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## A case study on impacts of RFID adoption in tree inventory management

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**Abstract:**Radio frequency identification (RFID) is widely used in various fields. Its application in private organizations is common. Typically, in private organizations, the impac... [View more](#)

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##### Abstract:

Radio frequency identification (RFID) is widely used in various fields. Its application in private organizations is common. Typically, in private organizations, the impacts of RFID are quantified using measures like the Return on Investments. However, gaps on RFID's impacts on public organizations still exist. The research attempts to fill this gap. We used a single case study approach at the Forest Research Institute Malaysia (FRIM) with the view that RFID is contemporary to provide insights into its application and integration. In this paper, we discuss our findings on its impacts of the adoption and provide recommendations on integration architecture for further consideration.

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## I. Introduction

RFID is an abbreviation for Radio Frequency Identification. It refers to "a generic term for technologies that use radio waves to automatically identify people or objects. There are several methods of identification, but the most common is to store a serial number that identifies a person or object, and perhaps other information, on a microchip that is attached to an antenna (the chip and the antenna together are called an RFID transponder or an RFID tag). The antenna enables the chip to transmit the identification information to a reader. The reader converts the radio waves reflected back from the RFID tag into digital information that can then be passed on to computers that can make use of it." [1]

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Figures



## References



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