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• 中文摘要	本計劃的重點在於研究結合 RFID 定位辨識系統與 PKI(Public Key Infrastructure)的機制在 RFID 標籤、RFID 標籤與讀取器及讀取器與後端資料庫在資訊的傳輸溝通、擷取與儲存的過程中，提昇 RFID 在資訊傳輸過程的安全性與隱密性的保護。本計劃將以台北醫學大學附設醫院之 LBMS (Location Based Medicare System)及 PKI 自主健康管理系統爲基礎，透過 EPC SAVANT 平台進行資料在不同傳遞階段的隱私保護與不同權限之安全存取之研究，確保資料及系統資源的機密性(confidentiality)、整體性(integrity)、可取用性(availability)、安全管理(security management)及安全政策(security policy)之評估。
• 英文摘要	RFID technologies offers a wireless means for information collection and transfer to track and identify between objects where the information is communicated electronically via radio waves and does not require contact or line-of-sight to transmit stored date between RFID Tags and Readers. PKI is a security architecture that refers to the combination of software, encryption technology and services that enable organizations to protect the security of the information exchange; access and retrieval. In this project, we will integrate the RFID and PKI mechanism to ensure the secure process of information communication among RFID Tag; RFID Tag to Reader and, Reader to database. On the other side, by using the EPC SAVANT platform, this project will apply the existing LBMS (Location Based Medicare System) and The Intelligent Community Healthcare Self-Management System at TMUH as the foundation to study the security and access control in different information communication phases to ensure the confidentiality; integrity; availability; security management and the evaluation of security policy for data transmission inside hospital.