

## CASE STUDY

# Indian IT Services Company RFID ENABLED CoE PILOT MODULE for its Centre of Excellence



**TATA CONSULTANCY SERVICES**

The RFID Centre of Excellence is primarily used to showcase the IT services organisation's best-of-breed capabilities to its customers and would-be early adopters as to how the track & trace technology be used in a real-life situation by simulating the scenario at the CoE itself. The CoE is equipped with some of the best RFID equipment from some of the world's best RFID manufacturers.

### Company:

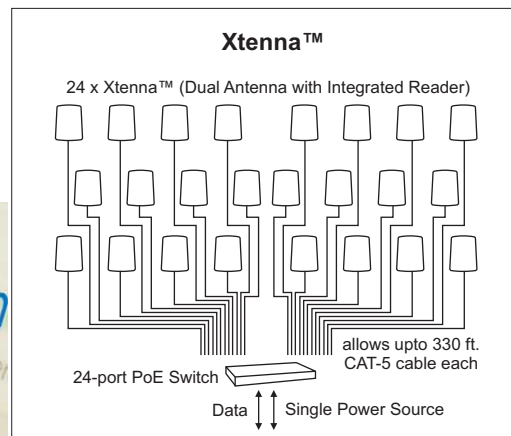
Tata Consultancy Services, Kolkata, India

**Facility:** CoE

### Challenge:

- Building a RFID-enabled Business Case to be able to demonstrate it to potential customers.
- Highlight the importance of TCP/IP based protocols settings and also to showcase the latest trends in Power-over-Ethernet Concept.

Centre of Excellence



*Xtenna™ device connectivity*

### Proposed Solution:

- As an OEM, Essen RFID's long-range reader Xtenna™ operates on the concept of TCP/IP based protocols settings, on the basis of which the RFID reader can be remotely controlled and its firmware upgradeable.
- Power-over-Ethernet (PoE) concept implies the ability to pump data simultaneously along with 48V DC power over an inexpensive CAT 6 cable.
- The distance between Xtenna™ and PoE switch can now be enhanced to 330 feet without loss.

### Realised Benefits:

- Cost effective solution
- Stable digital transmission
- No signal deterioration leading to enhanced read range (upto 17 metres)

## TECHNOLOGY

### Solution:

EPC Gen2 compliant CoE system

### Tag Type:

Genera™ UHF Passive,  
Parka™ 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

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

### Tag Manufacturer/Supplier:

EsSEN RFID

### Reader/Antenna Manufacturer:

EsSEN RFID

### Systems Integrator:

EsSEN RFID

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