STUDY

Blockchain for the Cold Chain

A viable solution for sensor data sharing?

GOAL

Explore blockchain technology for capturing and disseminating cold chain sensor data.

OVERVIEW

We gained valuable insight and useful intelligence from the simulated ReferenceModels[1] created in our recent "DSCSA & Blockchain" Study. By leveraging some of these findings, we seek to examine the possible benefits of applying blockchain technology to the cold chain.

Although most of our models are based on solid dose medications, they can be adjusted for this Study to examine cold chain processes, data and other scenarios.

- Identify and define a common set of cold chain data criteria
- Demonstrate the movement, use and trading partner reaction to temperature sensor and other measures (i.e. humidity, vibration, light, etc.)
- Explore various sensor inputs and how they can be incorporated (i.e. data loggers, online sensors, binary indicators, etc.)
- Test different process flows, data sets and responses/alerts
- Investigate new connectivity opportunities that may aid in the availability of sensor data (i.e. cell phones, Bluetooth)
- Produce cold chain sensor data capture and sharing models

DELIVERABLES

ReferenceModels, White Paper and education materials.
(To to be published on the Center's website and exhibited at relevant industry conferences and seminars.

Launch: **January 2018**

[1]*A ReferenceModel™ is simulation that represents a real-world or projected scenario that can be used to visually demonstrate a finding, point of view or just to educate on a topic.*

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