

E2E Cold Chain Consignment Monitoring

Organization Name: NEC

Overview:

Cold chain cargo is required to be maintained under specific conditions (such as humidity, temperature, lighting, door open status).

Most of the solutions present today are focused towards the reefer container tracking/ monitoring, which may not be of interest to the end consignee. Devise a suitable solution to track/ monitor each consignment (package), on the above mentioned parameters, so as to ensure consignment deliveries occur in a fresh (expected) state

Current Challenges (illustrate with an example):

- Low traceability: End users are not aware of the current state of their specific consignment
- No accountability of the cause of damage to the consignment, in multi stakeholder logistics scenario
- Parameter (such as temperature, humidity) fluctuations results in reduced shelf life of the perishable goods (esp. food items). This results in huge wastage
- Current solutions do not provide an end-to-end visibility of the consignment (they are simply focused on the reefer container, rather than the consignment itself).
- Truck drivers, which arrive at the premise to collect cargo/ goods, are not aware of the status of their goods. As a result, they end up a lot of time waiting for their turn (to collect their cargo)
- The wastage levels in perishables in India are significantly high- 4.6- 15.9% in fruits, 5.2% in inland fish, 10.5% in marine fish, 2.7% in meat and 6.7% in poultry.

Business Requirements:

Below is requirement to clear this challenge

- Tracking / monitoring perishable goods
- Monitoring of storage temperature and humidity levels
- Any time data access
- Receive real time alerts/notifications
- Various automated reports for easy monitoring
- Track shipment location and transport stages
- Predictive, descriptive and real time analytics
- Increased shelf life through a reduction in scope of spoilage and contamination

