

AAPA: Ops Safety & IT

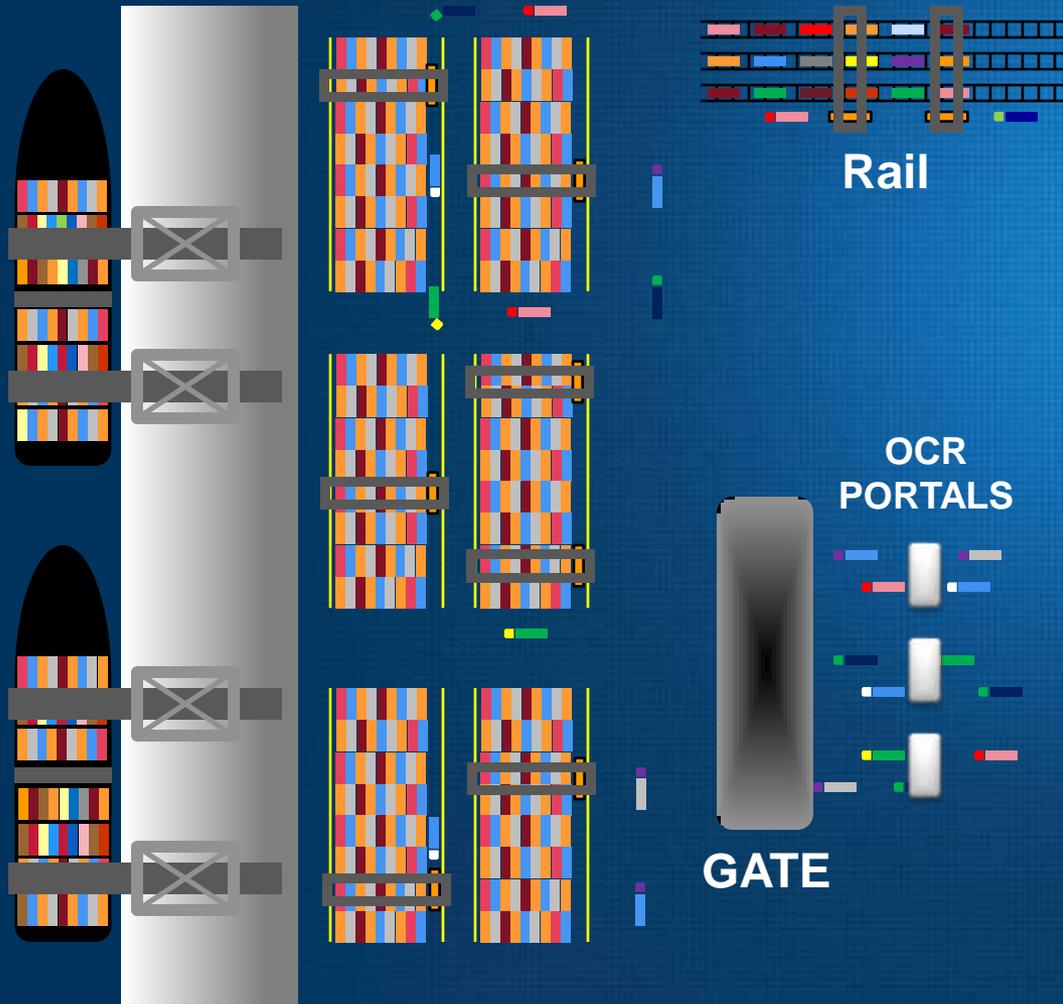
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Technology in Port Operations

What Makes Up the TOS?

- **Inventory Database**
 - EDI
 - Web Enabled
- **Planning and Execution**
- **Wireless Canopy**
- **Gate Systems**
- **Position Detection System**
- **RFID System**
- **Billing**

Terminal Operations



- **Real-time Inventory Control**
 - OCR
 - Automatic Inventory Updates
 - RFID-based Job Promotion
- **Real-time Equipment Monitoring for all CHEs**
- **24 x 7 x 365 Support**



GPA Operations Command Center

GPA Automated Gate Process

Create Pin Number

- Required Data Entered and Validated
- PIN Number Created
- Over the Road Trucks have RFID Tags Mounted and Registered

Truck Arrives at Pre-Check

- Truck Passes thru OCR with Container
- Container/Truck/Pin Matched in System
- Driver Credential Validated & Container Weighed
- Mission Tickets Generated / Location Planned / Work Instruction Routed to Field Equipment

Container Dropoff Inspection

- RFID Promotes What Truck (Container) is in Which Lane
- Container Inspected, Damages Noted, Seal Entered
- EIR Generated
- Yard Location Finalized if Necessary

GPA Automated Yard Process

Container Demount

- Yard Mapped with Intelligent Numbering Scheme for Easy Slot Location
- Truck Arrives at Planned Demount Location
- Yard Lift Reads Truck RFID & Promotes Demount Instructions on Mobile Data Terminal in Cab
- Engage Twist Locks Transfers Container Location from Truck To Lift
- Auto Demount Location Update Based on Lift Telemetry, Geospatial Yard Map, and Twist Locks

Container Mount

- Truck Arrives at Planned Mount Location
- Yard Lift Reads Truck RFID & Promotes Mount Instruction on Mobile Data Terminal in Cab
- Engage Twist Locks Transfer Container Location from Yard to Lift
- Auto Mount Location Update Based on Lift Telemetry, Geospatial Yard Map, and Twist Locks
 - Re-handles Planned and Updated Automatically Based on Lift Telemetry, Geospatial Yard Map, and Twist Locks

Container Pickup Inspection

- RFID Populates Which Truck (Container) is in Which Lane
- Container Inspected, Damages Noted
- Seal Verified
- EIR Generated