

**I-95 CORRIDOR COALITION  
YEAR 6  
SCOPE OF WORK FORM**

**Project Title:** Connecticut - Corridor Wide Technical Assistance (CWTA)  
CVISN Proof of Concept

**Project Code:** 6-4Bc

**Coalition Funding Amount:** \$50,000

**Program Track:** Commercial Vehicle Operations

**Program Year:** 6

***SECTION A – BACKGROUND***

**Background – Corridor Wide Technical Assistance (CWTA) Funds**

Many of the I-95 Corridor states that received Year 5 funding for FOTs 7 – 10, applicable to CVISN Level One capabilities, have supplemented the I-95 Corridor Coalition funding with state funding and in-kind staff resources. At the time of developing the CVO PTC Year 6 Work Plan, a number of states had completed preliminary CVISN design and planning work and were seeking additional assistance for more detailed systems requirements analysis, system design and integration, and implementation toward achieving CVISN Level One compliance. Corridor Wide Technical Assistance (CWTA) funds were made available upon application as part of the Coalition’s Year 6 Work Plan to address these state needs through building upon and expanding existing FOTs.

The intent of the CWTA project was to provide additional assistance to states who had demonstrated a solid record of performance in implementing their FOTs but required additional assistance to complete, or further, their project efforts. Funding was structured on a needs-basis, and was not to be awarded in instances where performance was of concern. CWTA funding was also available to states interested in pursuing an FOT but had not participated in Year 5 activities. These state applications to join in on-going FOTs were considered for funding approval determinant upon the success of the FOT in other corridor states and the anticipated ability of the applicant state to implement the FOT successfully.

Connecticut received approval of their CWTA application for technical assistance related to CVISN proof-of-concept. Due initially to a delay in funding allocation and later to state issue of a CVISN RFP, technical services were not started, per state request. Upon award of the CVISN contract, Connecticut was able to effectively utilize the funding as originally intended with the same service provider and requested a revised scope of technical services to reflect the current technical environment.

## **Description**

Cambridge Systematics (CS) staff has been selected to technically assist the State of Connecticut with components of their architectural systems and compliance related to their CVISN efforts. CS staff brings technical expertise to Connecticut through CVISN project experience and will perform tasks focusing primarily on providing data electronically to the Union weigh station; data provided will support roadside screening and performance-based enforcement activities integral to CVISN compliance.

Staff from CS will work with CVO stakeholders in Connecticut to confirm and document the functionality and services to be developed and demonstrated as part of this technical assistance. Staff team will perform all tasks with oversight and management from the Connecticut project manager, Lt. Rudolph Supina. Upon completion of the technical assistance task, CS staff will document the results of this effort in a briefing booklet to be distributed to interested parties. The briefing booklet will describe CVISN at a high level, identify technologies and services implemented, and present the results of the proof of concept demonstration.

Estimated completion date for this Corridor Wide Technical Assistance project, 6-4Bc, is September 30, 2002.

## ***SECTION B – TASKS AND DELIVERABLES***

<u>Task 1:</u>	Install demonstration CVIEW
<u>Task 2:</u>	Deliver carrier and vehicle snapshots to CVIEW
<u>Task 3:</u>	Retrieve and incorporate snapshots into CVIEW repository
<u>Task 4:</u>	Transfer vehicle and transponder information
<u>Task 5:</u>	Match vehicle information to update snapshots
<u>Task 6:</u>	Export vehicle and associated carrier data
<u>Task 7:</u>	Transfer information from CVIEW to Model MACS
<u>Task 8:</u>	Automate the import and update of data
<u>Task 9:</u>	Screen vehicles
<u>Task 10:</u>	Document results

### **Task 1 Title: Install demonstration CVIEW**

#### **Task 1 Description:**

In coordination with the Connecticut project lead and in full understanding of the state CVISN program plan and design work, CS staff will install a demonstration version of the Commercial Vehicle Information Exchange Window (CVIEW) at the Connecticut Department of Motor Vehicles (DMV). This demonstration CVIEW will be programmed to integrate DMV data with further data required for electronic screening of vehicles at the Union weigh station.

#### **Task 1 Deliverables:**

- Connecticut's review and acceptance of technical assistance project plan with modifications to Tasks and Schedule to reflect current technical project environment and budget
- Installation of demonstration CVIEW at the Connecticut (DMV)
- CVIEW programming to accept screening information provided by MACS Central
- CS to provide demonstration machine to be housed temporarily in CT

**Task 2 Title: Deliver carrier and vehicle snapshots to CVIEW**

Task 2 Description:

In order to incorporate further carrier and vehicle data necessary for screening purposes, technical staff will access SAFER snapshots on behalf of Connecticut. Through creating subscriptions to the SAFER Helpdesk, carrier and vehicle snapshots will be delivered to the subscription mailbox.

Task 2 Deliverables:

- SAFER Helpdesk subscriptions for Connecticut (compatible with SAFER version 2.4.4)
- Snapshot data for carriers and vehicles delivered to subscription mailbox

**Task 3 Title: Retrieve and incorporate snapshots into CVIEW repository**

Task 3 Description:

Technical staff will access and transfer carrier and vehicle snapshot data into the demonstration CVIEW through connecting CVIEW to the SAFER e-mail server which stores the subscription mailbox data. Connectivity to the e-mail server will allow for retrieval and incorporation of snapshot data into the CVIEW repository.

Task 3 Deliverables:

- Connectivity of CVIEW to SAFER e-mail server (using existing CT link to Volpe)
- Retrieval snapshot data from the subscription mailbox
- Incorporation of snapshot data into CVIEW repository

**Task 4 Title: Transfer vehicle and transponder information**

Task 4 Description:

In order to incorporate vehicle and transponder data necessary for screening purposes, technical staff will create a process to transfer this information from the MACS Central computer at the DMV to the CVIEW. The newly programmed system transfer process will utilize the existing Connecticut local-area network.

Task 4 Deliverables:

- Connectivity of CVIEW to Model MACS Central computer
- Creation of systems program allowing transfer of vehicle and transponder data
- Incorporation of vehicle and transponder data into CVIEW repository

**Task 5 Title: Match vehicle information to update existing snapshots**

**Task 5 Description:**

Once SAFER carrier and vehicle snapshot data and MACS vehicle and transponder data are resident in the CVIEW repository technical staff will integrate the data. Technical staff will create a program to match vehicle information and update existing snapshots.

**Task 5 Deliverables:**

- Creation of systems program to match vehicles between MACS Central Files and snapshots
- Match vehicle data source files
- Integrate source data
- Update existing snapshot

**Task 6 Title: Export vehicle and associated carrier data**

**Task 6 Description:**

Updated snapshots must be sent to and received by the Union weigh station site in order to be utilized for electronic screening purposes. Technical staff will create an automated process within CVIEW to export vehicle and associated carrier data in updated snapshots to the Union site. Programming specifications of the automated export process will convert updated snapshot data into a format acceptable to the Kentucky Model MACS system currently in operation at the Union site.

**Task 6 Deliverables:**

- Creation of a systems program to automate the export of updated snapshots to Union site
- Creation of export files compatible with the current Kentucky Model MACS system at Union site
- Export of Model MACS-compatible updated snapshots from CVIEW to Union site

**Task 7 Title: Transfer information from CVIEW to Model MACS**

**Task 7 Description:**

Exported updated snapshots from CVIEW must be integrated into the Union site Model MACS system prior to use for effective electronic screening. Technical staff will automate the transfer of exported data files from CVIEW to Model MACS using the current Connecticut wide-area network infrastructure.

**Task 7 Deliverables:**

- Automated transfer of exported data files from CVIEW to Model MACS
- Utilization of current Connecticut wide-area network infrastructure

### **Task 8 Title: Automate the import and update of data**

#### **Task 8 Description:**

Once the transfer of exported data files from CVIEW to Model MACS is automated, technical staff will further automate the process through creating a program by which Model MACS automatically imports the exported data and updates the local repository of information; this information will be used to support roadside screening.

#### **Task 8 Deliverables:**

- Automation of the import process of CVIEW exported data
- Automation of update process within the local repository
- Receipt of updated data at roadside

### **Task 9 Title: Screen vehicles**

#### **Task 9 Description:**

Utilizing the Model MACS system for receipt of updated, dynamically transferred data will allow for screening of commercial vehicles passing the Union weigh station. Technical staff will track and test the integration, transfer, and integrity of the data as well as the functionality of the screening system technologies.

#### **Task 9 Deliverables:**

- Tracking and testing of the integration, transfer, and integrity of the data
- Tracking and testing the functionality of the screening system technologies
- Electronic screening of commercial vehicles at Union weigh station

### **Task 10 Title: Document results**

#### **Task 10 Description:**

Upon completion of the technical assistance task, CS staff will document the results of this effort in a briefing booklet to be distributed to interested parties and stakeholders. The briefing booklet will describe CVISN at a high level, identify technologies and services implemented, and present the results of the proof of concept demonstration.

#### **Task 10 Deliverables:**

- Briefing booklet
- Description of CVISN at a high level
- Identification of technologies
- Identification of services implemented
- Documented results of the proof of concept demonstration

## **SECTION C - BUDGET**

General Budget Information (same as idea form information):

\$100,000

Total project costs.

\$50,000

In Coalition funds.

Please provide information below regarding other funding sources available/required including: agency, private, or other federal funds.

### **Detailed Budget Information:**

<b>TASK</b>	<b>TASK DESCRIPTION</b>	<b>DATES</b>	<b>FIRM</b>	<b>COST PER TASK</b>	<b>LABOR DOLLARS</b>	<b>DIRECTS</b>
<b>NTP</b>	Notice to Proceed	April 2002				
<b>Task 1</b>	Install demonstration CVIEW	May 2002 On-going	CS	\$6,300	\$4,300	\$2,000
<b>Task 2</b>	Deliver carrier and vehicle snapshots to CVIEW	May 2002	CT, SAFER			
<b>Task 3</b>	Retrieve and incorporate snapshots into CVIEW repository	June 2002	CS	\$2,000	\$2,000	
<b>Task 4</b>	Transfer vehicle and transponder information	June 2002	CS	\$4,000	\$2,800	\$1,200
<b>Task 5</b>	Match vehicle information to update existing snapshots	June 2002	CS	\$2,000	\$2,000	
<b>Task 6</b>	Export vehicle and associated carrier data	July 2002	CS	\$2,000	\$2,000	
<b>Task 7</b>	Transfer information from CVIEW to Model MACS	July 2002	CS	\$24,950	\$23,750	\$1,200
<b>Task 8</b>	Automate the import and update of data	July 2002	UKY			
<b>Task 9</b>	Screen vehicles	August 2002	CS, CT UKY	\$3,000	\$1,000	\$2,000
<b>Task 10</b>	Document the results	August 2002 Sept. 2002	CS	\$5,750	\$5,750	

## **SECTION D - SCHEDULE**

TASK	TASK DESCRIPTION	DATES	MILESTONES
<b>NTP</b>	Notice to Proceed	April 2002	Project Start-up
<b>Task 1</b>	Install demonstration CVIEW	May 2002 On-going	CVIEW installed at DMV
<b>Task 2</b>	Deliver carrier and vehicle snapshots to CVIEW	May 2002	Subscribe to SAFER Helpdesk on behalf of state
<b>Task 3</b>	Retrieve and incorporate snapshots into CVIEW repository	June 2002	Connect to SAFER e-mail server to access snapshots
<b>Task 4</b>	Transfer vehicle and transponder information	June 2002	Connect Model MACS to CVIEW
<b>Task 5</b>	Match vehicle information to update existing snapshots	June 2002	Match vehicle data files and update snapshots
<b>Task 6</b>	Export vehicle and associated carrier data	July 2002	Export updated snapshot data to Union site
<b>Task 7</b>	Transfer information from CVIEW to Model MACS	July 2002	Transfer exported snapshot data into Model MACS
<b>Task 8</b>	Automate the import and update of data	July 2002	Automate import and update process
<b>Task 9</b>	Screen vehicles	August 2002	Screen vehicles from roadside
<b>Task 10</b>	Document the results	August 2002 September 2002	Briefing booklet complete

## SECTION E – CONTACT INFORMATION

### Sponsoring or Managing Agency Project Manager:

**Name:** \_ Lt. Rudolph Supina  
**Title:** Lt./Project Manager  
**Organization:** Connecticut Department of Motor Vehicles  
**Address:** 60 State Street, Room 263  
 Wethersfield, Connecticut 06109  
**Phone:** (860) 263-5445  
**Fax:** (860) 263-5587  
**E-mail:** [rudolph.supina@dmvct.org](mailto:rudolph.supina@dmvct.org)

### Technical Assistance Project Manager:

**Name:** \_ Brad Wright  
**Title:** Principle/Project Manager  
**Organization:** Cambridge Systematics, Inc.  
**Address:** 150 CambridgePark Drive, Suite 4000  
 Cambridge, Massachusetts 02140  
**Phone:** (617) 354-0167  
**Fax:** (617) 354-1542  
**E-mail:** [bwright@camsys.com](mailto:bwright@camsys.com)