New York City Sub Regional ITS Architecture
Functional Area Meeting Minutes

Functional Areas: Commercial Vehicle Operations & Electronic Toll/Fare/Parking #2
Location: PANYNJ - 1 Madison, New York City
Meeting Date: April 11, 2003
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Commercial Vehicle Operations (CVO) Functional Area Meeting (9am - 12pm)

1. Introductions/Service Announcements
2. Presentation / Q&A
- What is a *Regional ITS Architecture* (according to FHWA Rule 940/FTA Policy)?
- NYC Sub Regional ITS Architecture Development Process

3. Commercial Vehicles Operations Issues Discussed
- Weigh-in-Motion
- City Issued Special Hauling Permits
- Alarm Systems for OverHeight and OverWeight Vehicles entering Bridges/Tunnels and Roadways
- Project FIRST – Freight Information for Real-Time System for Transport (firstnynj.com)
- HAZMAT Incident Management and Inspection; Security detection and response

Weigh-in-Motion
- NYC DOT
- NYSDOT
- PANYNJ
  - WIM Stations (future), infrastructure protection
  - Ports have scales (weighing trucks in/out)
- MTA
  - WIM Stations (future), infrastructure protection

City Issued Special Hauling Permits
- OH/OW permits by NYCDOT, Division of Bridges, Authorized Truck Unit (NYCDOT).

- "Specials" (OS/OW Permits) for PANYNJ by PANYNJ TB&T and PAPD, Office of the General Manager for each Facility (authorizes the permits)
- (PANYNJ and MTA B&T).
- These last two offices that issue permits exchange information about existing permits with themselves and with NYCDOT.
- NYPD should be able to access information about existing permits through NYCDOT system. (NYSDOT)
- NYCDOT MOSAIC is a system that issues Emergency Permits, and tracks asset inventory.
- NYSDOT should be able to access permit information as well

Alarm Systems for OverHeight and OverWeight Vehicles entering Bridges/Tunnels and Roadways
- Goal is to detect as far upstream as possible.
- Alarm/Warning Systems for Overdimension Vehicles entering Bridges/Tunnels
  - Advanced warning coordination

Project FIRST – Freight Information for Real-Time System for Transport (firstnynj.com)
- Web-site exchange of vessel arrival/departure
  - Container Status for Truckers, Freight Forwarders and Brokers, Shippers
- Combines SEA LINK trucker ID card
  - SEA LINK DB for Drivers and Trucking Companies
  - Broker can nominate trucking companies to pickup a container. Trucking company gets an email.
  - Containers are on a watch list to see when a container is released by Customs (for pick-up).
  - Truckers can pre-register trips (part of TRIPS 123) to get traveler information (e.g. incident information).
  - Future:
    - Transponders on chassis, containers (CARGOMATE)
    - Electronic seals
    - Electronic Manifests
  - PORTPASS
    - Demo project, E-ZPass fusion tag application (2-way tag)
    - Readers at the port terminals and upstream.
    - Integrate with terminal yard management system
    - Trucker can make an appointment with the system
    - Terminal can expect/track arrival of trucks to have container ready for pick-up on arrival.
  - CVISN (for driver credentials)
    - Tie in to port operations, inspections and Security.
    - OH/OW detection at the terminal, HAZMAT detection, chassis roadability
  - Want to put NYCDOT video on FIRST
  - IRVN video

- Traffic conditions to/from the port including B&T

HAZMAT Incident Management and Inspection; Security detection and response
- Permitting process, includes inspection
- Detection of HAZMAT
  - Project to detect (experimental) at the roadside for nuclear and nitrogen/ammonia
  - Operation Safe Commerce (PANYNJ)
    - Public/Private by TSA of container freight. Analysis of existing processes, testing of technologies to mitigate identified risks.
- Incident Management:
  - PA has first responders at the facilities
  - HAZMAT incident messages to 911 on incident
- Operation Respond like functions extended to CVs (NYSDOT and PANYNJ)
- Screening information exchange for CVO (not just HAZMAT) across multiple agencies
- NYPD, PAPD and other public safety agencies need to be involved (at the May 15 Emergency Management Functional Area Workshop).

Electronic Toll/Fare/Parking (1pm - 4pm)

1. Introductions/Service Announcements
2. Presentation / Q&A
- What is a *Regional ITS Architecture* (according to FHWA Rule 940/FTA Policy)?
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3. Electronic Toll/Fare/Parking Issues Discussed
- Non-toll Opportunities

Airport Parking (E-ZPass Plus) / Parking Reservation Systems / Parking Garages
- Airports:
  - Parking Revenue control Systems
    - Airport systems are identical, and will be connected to a Airport Central Host Computer and then to the CSC (NY Service Center)
    - PA Wide Area Network
    - Payment using E-ZPass (CSC interconnect)
    - License plate OCR for entry/exit ticket verification and lost ticket pricing. Also for security analysis.
  - Parking guidance in the future
    - For garages, guide travelers to empty spots in the garages.
    - Parking lot status on the websites

- Airport VMS to indicate status of lots, driven by Parking Management Control System
- HAR at JFK and EWR (all in the future).
    - Ground Transportation permitting system in the future.
        - Use E-ZPass tags to track taxi movements at the airports
    - Data used for forecasting
- E-ZPass plus for PABT public parking and park and ride in NJ.

Parking Reservation and Information/Guidance Systems

- Parking Reservation and Information/Guidance Systems
    - Shea stadium parking: VMS to guide travelers in the future (special events and park&ride.)
    - Connected to TMC, also VMS traveler information for parking
- Airport Reserved Parking discussed, some interest by the airlines for premium travelers
- Website with all parking facilities (DCP Website)
    - Possible reservation component by the private facilities
- Metro North rail lots
    - Lot capacity through website and DMS.
    - E-ZPass payment option?

Compatibility with Fare Collection Cards/Smart Cards

- PANYNJ: Office of Regional Smart Card Programs.
    - "Regional Interface Specification" (aka SmartLink)
        - Working with APTA, NYCT as well
        - Framework for data elements/ISO standards for vender independent procurement of smart cards.
        - Pilot at EWR (Airtrain system and JFK Airtrain later)
        - Will work with Quickcard (PATH Magstrip) and Metrocard
    - Separate clearinghouse function from EZ-Pass.
    - Ability to pay at Munimeters