Key Management Systems

- ● Pre-Allocated Slot
- ● Free to Dock anywhere

Pre-Allocated Slot option:
- ● Key is made of stainless Steel SS304, with a lock groove, fitted with a steel ring
- ● Thickness of the key varies from 4mm to 8 mm
- ● Length of the key varies from 400 to 700 mm
- ● Key will be allowed to be inserted in the designated key slot after selection in the display
- ● Only 1 key can be returned at a time.
- ● Key Slots are in multiples of 16, 32 and 50
- ● Each key slot would have a key number displayed on top with LED indicators (Red, Green, Blue. Red - Not Authorized, Green - Authorized, Blue - Empty Slot)
- ● Keys can be sanitized after every operation by use of sodium hypochlorite bleach solution or alcohol without affecting the performance

Free to dock option:
- ● Key is made of PVC, with RFID Inlay
- ● Key would have a stainless steel end cap with a steel ring
- ● Thickness of the key varies from 4mm to 8 mm
- ● Length of the key varies from 550 to 700 mm
- ● Key can be inserted into any available free slot
- ● Multiple key can be returned in a single transaction
- ● Key Slots are in multiples of 16, 32, 64
- ● Each key slot would have LED indicators (Red, Green, Blue. Red - Not Authorized, Green - Authorized, Blue - Empty Slot)
- ● Keys can be sanitized after every operation by use of sodium hypochlorite bleach solution or alcohol without affecting the performance

Enclosure:

- MS Powder Coated, 1.5mm thickness / Stainless Steel SS304 (Matt finish) 1.5mm thickness
- The front panel Door would have hardened glass for easy visibility, with a metallic frame.
- Interior of the Enclosure would be with black 3mm acrylic, with transparent acrylic around the LED for instant recognition
- Each Key slot would have a Slot number printed above the slot.
- The main panel door would be automatically opened, after identification of the user, and selection of the desired allotted key in the panel.
- On Opening of the door, the selected slots would show GREEN for easy identification.
- The main panel door would have a push to lock function.
- If the door is locked, without the key being removed, the transaction gets canceled / nullified and the process of identification of the user and selection of the desired key has to be restarted

Controller:
- Built in Face Recognition (Optional: Fingerprint and RFID, PIN)
- 7 inch multi touch capacitive display
- Built in TCP/IP and Wi-Fi
- Built in Web application for configuration of the device, editing the cloud endpoints, verifying logs, generic reports based on logs
- Is capable of sending data to 4 cloud endpoints parallelly simultaneously
- Users Supported:
    - Face Templates: 10,000
    - Fingerprint Templates : 2000
    - RFID : 10,000
    - PIN: 10,000
- Identification Time:
    - Face Recognition: 800 ms
    - Fingerprint : 1.2 Second
    - RFID : 300 ms
    - Pin: 200 ms
- Offline Logs: 500,000
- Duration of Key usage : Can be dependent on the key type, or the user type or combination of both.
- User Identification credential transfer between controllers:
    - If within the same network user identification credentials would be automatically updated within various Key Management System Controllers from Solidz.IO
    - For different networks, if internet access is provided, user identification credentials can be copied / transferred as the case may be.
- 1.2 GHz Processor, 1GB RAM, 32GB Memory, built in Linux OS and MySQL DB with firmware on pure python
- Real Time Clock: Extremely Accurate DS3231

Recommended to use Face Recognition for identification authentication due to covid protocols of non-contact operation

Built in Web Application:

- Supporting 10 concurrent sessions, within the same network
- Built in Apache Server, MySQL DB
- Provides multi tenant per client architecture
- Multiple buildings, locations, sites, grouped under a tenant thereby under a client
- Email Alert, SMS alert to user and management (Optional, chargeable)
- Provision for Adhoc allocation of key to registered users for a temporary period in emergency situations
- Activity reports
    - Per key
    - Per user
    - Combination
    - Custom date range selection
    - Graphical representation
    - Downloading of reports in Excel, PDF formats
    - Automatic Daily / Weekly / Fortnightly / Monthly operation report can be sent by email (optional, chargeable)
- Can be further linked with Access Control System for route based access (Optional, API Link would be provided / integrated, chargeable)
- Custom reports can be provided as required (chargeable)

Cloud Application:

- Supporting 100,000 concurrent sessions (scalable upto 1 billion)
- Supports 1 million hits per second (scalable upto 1 billion)
- Built on Google Infrastructure, built for planet scale
- Provides multi tenant per client architecture
- Multiple buildings, locations, sites, grouped under a tenant thereby under a client
- Email Alert, SMS alert to user and management (Optional, chargeable)
- Activity reports
  - Per key
  - Per user
  - Combination
  - Custom date range selection
  - Graphical representation
  - Automatic Daily / Weekly / Fortnightly / Monthly operation report can be sent by email (optional, chargeable)
- Provision allocation for users on the move, from various key management systems at different locations
- Can be further linked with Access Control System for route based access
- Custom reports can be provided as required (chargeable)