Essen RFID

ESSEN

# US-based IT Services Company
# RFID ENABLED CoE PILOT MODULE
# for its Centre of Excellence

Cognizant

*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:**
Cognizant, 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*

**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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