



Intermind

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CASE STUDY // **SMART LOCK**

IoT Enabled Electromechanical
Lock Assembly

April 2018 | Version 1.0

Technology/ LAMP Stack: Linux – Apache – PHP – MySQL (Open Source), Simcom GSM / GPS modem with custom firmware programming in LUA scripting language, Arduino embedded platform with custom firmware development using C++, HTML5 / JQuery, Google Maps API, Fully Responsive Design

Writers Safegaurd, a leading cash management and ATM maintenance company in India was facing a major challenge in securing the cash vaults which carried substantial amounts of currency to be loaded into ATMs across cities. Post demonetization there was a high risk period, where armoured vehicles could get looted and in even worst scenarios could even be cheated by one's own staff.

To mitigate this problem the company thought of introducing heavy duty safes with smart lock to carry the cash to be loaded into ATM's. Intermind designed a smart lock solution which comprised of a GSM/GPS modem with an electromechanical lock assembly.



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The lock was battery operated and could only be unlocked at pre-set GPS coordinates, and that too after clearing an OTP authentication that was sent over to the designated loading manager's registered mobile number. All the unlock request were logged on into a database on our server with the details of the requesting manager.

We also developed a dashboard for the operations team to plot the course of the drop points over Google Maps and allocate the loading managers. They could trace and manage the whole operations from the intuitive dashboard.

The whole solution proved to be very useful to the company not only by providing the needed security, but it also brought in operational efficiency and faster delivery as now the loading managers were racing against pre decided delivery time and the operations team could locate and reroute transit routes based on traffic conditions and even prioritize drop points.



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Features

01. Smart Lock with GPS and OTP authentication
02. GPS Tracking and route identification
03. Drop point loading status and tracking delays in delivery
04. Loading status notification
05. Route deviation notification
06. Unauthorised access notification
07. It can be interfaced with RFID cards and hence can also be used for access control

Application Uses

- ATM locks
- Safe locks
- Remotely managing co-working spaces
- Hotel/guest house room access management
- Short term lodging marketplaces
- Corporate conference room management

Intermind is India's first truly 360° Digital Agency. Our services include Internet of Things, Virtual & Augmented Reality (Mixed Reality), Wearable Technology, Web & Mobile Applications & a Digital Marketing Suite consisting of Search, Email, Social & Content Marketing.

Some of our key clients include NSDL, GVK, Tech Mahindra, Tata Nelito, Commonwealth Handling Equipment Pool, Asian Paints, Anchor Panasonic, Senco & Renuka Sugars.

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