RFID based Automated Person tracking system

At Bharti Shipyard there many employees are working, managing such a workforce of employees in a traditional register based system makes it time consuming and cumbersome task. Hence EssenRFID offered RFID enabled Automated Person Tracking System, without human intervention, RFID based Attendance Tracking System tracks the movement of Employees accurately.
Key Challenges:

Bharti Shipyard Company wants Attendance tracking system to keep track of present and absent employee.

Challenges are:

- Keep the attendance record Up to date for all employees is difficult task for maintain using existing manual system
- Making the absent report and late comers report is cumbersome and time consuming process.

Solution:

Essen RFID introduced the RFID technology for attendance tracking. Using RFID readers reads the tags quickly and automatically attendance logged into the system.

Implementation:

- **Attendance Tracking:**
  To track the attendance of the employee used the Xtenna™ antennas at security Enterance/Exit gate and or registering the tags used Xtenna Proximity™ and Camera is used for capturing the live photo. Person’s having the PERSONNA™ tag.

Working:

**Process of Attendance Tracking:**

1. Each employee has the tag. Using Xtenna Proximity™ registered the RFID tag to employee.
2. Security IN/OUT reader detects the registered tags & employees live photo captured by camera. And live photo and actual photo displayed on the screen.
3. Its IN time is logged in database.
4. Similarly when employee out from the out gate it’s out time is logged in the databases.
5. However, ATS system tracks the all employee’s movement inside and outside.
Benefits:

- Provides Real-Time data, performs automatic data collection
- Provides Daily, Weekly and Monthly reports, Attendance reports, late comers and late sitter reports (Overtime) and Monthly summary report of all employees with working day, absent day count.
- Easily tracks the IN and OUT time of Employees.

List of Hardware:

- **Xtenna**
- **Xtenna Proximity™**

Tags:

- **PERSONNA™**

List of Software:

- **Xtenna WebToolkit™**
- **Xtenna Studio™**

Example: