

Smart Container using Blockchain

Overview

During transportation, preserving the integrity of critical supplies such as medicines and perishables, which require shipping under rigid environmental parameters, is paramount. The ability to monitor cargo internal and external conditions in real time, detect anomalies, and generate event driven notifications, acts as a real game changer.

Solution details

Capgemini's "Smart Container and Logistics" solution provides this ability using IBM Watson Platform, IBM Blockchain technology and Capgemini pre-configurations. The solution aggregates and analyzes data from the container (e.g. temperature, pressure, vibration, humidity, luminosity, etc.) using a rules engine. Post facto analytics provides the Logistics/Operations Manager with the ability to validate exceptions by analyzing historical

data. It also provides the added advantages of email notifications and reporting on mobility devices.

Capgemini's solution also integrates Blockchain providing the ability to define and execute smart contracts in secure and trustworthy environments along the entire logistics chain involving all the relevant stakeholders (manufacturer, 3PL, customer etc.). It also has interfaces with enterprise systems to manage sales order fulfillment, payment payables and receivables.

Business Benefits

- Reduced rejects due to improper storage conditions by adhering to prescribed standards for storage & transportation
- Improved supply chain visibility and transparency leads to better operational efficiencies.
- Reduced need for resources around back order management
- Focus on core business and innovation vs. logistical management





About Capgemini

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