



# SAFER CVIEW Interface Re-Certification

Description of Re-Certification Process for CVISN Stakeholders

Version 1.0

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## 1 Overview

The purpose of this document is to describe the re-certification process that CVISN and PRISM/CVISN states are going to follow.

## 2 Background

In order to improve data quality in the SAFER system, two major software changes have been made in the recent SAFER releases. SAFER version 4.9, released in October 2005, has implemented data rules (SAFER CR 131) to support the requirements for mandatory and optional data elements in the Vehicle Registration input transaction (T0022). Data fields in the T0022 transaction are classified into three types: mandatory, optional, and conditional-mandatory. Whether a particular data field should be mandatory or not has been determined by the CVISN/PRISM stakeholders based on the data requirements that support the PRISM and CVISN business processes.

SAFER version 5.0 released in March 2006 has implemented edit checks for all SAFER input transactions to support the new data format rules described in SAFER CR 139. The purpose of this change is to capture records containing data not properly formatted from the input transaction and report the errors in the transaction log files. In most cases, records containing certain data fields with leading zeroes and trailing spaces are to be reported as errors.

Both changes are implemented in such a way that the edit checks will only be turned on with the new data requirements for the states that have completed the re-certification. States not being re-certified will not be subject to the new edit checks in SAFER. FMCSA urges the states to complete re-certification by the end of calendar year 2006, after which the new data quality edit checks will be applied to all incoming data, and data that does not conform will not be stored in SAFER. The mandatory / optional requirements and the new data format rule specifications are attached to this document.

The estimated time for States to carry out re-certification varies with several factors: current data compliance level compared to the new data requirements, system architecture complexity, and available IT support. It is estimated that an average state will need about 80 hours for coding changes to support the new data rules. Re-certification testing would take about 1 day.

## 3 Purpose of Re-certification

The re-certification process is required for the existing users when the SAFER-CVIEW interface is changed significantly. This situation could arise due to major software changes made on SAFER or CVIEW, or system architecture changes on both sides. The purpose of the re-certification described in this document is to ensure that CVISN/PRISM states' input data comply with the new data requirements implemented in SAFER version 4.9 and SAFER version 5.0. The scope of this test doesn't include data downloads, or interoperability testing; it only covers uploading of data from CVIEW to SAFER.

## 4 New Data Requirements

The Data Requirements columns in the tables below contain descriptions of the formatting rules based on suggestions from CVISN stakeholders. The columns with “M/O” as their heading contain Mandatory / Optional requirements for each transaction. SAFER has implement edit checks to flag and reject records that fail to comply with data format rules and the mandatory/optional conditions. CVIEW is responsible for making corrections and re-uploading properly formatted data to SAFER.

### 4.1 Rules

Each row in the table corresponds to a new data format rule.

#### 4.1.1 Tag Name Field

The Tag Name field contains the tag names for which each rule will be applied.

#### 4.1.2 M/O Field

The M/O field contains ‘O’ for optional data elements, ‘M’ for mandatory data elements, and ‘CM’ for conditional-mandatory. Conditional-mandatory elements are those that are optional for some conditions, but mandatory for other conditions.

#### 4.1.3 Transaction Field

The Transaction field contains the SAFER/CVISN transaction identifiers corresponding to the transactions that are affected by the data format rule for the row.

### 4.2 Input Transactions

#### 4.2.1 International Fuel Tax Agreement (IFTA) transaction - T0019

The new data requirements have been implemented for the following data fields in this transaction:

| Tag Name               | M/O | Transaction | Data Requirement  |
|------------------------|-----|-------------|---|
| IFTA_CARRIER_ID_NUMBER | O   | T0019       | Data field shall not contain leading zeroes, leading spaces or trailing spaces. |
| IFTA_LICENSE_NUMBER    | M   | T0019       | Data field shall not contain leading or trailing spaces. Allow leading zeroes.  |

#### 4.2.2 International Registration Protocol (IRP) Transaction - T0020

The new data requirements have been implemented for the following data fields in this transaction:

| Tag Name              | M/O | Transaction | Data Requirement  |
|-----------------------|-----|-------------|---|
| IRP_ACCOUNT_NUMBER    | M   | T0020       | Data field shall not contain leading or trailing spaces.<br>Allow leading zeroes. |
| IRP_CARRIER_ID_NUMBER | O   | T0020       | Data field shall not contain leading zeroes, leading spaces or trailing spaces.   |

#### 4.2.3 IRP Fleet Transaction - T0021

The new data requirements have been implemented for the following data fields in this transaction:

| Tag Name           | M/O | Transaction | Data Requirement  |
|--------------------|-----|-------------|---|
| IRP_ACCOUNT_NUMBER | M   | T0021       | Data field shall not contain leading or trailing spaces.<br>Allow leading zeroes. |
| FLEET_NUMBER       | M   | T0021       | Data field shall not contain leading or trailing spaces.<br>Allow leading zeroes. |

#### 4.2.4 Vehicle Registration Transaction - T0022

The new data requirements have been implemented for the following data fields in this transaction:

| Tag Name              | M/O | Transaction | Data Requirement  |
|-----------------------|-----|-------------|---|
| IFTA_LICENSE_NUMBER   | O   | T0022       | Data field shall not contain leading or trailing spaces.<br>Allow leading zeroes. |
| IRP_ACCOUNT_NUMBER    | M   | T0022       | Data field shall not contain leading or trailing spaces.<br>Allow leading zeroes. |
| IRP_CARRIER_ID_NUMBER | O   | T0022       | Data field shall not contain leading zeroes, leading spaces or trailing spaces.   |
| TITLE_NUMBER          | O   |             |   |
| TITLE_JURISDICTION    | O   |             |   |
| OWNER_NAME            | O   |             |   |
| MODEL_YEAR            | M   |             |   |
| MAKE                  | M   |             |   |

|                          |    |       |  |
|--------------------------|----|-------|--|
| TYPE                     | O  |       |  |
| MODEL                    | O  |       |  |
| FUEL                     | O  |       |  |
| UNLADEN_WEIGHT           | O  |       |  |
| NUMBER_OF_AXLES          | O  |       |  |
| IRP_BASE_COUNTRY         | CM |       | Not mandatory for PRISM-only states using PVF  |
| IRP_BASE_STATE           | M  |       |  |
| UNIT_NUMBER              | O  |       |  |
| LAST_UPDATE_DATE         | M  |       |  |
| INTERSTATE_FLAG          | M  |       |  |
| IRP_STATUS_CODE          | M  |       |  |
| IRP_STATUS_DATE          | M  |       |  |
| REGISTRATION_START_DATE  | M  |       |  |
| REGISTRATION_EXPIRE_DATE | M  |       |  |
| OPERATOR_NAME            | O  |       |  |
| GVW                      | O  |       |  |
| GVW_EXPIRE_DATE          | O  |       |  |
| IRP_JURISDICTION         | M  |       |  |
| IRP_WEIGHT_CARRIED       | M  |       |  |
| IRP_WEIGHT_EXPIRE_DATE   | M  |       |  |
| VIN                      | M  | T0022 | Data field shall not contain leading or trailing spaces. Allow leading zeroes. Warn on special characters that are not in A-Z, 0-9 ranges. |
| LICENSE_PLATE_NUMBER     | M  | T0022 | Data field shall not contain leading or trailing spaces. Allow leading zeroes.   |
| IRP_FLEET_NUMBER         | M  | T0022 | Data field shall not contain leading or trailing spaces. Allow leading zeroes.   |
| SAFETY_CARRIER           | CM | T0022 | Data field shall not contain leading zeroes, leading spaces  |

|  |  |  |   |
|--|--|--|---|
|  |  |  | or trailing spaces, or embedded blanks. Not mandatory for CVISN-only states |
|--|--|--|---|

#### 4.2.5 E-Screen Carrier Authorization Transaction - T0023

The new data requirements have been implemented for the following data fields in this transaction:

| Tag Name          | M/O | Transaction | Data Requirement  |
|-------------------|-----|-------------|---|
| CARRIER_ID_NUMBER | M   | T0023       | Data field shall not contain leading zeroes, leading spaces or trailing spaces. |

#### 4.2.6 E-Screen Transponder Transaction - T0024

The new data requirements have been implemented for the following data fields in this transaction:

| Tag Name           | M/O | Transaction | Data Requirement   |
|--------------------|-----|-------------|--|
| VIN                | M   | T0024       | Data field shall not contain leading or trailing spaces. Allow leading zeroes. Warn on special characters that are not in A-Z, 0-9 ranges. |
| TRANSPONDER_NUMBER | O   | T0024       | Data field shall not contain leading or trailing spaces. Allow leading zeroes and Null. Warn on values not in A-F, 0-9 ranges.             |

## 5 Re-Certification Process

1. The State will review the new data requirements and make appropriate changes to its CVIEW system that interfaces with SAFER.
2. The State will contact Volpe Center to initiate a request for re-certification. Contact FMCSA tech support at 617-494-3003 or [wu@volpe.dot.gov](mailto:wu@volpe.dot.gov) to schedule a potential testing date.
3. Volpe will verify the State has a valid testing account and connectivity to the certification environment. Volpe will assist the state to establish network connection if necessary.

4. Before testing, Volpe will prepare a test database to receive data from the state, and will turn on the new edit checks for the test database.
5. On the day of testing, the State will submit data files from CVIEW to SAFER. This is required for all transactions that the states desire to re-certify.
6. Upon completion, Volpe and the State will review the transaction logs to ensure the data files are successfully processed. Volpe will also review the data uploaded from states currently participating in the PRISM program via T0022 transaction to ensure their data is in compliance with the PRISM business program. Volpe will query the test database to verify the input data values are in compliance with new data rules and all mandatory fields are correctly populated.
7. Volpe will notify the State whether or not the testing passed. If the State failed in the test, it will need to reschedule another test with Volpe after the corrections have been made in CVIEW.CVISN and PRISM Technical support at Volpe will jointly notify FMCSA that the re-certification testing is complete for the state and the State is certified for the new data requirements implemented in SAFER Version 4.9 and SAFER Version 5.0.
8. Volpe will schedule with the State the starting date of baseline upload. The State will be required to submit all transaction baseline files to SAFER for the transactions they are exchanging with SAFER.
9. Volpe will send out a notification to the other states ahead of time of such an event.
10. The State will stop sending data at 5 pm EST on the date of baseline and Volpe will remove the State's previous data from the production database.
11. The SAFER team will turn on the new edits in the production database for the state being re-certified before the scheduled baseline upload.
12. The State will resume uploads that are compliant with the new data requirements.