Executive Summary

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The use of RFID technology has recently generated much hype. The key drivers for its growth and development have been the tagging of the physical objects such as people, locations, and things, having single chip radios so that they can interface with the computers.

While the modern technology has been accessible for many decades, the 21st Century has been marked by the start of a whole new era in RFID growth and usage. The determinations of EPCglobal have controlled the RFID application development, generating a global infrastructure which is focusing on the improvement and streamlining the supply chain management in the organizations. Its principal supporters including the big players such as the Wal-Mart in the United States and Metro in Europe normally views RFID as a technology that will enable the sustainability of their market or industry power by incremental innovation. However, it is notable that the scope of the RFID technology goes far beyond this first initiative.

The research paper will majorly examine many core trends in the current phase as far as the history of the RFID technology is concerned. Firstly, the paper will discuss the evolution of principles for the various elements of a RFID system, for instance, the transmission technology which is the RF part together with the identifiers which entails the ID section. Many efforts to standardize the different elements of a RFID system are resulting in interoperable RFID technology and applications.

Similarly, as the devoted RFID will be developing continuously, we will observe more RFID applications deal with the rising ground of short-range radio-based networks of communication such as Bluetooth and WiFi which have thus constantly evolved self-reliant of RFID technology.