

## AOS and IBM developing logistics and transportation solution built on IBM Blockchain and Watson IoT

- Solution to leverage Internet of Things services on IBM Cloud for trucks and loads mapping
- Blockchain to manage transactions between carriers, local authorities and clients

BOGOTA, Colombia, June 21, 2017 /[PRNewswire](#)/ -- IBM (NYSE: [IBM](#)) and AOS, - a Colombian company specializing in providing business solutions- today announced they are collaborating to create a solution to enhance efficiency in the logistics and transport industry throughout the country, built on IBM Blockchain and Watson IoT on the IBM Cloud.

Blockchain works as an immutable ledger that records transactions between members of a business network. In the supply chain, this creates visibility for all permissioned members into the exchange of information throughout the transport cycle, enabling greater transparency in the registration of data and trades.

Traditionally, supply chain transactions are completed manually, creating delays and a higher risk for recording error, which can cause differences between what was recorded and what was actually loaded. By digitizing this process using blockchain and IoT, the relevant information is captured directly from the sensors placed on the trucks, and entered onto the blockchain, creating a single, shared repository that all authorized participants can access and which can only be altered with consensus from all parties.

With the solution, once the truck leaves the distribution point, an automatic message is sent to the customer, informing them about the load, weight and estimated time of arrival. If part of the delivery is returned, the invoicing can be automated depending on the actual load delivered. Also, through the sensors located on the trucks, an information repository is generated using IoT and blockchain, which tracks all the exchanges, stops and transactions made by each truck and its respective load, from the distribution point to the final customer. This heightened level of transparency can help increase accountability between shippers and their customers, promoting the flow of business.

For AOS, this project is of great relevance for the entire logistics industry in the country. "The proper handling and use of information on transactions and exchanges related to cargoes is key to the logistics and transportation industry. Therefore, our main objective with this solution is to provide transparency and security throughout the transport cycle", said Ricardo Buitrago, Director of Innovation at AOS. "Today, the solution is available as a functional prototype on the IBM Cloud, for companies in the logistics, supply chain and transportation sectors throughout Colombia," added Buitrago.

The new solution also integrates Watson IoT, designed to monitor what is happening with the trucks. For example, the solution captures the input and output weight to define available capacity as well as in which silo and which person will carry the load; and that data is also correlated to external information, such as weather, humidity, temperature and driver's data, to estimate delivery time to customers.

"One of the biggest challenges in the logistics and transportation industry is the protection of its assets and cargoes, as the correct monitoring and tracking of all transactions involving such charges. That is why the implementation of this type of blockchain and IoT solution in the cloud is an opportunity to access critical data on-demand and make more informed decisions for the benefit of business," said Jorge Vergara, IBM Colombia CTO.

In the future, the solution is expected to include new functionality such as an electronic seal mechanism for land cargoes control and monitoring.

#### *About AOS SaS*

AOS has as a mission to provide consulting and implementation services to business solutions supported by IT. With the most highly qualified team in the industry and the best methodologies to ensure the success of projects and technological achievement. We have a large number of consultants in our organization, specialists in architecture and implementation of technology solutions with over 60 certifications in different specialties.

#### *About IBM*

IBM is the leader in open-source blockchain solutions built for the enterprise. As an early member of Hyperledger, an open source collaborative effort created to advance cross-industry blockchain technologies, IBM is dedicated to supporting the development of openly-governed blockchains. IBM has worked with more than 400 clients across financial services, supply chains, IoT, risk management, digital rights management and healthcare to implement blockchain applications. For more information about IBM Blockchain, visit [www.ibm.com/blockchain](http://www.ibm.com/blockchain).

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