CASE STUDY -
ASSET TRACKING

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The Client runs one of the largest water resources project of India covering four major states - Maharashtra, Madhya Pradesh, Gujrat and Rajasthan. Dam's spillway discharging capacity 85000 cumec (30.0 lakhs cusecs) would be third highest in the world. With 1133 cumecs (40000 cusecs) capacity at the head regulator, and 532 km. length, the Narmada Main Canal would be the largest irrigation canal in the world.

The project will generate between 856 to 1007 million units per year of cheap and Eco-friendly, indigenous hydropower. Project would meet the drinking water needs of 9490 villages, 173 urban centres and benefits three sanctuaries.

Solution:

RFID Based Asset Tracking Solution.

Problem / Pain Point:

1. The Client has a 10-story office in which assets (Laptos, Mouse & Printers) are moved across various stories. The client faces a challenge in keeping track of the asset movement across the various floors.
2. Also, the Client wishes to keep track of which asset is in possession of which employee at a given time.

Objective of Project:

1. To track movement of assets between the floors in real time.
2. To map & track asset ID with employee ID.

Solutions Proposed:

For the proposed solution, each asset (CPU, mouse & printers) will be tagged with RFID tags.
RFID readers will be placed on the stairway & the elevator doors. As the asset passes through these locations, the RFID readers will read the tag and generate and alert to the form of a mail in order to keep track of the movement.
Also, each asset RFID tag will be linked with the employee ID who possess the asset. If the asset passes to another employee, the tag will then be mapped to that employee ID.

Benefits:

1. RFID technology allows the client to accurately track asset movement across his premises in real time. This tackles the issue of lack of visibility of asset movement.
2. As each employee id is linked with asset Id, it reduces the chances of theft and ensures responsibility of asset lies with the employee.
3. The solution is capable of report generation, thereby allowing data driven decision making.

QODE NEXT®
Traceability Redefined

Solutions Proposed:

Goods Receipt

The Inward document is emulated on the screen of the mobile computers. The respective Item codes & serial numbers are scanned to validate the online records with the physical ones on the barcode labels of each item. The validated report is posted online into the WMS tables to generate Goods receipt note. Deviations if any are reported.

Put Away

The items are then stored in available shelves in the warehouse & the shelf barcode label is scanned to map the item–location relationship into the WMS system.

Picking

When delivery order is received into the WMS system. It is pushed onto the Mobile Computer along with the location details. The picker is directed by the system to go to the particular location & scan the item code & serial number to validate the same. The system intelligence is used to pick the correct item.

Packing, Consolidation & Dispatch

Multiple deliveries are simultaneously loaded & also at times in the same vehicle by validating the delivery number v/s the item codes & serial numbers in the respective deliveries directly on the Mobile Computers.

End to End Traceability

Now, from their system they can derive the end to end traceability as to which item with respective serial numbers was received from where and was delivered to which customer.

Benefits:

1. 100% accuracy in shipments, eliminating mis-ships and the associated negative impact on customer service and costs.
2. Reduction in labor costs through process automation.
3. Improved warehouse throughout.
4. New customer service differentiators: Real-time customizable tracking website for customers.