

## CASE STUDY

# Defence Research Establishment trials METALLIC ASSET TRACKING MODULE for its facility in India



*A huge facility spread over several square metres in a high security environment, it is imperative that critical and confidential data is not smuggled out of the premises and at the same time ensuring that data theft/loss is prevented. Adopting RFID technology takes security to the next level without additional cumbersome human intervention.*

### Company:

LRDE, Bangalore, India

**Facility:** R&D establishment

### Challenge:

- Tracking of IT assets (Laptops) which are metallic in nature.
- Ensuring that the right IT asset is being carried by the corresponding authorized person.
- To check on misuse of confidential R&D information being smuggled out of the premises via the transfer of IT assets.



### Proposed Solution:

- All IT assets were tagged with highly specialized and rugged Metallica™ tags capable of reading RFID signals in metallic environments, and organization employees were provided with Personna™ tags.
- Whenever a vehicle entered/exited the premises, the long-range readers would pick up individual signals for the employee and the IT asset, and associate the two. In case of a mismatch, an alarm would be generated in the security cabin allowing for a personal inspection of the vehicle.
- In spite of the IT asset being carried inside a shoulder bag containing paraphernalia such as other metallic objects and liquids, it would be easily detected within a matter of seconds.

### Realised Benefits:

- Heightened security
- Helps maintain accurate log of IT assets in motion
- Savings of time on account of automated processes thereby leading to least human intervention

### TECHNOLOGY

#### Solution:

EPC Gen2 compliant asset tracking and personnel tracking systems

#### Tag Type:

Metallica™ UHF Passive,  
Personna™ UHF Passive

#### Reader/Antenna:

Xtenna™ Long Range

#### Read Range:

17 metres (50 feet)

#### Method:

Multiple Tracking via Integrated  
Reader/Antenna modules

**Number of modules:** 2

#### Integration Platform:

**RFID Middleware:** Xtenna™ Studio

**Application:** Essen RFID's Astrax  
Asset Tracking System and  
Personnel Tracking System

**Database:** SQL Server 2005 Exp. ed.

#### Tag Manufacturer/Supplier:

Essen RFID

#### Reader/Antenna Manufacturer:

Essen RFID

#### Systems Integrator:

Essen RFID

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