



To whom it may concern,

March 28th 2019
ZMP Inc.
AIDELI Inc.

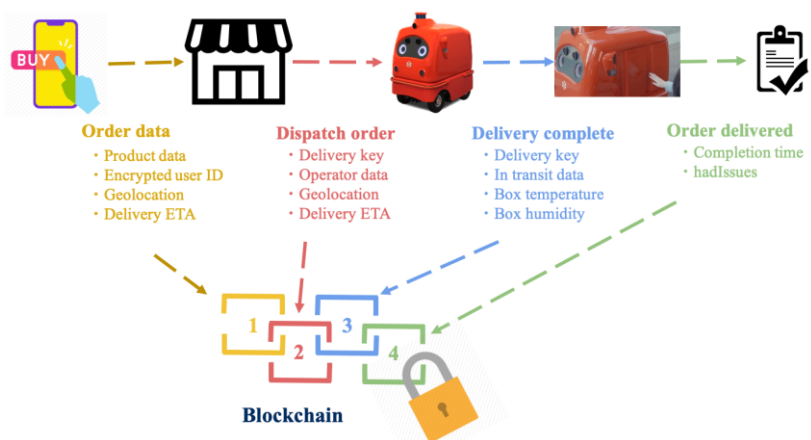
Delivery robot CarriRo[®] Deli service empowered by Blockchain technology, to provide high traceability

Following a closed beta of its Carriro[®] Deli delivery robot service with students from the Keio University this January, ZMP held a demonstration during a media day on March 13th of a new version of its delivery service, which featured newly developed blockchain capabilities.

During the demonstration of the delivery robot, different operations (such as ry, ZMP held a demonstration during a media day on March 13th during the demonstration of the delivery robot, differ in the blockchain in an encrypted and immutable way, and could be visualized in a dashboard. The immutable nature of the blockchain guarantees that every step of the delivery has been duly processed, and makes possible a very high level of transparency and reliability that would have been very challenging to achieve with standard data management systems. The blockchain capability is being developed by AIDELI, a subsidiary of ZMP that specializes in the development of software solutions to optimize the logistics related to the transportation of people and delivery of goods.

In future iterations of the service, parameters such as temperature in the delivery box, vibrations, and more will also be recorded in the blockchain in order to improve traceability even further.

ZMP is committed to be the first Japanese company to fully operate a robot delivery service and is always looking for partners interested in our full stop delivery solution, from the store to the end user, as well as our blockchain solution. If you want to know more: <https://www.zmp.co.jp/products/carriro-delivery/service-partner>



Blockchain based delivery service (image)

The dashboard shows a 'List of orders' table and an 'Order details' view. The 'Order details' view includes a progress bar with four stages: 1. 注文受付 (Order received), 2. 配達準備 (Delivery preparation), 3. 配達中 (Delivery in progress), and 4. 配達完了 (Delivery completed). The progress bar shows that the order has reached the '配達完了' stage. Below the progress bar, there is a message in Japanese: '注文受付 注文の受付が完了しました。配達の準備を行っています。' and '配達完了 配達が完了しました。商品がお客様の元に到着しました。'.

Every step of the process is recorded in the blockchain

Monitoring of the delivery status



【About CarriRo® Deli】

ZMP is developing a delivery robot "CarriRo® Deli" to solve the problem of the last one mile of logistics and to support daily shopping and to create a new lifestyle with robots, by applying autonomous moving technology which has been cultivated through Autonomous Driving technology. It runs automatically at a maximum speed of 6 km/h while recognizing the surrounding environment in 360 degrees with a camera and laser sensor. Remote controlling/monitoring is also possible. The payload is a maximum of 50 kgs and it can correspond to customer needs such as delivery of goods and drinks, etc.



CarriRo® Deli web website

<https://www.zmp.co.jp/products/carriro-delivery>

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ZMP Inc.

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Driven by its mission "Robot of Everything: to create and empower new lifestyles by enabling free movement of people and goods", ZMP focuses mainly on: (1) ADAS (Advanced Driver-Assistance Systems), Autonomous Driving Development Platform "RoboCar®" series, and Sensor systems (2) Highly specialized engineering services applied to autonomous driving solutions and "RoboTest" on-road testing service, for automotive, commercial vehicles, construction machinery, agricultural machinery, logistics equipment, outdoor machinery, etc. (3) Development and sales of the logistic support robot "CarriRo®"

ZMP is pioneering self-driving car services with Auto Taxi®, which aims at being fully operational by 2020, and is conducting various technology and service trials on public roads. ZMP is also aiming at being the first Japanese company to provide a sidewalk delivery robot, "CarriRo® Deli", and is actively looking for partners to realize mass production. ZMP will continue to push the limits of possible, by developing products and services that move people, in every sense of the term.

AIDELI Inc.

<https://www.aideli.jp/>

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Aideli is a company dedicated to the optimization and simplification of the logistics involved in the delivery of goods and transportation of people. From self driving taxis to delivery robots, we aim a disrupting the industry of logistics with cutting edge technologies such as AI and blockchain.