Electronic BluetoothLE Based Access Control System
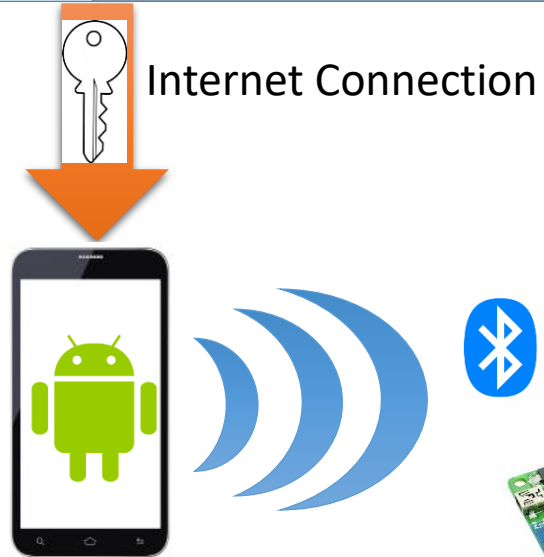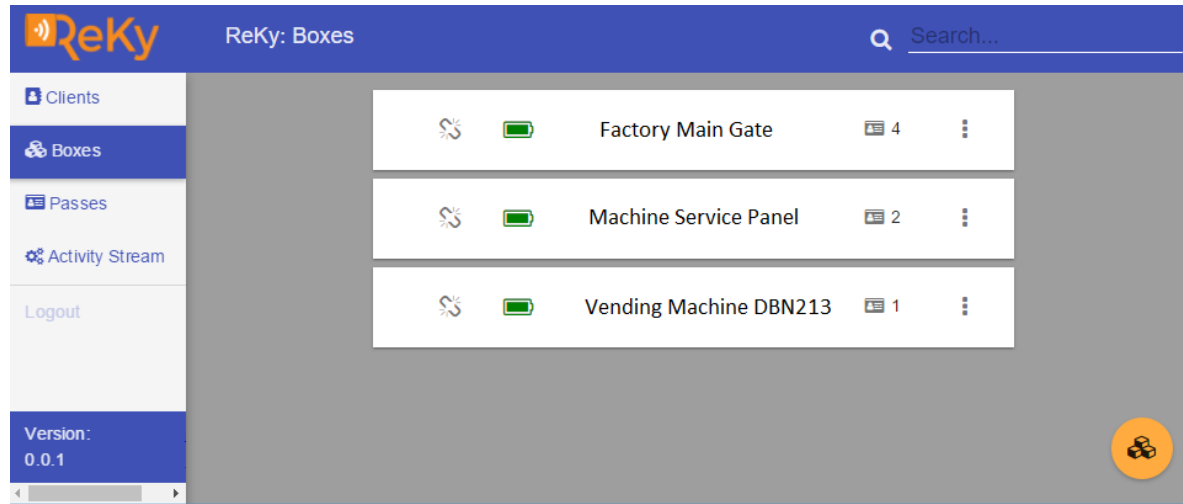
www.myreky.com

Challenges in Security Industry

- CIT Industry (Cash in Transit)
  - Physical key management is problematic
  - Cost of key management consumables (Seals & Bags) is significant

- Reaction Industry (Armed Response)
  - Property owners unwilling to allow security companies unbridled access to premises
  - Limited access to premises degrades service offering
  - Pedestrian strike lock access keypad codes are easily bypassed

- Technical Service Industry (incl Vending Machines)
  - Certain areas/devices need to be opened with a key
  - Obtaining key from client is sometimes not possible unless arranged in advance

General Overview of System

ReKy: Boxes

Clients
Boxes
Passes
Activity Stream
Logout

Version: 0.0.1

Factory Main Gate 4
Machine Service Panel 2
Vending Machine DBN213 1

Internet Connection

Bluetooth®

Differentiating Factors

- Most Bluetooth™ smart locks are standalone devices
  - Focussed on the individual not an organisation

- Most IP based locks operate on a WAN and are as secure as the company network security policy

- Established one time pin (OTP) electronic lock suppliers are costly and only available to large banks and CIT providers.

- Bluetooth Access vs IP/WiFi Access
  - Bluetooth™ requires the operator to have access to the area (+/-10m) that the lock is installed.
  - IP/WiFi locks can be opened from anywhere in the world.

Key Features

- Seamlessly Blends Cloud Based Access Control Systems with Electronic Locks
- ReKy Passes can be Revoked Instantly
- Granular Control
  - One device can operate many locks (Hub-and-Spoke Access)
  - Two devices can operate one lock (Dual Access)
  - ReKy passes can be granted access by time (Window Period Access)
  - ReKy Passes can expire (One Time Use Pass)
- Centralised Control of Passes Through Web Platform
  - Cloud managed keys (Reky Access Pass)
  - Smartphone device operates only as a key
- ReKy Infrastructure Costs are Low
  - Smartphones are used to request access thereby eliminating GSM Modems from outlay
  - The ReKy module is designed to integrate into existing access control hardware
    - Automatic gate motors
    - Strike locks
    - Alarm systems
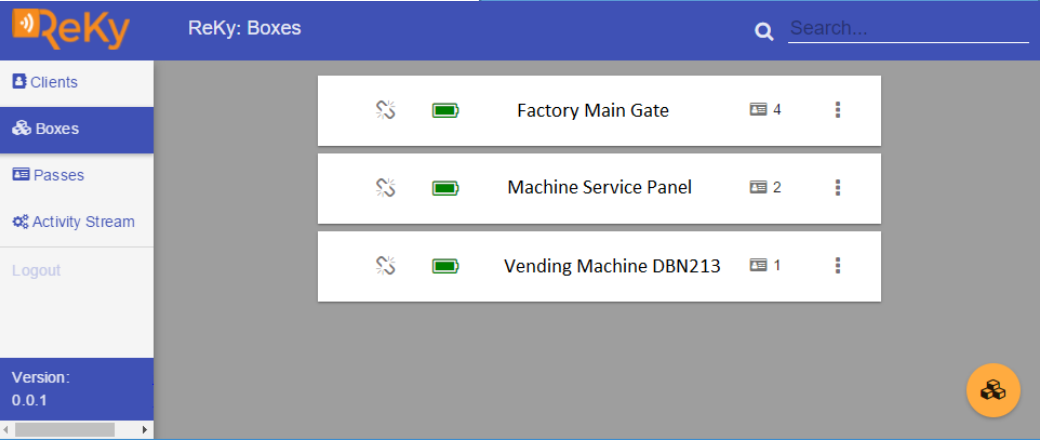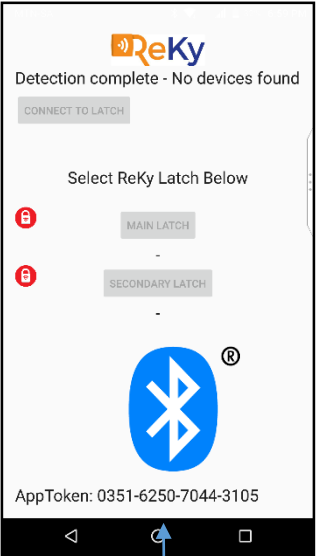- Designed and Developed in South Africa for South African Security Requirements

Operational Overview

Mobile Phone:
Access Key
S.Secure Mode (Online)
or Secure Mode (Offline)

Web Service Comms: SSL SHA-256
Verification Process

Web Portal:
Management Access

ReKy

Detection complete - No devices found

CONNECT TO LATCH

Select ReKy Latch Below

MAIN LATCH
-

SECONDARY LATCH
-

®

AppToken: 0351-6250-7044-3105

ReKy: Boxes   Search...

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Factory Main Gate   4

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App Issues 3AES Access Instruction over Bluetooth LE link at <10m Range

Output
Access Granted: Electronic device is opened

Lock/Access Control Device

Board Security Features

12v-24v DC 1A power input

3AES Security Module

Bluetooth Low Energy Chip

Relay One

Relay Two

TTL Serial Support

Web Portal Features

Activity Stream
Comprehensive Access Audit Trail-
Which devices opened what lock and when

Various Access Conditions of Access Can Be Set

Web Portal Features (Continued)

Edit Box Details

Low Battery Indicator

Site Name

Number of Phones (Passes) Linked to ReKy Unit

Pricing Overview

- ReKy Hosted System
  - Customers/Users access a server hosted and operated by ReKy
  - Monthly or Annual fee per box in operation
  - Android App download is free
  - iPhone support not currently available (in development)
  - Hardware devices purchased from ReKy are preloaded on web portal
  - Suitable for:
    - Armed response companies clients
    - Alarm installers
    - Home automation applications
    - Vending machine operators
    - Guest house visitor access

Thank You

www.myreky.com