

Traceability System using RFID and Legal Issues

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Overview

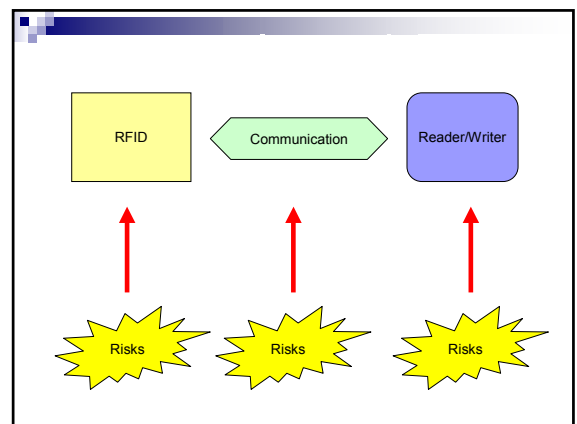
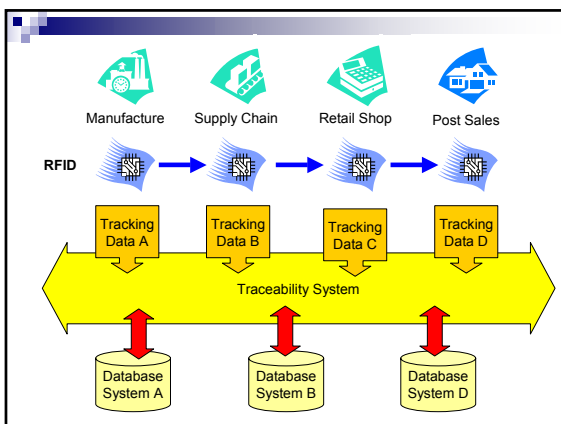
- Introduction
- What is RFID?
- What is Tracking Data and Traceability?
- Mechanism
 - Privacy Issues
 - Trade Secret and Anti-Trust Problems
- Resolutions

What is RFID?

- Emerging Technology
- Small IC Chips
- Electronic Device using Radio Frequency
- Many types
 - Active RFID and Passive RFID
 - RFID with Memory and Non-Memory RFID
- RFID Reader/Writer

What is Traceability and Tracking Data?

- Tracking data means data which
 - may be collected in different events using same ID, and
 - can be controlled by traceability system
- Traceability means a capability of
 - Controlling tracking data, or
 - Collecting tracking data



Mechanisms of Issues

- RFID side
 - Active RFID and Passive RFID
 - RFID with memory and RFID without memory
- Receiver side
 - Checking only Existence or Identification of RFID
 - Matching with any Personal Information or Personal Identification Data

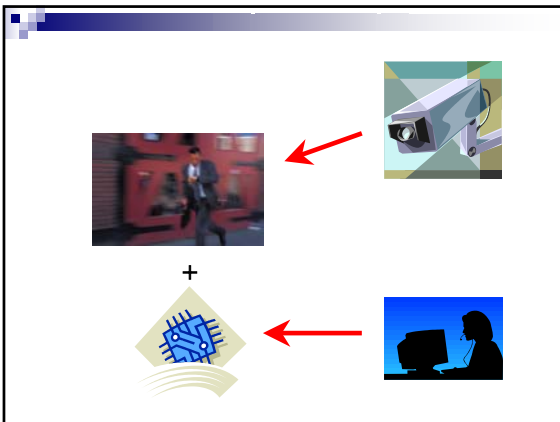
Compliance

■ RFID Tags

- Able to
 - Notify Existence and Purpose
 - Get Consent of collection
 - Cancel or Stop
- Unable to
 - Notify Transferring
 - Notify Changing of Purpose
 - Get Consent of Transferring

■ RFID reader/writer

- Able to
 - Do Nothing



Resolution to address Privacy Issues

- The only way to protect privacy interest is:
 - To establish good policy for privacy protection – **Rule making**
 - To inform the existence of RFID – **Transparency**
 - To implement the deactivate function or to adopt Removal structure – **Cut down**
 - To notice a selection of
 - Deleting or destroying physically,
 - erasing or deactivating by electronic measures or
 - Removing from items.

Other Issues

- Anti-Trust Issues
- Unfair Competition Issues
 - Theft of trade secrets via a traceability system
- And more...

Additional Issue

■ Borderless Environment

- Traditional Scheme
 - Compulsory collection of evidence by law enforcement authorities shall be **based on Due Process Rules**
- Current Situation
 - Always future or potential evidence can be recorded in somewhere via the network system by everyone **not based on any Due Process Rule**
 - Police agency only harvest them

- Thus, Due Process Rules shall be applied also in the civil area where is locating in the networked world

Conclusions

- Transparency
- Consent
- Legitimacy
- Security
- Misuse and Fake
- Education

