

CASE STUDY

Engineering and Construction Giant ASSET TRACKING MODULE for its facility in India



Vehicles belonging to company executives carrying IT assets such as Laptops need to be tracked in real-time without being able to carry out physical manual entry/ exit checks. RFID technology supplements the automated IT asset tracking module by tracking the metallic asset from a distance of over 40 feet with the vehicle speeds at 15-20 km/hr and with the vehicle windscreen rolled up.

Company:

Larsen & Toubro, Gujarat, India

Facility: Manufacturing plant

Challenge:

- Tracking of IT assets (Laptops) which are metallic in nature.
- Ensuring that the right IT asset is being carried by the corresponding executive.
- To check on misuse of confidential corporate 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 business executives 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.

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: 4

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

For further details contact:

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