

# Wise Cloud

A Smart POS TMS



Wise Cloud is a smart POS TMS to manage Android based POS devices, merchants and its assets. Users can perform application, parameter and Android system remote downloading, and support remote diagnosis, etc. .



## Architecture

- Distributed Architecture
- Loosely Coupled
- Modular, Robust and Scable
- React.js for Better UX
- Device Adaption Service
- Easy to Deploy
- PAAS Computing
- Minium Structure
- Minium Cluster Environment
- Open API to Integrate with External System

## Technology

- Development - Java, Spring, Micro Services, REST Services, Spring Boot, Spring Cloud
- UI – React.js
- Database - MySQL, MongoDB
- Deployment – Kubernetes, Docker

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# Deployment

Docker Based Deployment

Reducing Resource Cost

Ease-of-use and Portability

Scalability and Modularity

## Wise Cloud - Feature



### Multiple Security

Wise Cloud can be accessed safely with low latency all over the world. Multiple security protections are at work to ensure device cloud security. Millions of devices can be long-term connected by Wise cloud, and a hundred thousand messages can be sent simultaneously.



### One-stop Management Services

Wise Cloud also provides one-stop management services, from data collection to application management. Users manage equipment inventory through networks and labels, analyze and manage equipment reporting logs, and export capabilities in form of APIs.

### Application Management

- APP Signature White-list Management
- APP Pushing / Deletion to / from Devices
- APP Configuration: Auto-run, Non-removal, Invisible
- APP Multi-Version Management
- Device APP Running / Installing Status Report

### Application Market

- APP Submission & Review
- Private APP Market
- Public APP Market

### Merchant Management

- Merchant Info Register & Review
- Merchant-Device Binding
- Merchant based TMS Service
- Merchant Payment Channel Configuration

### Remote Diagnosis

- Real-time View & Control the Device Screen Remotely
- Real-time Device Log Collection Remotely

### Device Customization

- POS Boot Animation & Image Customization
- POS Desktop Wallpaper Customization
- POS Desktop Launcher Customization
- POS Desktop Carousel Figure Customization

### OTA Management

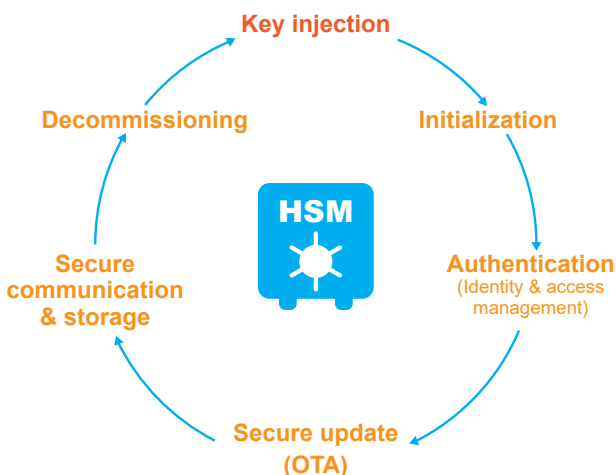
- Android Operating System Upgrade, including: read-only APPs installed on the system partition and time zone rules

### Geo-Fence

- GPS, AGPS, GLONASS, WIFI
- Geo-fence Setting for POS
- Geo-fence Alarm when POS is out of fence
- Location tracking of POS

# Wise Cloud KMS

## Secure Solution For Key Injection



KMS Module is a key management system to provide secure solutions for remote key injection activities. KMS comes with a user friendly interface and safe-system mechanism.

### Wise Cloud KMS Backend

- Secure aggregation of OEM, supplier, 3rd party, and end-user interfaces
- Secure central PKS
- Access control
- Distribution point
- Usage monitoring
- High-security HSM
- High-performance cryptography

### Certified HSMs: the Root of Trust for key injection and managing POS

- Secure key storage
- A secure crypto processing environment
- Built-in comprehensive key management

### Wise Cloud KMS Benefits

- Eliminates the costly manual process of loading multiple keys
- Supports all major key types
- Prints labels with device ID and key serial number for convenient tracking
- Scalable to perform up to bulk injections at once
- Easy-to-use GUI significantly reduces training and administration costs