CASE STUDY

Cisco Systems implements EssenRFID's CAR PARKING MANAGEMENT SOLUTION for a multi-level parking tower (9 storeyed)

Operating a multi-storeyed parking lot containing multiple entry-exit points is an onerous task for a large campus which houses the Globalisation Centre for a Fortune 500 company. During peak office hours of morning & evening slots, the parking area must show a seamless & smooth flow of inward & outward traffic. Moreover it must be secure, barrier-enforced & have an automated & intelligent monitoring system that allows for accurate tracking system of incoming & outgoing vehicles.

Company: Cisco Systems, Bengaluru, India

Solution: EPC Gen 2 compliant car parking management system

Facility: 9 storeyed parking tower with multiple entry/ exit gates with a total capacity of 1,300 cars

Tag type: Parka™ UHF Passive

Tag manufacturer/ supplier: EssenRFID

Reader-antenna manufacturer: EssenRFID (Xtenna™)

Read range: 17 metres (50 feet)

Number of integrated readers-antenna modules: 30

Systems Integrator: EssenRFID

For further details contact:

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CHALLENGE

- 9 storeyed Parking tower (including basement & Ground floor) with mult iple entry/ exit gates totaling 11 accommodating over 1300 cars
- Difficult to keep a track of multiple entry/ exit routes of vehicles in real-time & to also keep tab on any unauthorized access

PROPOSED SOLUTION

- EssenRFID deployed Xtenna™ across gates/ levels & tagging all vehicles with Essen's Parka™ tags. Digital Signages (LCD screens) providing the current parking status to vehicle owners across all levels was being deployed. This was integrated with a central back end server, transfer of all data in real-time
- By helping streamline the Queuing management process, EssenRFID's CPMS also helps the overall security process by automating & securing data in real-time.
- Interlinked with the client's internal HR management systems & similar employee related back-end systems, whenever an employee vehicle exits from the premise, an automated message to the back-end server is sent across thereby ensuring that the RFID tag ceases to function actively resulting in a full proof security enabled process

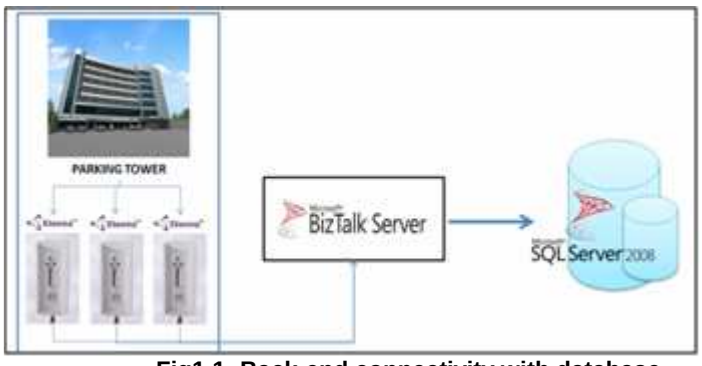

Fig1.1: Back-end connectivity with database

REALISED BUSINESS BENEFITS

- 24x7 after service as the site can be remotely controlled & managed on the basis of TCPIP protocol
- Ease of implementation (72 hours) as Essen's Xtenna is a pure plug & play device
- Seamless flow of data in real-time to the back-end server & no loss of transmission on account of digital signals
- Total cost of ownership is less on account of reusability of tags/ruggedness of the hardware resulting in positive ROI