

CR Number: 2577

External Reference: SAFER CR 31

Category: PRISM XML_out, SAFER ICD

Component: SAFER/PRISM

Synopsis: Develop an XML output transaction for the vehicle component of the PRISM Local Target File.

Status: Closed Approved

Disposition: [2004-08-23] Approved by FMCSA PRISM Program

Description: The PRISM team at the Volpe Center is interested in having the capability to output the equivalent of the PRISM Local Target file for PRISM States with CVIEW or equivalent capabilities. PRISM State IRP and Enforcement groups need access to this data to comply with various PRISM program requirements; however, an XML approach to receiving this data does not currently exist.

The proposal is to create a new XML transaction set that explicitly contains only PRISM targeted vehicles as identified by the PRISM Central Site every evening. The data would come from the same source used to create the existing PRISM Local Target flat file used by PRISM pilot architecture States and would be regenerated fresh each day. State IRP and Enforcement groups could be assured that by accessing this new transaction set they are getting the latest information available from the PRISM program on the status of targeted vehicles.

The PRISM Local Target file consists of both carrier and vehicle record types within the same file and duplicating this feature within an XML transaction set would not be necessary. Upon Volpe analysis, it was noted that only two fields had to be included from the carrier record of the PRISM Local Target file to satisfy PRISM requirements. Those fields were the MCSIP Step of the Carrier responsible for safety and the run date of the last MCMIS Carrier Census update to SAFER. By adding this information to each vehicle record of the new output transaction set, the result would simplify the XML processing. This proposed transaction set would be identified as T0028P (see later note - it will be T0041P), PRISM Targeted IRP Registration (Cab Card) Output Transaction.

As a result of the SAFER/PRISM meeting held at the Volpe Center earlier this year, it was decided that the new transaction T0041P would contain the same vehicle information included in the PRISM Local Target File. It would be formatted similar to the existing T0028 Transaction Set but would be comprised of only one type of transaction. Some elements of the IRP VIN and IRP Registration sections of the existing T0028 Transaction Set would be used but there would be no elements from the existing IRP Proration section. Also, new tag names would be created for the MCSIP Step and Census Update Date fields not included in T0028.

T0041P would use the same field sizes that SAFER uses now since SAFER uses larger field size than PRISM does for the same data. The XML tag names would remain unchanged and would be mapped to specific field names. The new output transaction T0028P would contain the following data elements:

FIELD NAME SIZE TYPE

VIN 30 string
Safety Carrier Number 12 string
MCSIP Step 2 string
Plate Number 12 string
Registration Jurisdiction 2 string
Registration Date Effective yyyyymmdd date
Registration Date Expiration yyyyymmdd date
Make 10 string
Model Year yyyy date
Last Census Update Date yyyyymmdd date
Vehicle Last Update Date yyyyymmdd date

If approved and implemented, the SAFER ICD would be modified to include the new T0041P interface for States in the PRISM program. The XML schema definition file and a sample transaction file for T0041P would be published in the next version of the SAFER ICD.

The labor and cost analysis for this task is pending for approval from FMCSA.

[2004-04-15] Discussed at the 4/15/04 ACCB meeting.
Volpe is investigating the possibility of creating XML transactions for PRISM states. There are many ramifications to both PRISM and CVISN states that are being considered.

[2004-06-21] Presented at the 6/17/04 ACCB meeting.
A CVISN/PRISM meeting was conducted on June 3, 2004 to coordinate issues in combining PRISM and CVISN systems. CR 2577 was discussed and a set of actions was established to resolve the issue. A follow-up meeting is scheduled for the end of June. In addition, Volpe is analyzing the CR. The progress of this CR will be reviewed at the next ACCB meeting.

[2004-08-23] Presented at the 8/19/04 ACCB meeting.
Volpe has developed XML transaction T0041P for XML PRISM output from SAFER. T0041P contains only PRISM targeted vehicles as identified by the PRISM Central Site every evening. The data would come from the same source used to create the existing PRISM Local Target flat file used by PRISM pilot architecture States and would be regenerated fresh each day. This is not a replacement for T0028. T0041P was tested with Nebraska which has a CVIEW equivalent that stores the PRISM data in a separate table from the CVISN registration data. This does not demonstrate the impact on CVIEWS that are designed based on the SAFER database schema, which would not have the separate PRISM table to store the data.

The T0041P transaction has been approved by FMCSA and will be made available to states that are configured to use it, but with the caution that states with conventional CVIEWS cannot use it without making modifications to their CVIEWS. This information will be posted to the CVISN System Architects list serv.

Impact on architecture:
None - this relates to PRISM architecture

Impact on documentation:
None

Impact on States:
No impact to CVISN states that are not PRISM states.
PRISM states may change from flat file to this format. This is no impact if they chose
not to use this XML transaction.

Fix:

Comment:

**Attachment
Names:**

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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