

CAR eWALLET

TRANSACTION PLATFORM FOR MOBILITY SERVICES



IOT-LAB

RESEARCH AND DEVELOPMENT ZF GROUP



WHY CAR EWALLET?

Electric cars, autonomous driving, car sharing and connected services are mega trends of future mobility. In a world of increasingly driverless cars seamless, secure and autonomous transactions, i.e. payments, will be a necessity for future business. Only if a car can pay for services autonomously, it is autonomous.

The Car eWallet platform developed by ZF in cooperation with UBS enables your company to take the leap into the future of mobility.

With the increasing individualization of mobility, the Car eWallet will become an essential service enabler for autonomous cars and fleets. - Alexander Graf, Head of IoT Lab at ZF

EXAMPLE USE CASES

Charging on the go

Cars can pay for charging their electric batteries autonomously and directly without the need for human interaction. The capability to process micro-payments on the go also enables innovative forms of energy supply including inductive charging while waiting at a red light. This turns 'charge on the go' into an attractive business case for power suppliers.



Car sharing

The digital eWallet allows to accept payments just like a real wallet. It is also possible to authorize vehicle access for third parties. Instead of standing uselessly in a parking lot, the Car eWallet can make cars available for use to car-sharing portals and collect fees from the temporary users.



In-car delivery

This technology can also support various other applications: For example, the Car eWallet user can enable the trunk of his or her parked car to open if a specific barcode ID is scanned, like on a package. It will allow packages to be delivered directly to a vehicle and placed in the trunk, while still protecting the vehicle from unauthorized access.



BLOCKCHAIN ENABLED TRANSACTIONS

The Car eWallet is based on the so-called Blockchain technology. It allows different business transactions to be performed almost in real-time without a central instance or trusted third party.

Instead, a cryptographically secure record of all transactions on the basis of smart contracts is stored as a chain of data blocks on many computers and balanced out by a corresponding list generated by all participants.

Because the system distributes ledgers in a decentralized way to be authorized by consensus of the majority of user accounts, the system is considered very secure - once recorded, the data in a block cannot be altered retroactively.

A NETWORK OF STRONG PARTNERS

The Car eWallet is backed by a strong partnership of ZF and UBS with complementing strength and expertise. Together they have founded a consortium that is able to provide every part of the value chain, on both technological and business levels. Known for its innovative and stable automotive expertise, ZF is capable to provide the required blockchain technology, whereas UBS adds valuable knowledge in the banking and mobility sector.

The implementation of a mobile wallet therefore will be of highest reliability and stability, providing a strong foundation for a prosperous future.

BE PART OF THE FUTURE OF MOBILITY!



Impressions from Car eWallet at 2017 Consumer Electronic Show

Presented at the CES 2017 in Las Vegas the Car eWallet raised a lot of attention. More than 50 renowned players of the mobility industry showed interest in exploring opportunities of a mobility service platform.

Take the chance to shape the platform with your service. Make Car eWallet your enabler of the future!

ZF Friedrichshafen AG

88038 Friedrichshafen
Germany
Phone +49 7541 77-0
Fax +49 7541 77-908000
www.zf.com

Dr. Alexander Graf

Head of IoT-Lab

Julian Fieres

Business Development, Division E

Email IoT.Lab@zf.com

<http://car-wallet.zf.com>

