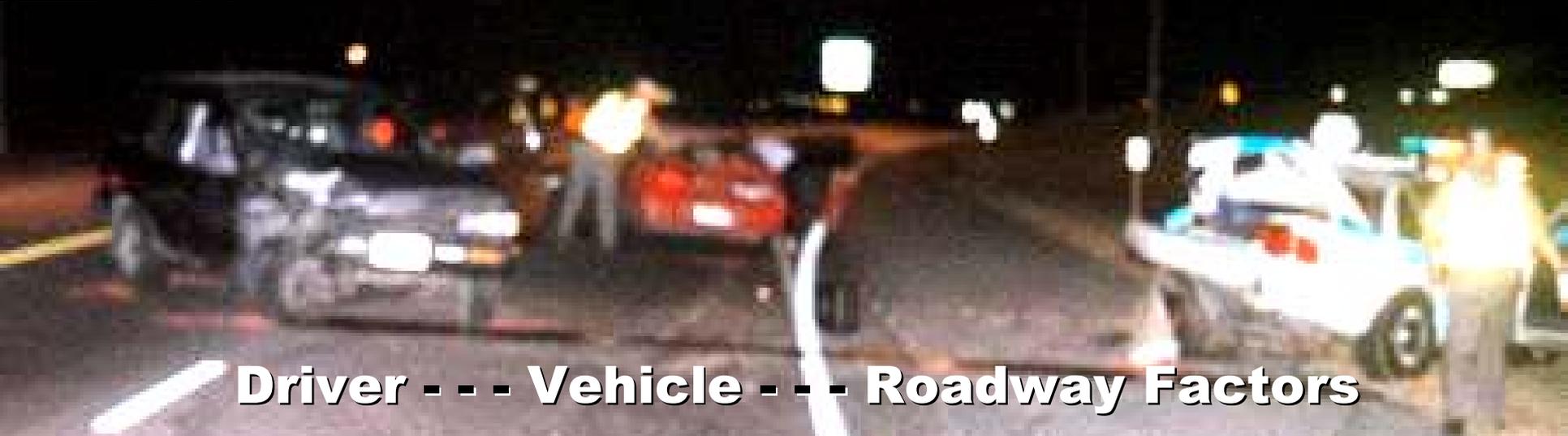




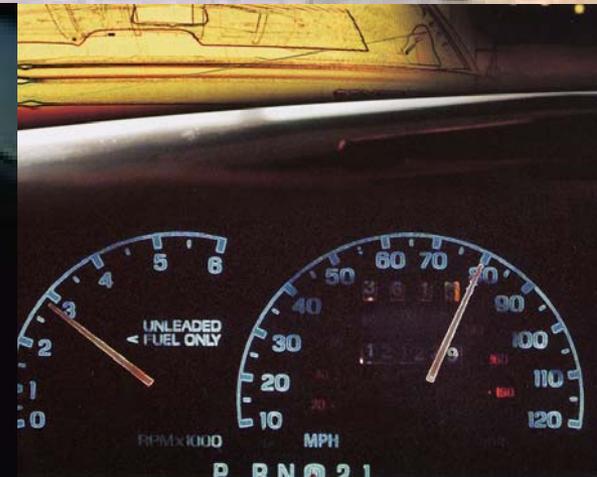
Saving Lives!

Highway Safety Performance Measures

~ Data ~



Driver - - - Vehicle - - - Roadway Factors



TRCC Agenda

9:30am-Noon: Conference Room A/B - ConnDOT Hdgts

August 19, 2009

Intros



In the News / Data

National TR Forum ... Phoenix ... Best Practices

Update since June TRCC Mtg

~~~~~ Safety Data Improvement Grants ~~~~~

3rd Year – Objectives that remain ... funds must be spent by Sep 30th

4th Year – Preparing the HS-1s ... start-up spending Oct 1st

5th Year – Section 408 application?

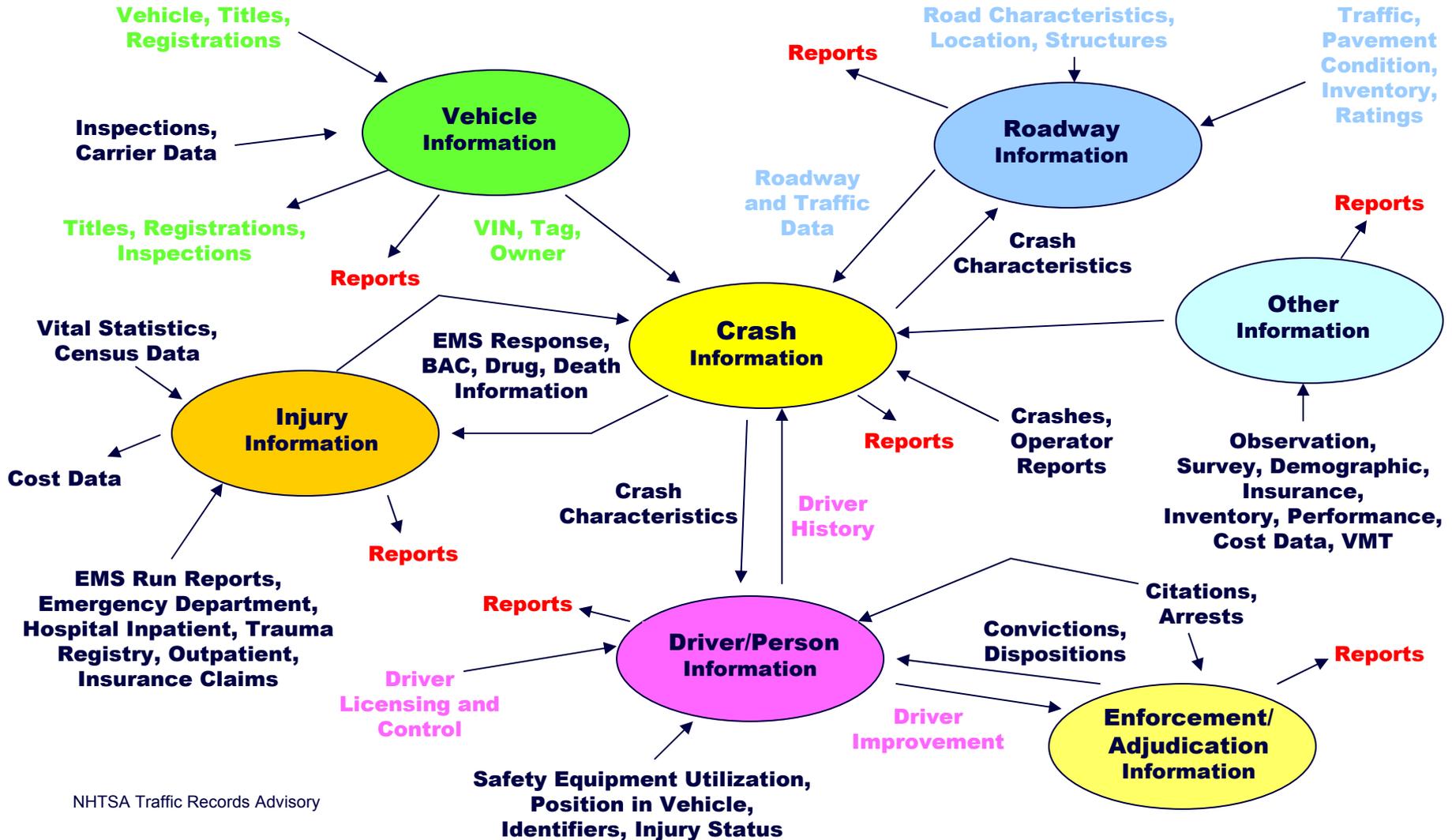
Websites ... System Dev(s) ... Other Efforts

Upcoming Meetings – GHSA ... IACP

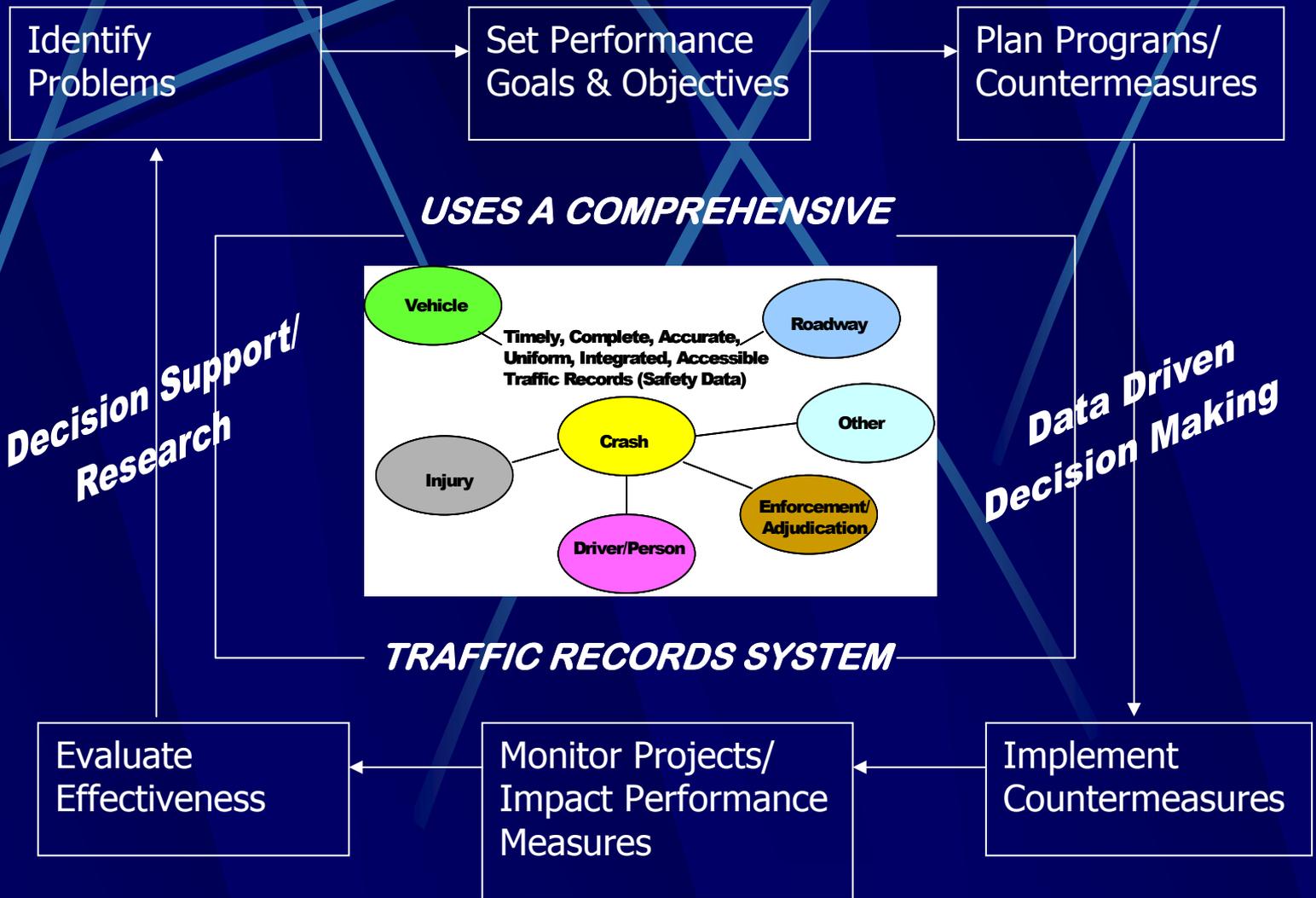
Next TRCC Mtg – Sep 23, 9:30-Noon Conf Room B, ConnDOT

Traffic Records / Safety Data System

Timely, Accurate, Complete, Uniform, Integrated, Accessible



Mgmt Approach to Trans Safety





Texting and Driving Don't Mix

Cellphone Task

.....
Heavy Vehicles/Trucks



Risk Factors	Risk of Crash or Near Crash
<ul style="list-style-type: none"> ● Dialing cellphone 	5.9 times as high as non-distracted driving
<ul style="list-style-type: none"> ● Talking/listening to cellphone 	Same as non-distracted driving
<ul style="list-style-type: none"> ● Using/reaching for electronic device 	6.7 times as high as non-distracted driving
<ul style="list-style-type: none"> ● Text messaging 	<div style="background-color: black; width: 20px; height: 10px; display: inline-block;"></div> times as high as non-distracted driving

FMCSA Study – Virginia Tech Transportation Institute Researchers analyzed commercial trucking data from 2004 to 2007, involving 203 truckers and 3 million miles of driving



Texting and Driving Don't Mix

Cellphone Task

.....
Heavy Vehicles/Trucks



Risk Factors	Risk of Crash or Near Crash
● Dialing cellphone	5.9 times as high as non-distracted driving
● Talking/listening to cellphone	Same as non-distracted driving
● Using/reaching for electronic device	6.7 times as high as non-distracted driving
● Text messaging	23.2 times as high as non-distracted driving

FMCSA Study – Virginia Tech Transportation Institute Researchers analyzed commercial trucking data from 2004 to 2007, involving 203 truckers and 3 million miles of driving

text to the top of the class



▶ Get it now

Message like you mean it.

- **Text faster** with a full slide-out keyboard
- **Dial easily** with a large touch screen display
- **Connect** to the mobile Web, email, search, social apps and more



35th International Forum on Traffic Records & Highway Safety Information Systems – <http://www.atsip.org>



- **Best Practices Award IN ... Timing for CT for 2010 Challenge**
- **Application Form**
- **Comments from NHTSA Administrator – White Paper on Performance Measures**
- **NHTSA – GHSA Listening Session**
- **USDOT-TRCC / ATSIP – State TRCC Working Group – Link to CT**
- **Presentations from Forum to be Made Available**

National T-Records Forum

Safety Data System



Comments from Acting Deputy Administrator for NHTSA – Ron Medford

- Timely, accurate, and accessible data, is the lifeblood of our safety work – NHTSA and our sister agencies at the USDOT could not do our work without it!
- The count of highway fatalities and injuries in the U.S. for calendar year 2008 ... 37,000 deaths and 2.4 million injuries ... represents the lowest number of deaths since 1961 and the lowest mileage fatality rate since we have been keeping statistics.
- We've set goals to ensure we keep those numbers moving in the right direction.
- I'm thrilled how truly international this year's gathering is -- with representatives from Viet Nam, Argentina, Indonesia, India, Jordan, and Kenya.
- These delegates from public health, transportation and public safety met for a "pre" conference data workshop yesterday to discuss common approaches to establishing and improving highway safety data in their countries.
- **We all believe that data is the foundation of highway safety, and that data will continue to drive our actions as we move forward!**

National T-Records Forum

Safety Data System



Comments from Acting Deputy Administrator for NHTSA – Ron Medford

- To continue moving in this direction NHTSA, through our contractor, PRG, and the Governors' Highway Safety Association (GHSA), recently released a white paper proposing Traffic Safety Performance Measures for State traffic records systems.
- Our objective is to provide a standard basis to measure improvements in state traffic records systems – Feedback from Connecticut ... by 1st week in Sept
- As we move forward and continue our efforts to improve the quality of our data, there are areas in which we need help from the states
- Currently, NHTSA has crash data files from 33 states that we have converted into formats that we use for our internal research. At this point, we can only use these data files independently. Think of the research we could perform - **if all of these data files could be standardized and combined.**
- Only nine states include files in which we have enough consistent - **Vehicle Identification Number (VIN) data** - to support analyses where we are interested in specific vehicle types. This limitation severely restricts the number of analyses we can do in support of our vehicle safety program.

Feedback: White Paper - Model Performance Measures for State TRS



Feedback from Connecticut – White Paper at www.ghsa.org

Click on link ... Comments on Proposed Traffic Records Performance Measures

- Minimum Guideline for Performance Measures - good idea/ should be up to states to set their own performance goals
 - ❖ Performance measure – The average, percent, number or other measure of improvement anticipated ... i.e., the % of crashes entered into the file within 30 days of the crash
 - ❖ Performance goal – Measurable objective to improving the performance of a data system ... 95% of crashes will be entered into the State file within 30 days of the crash
- Commenting on the 6x6 matrix of performance areas/core data systems, CT has been aware of, discussed and applied related improvements based on the matrix for years
- For interim progress report, CT used a performance measure for crash/completeness, number of LRPDOs entered into the Crash File, which was not contained in the table of 58
- Refer to table of 58 (6x6 matrix) for recommendations for Citation/Adjudication – Timely, Accurate, Complete, Uniform, Integrated, Access ...
 - ❖ Build in basis of performance goals for 4th Year 408 – for eCitation initiatives

Feedback: White Paper - Model Performance Measures for State TRS



Feedback from Connecticut – White Paper at www.ghsa.org

Click on link ... Comments on Proposed Traffic Records Performance Measures

Actions recommended in White Paper – extending beyond the performance measure matrix

- 1) Each state should establish a statewide traffic citation reporting system – Heading into this 4th year of the Section 408 program, the e-Citation has become a major focus for CT.
- 2) Model minimum data elements, definitions, and protocols for traffic citation and adjudication data systems should be developed – Agree. Good goal; like MMUCC for traffic crash data – however; could be difficult to achieve – many hurdles.
- 3) Each State should establish a common set of identifiers (link keys) to enable records on different files to be linked – CT has been promoting linkage data elements. Recently, the TRCC discussed data file linkage and access, which are closely related. Both raise broad issues of individual privacy and the use of personal identifiers.
- 4) Each State should conduct data audits of its traffic safety data systems – While audit procedures have not been established, CT's 2007 Assessment did focus on the quality of the State's data. Also, a 2004 Assessment included ratings of data quality by users pertaining to Driver, Vehicle and Enforcement/Adjudication information ('03 TCAS Study).

Feedback: White Paper - Model Performance Measures for State TRS



Performance Measures ... Feedback from Connecticut (continued)

- We understand that the responsibility for improving performance measures in one data system may be the responsibility of officials in another system ... Example – the timeliness of conviction information being added to the Driver File – largely dependent on Courts.
- Observation concerning the TRIPRS (TR Improvement Program Reporting System) – This year CT was able to use the data improvement projects clearinghouse (public view of 900+ projects nationwide) in formulating its 4th year Section 408 application.
- Other measures for feedback ...
 - ❖ Taking into account null codes (not available, not recorded) and missing data for completeness measures
 - ❖ Determining time periods to be measured, i.e., calendar year and choosing a date for measurement, i.e., April 1 of the following year (easy to understand, timely)
 - ❖ Measuring accessibility – the degree to which a system’s principal users can obtain information readily and easily from the file

Previous

Safety Data System



Meetings

Recap/follow-up from June TRCC Meeting

- Section 408 Application - Notebook
- Approval for 408 Funding - Early Prep involving HS-1s

TRCC Website - Email

- Ongoing Safety Data Project Update
- Proposed 4th Year Section 408 Application - Projects & Funding
- Updated Strategic Plan

Working Meetings

- E-Crash ... Accident Records/TSS/DOT
- E-Citation ... Judicial, CIB, Captain/CRCOG, State Police/NexGen, TSS/DOT

Comments/feedback regarding Performance Measure white paper
Comments/feedback regarding Miller – Roadway paper

Alternative Funding Sources for Traffic Records Improvements

- Section 1906 funds - TRS improvements, provided racial profiling module included
- Section 148 HSIP funds - Crash records improvements, provided ability to identify eligible roads for HSIP projects

4th Year 408 Application



State of Connecticut Application for Section 408 Safety Data Improvement Funding

June 2009

408 Safety Data Improvements

Connecticut Application



408 Package submitted 6-15-09

Letter to Region Administrator

Certification by Governor's Highway Safety Representative

TRCC Notes - Approval of Plan

Strategic Plan - Projects - How Funds to be Used to Address Needs

Strategic Plan - Progress Achieved by Project

Traffic Records Assessment

Letters of Delegation - Updated TRCC Roster

PR1 - MMUCC Memo, Statement & Data Element Comparison

EMS PCR Reporting - NEMSIS Letter

State of Connecticut

Strategic Plan

for

Traffic Records

June 2009



CT-TRCC

Connecticut - Traffic Records Coordinating Committee

Safety Data System

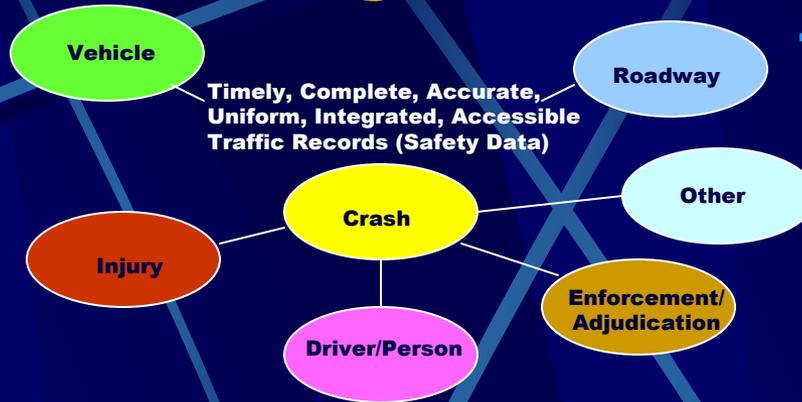


4th Year Section 408 Application

2009 – 2010

- * **E-Citation Processing System**
- * **E-Payment Processing System**
- * **E-Citation Local Law Enforcement Pilots**
- * **E-Patient Care Reporting System**
- * **E-PR1 to DOT/GPS-GIS
Crash - Roadway - ADT Linkage**

4th Year Safety Data Projects



- Preparing the HS-1s ASAP
- Projects starting up on October 1

4th Year (Oct '09 – Sep '10)

Electronic Citation Processing System



This project will continue the development of the back-end process for the electronic capture of citation data by law enforcement. The electronic capture and direct transfer of citation data from respective law enforcement servers to the CIB database will significantly improve citation data processing time and accuracy.

It is expected that an Electronic Processing System will create efficiencies in several areas. In Phase One of the pilot, officer handwriting is replaced by type-written characters, therefore eliminating some entry errors. Fewer entry errors will result in less exception processing. Less exception processing would improve the timeliness of down stream processing transmissions to the courts and the DMV. Phase Two of the project would further minimize data entry, key stroke errors, exception processing and dissemination of data.

Expected Impact -----

- Improved *timeliness* of receipt of citation data by CIB from law enforcement
- Improved *timeliness* of the availability of the citation data to the courts
- Improved *accuracy* and *completeness* of collected and submitted citation data

4th Year (Oct '09 – Sep '10)

Electronic Payment Processing System

** Complements the Electronic Citation Processing System **



This project involves the creation of an application that enables the receipt by the Centralized Infractions Bureau (CIB) of electronic payment of all infraction tickets issued in the State of Connecticut.

The disposition of infraction matters where drivers intend to plead nolo and pay their tickets will increase the timeliness and accuracy of this current somewhat manual process. Drivers would also be able to access the system to enter pleas of not guilty without the delay of mailing and human resources for processing.

This project will create a web-based automated system to electronically accept credit card payments via the Internet for infractions and certain payable violations.

The CIB currently processes approx. 435,000 tickets annually resulting in \$30 million to the State. The initial volume of credit card payments is estimated to be 64,000 cases per year; however, this would likely increase as more customers become aware of the web-based payment option.

4th Year (Oct '09 – Sep '10)

Electronic Payment Processing System

** Complements the Electronic Citation Processing System **



(Continued)

Giving defendants the option to pay their tickets through the Internet will result in quicker payments to the State with less manual processing by staff at CIB. This will provide the potential to dispose and transfer payment to the Treasurer within days of issuance of the ticket when combined with the e-Citation Processing System project.

Expected Impact -----

Improved *timeliness* of the receipt of payment and or transfer to courts via electronic not guilty plea

Improved *timeliness* of disposition of cases and transmission of revenue to State Treasurer

Improved *accuracy* of payments, and Improved customer service

A request for proposal (RFP) has been drafted and is waiting processing in Judicial Purchasing for a web-based automated system to electronically accept credit card payments via the Internet.

4th Year (Oct '09 – Sep '10)

E-Citation Pilots for Local Law Enforcement



This project will continue the roll out of e-citation systems in local law enforcement agencies. Software has already been procured for the existing e-citation effort and printers and scanners will be installed in police vehicles shortly. This project will expand the e-citation effort to additional law enforcement agencies in Fairfield and New Haven counties.

The requested grant funds will be used to purchase mobile printers and handheld scanner hardware for law enforcement vehicles within the selected municipalities.

It is anticipated that this grant will support 250 to 300 additional e-citation equipped law enforcement vehicles in the State. Once vehicles are equipped with the required hardware, law enforcement personnel will use CAPTAIN and e-citation software developed under the first phases of the related project to electronically upload collected citation data to the centrally located CRCOG server.

The CRCOG server will then upload the citation data electronically to CIB. Current efforts are ongoing to complete e-citation templates, XML schema, statute files, security and networking.

4th Year (Oct '09 – Sep '10)

E-Citation Pilots for Local Law Enforcement



(Continued)

Collection and submission of citation data in the paper oriented manual form is largely an inefficient process. The use of the e-citation software will reduce data input errors and improve the completeness of the collected data. It should also improve police officer efficiency by reducing the amount of time that the officer spends collecting citation data and decrease the time it takes this data to be received by the courts.

The CRCOG server interface will provide linkage for law enforcement for querying driver licensing and vehicle data as well as provide a secondary linkage to emergency responders (i.e., EMS, fire, etc.)

After law enforcement in the participating towns is provided the requisite equipment and software, training will be completed.

Expected Impact -----

Expanded management information and targeted enforcement in equipped municipalities

Improved **timeliness** of the availability of citation data to the courts

Improved **accuracy** and **completeness** of collected and submitted citation data

4th Year (Oct '09 – Sep '10)

EMS Patient Care Reporting System



The project provides for the purchase and distribution of Toughbook laptops to EMS providers in Connecticut. Computers are provided contingent upon an EMS provider acquiring NEMSIS gold standard compliant Patient Care Reporting (PCR) software to be used to collect patient care data for all patients transported to the Emergency Department.

PCR data is being analyzed to determine the level of patient care provided and how care might be improved.

Expected Impact ----- Refer to Interim Progress Report -----

- Continued increase in the number of **electronic EMS PCR records submitted** – as of July 2009, the number submitted to-date and contained in the EMS database server – 250,000+ records from 155 EMS providers
- Increased percentage of EMS PCR records that provide for the collection of **Gold NEMSIS compliant** data elements. The number of NEMSIS data elements captured for each PCR will depend on the seriousness of the call for service
- Improved **linkage** of electronically collected EMS data to ED and inpatient hospital discharge data to obtain outcome and diagnosis data to improve the quality of EMS care

Interim Progress Report

"Yes Memo"

Safety Data System



Submitted March 1, and again April 2, 2009

Basis for determination that Connecticut demonstrated measurable progress toward achieving goals and objectives identified in the Strategic Plan.

Statement – Connecticut has achieved a major milestone toward qualifying for award of a Section 408 subsequent year grant in fiscal year 2009.

-- Crash Completeness (CT-M-00001)

- **Local road PDO crash reports entered** into ConnDOT crash records system

Completed 2007 CY - 35,258; 2008 CY – 15,144 as of April 2009

-- Crash Accuracy (Rdwy Core System – 2007 Strategic Plan)

- **Road miles geocoded** by ConnDOT allowing conversion from GPS to route and cumulative miles and matched with PR-1s to improve crash location

Completed 2,000 miles as of February 2009

-- EMS Patient Care Report Completeness (CT-M-00018)

- **Electronic PCR's submitted** and entered into the DPH/OEMS database

Totaled 190,993 PCR's as of April 2009

4th Year (Oct '09 – Sep '10)

E-Crash Rept to DOT/GPS-GIS/File Linkage



Phase I of this project provided for the development of an electronic version of the PR-1 to be used to replace the present DCR system; and a crash data processing system that would receive PR-1 crash data in an electronic format.

Phase II of this project provides for the development and implementation of a crash location reference system.

Phase III involves the development of a PC database system that has the same functional capability as the existing mainframe system. This capability includes the ability to input crash data from hardcopy, edit entered data, generate reports and complete ad hoc queries and integrate data from other data files such as roadway and ADT files with the crash file.

The current mainframe accident file was established in 1995, the result of a revision to the PR-1 form. The file currently resides on tapes in ASCII format. No applications have been developed to read this file, and no relational database file exists to allow ConnDOT to perform ad hoc queries. The file is converted to the pre-1995 format to produce reports.

Expected Impact ----- Refer to Interim Progress Report -----

- Improved *accuracy* of crash location data
- Improved *completeness* of crash data through entry of PDO crash data, increasing the total number of local road PDO crash reports entered onto the ConnDOT crash file
- Improved *integration* of crash data with roadway and ADT files

5th Year Safety Data Projects



- Performance Measures/Strategic Plan
- Traffic Records Assessment – 2 Years Later
- Safety Data Projects (Best Practices) Nationwide
- Application will probably be due by Jun 15, 2010
- Apply new Performance Measure Guidelines
- **Crash Data Repository (CDR)**

Safety Data (TR) Projects

5th Year

Safety Data System



Crash Data Repository

The purpose of this project is to provide members of the traffic-safety community with timely, accurate, complete and uniform crash data within 30 days of the crash event, by creating a State Crash Data Repository (CDR). **The CDR will be designed as an enterprise system and will utilize web services technology.** This will allow agencies that capture electronic PR1 data to submit electronically to the repository, via a system interface. It would also provide a mechanism for agencies without an electronic PR1 to enter such data via a secured web portal.

Currently, the State has two disparate crash repositories: one at the DPS and one at the DOT. **In addition to two large scale repositories, there are numerous small scale repositories retained at local police departments throughout the State.**

Creating an enterprise-level Crash Data Repository will eliminate the problems that have resulted from having several disparate crash repositories.

This project will focus on designing and building the initial CDR that will allow law enforcement agencies to submit electronically collected crash information as per XML specification standards , and will make the crash data available to authorized agencies at the State and Local level.

Basis for 408 Projects



- emails, phone calls, website, past TRCC meetings, 408 application, and

Traffic Records Assessment

Tracking of 900+ Section 408 Projects

Ex - Word File with Hot Links to CT & UT Projects

Refer to Searchable NHTSA Project Website
by State and Title

First three years (2006-2009) in the U.S.

Electronic Citation System

CAPITOL REGION COUNCIL OF GOVERNMENTS (CRCOG)

'Pilot' Project Review

February 27, 2009



CRCOG Electronic Citation System

Convert the citation issue and processing from paper to electronic records

- Electronically capture data, prepare and print a citation document in the field
- Electronically transmit the citation data from the mobile police unit to the e-Citation host server provided by CRCOG
- Forward the citation data from CRCOG to local police departments that originate the citations
- Forward the electronic citation data from CRCOG to the Judicial Department's Central Infractions Bureau.



CRCOG Electronic Citation System

The electronic citation application will provide the following:

- Electronically capture data, prepare and print a citation document for the violator
 - Ability to reference the motor vehicle statute files maintained by the State of Connecticut Judicial Department but maintained as part of the CAPTAIN database services.
 - Swipe or scan operator license information from crash participants and/or violators.
 - Electronically integrate DMV operator and registration information to the citation record using a XML integration with existing CAPTAIN query facilities now operating in the police vehicles
- Electronically transmit the citation data from the mobile police unit to a database server provided by CRCOG, where it will be stored and used to support further processing of the citation record
- Forward the electronic citation data in an approved XML format from CRCOG to the Judicial Department's Central Infractions Bureau
- Forward in an approved XML format, the electronic citation data from the CRCOG database server to local police departments that originate the citations for updates to local or regional records management systems.
- Optionally (in pilot phase 2), the citation system will provide a means for local police officers to print parking tickets and local ordinance violation in the second phase of the project.



E-Citation System Components

- Mobile units for data capture and citation printing
 - SMART e-Citation application software (on existing mobile laptop computers)
 - Printer for citation issue
 - Bar code scanner for driver's license
- Data communications
 - CAPTAIN/CRCOG network for sending citations from mobile to the server
 - State data network for transfer of citation records to Judicial
- Central host and data processing
 - SMART e-Citation application software on central server
 - SMART message switch and workflow control
 - Send citation records to CT Judicial
 - Send citation records to local police agencies



e-Citation Field Process

- Officer secure login via Bluelink/CAPTAIN (existing system)
- Name and vehicle searches via CAPTAIN
- Citation data entry
 - Individual citation numbers issued by CRCOG citation server from the authorized range of numbers issued to CRCOG by CT Judicial IB
 - Manual keyboard entry
 - Electronic data entry (data from searches or from bar code scan)
 - Error checking in the data entry form prior to printing citation
 - Use of only authorized data tables (i.e. infraction code, vehicle)
- Print citation
 - Print preview on screen
 - Document printed in approved format
 - Offender copy and officer copy



e-Citation Host Process

- Citation record transmitted via CAPTAIN from field unit to CRCOG host
- Police Dept. review and approval
- Transmit citation records to CT Judicial Infractions Bureau
- Transmit citation records to Police Dept RMS
- Audit trail maintained on CRCOG citation server
- Management reports



SMART e-Citation Software

- Easy to use Windows graphic user interface
- Alpha look-up for long data entry tables (infractions, vehicle, etc.)
- Data entry error checking
- Citation logic check based on approved guidelines
- Help prompts
- Print preview
- Repeat function (multiple citations to one offender)



Pilot Project Schedule

- **All dates subject to completion of tasks by SMART PSS, CRCOG, and CT Judicial**

Item	Milestone	Estimated
1	Project plan, solution definition completed	August 2009
2	E-citation mobile software delivered for 'beta' review and CRCOG approval	September 2009
3	E-citation pilot mobile software delivered for installation	October 2009
4	E-citation system pilot in operation at CRCOG	November 2009



Schedule Implications

- The schedule is dependent on the timely assignment and participation of resources from SMART, CRCOG, and the State.
- Final decisions related to citation data fields, business rules, and process issues must be made in August 2009.



Preview of E-Citation Field Software

- SMART Public Safety Software – E-Citation software for use in the field by CRCOG member PD's
 - A flexible and configurable application designed for field use
 - Will be tailored to the CRCOG and CT Judicial requirements
 - Operates on the existing computers and mobile communications in CRCOG member PD vehicles
 - More efficient issuing and processing of citations with fewer errors
 - Citation data transmitted electronically to CRCOG / CT Judicial CIB

Note: The following E-Citation screens are samples. The final version of E-Citation will be modified to fit the citation requirements to be defined by Connecticut Judicial for this project.



News	F2 Dispatch	CAD Query	F3 Message	F4 Inquiry	F5 Qwik Plate GT-123	F6 Report	Stops	Map	ESC Suspend	F10 Quit
------	-------------	-----------	------------	------------	-------------------------	-----------	-------	-----	-------------	----------

- Vehicle Search
- Name Search
- Citation Search
- Citation Entry
- Print Citation
- Configuration
- Exit eCitation

Citation Entry Screen

Ticket Number: N70894-3

Demographics License/Vehicle Specifics Infractions/Fines Notes Final

DRIVER'S LICENSE: DL123456CT IF BOATING CERTIFICATE NO. DRIVER'S LICENSE STATE: CT

REG NO: REGNO1234567 IF BOAT REG NO. VEHICLE STATE: CT MAKE: FORD MODEL: PROBE STYLE: 2D YEAR: 1999 COLOR: RED

OWNED BY (Last, First, Middle Initial): SMITH DAVE

ADDRESS (Number and Street): 4321 OAK ST CITY: HARTFORD STATE: CT

Buttons: Save Citation, Close, Preview Citation, Print Citation

Sample:
eCitation mobile
client software
integrated with
Bluelink



E-Citation in the field

- Record data, print citation, transmit citation records to CRCOG citation host
- Tailored to CRCOG needs
- Integrated with CAPTAIN and Bluelink in the vehicle
- Integrated with bar code scanner and citation printer
- Easy to use, touch screen configurable

eCitation

Vehicle Search

Name Search

Citation \$

Press this button to start a new Citation entry

Citation Entry

Print Citation

Configuration

Exit eCitation

Network is: **Connected**

Today is Friday, February 27, 2009 6:20:44 PM

- Person and vehicle searches integrated with Captain/Bluelink
- Selected search data inserted in the citation forms

eCitation

Vehicle Search

Name Search

Citation Search

Citation Entry

Print Citation

Configuration

Exit eCitation

Name Search Screen (* Required field)

Name (L*, F*, M)

SMITH

TOM

Submit Search

Close

Driver's License*

DL123456CT

Network is: **Connected**

Today is Friday, February 27, 2009 6:09:35 PM



E-Citation in the field

- Citation tailored to CT requirements
- Logical data entry
- Error checking built-in

eCitation

Vehicle Search

Name Search

Citation Search

Citation Entry

Print Citation

Configuration

Exit eCitation

Citation Entry Screen

Ticket Number

Demographics License/Vehicle Specifics Infractions/Fines Notes Final

COMPLAINT TICKET. The undersigned officer complains that: PD Case No

<input type="button" value="Now"/>	ON <input type="text" value="02/27/2009"/>	AT <input type="text" value="18:10"/>	IN <input type="text" value="HARTFORD"/>	TOWN CODE <input type="text" value="001"/>
------------------------------------	---	--	---	---

NAME (Last, First, Middle Initial, Suffix)

ADDRESS (Number and Street) CITY

STATE <input type="text" value="CT"/> ▾	ZIP+4 <input type="text" value="11111-2222"/>	DOB <input type="text" value="01/01/80__"/>	RACE <input type="text" value="W"/> ▾	SEX <input type="text" value="M"/> ▾
--	--	--	--	---

Network is: **Connected** Today is Friday, February 27, 2009 6:10:39 PM

•NCIC and CT Judicial data standards

eCitation

Vehicle Search
Name Search
Citation Search
Citation Entry
Print Citation
Configuration
Exit eCitation

Citation Entry Screen

Ticket Number

Demographics License/Vehicle Specifics Infractions/Fines Notes Final

DRIVER'S LICENSE IF BOATING CERTIFICATE NO. DRIVER'S LICENSE STATE

REG NO. IF BOAT REG NO. VEHICLE STATE MAKE MODEL STYLE YEAR COLOR

OWNED BY (Last, First, Middle Initial)

ADDRESS (Number and Street) CITY STATE

Network is: **Connected** Today is Friday, February 27, 2009 6:11:41 PM



eCitation

Vehicle Search
Name Search
Citation Search
Citation Entry
Print Citation
Configuration
Exit eCitation

E-Citation in the field

- Logical data entry
- Error checking built-in

Citation Entry Screen

Ticket Number

Demographics License/Vehicle **Specifics** Infractions/Fines Notes Final

ON (Street or Highway; If intersection, specify)

TRUCK (14-260n) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	OVER 15% OVERWEIGHT <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	ACTUAL SPEED <input type="text" value="70_"/>	POSTED SPEED <input type="text" value="55"/>
ICC/DOT # <input type="text" value="ICCNUMER"/> <input checked="" type="checkbox"/> ICC <input type="checkbox"/> DOT	18,000 LBS. OR MORE <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	ROAD <input type="text" value="D"/> ▾	TRAF <input type="text" value="H"/> ▾
COMMERCIAL/HAZMAT. MAT. <input type="checkbox"/> CDL <input type="checkbox"/> CV <input checked="" type="checkbox"/> HM		VIS <input type="text" value="D"/> ▾	AREA <input type="text" value="SCH"/> ▾
			ANSWER DATE <input type="text" value="02/27/2009"/>

Network is: **Connected** Today is Friday, February 27, 2009 6:12:50 PM



E-Citation in the field

- CT infractions and fines
- Searchable data entry pick lists
- Multiple infractions and counts

eCitation

Vehicle Search
Name Search
Citation Search
Citation Entry
Print Citation
Configuration
Exit eCitation

Citation Entry Screen

Ticket Number: N70894-3

Demographics License/Vehicle Specifics **Infractions/Fines** Notes Final

did commit the following INFRACTION(S)/VIOLATION(S)

		STAT./ORD. NO.	AMOUNT
1.	SPEED-GREATER THAN 70	14-219(C)(1)	\$120.00
2.	STOP SIGN-FAILURE TO OBEY	14-301	\$124.00
3.	SPEED		
4.	Speed-below limit to allow passing		
5.	Speed-greater than 70		
6.	Speeding violation-limited access highway		
7.	Speed-in a school zone		
8.	Speed-in a construction zone		
9.	Speed-by a truck in a construction zone		
10.	Slow speed		
			TOTAL DUE
			\$244.00

Save Citation Close Preview Citation Print Citation

Network is: **Connected** Today is Friday, February 27, 2009 6:13:37 PM



E-Citation in the field

- Record officer notes
- Preview citation before printing
- CT Judicial approved citation is printed

eCitation

Vehicle Search

Name Search

Citation Search

Citation Entry

Print Citation

Configuration

Exit eCitation

Citation Entry Screen

Ticket Number

Demographics License/Vehicle Specifics Infractions/Fines **Notes** Final

[Check spelling](#)

SOME NOTES ON THE TICKET. SAW THE DRIVER WEAVING IN AND OUT OF TRAFFIC.

Save Citation Close Preview Citation Print Citation

Network is: **Connected** Today is Friday, February 27, 2009 6:14:39 PM

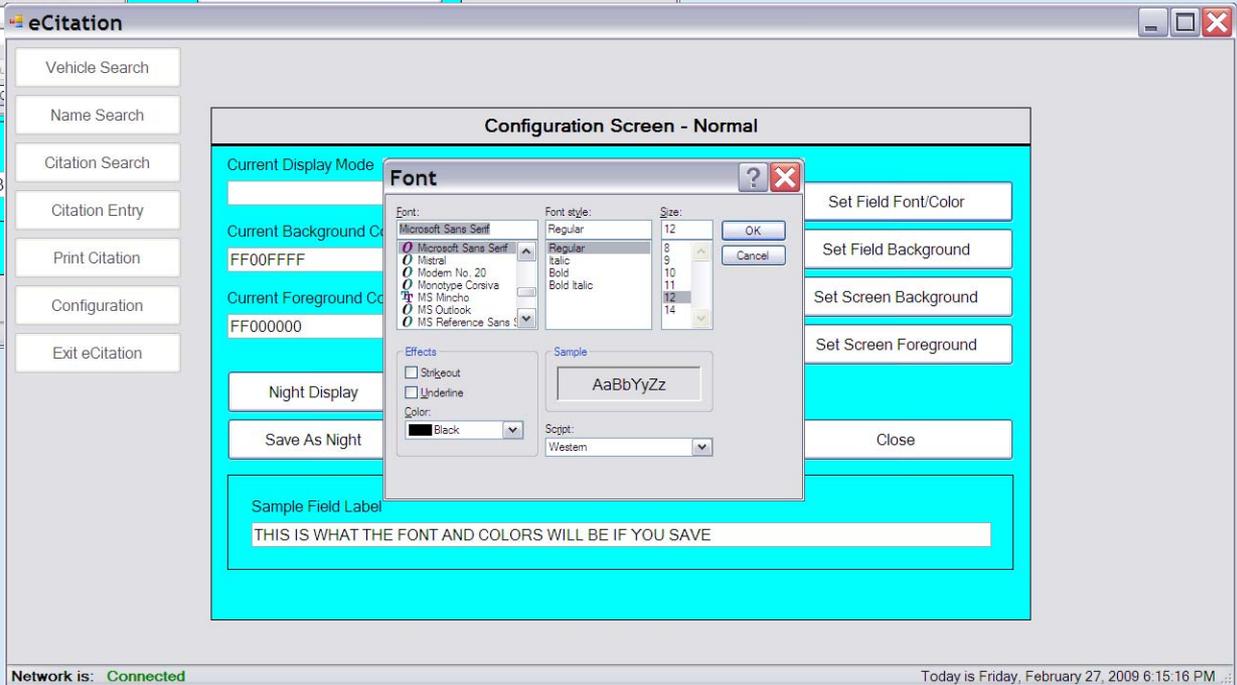
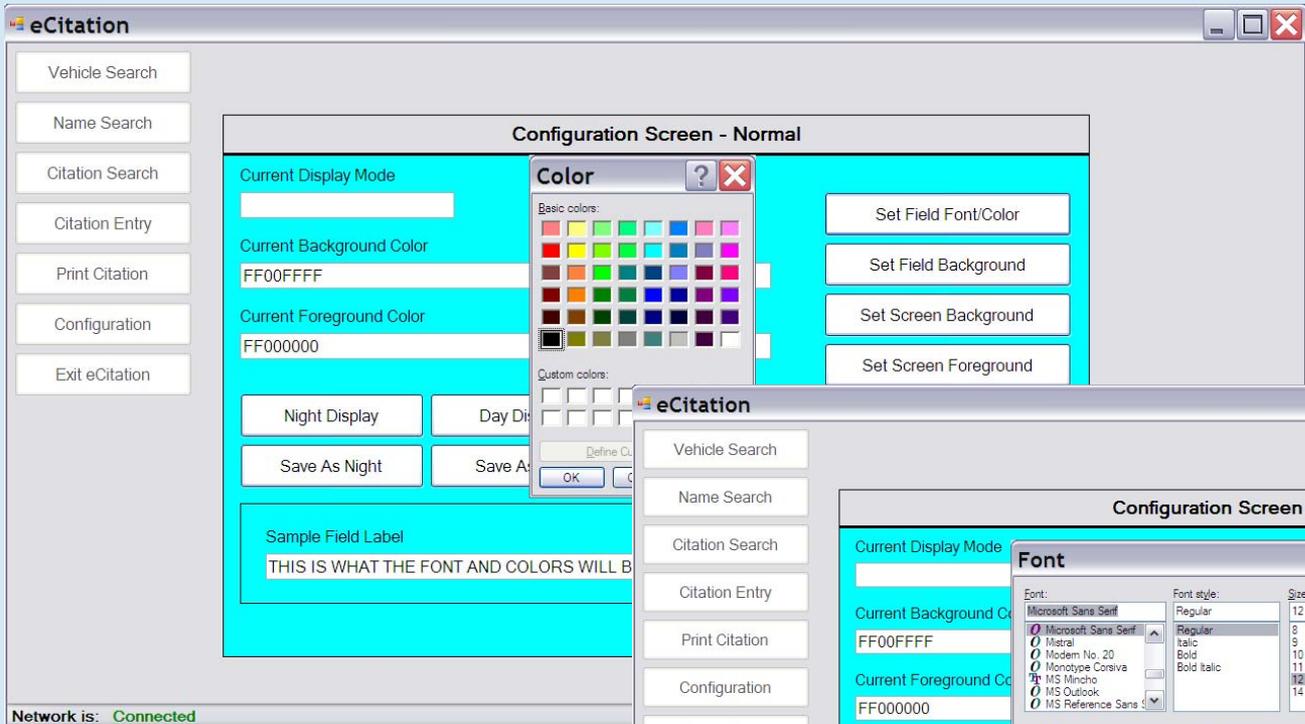
Configurable display for varied computers in the field.

The screenshot shows the eCitation software interface. On the left is a vertical menu with buttons for Vehicle Search, Name Search, Citation Search, Citation Entry, Print Citation, Configuration, and Exit eCitation. The main area displays a 'Configuration Screen - Normal' dialog box. This dialog has a cyan background and contains the following elements:

- Current Display Mode:** A text input field.
- Current Background Color:** A text input field containing 'FF00FFFF'.
- Current Foreground Color:** A text input field containing 'FF000000'.
- Control Buttons:** 'Set Field Font/Color', 'Set Field Background', 'Set Screen Background', and 'Set Screen Foreground'.
- Display Mode Selection:** Three buttons: 'Night Display', 'Day Display', and 'Normal Display'.
- Save Options:** Three buttons: 'Save As Night', 'Save As Day', and 'Save As Normal'.
- Close Button:** A 'Close' button.
- Preview:** A section titled 'Sample Field Label' with a text input field containing 'THIS IS WHAT THE FONT AND COLORS WILL BE IF YOU SAVE'.

At the bottom of the window, the status bar shows 'Network is: Connected' on the left and 'Today is Friday, February 27, 2009 6:15:16 PM' on the right.

Configurable display for varied computers in the field.



CRCOG e-Citation Workflow

- Optional material for the presentation
- The following slides contain a more detailed outline of the e-Citation process and workflow
- The workflow may be adjusted based on the results of using the system during the pilot period.

e-Citation Workflow page 1

1. Officer observes potential infraction; stops offender, enter registration data & collects ID data
2. Officer submits queries through CAPTAIN: person, vehicle. Results returned to officer's mobile data computer
3. Officer determines a citation should be issued and opens the eCitation software forms.
4. The eCitation application controls the issue of the citation number from an authorized batch of CT Judicial numbers managed by the central citation server. The citation number is issued by the citation server when the officer initiates the preparation of a new citation. This is an automated task that will occur without officer intervention, as long as the officer is 'logged in' to CAPTAIN and is an authorized user of the Citation system. The citation number will be electronically inserted into the new citation record and cannot be changed by the officer.
5. Information returned to the CAPTAIN query will be optionally transferred (officer controlled) to the eCitation form; data items could include:
 1. Driver Info – OLN, Name, DOB, Address, Sex, and perhaps Height and Weight
 2. Vehicle Info – Registration, VIN, Make, Model, Color, Automobile Type,
 3. Vehicle Owner – Name, DOB, Address
 4. GPS Coordinates – if GPS data is available from the mobile unit data
6. Officer completes citation data entry
 1. Event
 2. Person (option to use data from scan of CT operator license)
 3. Vehicle
 4. Infraction
 5. Narrative (option to complete this later)
7. The eCitation software performs a quality check of the citation record and advises the officer if corrections or additions are needed to complete the citation record.

e-Citation Workflow page 2

8. After data is entered, the officer examines the citation in print preview; if the citation is accurate, the officer approves the citation and the offender copy is printed in CT Judicial format. Note: In the event of a failure to print a citation properly (printer error, paper malfunction, etc.), the officer will be able to re-submit the citation for printing.
9. After the citation is approved and printed by the officer, no changes to that citation can be made by the officer in the field.
10. Issued citation records are retained (as electronic copies) for reference only on the mobile unit until the end of the officer's shift or when he ends his session on CAPTAIN.
11. The eCitation application will include a function known as "clone recent" that enables the officer to replicate selected portions of a recently issued citation to simplify the creation of another similar citation..
12. After a citation is issued, a background process transmits the citation record to the eCitation data server at CRCOG. The mobile device is notified via background process by a CRCOG host acknowledgement that the record was successfully received and the mobile record is updated.
13. The Citation system will use a data communication protocol that will validate that messages and citation records sent between the mobile client application and the citation server are received successfully. If a citation record fails to transmit successfully, the mobile eCitation application and the eCitation server will repeat the records transmit using a background process that is transparent to the officer.
14. When citation records are received at the CRCOG Citation server, they are selectively placed in a pending queue – awaiting supervisory review and approval. As part of the Citation server software configuration, each CRCOG police department has the option to indicate whether that department wants to conduct supervisory reviews of citations (or not) prior to submitting citation records to CT Judicial.

e-Citation Workflow page 3

15. All agencies that choose to conduct supervisory reviews will collaborate to define one set of citation infraction codes that determine if a citation is to be reviewed. This means all agencies using the supervisory review process will use the same set of infraction codes to signify citations that are subject to review.
16. Each supervisor will have access only to citations issued by his/her department. Supervisory review of citations is provided only through an authorized police user connection to the eCitation system at CRCOG. Revisions to an issued citation can only be made through the eCitation back office application, not with the mobile eCitation client, and only by a designated supervisor with system access permissions.
17. If the review results in a change to the citation records, the citation application will include a function for the supervisor to send an electronic message to the originating officer that the issued citation was changed. This message will be sent via either email or the message transmittal function of CAPTAIN – these message systems will be provided by CRCOG or the participating police departments.
18. After approval of a citation, the agency and the issuing officer are responsible for printing the officer's copy of the citation for his signature on the file copy of the citation. This action will take place in the police department not in the police vehicle at the time the citation is issued.
19. NOTE: Upon enactment of the electronic signature legislation proposed under House Bill 6710, the application will be amended to include the functionality of such signatures and, optionally, an electronic oath as required. This function is reserved for phase 2 of the citation pilot or a later date. The definition of this function is a change order that can only be completed after legislation is in effect.
20. Up to 48 hours from the time of issue will be allocated for the supervisory review process to be completed. After 48 hours, citations that have not been reviewed will automatically be placed in the queue for submission to CT Judicial.

e-Citation Workflow page 4

21. The citation records will be maintained on CRCOG citation server. The CRCOG Citation server application will also manage submission of issued citation records to CT Judicial. Records will be placed in the CT Judicial queue until transmitted in a batch file to CT Judicial. The citation batch file sent to CT Judicial will contain citations from all participating agencies that issued and/or approved citations. Citations that were not approved by the time set for batch transmission to CT Judicial shall be forwarded and the record so marked in the CT CHIEF citation system.
22. The CRCOG Citation server will transmit batches of citation records to CT Judicial using an electronic process. The process will include a batch control number issued by CT Judicial. This batch transmission will occur according to a schedule that is pre-determined by CRCOG and CT Judicial. The frequency may be daily or at least once prior to the start of the next term of the court.
23. Each CRCOG agency can receive a citation batch file with the citation records for that agency. This file will be in NIEM XML format (like the file that is sent to CT Judicial). Each agency is responsible for integrating the citation record data into their central data system. The file will contain an indicator of citation approval (either by default or by supervisor) and any batch control number as authorized by CT Judicial.
24. For those agencies that are using the CRCOG CT:CHIEF application, the citation data will be integrated into the citation module of this system and will be accessible to authorized users.
25. Management reports will be available to authorized users of the CRCOG citation server. These same management reports will work against the CT:CHIEF RMS citation module
26. Long term management of the citation data, including record archival, will be administered through the CRCOG eCitation server.

e-CITATION APPLICATION – NUMBER MANAGEMENT

The eCitation system will use a citation numbering methodology that will operate the same for all participating agencies and all eCitation mobile clients. The citation numbering process will function as follows:

1. CT Judicial will authorize a range of numbers for use by the CRCOG eCitation pilot. The number format will follow the CT Judicial standard for the CRCOG eCitation pilot.
2. The CRCOG citation server will create and maintain a log of the citation numbers issued to CRCOG by CT Judicial and how the numbers are used or discarded/voided.
3. The eCitation mobile application will request an authorized citation number from the CRCOG eCitation server when the officer is ready to issue a citation number. Note: After a number is issued to the mobile application, the officer will be able to complete and print the citation even if the CAPTAIN link goes offline. However, when system or infrastructure failures (or errors) prohibit the electronic issue of a citation number, the officer will issue the citation using the back-up manual/paper method.
4. The issued citation number will be automatically entered into the citation record and printed on the citation.
5. The officer will have no manual control of the issue and use of a citation number.
6. The mobile eCitation application will send completed citations to the CRCOG citation server as soon as the citation is issued or as soon as the wireless data communication link is available. In this way the citation server will be notified when a citation number is used.

