

# Commercial Mobile Radio Service (WRI – CMRS)

Commercial Motor Vehicle Roadside Technology Corridor Safety Technology Showcase

October 14, 2010



# WRI Overview

- The goal: Improved motor carrier safety due to increased compliance caused by higher frequency of roadside safety inspections using wireless technologies.
- Benefits
  - Improved safety of CMVs and their operation
  - Reductions in accidents
  - Increased productivity and mobility of the transportation system
  - Increased security and livability

# The CMRS Platform for WRI

- CMRS – Commercial Mobile Radio Services
- Includes telematics devices (such as electronic on-board recorders)

U.S. Department of Transportation  
Federal Motor Carrier Safety Administration

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### Wireless Roadside Inspection Back Office System (WRI-BOS)

Announcements: Welcome to the WRI System.

Select an option to view details

- SDM Requests
- Safety Data Messages
- Inspections
- Alerts List

ACTIVITIES			
	Today	Month	Since Inception
SDM Received	0	134	166

VIOLATIONS		
Violation Category	# Violations	# Alerts
HOS	0	0
OOS	19	16
Endorsements	0	0
TOTAL	19	16

ALERTS					
Select alerts to view: 5 Most Current					
Violation	Description	Date/Time	Severity	SDM	
385.325(c)	List of the violated CFRs 385.325(c)	2010-09-23 13:31:16	Low	<input checked="" type="checkbox"/>	
385.325(c)	List of the violated CFRs 385.325(c)	2010-09-23 13:02:49	Low	<input checked="" type="checkbox"/>	
385.325(c)	List of the violated CFRs 385.325(c)	2010-09-23 12:57:2	Low	<input checked="" type="checkbox"/>	
385.325(c)	List of the violated CFRs 385.325(c)	2010-09-23 10:56:48	Low	<input checked="" type="checkbox"/>	
385.325(c)	List of the violated CFRs 385.325(c)	2010-09-23 10:56:31	Low	<input checked="" type="checkbox"/>	

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# Why CMRS?

- Builds on commercially available off-the-shelf systems
  - Hardware: EOBRs / telematics devices
  - Software: geofencing, vehicle-to-back-office communications
- Geopoint triggering
  - Automated process
  - Allows inspection at any pre-arranged location
- Pull-in/bypass indicator to driver

# CMRS Pilot Test Capabilities



- Safety Data Message identifies driver, vehicle, and carrier and gives status info
- Drivers, vehicles, and carriers screened for potential violations
  - Operating authority
  - HOS and driver credentials
- Research to test transfer and use of safety sensor data (tire pressure, brake data, weight)

# CMRS Pilot Test Partners

## ISE



## Greene Coach

- 2 Vehicles
- Vehicle to GBOS

## PeopleNet



## Bridgestone McKee Foods Pilot Travel Centers Tennessee Express

- 15 Vehicles
- BOS to GBOS
- Collecting safety sensor data
  - MGM e-Stroke, Air-Weigh, PressurePro
- Driver bypass message

## QualComm



## H.T. Hackney

- 10 Vehicles
- BOS to GBOS

# CMRS Pilot Test

