

CR Number: 2798

External Reference: SAFER CR 122; DJ Waddell - MD - 240-228-5878

Category: Business rules/process to clarify data source

Component: SAFER/CVIEW

Synopsis: Synopsis: Data integrity issues are resulting from a source other than the authoritative source submitting vehicle registration data to SAFER.

Summary: A source other than the authoritative source can submit vehicle registration data to SAFER. If the authoritative source later updates the information, the data already in SAFER may be overwritten. Business rules/process need to be established (a) to clarify the source of data and (b) to coordinate data entry/update by authoritative source and authorized but not 'authoritative' source.

Proposal: The proposal consists of several clauses.

1. A state (in most cases, a "non-participating" state) may authorize another state to send vehicle registration data to SAFER on its behalf; this must be documented by letter/email. Letter/email will also be required to withdraw the authorization.
2. A new table in SAFER will be created to keep track of which states are authorized to send vehicle registration data to SAFER for any given state. The default would be that only the IRP base state would be authorized to send vehicle registration data to SAFER.
3. Volpe will consider whether the new table is also the appropriate place to store contact information.
4. If a state that is not authorized according to the process attempts to send vehicle registration data (XML T0020, T0021, or T0022) for another state to SAFER, the XML transactions will be rejected and the IRP base state will be notified that an unauthorized state has attempted to send vehicle registration data on its behalf.
5. The REGISTRATION_START_DATE will be a mandatory field and REGISTRATION_EXPIRE_DATE will be a mandatory field in the vehicle registration data.
6. The table will be posted in some form on the CVISN website.

Status: Approved

Disposition: [2007-07-26] Approved by J. Secrist 2007-01-23. Scheduled for SAFER 7.3.

Description: A source other than the authoritative source, such as an escreening enrollment system, can submit vehicle registration data to SAFER. If the authoritative source (e.g. IRP base state) later updates the information, the data already in SAFER, such as the escreening enrollment information, may be overwritten. Business rules or a process need to be established (a) to clarify the source of data and (b) to coordinate data entry/update by authoritative source and authorized but not 'authoritative' source.

[2007-07-26] sbs

At the 2007-05-23 Escreening focus group meeting, the CVISN stakeholders agreed that SAFER shall be enhanced to track if the registration data in SAFER comes from the authoritative source or not.

Most of the CVISN states submit T0022 transactions via their own state CVIEW system. The irp_base_state in the registration data matches the state code in the T0022 data file name. States that do not have CVIEW but need to send the vehicle registration data to SAFER have to let states with a CVIEW send data for them. This SCR allows SAFER to track which state sends the data to SAFER and to indicate if the data is being verified by the authoritative source.

To support this request, the CVIEW states shall send and SAFER shall accept, store and send the following data elements:

1. Sending_State. The state who sends the T0022 transaction data for the authoritative state.
2. Verification_Source. The type of mechanism used to verify the registration data. The valid data value for this data element will be NLETS, Commercial Vehicle Officers and Transponder Administrators, and IRP.
3. Verification_Date. The date the registration data is verified by a authoritative source.

SAFER T0022 xml schema and T0028 XML schema will be modified to add the above three data elements.

States will be required to update the new schema files for the September 2007 SAFER 7.3 release.

HISTORY

[2004-07-12] per DJ Waddell 7/8/04

Scenario: Vehicle operators want to enroll in Maryland's e-screening program, but their IRP base state has not provided registration data for the vehicle to SAFER.

Maryland's e-screening enrollment system collects data from the registrant, creates a vehicle registration record in CVIEW, and then enrolls the specified carrier and vehicle for the Maryland e-screening program. Data details are below. Maryland's e-screening enrollment program is operated by state agencies under the Maryland DOT, as is Maryland's IRP office.

Once the registration data is entered, the e-screening enrollment process may proceed, collecting the transponder number and the jurisdictions to enroll for. Technically, transponder number is part of the Vehicle_VIN table, so it is registration data.

The registration data is sent to SAFER by MD CVIEW.

Analysis is needed on potential data collisions. If an authoritative source for vehicle registration data begins to contribute data to SAFER, and provides an update to one of the registration records entered by another source, the new data will probably overwrite the data already in SAFER. For example, if the IRP base state updates registration data entered by the MD e-screening program, this would probably un-enroll the vehicle from MD E-Screening, since transponder number and CVIS_DEFAULT_CARRIER USDOT number would probably not be provided by the IRP base state, and they would probably be replaced by NULL.

A process is needed to "close the loop" with non-participating states to inform them of data submitted listing them as the IRP Base State, and to request new expiration dates when license plates are renewed for enrolled vehicles. For example, MD would like to have in place ASAP an email list for the IRP offices for each jurisdiction. Then when a vehicle registration record is created or modified for e-screening enrollment, an email would be sent (possibly/someday automatically) to the corresponding jurisdiction's designated IRP office. MD proposes that the change go into CVIEW and SAFER with no action from the base jurisdiction, as it does now, with a plan/process in place so that it could be retracted if the base jurisdiction objects, with any eye to automating that process as well.

Vehicle Registration Data Fields:

Mandatory Fields:

VIN

License plate number

License plate state (= IRP base state)

Registration expiration date

IRP registered weight for the e-screening state

USDOT number of the carrier responsible for the safe operation of the vehicle

Transponder identifier

Optional Fields:

Title number
Title jurisdiction
Owner name
Unit number
Model year
Make
Type
Fuel type
GVW
Unladen weight
Number of axles (truck)
Number of seats (bus)
Registration start date

[2004-07-19] Presented and discussed at the 7/15/04 ACCB meeting.

This CR will be posted to the CVISN Systems Architects list serv for discussion; no decision is being proposed at this time. A conference call will be scheduled for the week of August 16 if states are interested.

[2004-08-11] Andrew Wilson posted a document and a spreadsheet to the CVISN System Architect list serv. Both are available via the Attachments tab.

1. The attached Word document contains some background notes for the upcoming conference regarding CVISN Architecture CR 2798.
2. The attached spreadsheet contains the number of IRP records by IRP base state currently in the SAFER database. The relatively small number of records for some states are typically records that were entered to support E-Screening enrollment or PRISM vehicle targeting for another State.

[2004-08-23] This CR was discussed at the July and August ACCB meetings, and at a special teleconference on August 16, 2004. The proposal described in the "Synopsis" section was developed and refined at those meetings. Corrected minutes from the 2004-08-16 meeting are attached to this CR.

[2004-09-08] There is a correction to the minutes of the 19 Aug ACCB meeting. Item 3-5 should read: "5. The REGISTRATION_START_DATE and REGISTRATION_EXPIRE_DATE will be mandatory fields in the vehicle registration data."

[2004-09-27] Presented and discussed at the 2004-09-23 ACCB meeting.

Item 3-5 was modified to read: "The REGISTRATION_START_DATE will be a mandatory field and REGISTRATION_EXPIRE_DATE will be a conditionally mandatory field in the vehicle registration data."

This CR was recommended for FMCSA approval. It will also be posted to the CVISN System Architects list serv for review.

[2006-03-30] Presented at the 2006-03-23 ACCB meeting.

Currently, State A can submit registration data for State B, and SAFER would not reject the transaction. A proposal was developed by a subcommittee of the ACCB and later approved and recommended for FMCSA approval in September 2004. SAFER CR 122 is pending and Volpe said that it was not a current candidate for the SAFER 5.1 release in August. States on the call felt strongly that the issue of management of update authority should be resolved as soon as possible and that the CR should be considered a high priority for the 5.1 release.

[2006-05-04] re discussion of CR 2936 at 4/20/06 ACCB meeting.

At the March 2006 ACCB meeting, states requested that Architecture CR 2798 (SAFER CR 122), which addresses management of update authority for vehicle registration data, be implemented in SAFER Release 5.1. Since Architecture CR 2936 addresses management of update authority for

transponder data, states suggested that the scope of Architecture CR 2798 be expanded to include other transactions, including transponder data. Volpe pointed out that the testing requirements for implementing the CR would expand significantly. Volpe said that the implementation of Architecture CR 2798 (SAFER CR 122) will create audit tables only and will not involve sending output transactions. Volpe will re-write these CRs. APL suggested they be kept as separate CRs, but reflect this discussion about what the states really want.

[2006-05-26] Discussed at the 5/18/06 ACCB meeting.

Architecture CRs 2936 (e-screening data) and 2798 (IRP registration data) deal with Authoritative Source. Volpe will check with FMCSA to see if both can be incorporated in SAFER Release 5.1. If not, then maybe CR 2936 can be included in 5.1 and CR 2798 in Release 5.2.

[2006-10-19] Status reported at the 10/19/06 ACCB meeting.

Item 5 in the proposal of the CR was corrected to "The REGISTRATION_START_DATE will be a mandatory field and REGISTRATION_EXPIRE_DATE will be a mandatory field in the vehicle registration data." Volpe will discuss FY07 implementation of this capability with FMCSA.

[2007-01-23] Approved by J. Secrist. Scheduled for SAFER 5.2.

[2007-05-17] Discussed at 2007-05-17 CVISN ACCB meeting. The requirements need to be finalized and reported to the CVISN ACCB. Scheduled for SAFER 5.3.

Impact on architecture:
None

Impact on documentation:
SAFER ICD

Impact on States:
States will need to implement the process described in the proposal.

Fix:

Comment:

Attachment names: CR2798 analysis_V02.doc
CR2798 IRPCounts.xls
ACCB CR 2798 Minutes 2004-08-16_v2.doc
Minutes of CVISN ACCB Meeting August 19 2004 - Correction to CR 2798.rtf

Responsibility: Magnusson Nancy C

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Modified By: Salazar Sandra B

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Entered By: Magnusson Nancy C

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Type: Defect

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