A Roadmap for Rural Traffic Records Improvement-
Electronic Vehicle Crash Reporting

Jack Stickel

Alaska Department of Transportation & Public Facilities
Electronic Vehicle Crash Reporting

- Background
- Challenges of the existing processes
- Strategies to meet the challenges
- Web-enabled vehicle crash electronic transfer initiatives
- Anticipated benefits
Electronic Vehicle Crash Reporting

SAFETEA-LU

“…requires each state to develop a comprehensive, data driven strategic highway safety plan to address the 4Es of safety.”

- Engineering
- Education
- Enforcement
- Emergency Response
Electronic Vehicle Crash Reporting

Alaska’s Safety Program Needs

- Highway Safety Improvement Program (HSIP)
- Highway design safety analysis
- Commercial vehicles – drivers licenses & vehicle safety
- Driver services – licensing & insurance
- Emergency medical services
- Alcohol monitoring
- Court System – citation, arrest, disposition
- Strategic Highway Safety Plan
- Traffic Records Strategic Plan
Challenges of Existing System

- Manual linkages to road network and driver records
- Legibility concerns
- Lack of code table checks
- Consistency checks at each data entry point
- No linkage to EMS, court system, commercial vehicles, driver services
- Time lag from data collection to input in legacy mainframe database
- Accident diagram and narrative not stored
- Many small police departments/public safety detachments in rural areas of the state. Limited staff & training
Challenges of Existing System

Law Enforcement Report – Now (185 days)
Electronic Vehicle Crash Reporting

The Challenge

*How to improve traffic records to meet the State’s safety program requirements for:*

- Timeliness
- Accuracy
- Completeness
- Uniform integration
- Accessibility
Strategies To Meet Challenges

- Strategic Highway Safety Plan
- Traffic Records Strategic Plan
- Web-enabled vehicle crash driver reports – implemented
- Web-enabled law enforcement reports – late 2008
- State standard for law enforcement proprietary system vehicle crash reports – 2009
- TraCS (Traffic and Criminal Software) - ongoing

http://www.tracsinfo.us/Tracs_Home.asp
Electronic Vehicle Crash Reporting

Strategic Highway Safety

“Improve safety for everyone through a proactive leadership structure and focus resources on the most effective solutions using evidence-based engineering, enforcement, education, and emergency response initiatives.”

- Traffic Records Strategic Plan
- Integrate existing data plans
- High level champions
- Law enforcement data automation, transmission, and access/sharing
- Training – data collection, analysis, and use
Electronic Vehicle Crash Reporting

Traffic Records Strategic Plan

“...provide for a statewide traffic records strategic plan that integrates the State’s data needs and goals with the SHSP for six safety systems.”

- Traffic crashes
- Driver license and history
- Vehicle Registration
- Roadway inventory & geographic information system
- Traffic citations and adjudication
- Injury surveillance: pre-hospital EMS, post-hospital discharge, trauma, and long-term care
TraCS Deployment

- E-Citation module for Commercial Vehicle Enforcement
- DUI module under development
- Vehicle Crash Reporting Module - Alaska Alaska State Troopers (Dept of Public Safety) taking the lead
Tamino – XML database, stores narrative & diagram as blobs

http://www.softwareag.com/corporate/products/overview/listed_products/tamino/
Web-enabled Electronic Vehicle Crash Initiative

End-User View
Web-enabled Electronic Vehicle Crash Initiative

DMV Business Flow & State Xref

DMV Web Application

DMV e-Forms Matching Interface

Driver

12-209

12-200

Match Paper Forms

12-200 and/or 12-209s

12-200 Present Copy of E12-209 (E12-209 is archived)

Copy of E12-209

grouped 12-200, 12-209 and Copy of E12-209

Send to DOT Matched Forms

DMV View
ALVIN – DMV Alaska License and Vehicle Information Network
Establish your Identity

Establish your identity with Division of Motor Vehicles (DMV) by completing this page. These answers are checked against State of Alaska records to verify your identity. Completing this page only verifies your identity, it does not transact any business with the State of Alaska.

Alaska Driver License or State Identification information:

Driver License or State Identification Number

Date of Birth

Month / Day / Year (mm/dd/yyyy)

State of Birth

Please Select a State

Last Name

First Name

Your weight

(from Alaska Driver License / State I.D. Card)

Your height

(from Alaska Driver License / State I.D. Card)
IF YOU’VE HAD A

TRAFFIC ACCIDENT

You must report it.
Alaska law requires drivers to report traffic accidents.

NEW! ON THE WEB!
You can streamline this process by using the web to fill out the appropriate form. It will not only save you time, but will help eliminate errors. Visit accident.alaska.gov and find out how.

A fast, convenient way to file an accident report.

accident.alaska.gov

Domain Name Applied For
It's Easy

- Go to accident.alaska.gov
- Login to your MyAlaska account
- Follow the wizard and fill out the form
- A brief overview will tutor first time users
- Print a copy for your records

It's The Law

The driver of a vehicle involved in an accident resulting in bodily injury to or death of a person or total property damage to an apparent extent of $2,000 or more, shall within 10 days after the accident, forward a written report of the accident to the Department of Administration and to the local police department if the accident occurs within a municipality. (AS 28.35.080)

Cooperating To Make Safer Highways:
Alaska Department of Transportation & Public Facilities
Alaska Division of Motor Vehicles
Challenges of Existing System

Law Enforcement Report – Now (185 days)

LE on scene report → LE agency review → DMV accident number

DOT assign location → DOT screen & sort → 20

DOT desk edits → DOT desk edits → Contract key punch → DOT online final QC

15 15 15

DOT load to production → 15
Benefits of New System

Law Enforcement Report – Envisioned (40 days)

**LE**
on scene report

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**LE**
agency review

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**DMV**
accident number

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**DOT**
assign location

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**DOT**
desk edits

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**DMV**
screen & sort

---

**DOT**
desk edits
legibility & errors

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**Contract**
key punch

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**DOT**
online final QC

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**DOT**
load to production

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**DOT**
load to production

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**DOT**
load to production

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**LE**
agency review

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**LE**
on scene report

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**DMV**
accident number

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**DMV**
accident number

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**DMV**
accident number

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NRITS 2007
Anticipated Benefits of Electronic Vehicle Crash Data

- Automates linkages to road network and driver records
- Mitigates legibility issues
- Adds automated code table checks
- Establishes interactive field consistency checks
- Reduces life cycle processing time from accident scene to availability in legacy mainframe database
- Adds accident diagram and narrative availability to enterprise safety data resources

- No linkage to EMS, court system, commercial vehicles, driver services - TRCC