

Level VIII Inspection Operational Test

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

Federal Motor Carrier Safety Administration

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ANALYSIS,
RESEARCH, &
TECHNOLOGY
FORUM

VIRTUAL EVENT





In collaboration with CVSA and State Partners, FMCSA will **design and implement a Level VIII Inspection operational test** to measure the safety, climate, and operational impacts .

Level VIII Inspection Operational Test

What is a Level VIII Inspection?

- An inspection conducted electronically, while vehicle is in motion, without direct interaction with an enforcement officer.

What are the potential benefits?



SAFETY

- More data on more carriers
- Reduce traffic congestion at inspection points



EFFICIENCY

- Save time for carriers and drivers



CLIMATE

- More inspections with fewer climate impacts

Purpose of Level VIII Inspection Operational Test

- Determine how data collected without human interaction can be used to improve **safety**
- Measure the **climate** impact
- Evaluate the feasibility and benefits of nationwide implementation

Challenge:

- FMCSA is aiming to begin on-road test in calendar year 2023
- Potential impacts need to be studied before operations are affected

Phased Approach to Operational Test

PHASE 1: COLLECT & EVALUATE DATA

- Test capability to collect and transfer Level VIII data electronically
- Passive data collection, no impact to carrier or enforcement operations
- Analyze the data to better understand potential uses and impacts

PHASE 2: TEST DATA USE CASES

- Test capability, business rules to identify violations and make bypass decisions in real time without human interaction
- Simulate SMS impacts
- Assess safety, climate, efficiency impacts

Level VIII Operational Test Requires Collaboration



CVSA defined the Level VIII data requirements and will help identify participants



FMCSA will define the technical requirements for sending data to State inspection systems and will evaluate and share data collected with participating carriers



Tech vendors will build and provide the transfer service to carriers



States will identify inspection locations to serve as test sites



Motor carriers will participate in test and acquire technology solution from participating vendors

Accomplishments & Next Steps

- **Accomplishments**

- FMCSA Steering Committee has been meeting to inform test since June 2022
- CVSA hosted Level VIII Forum to collect input from industry, carriers, technology vendors, and enforcement

- **Next Steps**

- Develop data transfer requirement to provide to tech vendors
- Identify method for how carriers can view data collected during the test
- Identify criteria to select carriers and States that can participate in the test



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Level VIII

INSPECTION OPERATIONAL TEST



Questions?
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