



# SAFER CR 139 Data Format Rules

Description of Formatting Rules for CVISN Stakeholders

Version 1.0

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## SAFER CR 139 Data Format Rules

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# 1 Overview

This document describes the formatting rules to be implemented in SAFER CR 139.

## 2 New Data Format Rules

The following table documents the new data format rules by tag name. Please refer to the SAFER Version 4.2 Interface Control Document (ICD) for more information regarding the tag names and transaction identifiers.

### 2.1 Legend

#### 2.1.1 Rules

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

#### 2.1.2 Tag Name Field

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

#### 2.1.3 M/O Field

The M/O field contains 'O' for optional data elements and 'M' for mandatory data elements.

#### 2.1.4 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.

#### 2.1.5 Data Format Problem Field

The Data Format Problem field describes the stakeholder reported problem that is addressed by the data format rule for the row.

#### 2.1.6 Requirements for Implementation Field

The Requirements for Implementation field contains a description of the formatting rule that will be applied.

| <b>Tag Name</b>        | <b>M/O</b> | <b>Transaction</b> | <b>Data Format Problem</b>                           | <b>Requirements for Implementation</b>  |
|------------------------|------------|--------------------|--|---|
| IFTA_carrier_id_number | O          | T0019              | Leading zeroes/spaces, trailing spaces, zeroes, null | Eliminate leading zeroes, leading spaces and trailing spaces. * This field needs to be validated against carrier USDOT number from MCMIS database |

|                       |   |                           |   |   |
|-----------------------|---|---------------------------|---|---|
| IFTA_license_number   | M | T0019,<br>T0022           | Leading zeroes/spaces,<br>trailing spaces, zeroes,<br>null  | Eliminate leading and trailing<br>spaces. Allow leading zeroes.<br>*This field needs to be<br>validated against the standard<br>for IFTA account numbers                              |
| IRP_account_number    | M | T0020,<br>T0021,<br>T0022 | Leading zeroes/spaces,<br>trailing spaces, null   | Eliminate leading and trailing<br>spaces. Allow leading zeroes.<br>*This field needs to be<br>validated against the current<br>standard set by the International<br>Registration Plan |
| IRP_carrier_id_number | O | T0020,<br>T0022           | Leading zeroes/spaces,<br>trailing spaces, zero,<br>zeroes, null  | Eliminate leading zeroes,<br>leading spaces and trailing<br>spaces. *This field needs to be<br>validated against carrier<br>USDOT number from MCMIS<br>database                       |
| Fleet_number          | M | T0021,<br>T0022           | Leading zeroes/spaces,<br>trailing spaces, zero,<br>zeroes  | Eliminate leading and trailing<br>spaces. Allow leading zeroes.   |
| VIN                   | M | T0022,<br>T0024           | Leading /trailing spaces,<br>special characters: ', **.<br>Assuming leading zero is<br>part of the VIN.                               | Eliminate leading and trailing<br>spaces. Allow leading zeroes.<br>*This field needs to be<br>validated against the current<br>standard set by NIST and<br>AAMVA.                     |
| License_plate_number  | M | T0022,<br>T0024           | Leading/trailing spaces,<br>special characters: #, "",<br>&. Whether or nor special<br>characters are valid needs<br>to be determined | Eliminate leading and trailing<br>spaces. Allow leading zeroes.   |
| IRP_fleet_number      | R | T0022                     | Leading zeroes/spaces,<br>trailing spaces, zero,<br>zeroes, null  | Eliminate leading and trailing<br>spaces. Allow leading zeroes.   |
| Safety_carrier        | O | T0022,<br>T0024           | Leading zeroes/spaces,<br>trailing spaces, zero,<br>zeroes, null  | Eliminate leading zeroes,<br>leading spaces and trailing<br>spaces. *This field needs to be<br>validated against carrier<br>USDOT number from MCMIS<br>database                       |
| Transponder_number    | O | T0024                     | Leading zeroes/spaces,<br>trailing spaces, TEST001,<br>etc. NULL is an<br>acceptable value  | Eliminate leading and trailing<br>spaces. Allow leading zeroes<br>and Null. Legitimate values use<br>0-9 and A-F only   |

\* The verification against the current standards is part of the requirements for SAFER CR 139. These standards are being reviewed by the CVISN state users and may subject to changes. Therefore the implementation of CR 139 in

SAFER version 5.0 will not include the verification checking. It will only address the data format rules listed in the "Requirements for Implementation" column.

### 3 Data Verification Standards

The following are the existing standards to be used for data verification during or after the upload process.

#### 3.1 IFTA account format

The following information is provided by Bob Crawford for the Maryland Motor Fuel Tax Division and posted on the CVISN listServ by DJ Waddell.

IFTA licenses issued by all 58 participating jurisdictions (which include 10 Canadian provinces) begin with a 2 alpha character set designating the base jurisdiction followed by 9 numeric digits. Presently the 9 digits may be a Canadian identifying number, a social security number or an FEIN. The required license identification field must be a total of 11 characters. The 9 numeric digits may begin with, or end with, 1 or more zeros and be valid.

#### 3.2 IRP account format

The "International Registration Plan" document has a record format in the appendix which says the IRP account number must be 15/N, with this explanation:

##### "LEGEND

Character types and format are described for each entry. Character types are as follows:

A - Alphabetic (A through Z or a through z) N - Numeric (0 through 9) S - Special (neither alphabetic or numeric) AN - Alphanumeric (alphabetic and numeric) AS - Alphabetic and special ANS - Alphabetic, Numeric and Special Unless otherwise stated, alphabetic data are always left-justified in a field that may contain embedded blanks, numeric data are right-justified with leading zeros, and field lengths are fixed." The leading zeroes are there to meet the "old school" fixed field length requirement for flat-file transfers. They are not generally considered to be a meaningful part of the IRP account number. For CVISN data standardization purposes, where the XML format has no fixed-length field requirement, a judgment call is needed here. Trailing zeroes would be considered meaningful. Embedded blanks are forbidden.

#### 3.3 VIN number verification

Refer to the attachment Part 565 – Vehicle identification number requirements.