83% 17:25

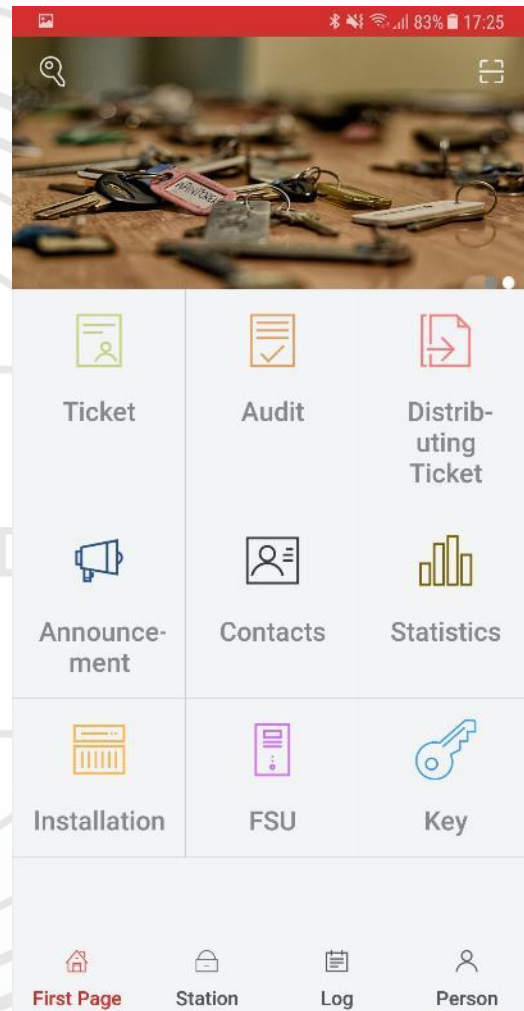
**LOGIN** **SET**

Please Input Account  
1234

Please Input Password  
.....

**LOGIN**

☒ Remember Password



83% 17:26

**< Ticket** **+** **↺**

**All** **All** **All** **Sout...**

**Order Name** **Q**

**eskom** **Have Confirmed**

**Repair**

**dave**

**2018-04-05 15:51:20** **2018-06-30 15:51:20**

83% 17:26

**<** **+** **Q**

**eskom**

**dave**

**Repair**

**Set time**

**2018-04-05 15:51:20** **2018-06-30 15:51:20**

**Edit Lock List**

**Demo Unit**

**7 Port Road, Robertsham, Johannesburg South, South Africa**

**FSU**

**FSU**

**Lock Name: Demo**

**Ope** **Eve** **Guid** **Phot**





# HOW DOES THE SYSTEM WORK LAPTOP VIA WI-FI

KMS Enterprise

Not secure | 197.242.146.50:3001/#/login

**Rayonics**  
Technology

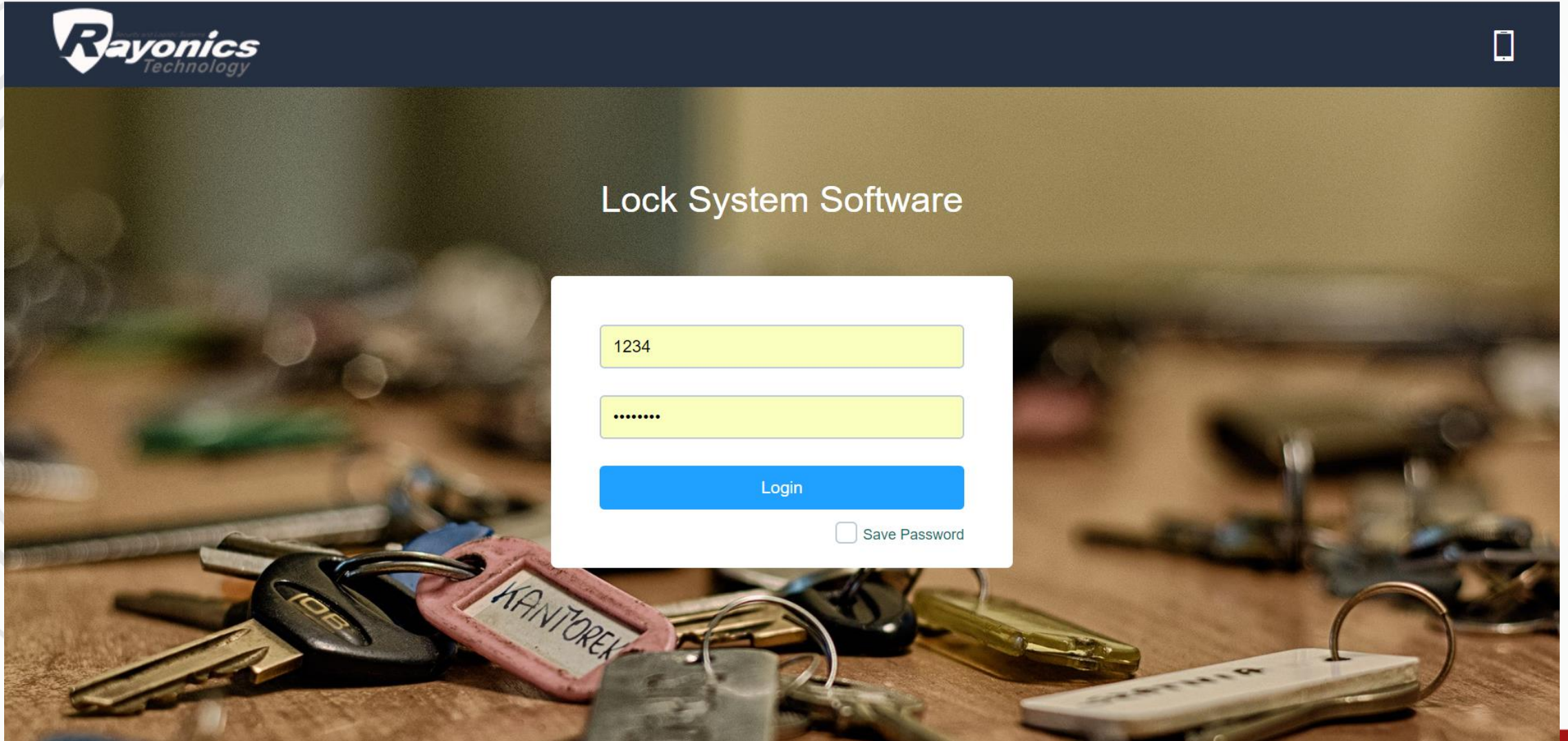
Lock System Software

1234

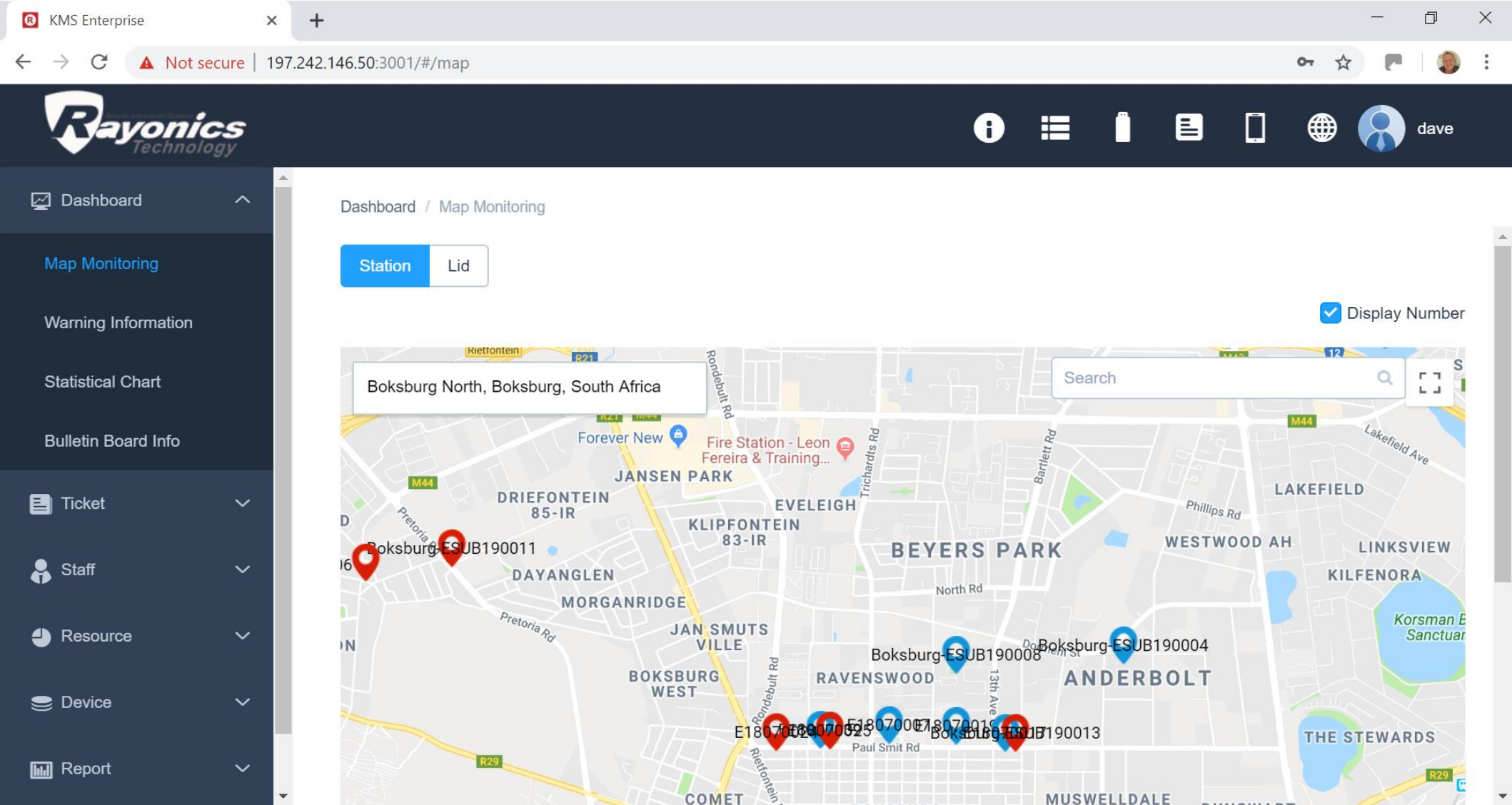
.....

Login

☐ Save Password



# HOW DOES THE SYSTEM WORK MOBILE PHONE VIA WI-FI





# HOW DOES THE SYSTEM WORK REPORT

KMS Enterprise

Not secure | 197.242.146.50:3001/#/map

**Rayonics Technology**

Dashboard / Map Monitoring

Station Lid

☒ Display Number

Boksburg North, Boksburg, South Africa

Search

ESUB190004  
Main Road Boksburg  
**FSU Status: Normal**  
Creation Time: 05-11-2018 08:14:18  
Last Synchro Time: 20-02-2019 14:07:00

Power Supply Mode:	220V	Temperature:	47.5°C
Battery Capacity:	100%	Three Phases Missing Phase Information:	AB Abnormal
Shake:	Normal		

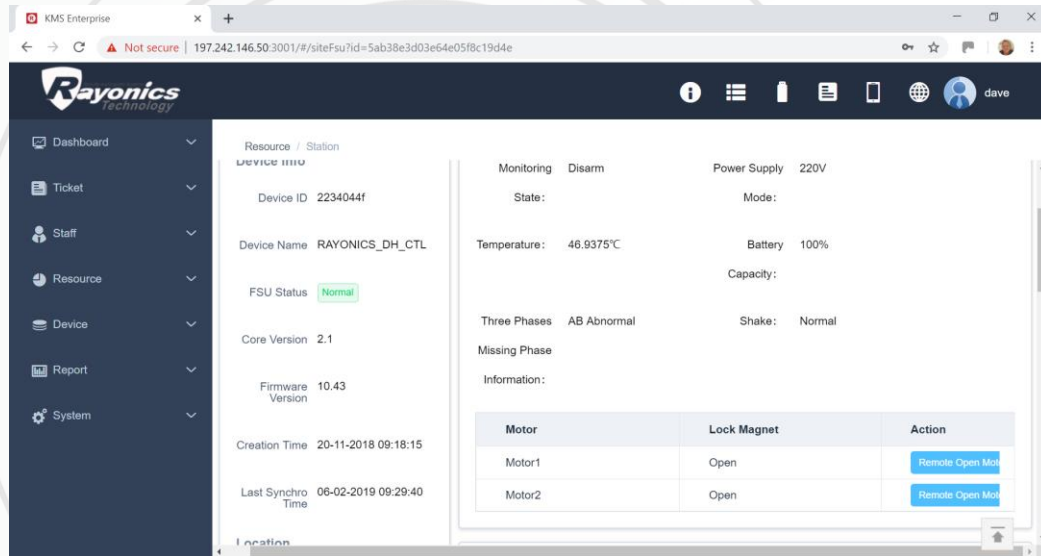
Motor	Lock Magnet
Motor1	Open
Motor2	Open

Details Alarm Statistics





# How It Works – LAPTOP Wi-Fi



# How It Works - Keys





Thank you.

