



# PRISM XML Transaction Specifications

PRISM Targeted Vehicle (T0041P)  
&  
PRISM Targeted Carrier (T0042P)  
Output Transactions

Version 2.0

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*Prepared for:*  
*US Department of Transportation*  
*Federal Motor Carrier Safety Administration*  
*1200 New Jersey Avenue, SE*  
*Suite W60-300,*  
*Washington, DC 20590*

*Prepared by:*



*John A. Volpe National Transportation Systems Center (Volpe Center)*  
*55 Broadway*  
*Cambridge, Massachusetts 02142*

## Table of Contents

<b>1</b>	<b>PRISM XML TARGETED VEHICLE &amp; CARRIER OUTPUT TRANSACTIONS .....</b>	<b>1</b>
<b>2</b>	<b>PRISM TRANSACTION DESCRIPTIONS.....</b>	<b>1</b>
2.1	Transaction ID.....	1
2.2	Transaction Operation Tag .....	1
2.3	Data Elements.....	1
2.4	<b>T0041P, PRISM Targeted Vehicle Transaction .....</b>	<b>2</b>
2.4.1	Information Transmitted.....	2
2.4.2	Format/Record Layout.....	2
2.5	<b>T0042P, PRISM Targeted Carrier Transaction.....</b>	<b>3</b>
2.5.1	Information Transmitted.....	3
2.5.2	Format/Record Layout.....	3
2.6	<b>Interface Terminals.....</b>	<b>4</b>
2.6.1	Destination.....	4
2.6.2	Communication/Transmission Process.....	4
2.6.3	FMCSA SFTP Server Folder Structure .....	4
2.6.4	FMCSA SAFER FTP Server Folder Structure .....	5
2.6.5	Standards and Conventions .....	6
2.6.6	Conditional Processing .....	6
2.6.7	Data Validation.....	6
2.6.8	Error Processing/Recovery .....	6
2.6.9	Schedule/Frequency .....	6
2.6.10	Initiation Method .....	6
2.6.11	Synchronization/Dependencies.....	7
2.6.12	Priority .....	7
2.6.13	Maximum Transaction Size .....	7
	<b>APPENDIX A: EXAMPLE T0041P TRANSACTION .....</b>	<b>8</b>
	<b>APPENDIX B: EXAMPLE T0042P TRANSACTION .....</b>	<b>10</b>

## 1 PRISM XML Targeted Vehicle & Carrier Output Transactions

This document specifies the PRISM XML transactions that supplements the SAFER XML Interface outlined in the SAFER 8.1 Interface Control Document. These transactions are provided so that State systems can obtain the vehicle or carrier portion of the PRISM Local Target file in XML format to help satisfy several PRISM program requirements. The T0041P transaction specifies the targeted vehicles. The MCSIP Step of the carrier responsible for safety of the vehicle, at the time of file generation, has been added as an additional field in the targeted vehicle record format. The T0042P transaction specifies the targeted carriers.

These Output Transactions are available as a full baseline set of targeted vehicles or carriers extracted from the SAFER-PRISM database.

## 2 PRISM Transaction Descriptions

### 2.1 Transaction ID

A PRISM Transaction shall have a Transaction ID that ends with the letter 'P'. In the case of the PRISM Targeted Vehicle Transaction, the Transaction ID is 'T0041P'. In the case of the PRISM Targeted Carrier Transaction, the Transaction ID is 'T0042P'.

### 2.2 Transaction Operation Tag

The value of the Transaction Operation Tag in the Transaction header must be the string "BASELINE".

### 2.3 Data Elements

The data contained in the T0041P transaction comes from two sources, CVIEW or equivalent IRP Cab Card Input transactions and PRISM Vehicle Files submitted by States using the PRISM Pilot Architecture method of providing SAFER with only target vehicle data. In both cases, data should exist for all fields, with the exception of the PVF\_VEHICLE\_FILE\_CREATE\_DATE and the CVISN\_LAST\_UPDATE\_DATE. These two fields are mutually exclusive depending on which system submitted the record update in SAFER. Refer to table 2-1 for a definition of the value contained in these fields.

The data contained in the T0042P transaction comes from SAFER based on an extract from MCMIS. Data should exist for all fields. Refer to table 2-2 for a definition of the value contained in these fields.

## 2.4 T0041P, PRISM Targeted Vehicle Transaction

- Root Transaction Tag: T0041P
- Interface Name: PRISM
- Interface Version: 04.1
- Transaction Version: 01.01
- Transaction Data Tag: PRISM\_TARGETED\_VEHICLE

### 2.4.1 Information Transmitted

The following PRISM Targeted Vehicle information shall be provided:

**Table 2–1. T0041P - PRISM Targeted Vehicle (Output)**

<b>Description</b>		<b>XML Tag</b>
Vehicle Identification Number (VIN)	Mandatory	VIN
Safety USDOT Number	Mandatory	SAFETY_CARRIER
MCSIP Step of Safety Carrier	Mandatory	MCSIP_STEP
License Plate Number	Mandatory	LICENSE_PLATE_NUMBER
License Plate Base Jurisdiction (State/Province)	Mandatory	REGISTRATION_JURISDICTION
Vehicle Registration Start Date	Optional	REGISTRATION_START_DATE
Vehicle Registration Expiration Date	Mandatory	REGISTRATION_EXPIRE_DATE
Make	Mandatory	MAKE
Model Year	Mandatory	MODEL_YEAR
Date of Last MCMIS Update to SAFER – CVIEW IRP Vehicle	Optional	LAST_CENSUS_UPDATE_DATE
Date of last vehicle update – CVIEW IRP Vehicle <b>Or</b> Date of PRISM Vehicle File extract by the State	Mandatory	CVISN_LAST_UPDATE_DATE  <b>Or</b> PVF_VEHICLE_FILE_CREATE_DATE

### 2.4.2 Format/Record Layout

Refer to the schema for this transaction in the associated zip file, PRISM XML Schemas.zip, for the complete XML specification. This file is posted to the CVISN Website in the Documents > PRISM section: <http://cvism.fmcса.dot.gov/default.aspx?PageID=prism>

## 2.5 T0042P, PRISM Targeted Carrier Transaction

- Root Transaction Tag: T0042P
- Interface Name: PRISM
- Interface Version: 04.1
- Transaction Version: 01.01
- Transaction Data Tag: PRISM\_TARGETED\_CARRIER

### 2.5.1 Information Transmitted

The following PRISM Targeted Carrier information shall be provided:

**Table 2–2. T0042P - PRISM Targeted Carrier (Output)**

Description		XML Tag
USDOT Number	Mandatory	CARRIER_ID_NUMBER
Carrier Legal Name	Mandatory	CARRIER_NAME
Carrier “Doing Business As” Name	Optional	DBA_NAME
Physical Address Street	Mandatory	STREET
Physical Address City	Mandatory	CITY
Physical Address State Code	Mandatory	STATE
Physical Address Zip Code	Mandatory	ZIP_CODE
MCSIP Step	Mandatory	MCSIP_LEVEL
MCSIP Step Date	Mandatory	MCSIP_LEVEL_DATE
SAFESTAT Indicator	Optional	SAFESTAT_INDICATOR
SAFESTAT Date	Optional	SAFESTAT_DATE
MCMIS Last Update Date	Mandatory	LAST_UPDATE_DATE
MCMIS Last Update User ID	Mandatory	LAST_UPDATE_USERID

### 2.5.2 Format/Record Layout

Refer to the schema for this transaction in the associated zip file, PRISM XML Schemas.zip, for the complete XML specification. This file is posted to the CVISN Website in the Documents > PRISM section: <http://cvisn.fmcsa.dot.gov/default.aspx?PageID=prism>

## 2.6 Interface Terminals

### 2.6.1 Destination

A State system, such as CVIEW or its equivalent.

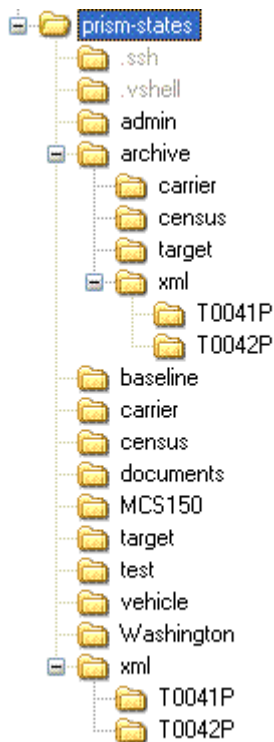
### 2.6.2 Communication/Transmission Process

The PRISM Targeted Vehicle Transaction T0041P and PRISM Targeted Carrier Transaction T0042P are generated by the PRISM Central Site and published in a ZIP file format on the Volpe Center FMCSA-Secure FTP (SFTP) server. States need to contact the FMCSA Help Desk at [FMCTechSup@dot.gov](mailto:FMCTechSup@dot.gov) to obtain the FMCSA IT System-to-System Account Request Form. Once the form is completed and faxed back to FMCSA, a private key file will be provided to the State to gain secure access to the server.

These files are also placed on the SAFER FTP server for downloading by approved States. Currently access to these transactions via the FTP server is being allowed on a case by case basis by FMCSA Security.

### 2.6.3 FMCSA SFTP Server Folder Structure

The root directory for the PRISM States logging in to the SFTP server is as follows:

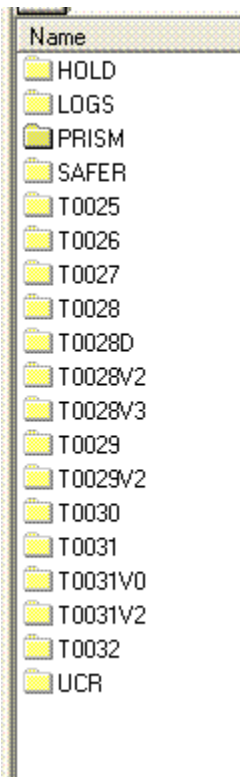


Daily-generated PRISM Targeted Vehicle Transaction files are placed in the xml/T0041P folder under the prism-states root folder. Daily-generated PRISM Targeted Carrier Transaction files are placed in the xml/T0042P folder under the prism-states root folder.

The T0041P, T0042P, and globalTypes XML schema files are located in the xml folder. At the start of the next scheduled run, the previous transaction file will be moved to the archive/xml/T0041P folder or archive/xml/T0042P folder as appropriate and the new file will be the only file in the production folder. There will be a month's worth of old daily files saved for historical purposes in the archive folder. If a transaction file was not generated for some reason during a scheduled generation run, the xml/T0041P folder and/or xml/T0042P folder will be empty.

#### 2.6.4 FMCSA SAFER FTP Server Folder Structure

The SAFER FTP directory folder structure is as follows:



The PRISM XML Transactions are accessed via the PRISM folder. The structure under the PRISM folder follows the directory structure as described above for the Secure FTP Server Folder Structure. Also the availability of the transactions files is exactly as described above for the Secure FTP Server.

### 2.6.5 Standards and Conventions

- Production transaction files are named T0041P\_YYYYMMDD.zip and T0042P\_YYYYMMDD.zip.
- XML Parsers expect Unicode by default – either UTF-8 or UTF-16. Any character set other than UTF-8 or UTF-16 must be specified with the “encoding” attribute in the XML header. For example:

<?xml version="1.0" encoding="US-ASCII"?> would be used if the ASCII character set were used to encode the document.

### 2.6.6 Conditional Processing

Conditional processing is at the discretion of the State system.

### 2.6.7 Data Validation

Data validation shall be done automatically in accordance with the schema defined for the transaction.

### 2.6.8 Error Processing/Recovery

Currently there are no errors handling procedures in place for PRISM.

### 2.6.9 Schedule/Frequency

The PRISM system is scheduled to create the T0041P transaction files by 6AM Mon-Sat EST and the T0042P transaction files by 6AM Mon-Fri EST . In the event that a file is not created as scheduled, that scheduled event will be skipped and a file will be generated during the next scheduled cycle.

### 2.6.10 Initiation Method

To initiate these transactions, the State system will log onto the FMCSA-SFTP site using a compatible Secure FTP client program to download the transaction file. The SFTP client and sample batch scripts for downloading the files are included in the PRISM SFTP Startup Package that is sent out by FMCSA Technical Support once the account request form is submitted and approved. Contact [PRISMTechnicalSupport@dot.gov](mailto:PRISMTechnicalSupport@dot.gov) for assistance with connecting to the server.

Alternatively, if States are accessing these files via the SAFER FTP site they would follow the procedures as described in the SAFER 8.1 Interface Control Document for downloading files.



### 2.6.11 Synchronization/Dependencies

Files in the transaction directories are ordered by embedding a date and time stamp in the file name. The State system should process the files in the time-sequenced order.

### 2.6.12 Priority

The priority for these transactions is at the discretion of the State system.

### 2.6.13 Maximum Transaction Size

The PRISM T0041P Baseline file contains about 100,000 records, and that number will increase periodically as more States join the PRISM Program. The PRISM T0042P Baseline file may exceed 40,000 carrier records.

## APPENDIX A: Example T0041P Transaction

Example showing 4 records from a file containing 88359 PRISM Targeted Vehicles

```
<?xml version = '1.0'?>
<T0041P xmlns="http://www.saftersys.org/namespaces/T0041PV1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.saftersys.org/namespaces/T0041PV1.xsd">
  <INTERFACE>
    <NAME>PRISM</NAME>
    <VERSION>04.1</VERSION>
  </INTERFACE>
  <TRANSACTION>
    <VERSION>01.01</VERSION>
    <OPERATION>BASELINE</OPERATION>
    <DATE_TIME>2009-02-10T03:26:51</DATE_TIME>
    <TZ>ED</TZ>
  </TRANSACTION>
  <PRISM_TARGETED_VEHICLE num="1">
    <VIN>1FUYSSEB3XLA35039</VIN>
    <SAFETY_CARRIER>1620236</SAFETY_CARRIER>
    <MCSIP_STEP>31</MCSIP_STEP>
    <LICENSE_PLATE_NUMBER>ICIC4J21</LICENSE_PLATE_NUMBER>
    <REGISTRATION_JURISDICTION>GA</REGISTRATION_JURISDICTION>
    <REGISTRATION_START_DATE>2008-11-01</REGISTRATION_START_DATE>
    <REGISTRATION_EXPIRE_DATE>2009-11-30</REGISTRATION_EXPIRE_DATE>
    <MAKE>FRHT</MAKE>
    <MODEL_YEAR>1999</MODEL_YEAR>
    <LAST_CENSUS_UPDATE_DATE>2009-02-10</LAST_CENSUS_UPDATE_DATE>
    <PVF_VEHICLE_FILE_CREATE_DATE>2009-02-10</PVF_VEHICLE_FILE_CREATE_DATE>
  </PRISM_TARGETED_VEHICLE>
  <PRISM_TARGETED_VEHICLE num="2">
    <VIN>1FUPDWEB6YDF54658</VIN>
    <SAFETY_CARRIER>1404087</SAFETY_CARRIER>
    <MCSIP_STEP>10</MCSIP_STEP>
    <LICENSE_PLATE_NUMBER>ICIC44P9</LICENSE_PLATE_NUMBER>
    <REGISTRATION_JURISDICTION>GA</REGISTRATION_JURISDICTION>
    <REGISTRATION_START_DATE>2009-07-01</REGISTRATION_START_DATE>
    <REGISTRATION_EXPIRE_DATE>2009-07-31</REGISTRATION_EXPIRE_DATE>
    <MAKE>FRHT</MAKE>
    <MODEL_YEAR>2000</MODEL_YEAR>
    <LAST_CENSUS_UPDATE_DATE>2009-02-10</LAST_CENSUS_UPDATE_DATE>
    <PVF_VEHICLE_FILE_CREATE_DATE>2009-02-10</PVF_VEHICLE_FILE_CREATE_DATE>
  </PRISM_TARGETED_VEHICLE>
  <PRISM_TARGETED_VEHICLE num="3">
    <VIN>1FUPCSZB8WP887281</VIN>
    <SAFETY_CARRIER>668154</SAFETY_CARRIER>
    <MCSIP_STEP>10</MCSIP_STEP>
```

```
<LICENSE_PLATE_NUMBER>ICIC8D77</LICENSE_PLATE_NUMBER>
<REGISTRATION_JURISDICTION>GA</REGISTRATION_JURISDICTION>
<REGISTRATION_START_DATE>2008-04-21</REGISTRATION_START_DATE>
<REGISTRATION_EXPIRE_DATE>2009-03-31</REGISTRATION_EXPIRE_DATE>
<MAKE>FRHT</MAKE>
<MODEL_YEAR>1998</MODEL_YEAR>
<LAST_CENSUS_UPDATE_DATE>2009-02-10</LAST_CENSUS_UPDATE_DATE>
<PVF_VEHICLE_FILE_CREATE_DATE>2009-02-10</PVF_VEHICLE_FILE_CREATE_DATE>
</PRISM_TARGETED_VEHICLE>
<PRISM_TARGETED_VEHICLE num="88359">
  <VIN>1FUPCSZB8YDA97647</VIN>
  <SAFETY_CARRIER>255268</SAFETY_CARRIER>
  <MCSIP_STEP>13</MCSIP_STEP>
  <LICENSE_PLATE_NUMBER>P189692</LICENSE_PLATE_NUMBER>
  <REGISTRATION_JURISDICTION>LA</REGISTRATION_JURISDICTION>
  <REGISTRATION_START_DATE>2009-01-01</REGISTRATION_START_DATE>
  <REGISTRATION_EXPIRE_DATE>2009-12-31</REGISTRATION_EXPIRE_DATE>
  <MAKE>FRHT</MAKE>
  <MODEL_YEAR>2000</MODEL_YEAR>
  <LAST_CENSUS_UPDATE_DATE>2009-02-10</LAST_CENSUS_UPDATE_DATE>
  <CVISN_LAST_UPDATE_DATE>2009-01-27</CVISN_LAST_UPDATE_DATE>
</PRISM_TARGETED_VEHICLE>
</T0041P>
```

## APPENDIX B: Example T0042P Transaction

Example showing 3 records from a file containing 39365 PRISM Targeted Carriers

```
<?xml version = '1.0'?>
<T0042P xmlns="http://prismws.fmcsa.dot.gov/namespaces/T0042PV1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://prismws.fmcsa.dot.gov/namespaces/T0042PV1.xsd">
  <INTERFACE>
    <NAME>PRISM</NAME>
    <VERSION>04.1</VERSION>
  </INTERFACE>
  <TRANSACTION>
    <VERSION>01.01</VERSION>
    <OPERATION>BASELINE</OPERATION>
    <DATE_TIME>2009-02-09T04:13:09</DATE_TIME>
    <TZ>ED</TZ>
  </TRANSACTION>
  <PRISM_TARGETED_CARRIER num="30">
    <CARRIER_ID_NUMBER>492124</CARRIER_ID_NUMBER>
    <CARRIER_NAME>DUANE A GERDES</CARRIER_NAME>
    <DBA_NAME>SUNNYVALE EXPRESS</DBA_NAME>
    <STREET>N2742 W SUNNYVALE RD</STREET>
    <CITY>BLACK RIVER FALLS</CITY>
    <STATE>WI</STATE>
    <ZIP_CODE>54615 </ZIP_CODE>
    <MCSIP_LEVEL>2</MCSIP_LEVEL>
    <MCSIP_LEVEL_DATE>20081219</MCSIP_LEVEL_DATE>
    <SAFESTAT_INDICATOR>217.76</SAFESTAT_INDICATOR>
    <SAFESTAT_DATE>20090123</SAFESTAT_DATE>
    <LAST_UPDATE_DATE>20070918</LAST_UPDATE_DATE>
    <LAST_UPDATE_USERID>SIBARRA </LAST_UPDATE_USERID>
  </PRISM_TARGETED_CARRIER>
  <PRISM_TARGETED_CARRIER num="31">
    <CARRIER_ID_NUMBER>465438</CARRIER_ID_NUMBER>
    <CARRIER_NAME>BILL CUMMINS</CARRIER_NAME>
    <DBA_NAME>NORTH DREW FREIGHT</DBA_NAME>
    <STREET>ROUTE 1 BOX 514 B</STREET>
    <CITY>DREW</CITY>
    <STATE>MS</STATE>
    <ZIP_CODE>38737 </ZIP_CODE>
    <MCSIP_LEVEL>2</MCSIP_LEVEL>
    <MCSIP_LEVEL_DATE>20090123</MCSIP_LEVEL_DATE>
    <SAFESTAT_INDICATOR>220.26</SAFESTAT_INDICATOR>
    <SAFESTAT_DATE>20090123</SAFESTAT_DATE>
    <LAST_UPDATE_DATE>20040728</LAST_UPDATE_DATE>
    <LAST_UPDATE_USERID>DUNLAM1 </LAST_UPDATE_USERID>
  </PRISM_TARGETED_CARRIER>
```

```
<PRISM_TARGETED_CARRIER num="39365">  
  <CARRIER_ID_NUMBER>1662712</CARRIER_ID_NUMBER>  
  <CARRIER_NAME>JAE & QUAYSON SERVICES LLC</CARRIER_NAME>  
  <STREET>2078 SUGAR CREEK FALL COURT SE</STREET>  
  <CITY>ATLANTA</CITY>  
  <STATE>GA</STATE>  
  <ZIP_CODE>30316 </ZIP_CODE>  
  <MCSIP_LEVEL>89</MCSIP_LEVEL>  
  <MCSIP_LEVEL_DATE>20090123</MCSIP_LEVEL_DATE>  
  <SAFESTAT_INDICATOR>246.87</SAFESTAT_INDICATOR>  
  <SAFESTAT_DATE>20090123</SAFESTAT_DATE>  
  <LAST_UPDATE_DATE>20090105</LAST_UPDATE_DATE>  
  <LAST_UPDATE_USERID>MCMIS </LAST_UPDATE_USERID>  
</PRISM_TARGETED_CARRIER>  
</T0042P>
```