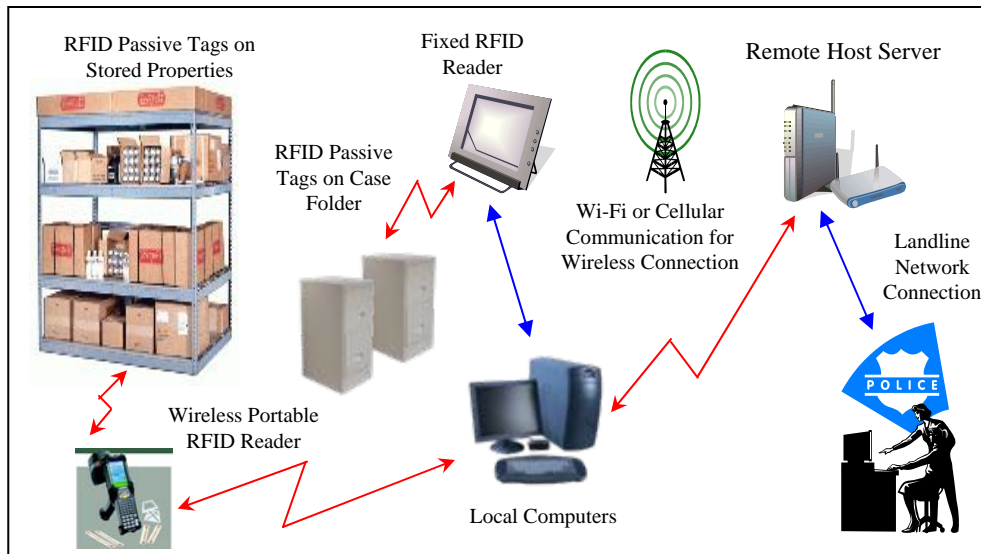


RFID (Radio Frequency Identification) technology has been applied to many fields with the main purpose of locating and tracking objects or people through Ultrahigh Frequency (UHF) bands. The purpose of this project is to research and develop a RFID-based Property and Evidence Management System that can be used by law enforcement officials to tag each piece of property and/or evidence on location and at storage facility. The System will also allow law enforcement officials and court systems to retrieve or return property or evidence items before, during and after trials. RFID tags are components of a RFID-based system that communicates with RFID readers to upload relevant information to a remote host server through a network-based application.

In conjunction with the Department of Public Safety at University of Houston (UH-DPS), the SWTC project team is setting up a mockup-room at the UH-DPS equipped with RFID reader, antennas, storage racks, boxes, and RFID tags, as well as simulated property and evidence (see the pictures at bottom-right). This mockup-room will be used to develop and test a standalone demo system for property and evidence management. It will also be used to develop and test a generic data exchange module for interfacing with information systems at police department of different size.

The Houston Police Department (HPD) is in the process of designing and constructing a new 50,000 sq. ft. property management facility to be completed in two years. To enable RFID and barcode tracking, additional functional requirements need to be identified, tested and evaluated. The software system being developed in this project, together with the mockup-room at the UH-DPS, will be used for this testing and evaluation purpose.



RFID-Based Network System Setup at Property Storage Facility

UH-DPS Mockup-Room

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