Experience with Electronic Cargo Tracking System in Pakistan

Pakistan Customs 2019
Safe Transport Environment Project – Performance Overview

Project Overview

- Project initiated to manage risk of cargo pilferage in Customs transit and transshipment movements.
- Project was initiated on 7th May, 2013 after award of license to TPL Trakker Ltd following due process.
- Successful implementation of tracking technology has resulted in disappearance of smuggling in Afghan Transit.

Since May 2013

- 700+ major incidents recorded
- 330,000+ containers tracked
- 356,000+ alarms monitored
- 223,000+ completed trips

- TPL Trakker has successfully renewed its license with the FBR for a further two years effective January 2019.
- The license renewal is valid for all cargo types including transshipments and the upcoming CPEC business.
Container Tracking Business Overview

CT | Total of 400,000+ Containers Tracked

- Commercial Container Tracking
  - 70,000+ Containers Tracked

- STE Project (Afghan Transit Cargo)
  - 330,000+ Containers Tracked
  - Details Follow

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Services Offered

- Route Deviation
- Unusual Stoppage
- Door Intrusion Alert
- Out of Sync
- Speed Alert
- Onsite Installation & Removal
Operational Infrastructure

Central Control Room at Karachi

Over 125 personnel deployed across Pakistan
- 75 technicians
- 40+ control room agents

Central Control Room at Custom House Karachi

Regional Control Rooms at all Dry Ports
- Quetta, Hyderabad, Multan, Faisalabad, Sialkot, Peshawar, Lahore, Islamabad, Torkham, Chaman

Nationwide Recovery Teams for liaison with Customs MEUs
Actual Installed Container Security Device
Tracking Device - GT Hybrid

• Thin, Low-Profile Enclosure
• Security Cable Option for container locking bars or latch
• Flexible Dual Mode Cellular and Globalstar Satellite Communications
• Quick & Simple Installation
• Interfaces to other ERP, TMS, WMS, and MIS systems
• Rechargeable through same connectors.
• Battery life: 30 days at 30-minutes report interval
• Internal Motion Sensor.
• Route deviation.
• 24/7 active monitoring.
• Daily MIS reports/Trip Summaries.
• Unusual Stoppages.
• Environmentally Hardened
• Quick & Simple Installation.
• Flexible Mounting System.
• Software: Locally hosted web based software available on intranet OR internet
Trip Start Activities (Installations and Integration)
End to End Process

XML Information
1. Bonded carrier name
2. Port name
3. Destination
4. Container #
5. Vehicle registration #

Automated XML Messages between PRAL / Customs IT Systems (One Custom / Weboc) and Tracking System (jointly tested by IT Teams)

1. XML to TPL Database Server hosted in CCR (Customs Control Room)
2. CCR information to technician (vehicle # and container #)
3. Technician sends SMS to TPL Short code (Vehicle #, Container #, Unit #, SIM #)
4. Reconciliation with PRAL data for Vehicle #, Container #, Port Name and Destination
5. CSD & Container pairing process
6. Trip Start Report
7. Trip Monitoring (Alerts: Route deviation, unusual stoppage, breach, door alerts etc)
8. Trip End Report (Vehicle #, Container #, Destination)
9. Device de-installation (Toorkham / Chamman)
10. Unit shipment back to TPL Diagnostic center via TCS (KHI / LHR)
11. Unit Examination (Hardware and Software, battery examination)
12. Device charging for the re-use
13. Diagnostic certification for the device re-use

End
<table>
<thead>
<tr>
<th>S #</th>
<th>TYPE OF ALERTS</th>
<th>ACTION THEREON</th>
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<tbody>
<tr>
<td>1</td>
<td>Door Alert</td>
<td>100 % examination of consignment</td>
</tr>
<tr>
<td>2</td>
<td>Route Deviation</td>
<td>Physical verification of seals and examination of cargo, if required Notice to Bonded Carrier for persistent route deviations</td>
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<tr>
<td>3</td>
<td>Unusual Stoppage</td>
<td>Physical verification of seals and examination of cargo, if required Notice to Bonded Carrier for persistent route deviations</td>
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<tr>
<td>4</td>
<td>Out Of Sync</td>
<td>100 % examination of consignment</td>
</tr>
<tr>
<td>5</td>
<td>Accident / Toppling of Container</td>
<td>100 % examination of consignment</td>
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Nationwide deployment of Mobile Enforcement Units
Karachi to Chaman Route
TPL Trakker has saved more than Rs. 37 billion in tax revenue loss for FBR due to implementation of real-time tracking technology

Afghan Transit Trade Cargo Only

Prior to Initiation of Tracking

- 15,314 pilfered containers on the basis on 10-day trip time
- Loss in tax revenue estimated at Rs. 37 billion in 2011
- Numerous mega scams occurred due to lack of real-time tracking
  - The Louis Berger Scam
  - Manifest Container Scam
  - ISAF Container Scam (Lunar Container Scam)

Post Initiation of Tracking

- Smuggling on Afghan Transit Trade has all but disappeared
- Cargo is being tracked in real-time with respect to:
  - Route being taken
  - Door/intrusion monitoring to avoid stuffing/de-stuffing of cargo
  - Unusual Stoppage of container en-route to avoid pilferage
  - Out of Sync

Source: FTO Report; Interim Report on Afghan Transit Trade in Suo Moto Case No:16 of 2010 of Honorable Supreme Court of Pakistan Regarding 'ISAF Container Scam'
Thank You

Q & A