

## CASE STUDY



# Fortune 100 Networking company implements **CAR PARKING MANAGEMENT SOLUTION** for a multi-level parking tower (9 storeyed)



**Company:**  
Fortune 100 US  
major, 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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Nariman Point,  
Mumbai – 400021  
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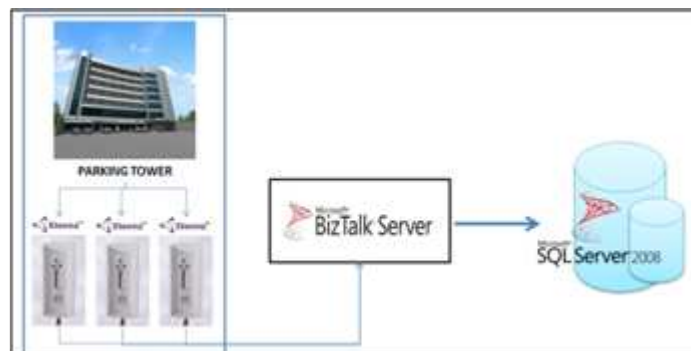
*Operating a multi-storeyed parking lot containing multiple entry-exit points is an onerous task for a large campus which houses the Globalisation Centre for a Fortune 500 company. During peak office hours of morning & evening slots, the parking area must show a seamless & smooth flow of inward & outward traffic. Moreover it must be secure, barrier-enforced & have an automated & intelligent monitoring system that allows for accurate tracking system of incoming & outgoing vehicles.*

### CHALLENGE

- 9 storeyed Parking tower (including basement & Ground floor) with multiple 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 TCP/IP 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