

PARFAIT project



- PARFAIT Personal dAta pRotection FrAMework for IoT project aims to develop a platform for the protection of personal data in the Internet of Things (IoT) environments. This work is achieved as part of the European project ITEA PARFAIT, which is partially funded by FEDER (European Regional Development Fund), BPIFRANCE, and the BFC region (Bourgogne-Franche-Comté).

Project Context

Nowadays, Hotels use frequently the electronic lock which are based on smart card key.



But using smart card key has many drawback:

- ☹ At arriving, guests need to initialize their card key.
- ☹ Initializing smart card key depends on the receptionist disponibility.
- ☹ A high probability to lose the smart card key.
- ☹ Vulnerable to a hack.

How to ensure a secure and safe guest experience ?

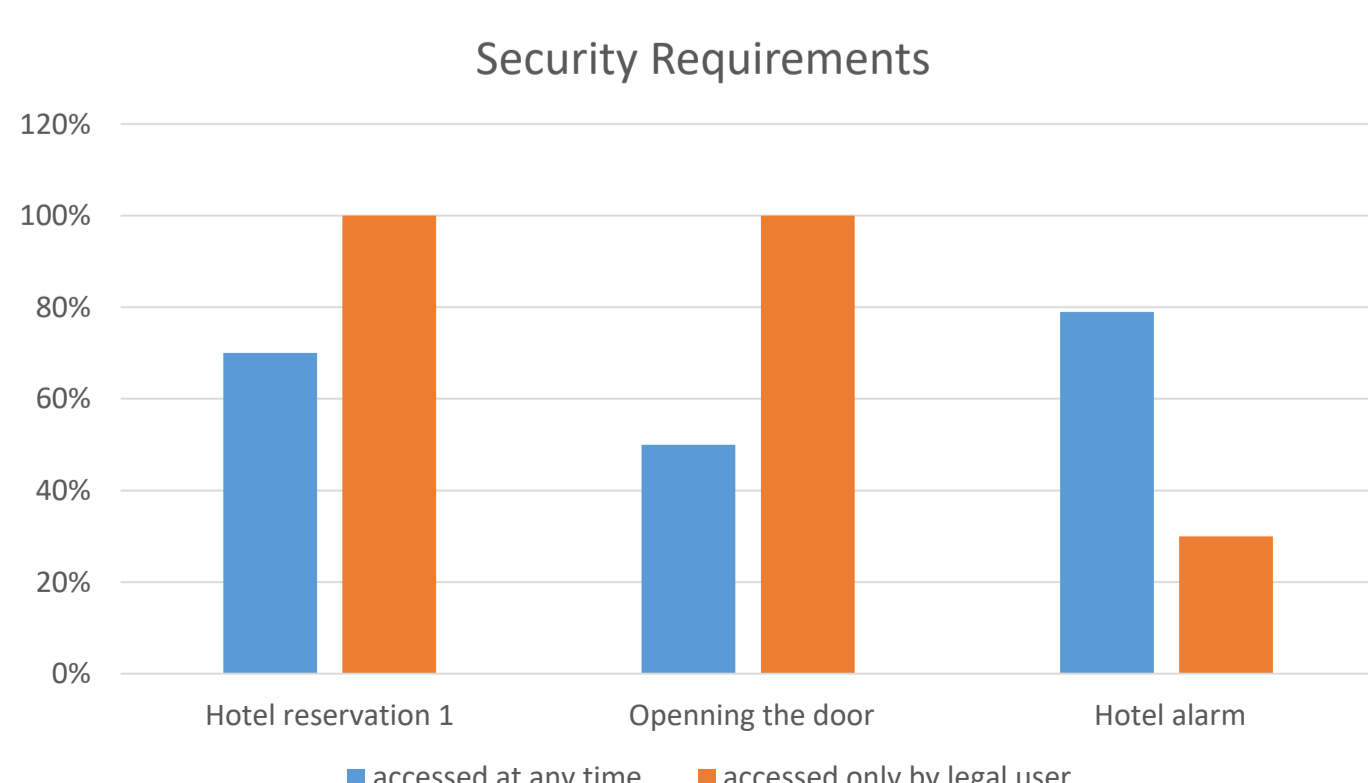
Smart Hotel System

Smart hotel system is constituted of :

- Reservation system which generate tokens of identification.
- Pi-Bank which is responsible of distributing Token of identification to the client and the lock.



Security requirements



[1] : Xin Huang, Paul Craig, Hangyu Lin, and Zheng Yan. Seciot: a security framework for the internet of things. Security & Communication Networks, 2015.

Conclusion

- Smart hotel aims to replace the registration to a hotel and opening doors with a press of a button on your smartphone.
- It relies on secure data exchange through a robust & lightweight authentication between the communicating entities.

Funded by: