

Study on Application of Internet of Things
(IOT) in Dangerous Chemicals Supply Chain
in China

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THESIS/DISSERTATION SUBMITTED IN PARTIAL FULFILMENT OF
THE

REQUIREMENT FOR THE DEGREE OF
MASTER IN LOGISTICS MANAGEMENT

in the

Faculty of Business & Information Science

UCSI University
MALAYSIA

December, 2012

ABSTRACT

The purpose of this paper is enhancing the safety status of the entire supply chain on the greatest degree by resolving issues about limited monitoring and inefficient emergency response. At the same time, give out the solution for efficient and effective regulatory works conducted by relevant government departments.

A simple content analysis combined with an open-ended email interview is adopted in this study. Findings showed human factor is the main possibility caused the dangers in supply chain of dangerous chemicals in China. Exactly, Internet of Things technology could overcome the issue of human factor because it emphasized the things to things without any human activities involved. Then, a conceptual design of applying Internet of Things (IOT) on supply chain of dangerous chemicals is given out for meeting the research objectives.

Internet of Things (IOT) has great significance to improve the safety status of dangerous chemicals' supply chain in China. However, application needs the financial support from government because only few of big corporations could afford its huge initial investment. The conceptual application design gave out the initial idea about how to apply the IOT on the supply chain of dangerous

chemicals for improving the safety status and solving the limited communication issue among relevant government supervision departments.

Keywords: Internet of Things; Supply Chain; Dangerous Chemicals; Application.

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