

CBP and Trade Automated Interface Requirements

ACE Extract Reference File

June 25, 2018



U.S. Customs and
Border Protection





This chapter provides record formats, which allow Automated Commercial Environment (ACE) users to query codes and tariff data required on certain ACE records.

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Record Identifier F906 (Output)27

This is a conditional carrier code output record that provides data pertaining to an error code and error message. Whenever the Automated Commercial Environment (ACE) edits and validations reject a Carrier code query, the output includes Record Identifier F106 repeated exactly as it appeared on the input record followed by Record Identifier F906. 27

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A mandatory input record that requests update data for a range of Harmonized Tariff Schedule (HTS) tariff numbers. ACE users will be advised by a CSMS message when updates are available.28

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This is a mandatory output extract reference file record that provides Harmonized Tariff Schedule (HTS) data for a range of tariff numbers and a narrative message.....29

Record Identifier F111 (Input)30

The is a mandatory location of goods (FIRMS) input record that provides data pertaining to the reference file code, FIRMS code, name of facility, district code, and begin date. The FIRMS code is located on Record Identifiers 20 (Entry Summary –AE), X10 (Line Release), and SE11 (Cargo Release). All records associated with the query are returned. For example, if the facility name query is *YEL*, data for all facility names beginning with *YEL* are returned. Likewise, if the facility name query is *Y*, data for all facility names beginning with *Y* are returned.30

Record Identifier F211 (Output)32

This is a conditional location of goods (FIRMS) output record that provides data pertaining to the reference file code, district/port code, FIRMS code, status, facility type and name of the facility.....32

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This is a mandatory location of goods (FIRMS) output record that provides data pertaining to the ZIP code, country, error code and error message. Whenever the Automated Commercial Environment (ACE) edits and validations reject a FIRMS code query, the output includes Record Identifier F111 repeated exactly as it appeared on the input record followed by Record Identifier F411.....35

Error Appendix.....36



Table of Changes

Revision Number	Date of Change	Section(s) Affected	Brief Description of Change
5	6/25/2018	(A) Remove F112 input and output records & errors. (B) Error Appendix	(A) F112 Import Spec Team Assignment query no longer needed (ref. CSMS# 18-000282 for new web link) (B) Added error 005 for F111 (FIRMS) query
4	2/12/2018	(A) Remove F105 input and output records. (B) F106 Carrier record output descriptions	(A) F105 Zip Code query no longer needed. Zip code reference data no longer maintained in ACE. (B) Clarification provided for F106 Carrier file Query output.
3	11/27/2017	New appendix-End of document. F906, F411, F912 output records.	Added Error Appendix and hyperlinks from "Error Code" field of output records F906, F411 and F912 to the Error Appendix.
2	10/12/2017	F906 record, F912 record	--Corrected the Filler length from 17AN to 28AN at position 5-32. --Corrected last Filler starting position from 52 to 76.
1	9/28/2017	(A) F106 Output record, Carrier Name field, at position 9 (B) New F906 record for Carrier Code file Query output (C) New F912 record for Import Specialist Team Assignment file Query output	(A) Carrier Name field usage now "C". It is conditional for when the Carrier code is not found/active, so no information is available. (B) This record is conditionally used for sending an error message to the user to indicate the query's reason for rejection. (C) This record is conditionally used for sending an error message to the user to indicate the query's reason for rejection.



Extract Reference File

Extract reference files provide up-to-date data on:

- Region/District/Port Codes
- Country Codes
- Foreign Port Codes
- Carrier Codes
- Harmonized Tariff Schedule
- Facilities Information and Resources Management System (FIRMS) Codes

Extract reference files are useful for editing and cross-referencing input data. The U.S. Customs and Border Protection (CBP) notifies Automated Commercial System (ACE) users through the Cargo Systems Messaging Service (CSMS) when an update has been made to a file. This allows users to update their own files. For subscription instructions, go to <http://www.cbp.gov/xp/cgov/trade/automated/modernization/>.

Region/District/Port Code File

The Region/District/Port Code File identifies each region/district/port of CBP.

Input: Record Identifier F101 is a mandatory region/district/port code input record.

The application identifier on Record Identifier B is FQ. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.

Output: Record Identifiers F101, F201, and F301 are mandatory region/district/port records. Record Identifier F401 is conditional.

The application identifier on Record Identifier B is FO. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.



Country Code File

International Organization for Standardization (ISO) country codes are contained in the Country Code File.

Input: Record Identifier F102 is a mandatory Country Code File record.

The application identifier on Record Identifier B is FQ. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.

Output: Record Identifier F102 is a mandatory Country Code File record.

The application identifier on Record Identifier B is FO. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.

Foreign Port Code File

The Foreign Port Code file provides the codes assigned to foreign ports.

Input: Record Identifier F104 is a mandatory foreign port code record.

The application identifier on Record Identifier B is FQ. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.

Output: Record Identifier F104 is a mandatory port code record.

The application identifier on Record Identifier B is FO. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.

Carrier Code File

The Carrier Code File provides data pertaining to air and vessel carriers.

Input: Record Identifier F106 is a mandatory Carrier Code File record.

The application identifier on Record Identifier B is FQ. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.

Output: Record Identifier F106 is a mandatory Carrier Code File record.

If the F106 Carrier Code Query is rejected, Record Identifier F906 will also be output for an error code and error message.

The application identifier on Record Identifier B is FO. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.



Harmonized Tariff Schedule File

The Harmonized Tariff Schedule File provides the classification number of goods imported into the United States.

Input: Record Identifier F110 is a mandatory Harmonized Tariff Schedule record.

The application identifier on Record Identifier B is HB. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.

Output: Record Identifier F110 is a mandatory Harmonized Tariff Schedule record.

The application identifier on Record Identifier B is HZ. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.

Note: Record Identifier F110 (Input) and F110 (Output) are also included in the Harmonized Tariff Schedule chapter of this publication.

Facilities Information and Resources Management System (FIRMS) Code

The Facilities Information and Resources Management System (FIRMS) Code identifies the CBP facility where the goods are located.

Input: Record Identifier F111 is a mandatory location of goods (FIRMS) record.

The application identifier on Record Identifier B is FQ. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.

Output: Record Identifier F411 is a mandatory location of goods (FIRMS) record. Record Identifiers F211 and F311 are conditional.

The application identifier on Record Identifier B is FO. For additional information on Record Identifier B, refer to the ACE ABI Batch & Block Control chapter of this publication.



Record Identifier F101 (Input)

This is a mandatory region/district/port input record that provides data pertaining to the reference file code for the Region/District/Port Code file.

<i>Record Identifier F101 (Input)</i>					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 1.	
Reference File Code	2N	3-4	M	Must always equal 01.	
Filler	76AN	5-80	M	Space fill.	



Record Identifier F101 (Output)

This is a mandatory region/district/port output record that provides data pertaining to the reference file code, region/district/port code, name, address, and carrier type.

Record Identifier F101 (Output)															
Data Element	Length/Class	Position	Status	Description	Note										
Control Identifier	1A	1	M	Must always equal F.											
Record Type	1N	2	M	Must always equal 1.											
Reference File Code	2N	3-4	M	Must always equal 01.											
Region/District/Port Code	5N	5-9	M	A code representing the region/district/port. Valid Region/District/Port Codes can be queried through Record Identifier F101 of this chapter.											
Region/District/Port Name	24AN	10-33	M	The name of the region/district/port. Valid Region/District/Port Codes can be queried through Record Identifier F101 of this chapter.											
Region/District/Port Address Line 1	32AN	34-65	M	The first line of the region/district/port address.											
District/Port Carrier Type	1AN	66	M	<p>A code representing the district/port carrier type. Valid District/Port Carrier Type Codes are:</p> <table border="0"> <tr> <td>Code</td> <td>Description</td> </tr> <tr> <td>B</td> <td>All modes of transportation are valid.</td> </tr> <tr> <td>V</td> <td>Vessel and other modes of transportation are valid with the exception of air.</td> </tr> <tr> <td>A</td> <td>Air and other modes of transportation are valid with the exception of vessel.</td> </tr> <tr> <td>Space Fill</td> <td>Air and other modes of transportation are valid with the exception of vessel (not covered by district/port carrier type code A).</td> </tr> </table>	Code	Description	B	All modes of transportation are valid.	V	Vessel and other modes of transportation are valid with the exception of air.	A	Air and other modes of transportation are valid with the exception of vessel.	Space Fill	Air and other modes of transportation are valid with the exception of vessel (not covered by district/port carrier type code A).	
Code	Description														
B	All modes of transportation are valid.														
V	Vessel and other modes of transportation are valid with the exception of air.														
A	Air and other modes of transportation are valid with the exception of vessel.														
Space Fill	Air and other modes of transportation are valid with the exception of vessel (not covered by district/port carrier type code A).														
Primary Team Location	4N	67-70	M	The location (district/port code) where most, if not all, entry summaries are reviewed by import specialist teams.											



Record Identifier F101 (Output)					
Data Element	Length/ Class	Position	Status	Description	Note
Secondary Team Location	4N	71-74	C	The location (district/port code) where some entry summaries are reviewed by teams in a location other than the primary team location.	
Port of Unlading	1N	75	M	A code of <i>1</i> (valid) or <i>0</i> (invalid) indicating the validity of the port of unlading.	
Filler	5X	76-80	M	Space fill.	



Record Identifier F201 (Output)

This is a mandatory region/district/port output record that provides data pertaining to the region/ district/port code and address.

Record Identifier F201 (Output)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 2.	
Reference File Code	2N	3-4	M	Must always equal 01.	
Region/District/Port Code	5N	5-9	M	The region/district/port code must be the same as the Region/District/Port Code in Record Identifier F101 (output) of this chapter.	
Region/District/Port Address Line 2	32AN	10-41	C	The second line of the region/district/port address. City, state, and zip code are included in Record Identifier F301 of this chapter. If there is no second line address, space fill.	
Region/District/Port Address Line 3	32AN	42-73	C	The third line of the region/district/port address. City, state, and ZIP code are included in Record Identifier F301 of this chapter. If there is no third line address, space fill.	
Filler	7AN	74-80	M	Space fill.	



Record Identifier F301 (Output)

This is a mandatory region/district/port output record that provides data pertaining to the region/district/port code, city, state, and ZIP code.

<i>Record Identifier F301 (Output)</i>					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 3.	
Reference File Code	2N	3-4	M	Must always equal 01.	
Region/District/Port Code	5N	5-9	M	The region/district/port code must be the same as the Region/District/Port Code in Record Identifier F101 (Output) of this chapter.	
Region/District/Port City	15AN	10-24	M	The City where the region/district/port is located.	
Region/District/Port State	2A	25-26	M	The state where the region/district/port is located.	
Region/District/Port Zip Code	9AN	27-35	M	The Zip code of the region/district/port.	
Filler	45AN	36-80	M	Space fill.	



Record Identifier F401 (Output)

This is a conditional region/district/port output record that provides data pertaining to the region/ district/port code and subport code.

Record Identifier F401 (Output)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 4.	
Reference File Code	2N	3-4	M	Must always equal 01.	
Region/District/Port Code	5N	5-9	M	The Region/District/Port Code is the same as the Region/District/Port Code in Record Identifier F101 (Output) of this chapter.	
Region/District/Port/Subport Code	5N	10-14	C	A code representing the region/district/port subport. Valid codes can be queried through Record Identifier F101 of this chapter.	
Filler	66AN	15-80	M	Space fill.	



Record Identifier F102 (Input)

This is a mandatory country code input record that provides data pertaining to the reference file code for the Country Code file.

<i>Record Identifier F102 (Input)</i>					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 1.	
Reference File Code	2N	3-4	M	Must always equal 02.	
Filler	76AN	5-80	M	Space fill.	

Record Identifier F102 (Output)

This is a mandatory country code output record that provides data pertaining to the reference file code, country, rate column indicator, restriction indicator, Generalized System of Preferences (GSP) indicator, begin and end date, special programs indicator, country name, and currency name and ISO currency code.

Record Identifier F102 (Output)					
Data Element	Length/Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 1.	
Reference File Code	2N	3-4	M	Must always equal 02.	
Country	2A	5-6	M	The International Organization for Standardization (ISO) country code representing the country. Valid ISO country codes are listed in Appendix B of this publication.	
Rate Column Indicator	1N	7	C	A code indicating the column that contains the rate of duty. Valid Rate Column Indicator Codes are: 1 = Column 1 2 = Column 2 3 = Least Developed Developing Country (LDDC)	
Restriction Indicator	1N	8	C	A code representing the restriction indicator. Valid Restriction Indicator Codes are: 1 = Restricted 0 = Not restricted	
Generalized System of Preferences (GSP) Indicator	1N	9	C	A code representing the GSP indicator. Valid GSP Indicator Codes are: 0 = GSP is not applicable 1 = GSP is applicable	
Generalized System of Preferences (GSP) Begin Date	6X	10-15	C	A numeric date in MMDDYY (month, day, year) format representing the GSP begin date.	
Generalized System of Preferences (GSP) End Date	6X	16-21	C	A numeric date in MMDDYY (month, day, year) format representing the GSP end date.	



Record Identifier F102 (Output)					
Data Element	Length/ Class	Position	Status	Description	Note
Special Programs Indicator (SPI) Code	1X	22	C	<p>A code representing the special programs indicator.</p> <p>Valid Special Program Indicator Codes are:</p> <p>Code Description</p> <p>E Caribbean Basin Initiative (CBI) I Israeli Free Trade Agreement J Andean Trade Preference Act (ATPA) Y Insular Possessions Z Freely Associated States 1 Jordan 2 Chile 3 Singapore 4 Australia 5 Morocco 6 Bahrain 7 Oman 8 South Korea Free Trade Agreement</p>	
Country Name	30X	23-52	M	The country name spelled out.	
Currency Name	15X	53-67	C	The currency name is reserved for future use.	
ISO Currency Code	3X	68-70	C	The currency code is reserved for future use.	
Drawback Eligibility	1X	71	C	A code of either 0 (not eligible for drawback) or 1 (eligible for drawback).	
Country Code	4AN	72-75	C	The Schedule C Country number identifying the country. Schedule C numbers are listed in Annex A of the <i>Harmonized Tariff Schedule of the United States, Annotated</i> .	
AGOA/CBTPA/ATPDEA SPI Indicator	1X	76	C	<p>A code representing the eligibility to the AGOA (African Growth & Opportunity Act), CBTPA (Caribbean Basin Trade Partnership Act or Andean Trade Promotion & Drug Eradication Act (ATPDEA) Special Trade Programs). Valid Special Program Indicators are:</p> <p>Code Description</p> <p>D AGOA R CBTPA J ATPDEA Spaces A country not considered to be an AGOA or CBTPA eligible country</p>	



Record Identifier F102 (Output)					
Data Element	Length/ Class	Position	Status	Description	Note
AGOA LDD Indicator (AGOA Lesser Developed Beneficiary Country)	1X	77	C	A code indicating if the country is considered an AGOA LDD country. Valid code is: Code Description 1 The country considered an AGOA LDD country Blank The country is not considered an AGOA LDD country.	
Filler	3AN	78-80	M	Space fill.	

Record Identifier F202 (Output)

This is a conditional country code output record that provides data pertaining to a country, rate of duty, restriction, and special programs.

Record Identifier F202 (Output)					
Data Element	Length/Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1A	2	M	Must always equal 2.	
Reference File Code	2N	3-4	M	Must always equal 02.	
Country	2A	5-6	M	The International Organization for Standardization (ISO) country code. Valid ISO country codes are listed in Appendix B of this publication.	
Rate Column Indicator	1N	7	C	A code indicating the column that contains the rate of duty. This field will only be shown if the Rate Column effective dates are indicated. Valid Rate Column Indicator codes are: 1 = Column 1 2 = Column 2 3 = Least Developed Developing Country (LDDC)	
Rate Column Begin Date	6X	8-13	C	A numeric date in MMDDYY (month, day, year) format representing the beginning effective date for the Rate Column Indicator.	
Rate Column End Date	6X	14-19	C	A numeric date in MMDDYY (month, day, year) format representing the ending effective date for the Rate Column Indicator.	
Restriction Indicator	1N	20	C	A code representing a restriction. This field will only be shown if the restriction effective dates are indicated. Valid Restriction Indicator codes are: 0 = not restricted 1 = restricted	
Restriction Indicator Begin Date	6X	21-26	C	A numeric date in MMDDYY (month, day, year) format representing the beginning effective date for the Restriction Indicator.	
Restriction Indicator End Date	6X	27-32	C	A numeric date in MMDDYY (month, day, year) format representing the ending effective date for the Restriction Indicator.	



Record Identifier F202 (Output)					
Data Element	Length/ Class	Position	Status	Description	Note
Special Programs Indicator (SPI) Code	1N	33	C	<p>A code identifying the applicable special programs. Valid Special Program Indicator codes are:</p> <p>Code Description</p> <p>E Caribbean Basin Initiative (CBI) I Israeli Free Trade Agreement J Andian Trade Preference Act (ATPA) Y Insular Possessions Z Freely Associated States 1 Jordon 2 Chile 3 Singapore 4 Australia 5 Morocco 6 Bahrain 7 Oman 8 South Korea Free Trade Agreement</p>	
Special Programs Indicator Begin Date	6X	34-39	C	A numeric date in MMDDYY (month, day, year) format representing the beginning effective date for the Special Programs Indicator.	
Special Programs Indicator End Date	6X	40-45	C	A numeric date in MMDDYY (month, day, year) format representing the ending date for the Special Programs Indicator.	
AGOA/CBTPA/ ATPDEA SPI Indicator	1X	46	C	<p>A code representing the eligibility to the AGOA (African Growth & Opportunity Act), CBTPA (Caribbean Basin Trade Partnership Act or Andean Trade Promotion & Drug Eradication Act (ATPDEA) Special Trade Programs). Valid Special Program Indicators are:</p> <p>Code Description</p> <p>D AGOA R CBTPA J ATPDEA Spaces A country not considered to be an AGOA or CBTPA eligible country.</p>	



Record Identifier F202 (Output)					
Data Element	Length/ Class	Position	Status	Description	Note
AGOA LDD Indicator (AGOA Lesser Developed Beneficiary Country)	1X	47	C	<p>A code indicating if the country is considered an AGOA LDD country. Valid code is:</p> <p>Code Description 1 The country considered an AGOA LDD Country Blank The country is not considered an AGOA LDD country.</p>	
AGOA/CBTPA/ATPDEA Special Programs Indicator Begin Date	6X	48-53	C	<p>A date in MMDDYY (month, day, year) format representing the beginning date for the AGOA/CBTPA/ATPDEA Special Programs Indicator.</p> <p>If the AGOA/CBTPA/ATPDEA indicator = D in position 46, then positions 48-53 represent the begin date for the AGOA trade program.</p> <p>If the AGOA/CBTPA/ATPDEA = R in position 46, then positions 48-53 represent the begin date for the CBTPA trade program.</p> <p>If the AGOA/CBTPA/ATPDEA indicator = J in position 46, then positions 48-53 represent the begin date for the ATPDEA trade program.</p>	



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AGOA/CBTPA/ATPDEA Special Programs Indicator End Date	6X	54-59	C	<p>A date in MMDDYY (month, day, year) format representing the ending date for the AGOA/CBTPA/ATPDEA Special Programs Indicator.</p> <p>If the AGOA/CBTPA/ATPDEA indicator = D in position 46, then positions 54-59 represents the end date of the AGOA trade program.</p> <p>If the AGOA/CBTPA/ATPDEA indicator = "R", in position 46, then positions 54-59 represents the end date of the CBTPA trade program.</p> <p>If the AGOA/CBTPA/ATPDEA indicator = J, in position 46, then positions 54-59 represents the end date for the ATPDEA trade program.</p>	
Record Identifier F202 (Output)					
Data Element	Length/Class	Position	Status	Description	Note
Miscellaneous SPI Indicator	2X	60-61	C	A code of "P" indicates eligible for CAFTA benefits. A code of "CO" indicates eligible for Colombia TPA benefits. A code of "PA" indicates eligible for Panama TPA benefits.	
Miscellaneous SPI Begin Date	6X	62-67	C	<p>A numeric date in MMDDYY (month, day, year) format, representing the begin date for the miscellaneous indicator.</p> <p>If the miscellaneous indicator is "P", indicates the begin date for CAFTA benefits.</p>	
Miscellaneous SPI End Date	6X	68-73	C	<p>A numeric date in MMDDYY (month, day, year) format, representing the end date for the miscellaneous indicator.</p> <p>If the miscellaneous indicator is "P", indicates the end date for the CAFTA benefits.</p>	
Filler	7AN	74-80	M	Space fill.	



Record Identifier F104 (Input)

This is a mandatory port code (Schedule K) input record that provides data pertaining to the reference file code for the Foreign Port Code file.

<i>Record Identifier F104 (Input)</i>					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 1.	
Reference File Code	2N	3-4	M	Must always equal 04.	
Filler	76AN	5-80	M	Space fill.	



Record Identifier F104 (Output)

This is a mandatory foreign port of lading code (Schedule K) output record that provides data pertaining to the reference file code, foreign port of lading code, and foreign port of lading name.

<i>Record Identifier F104 (Output)</i>					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 1.	
Reference File Code	2N	3-4	M	Must always equal 04.	
Foreign Port of Lading Code	5N	5-9	M	The code identifying the foreign port of lading.	
Foreign Port of Lading Name	30A	10-39	C	The name of the foreign port of lading spelled out.	
Filler	41AN	40-80	M	Space fill.	



Record Identifier F106 (Input)

This is a mandatory carrier input record that provides data pertaining to the reference file code for the Carrier file. To receive only air carrier data, complete all data elements except the vessel carrier name and carrier code so that Record Identifier F106 (output) will generate a complete list of all air carrier names and codes, and air waybill prefixes.

Record Identifier F106 (Input)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 1.	
Reference File Code	2N	3-4	M	Must always equal 06.	
Carrier Name	35AN	5-39	C	The carrier name spelled out.	
Carrier Code	4AN	40-43	C	A 2, 3, or 4 position code identifying the carrier.	
Filler	37AN	44-80	M	Space fill.	



Record Identifier F106 (Output)

This is a mandatory carrier output record that provides data pertaining to the reference file code, carrier name, code and mode of transportation codes. When the vessel carrier name is provided on Record Identifier F106 (input), ACE will match the characters provided. Only the first exact match will be included in this output record. If there is no match, an error message is system generated. Note that addresses are not maintained for air carriers and some vessel carriers.

Record Identifier F106 (Output)					
Data Element	Length/Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 1.	
Reference File Code	2N	3-4	M	Must always equal 06.	
Carrier Code	4AN	5-8	M	A 2, 3, or 4 position code identifying the carrier.	
Carrier Name	35X	9-43	C	The carrier name spelled out, if the carrier exists and is active in ACE.	
Carrier Mode of Transportation	2N	44-45	C	If the carrier exists and is active in ACE, a code representing the carrier mode of transportation. When only air carrier data is requested, only Air Carrier Codes will be provided.	1
Carrier Address	32X	46-77	C	The address of the carrier, if found, and if the carrier exists and is active in ACE.	
Airway Bill Prefix	3AN	78-80	C	The International Air Transport Association (IATA) prefix, if found, and if the air carrier exists and is active in ACE.	

Note 1

Valid Carrier Mode of Transportation Codes are:

Code	Description	Code	Description
10	Vessel, non-container or unable to determine if container (e.g., Lightered, Land Bridge, and LASH)	34	Road (e.g., foot and animal-borne)
11	Vessel, container	40	Air
12	Border, water-borne	41	Air Container
20	Rail	50	Mail
30	Truck	60	Passenger, hand-carried
32	Auto	70	Fixed transport (e.g., pipeline & powerhouse)
33	Pedestrian	80	Not used at this time



Record Identifier F906 (Output)

This is a conditional carrier code output record that provides data pertaining to an error code and error message. Whenever the Automated Commercial Environment (ACE) edits and validations reject a Carrier code query, the output includes Record Identifier F106 repeated exactly as it appeared on the input record followed by Record Identifier F906.

Record Identifier F906 (Output)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 9.	
Reference File Code	2N	3-4	M	Must always equal 06.	
Filler	28AN	5-32	M	Space fill.	
Error Code	3AN	33-35	C	A code identifying the error message.	
Error Message	40X	36-75	C	A narrative message providing the text of the error message.	
Filler	5AN	76-80	M	Space fill.	



Record Identifier F110 (Input)

A mandatory input record that requests update data for a range of Harmonized Tariff Schedule (HTS) tariff numbers. ACE users will be advised by a CSMS message when updates are available.

<i>Record Identifier F110 (Input)</i>					
Data Element	Length/Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type Code	1N	2	M	Must always equal 1.	
Reference File Code	2N	3-4	M	Must always equal 10.	
Harmonized Update Number	4N	5-8	O	A number representing the HTS update number. Each succeeding update during the year will be incremented by one. If this data element is space filled, the latest (highest) update numbers are transmitted.	
From Harmonized Number	10AN	9-18	O	A number representing the starting point for the HTS update. Update records are transmitted beginning with the first record that is equal to or greater than this number. If this data element is space filled, updates beginning with the lowest number are transmitted.	
To Harmonized Number	10AN	19-28	O	The last HTS number included in the update will be the first record that is greater than this number. Records equal to this number are included. If this data element is space filled, updates equal to or greater than the From Harmonized Number are to be extracted to the end of the update file.	
Filler	52AN	29-80	M	Space fill.	



Record Identifier F110 (Output)

This is a mandatory output extract reference file record that provides Harmonized Tariff Schedule (HTS) data for a range of tariff numbers and a narrative message.

Record Identifier F110 (Output)					
Data Element	Length/Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Identifier	1N	2	M	Must always equal 1.	
Reference File Code	2N	3-4	M	Must always equal 10.	
Harmonized Update Number	4N	5-8	O	The Harmonized Update Number from Record Identifier F110 (Input). If no Harmonized Update Number was provided in Record Identifier F110 (Input), updates from the first update number are provided.	
From Harmonized Number	10AN	9-18	O	The From Harmonized Number from Record Identifier F110 (Input).	
To Harmonized Number	10AN	19-28	O	The To Harmonized Number from Record Identifier F110 (Input).	
Narrative Message	52AN	29-80	O	A narrative message explaining the processing results. Messages are: INVALID UPDATE NUMBER TARIFF RANGE INCORRECTLY SPECIFIED NO UPDATES FOUND IN THIS RANGE If there are no errors, the updated records are transmitted.	



Record Identifier F111 (Input)

The is a mandatory location of goods (FIRMS) input record that provides data pertaining to the reference file code, FIRMS code, name of facility, district code, and begin date. The FIRMS code is located on Record Identifiers 20 (Entry Summary –AE), X10 (Line Release), and SE11 (Cargo Release). All records associated with the query are returned. For example, if the facility name query is *YEL*, data for all facility names beginning with *YEL* are returned. Likewise, if the facility name query is *Y*, data for all facility names beginning with *Y* are returned.

Record Identifier F111 (Input)					
Data Element	Length/Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 1.	
Reference File Code	2N	3-4	M	Must always equal 11.	
FIRMS Code	4AN	5-8	C	<p>A Facilities Information and Resources Management System (FIRMS) code representing the location of goods.</p> <p>Each FIRMS Code query transaction requires the transmission of only one F111 record. Any number of F111 records can be included in a single transmission, batch or block. If this record contains a FIRMS Code, the Name of the Facility (positions 9-43) and the District Code (positions 44-45) must be space filled.</p>	
Name of Facility	35X	9-43	C	<p>The name of the facility where the goods are located.</p> <p>This name is left justified. If there is a FIRMS Code in positions 5-8, space fill. If there is a Facility Name, the District Code (positioned 44-45) is required.</p> <p>No matter how many characters are transmitted in the Name of Facility field, data is returned for all FIRMS codes assigned to the specific district which have the same set of characters at the beginning of the facility name in the FIRMS Code file.</p> <p>For example, if <i>Yellow</i> is transmitted in the Name of Facility field, data for all records associated with the specified district and having the facility name beginning with <i>Yellow</i> are returned.</p>	



Record Identifier F111 (Input)					
Data Element	Length/ Class	Position	Status	Description	Note
District Code	2N	44-45	C	<p>The district code is the first two numbers of the district/port code.</p> <p>Valid District/Port codes can be queried through Record Identifier F101 of this chapter. If there is a FIRMS Code in positions 5-8, space fill. A query can be on the District Code, or on the District Code and Name of Facility.</p>	
Begin Date	6N	46-51	C	<p>A numeric date in MMDDYY (month, day, year) format representing the begin date.</p> <p>This date cannot be in the future. If a begin date is used, only those FIRMS codes which were added or updated on or after that date will be returned. A query by begin date can only be requested if the begin date is transmitted by itself or in conjunction with a district code. The FIRMS code or facility name cannot be used with a begin date.</p>	
Filler	29AN	52-80	M	Space fill.	

Record Identifier F211 (Output)

This is a conditional location of goods (FIRMS) output record that provides data pertaining to the reference file code, district/port code, FIRMS code, status, facility type and name of the facility.

Record Identifier F211 (Output)																											
Data Element	Length/Class	Position	Status	Description	Note																						
Control Identifier	1A	1	M	Must always equal F.																							
Record Type	1N	2	M	Must always equal 2.																							
Reference File Code	2N	3-4	M	Must always equal 11.																							
District/Port Code	4N	5-8	M	A code representing the district/port code. Valid district/port codes can be queried through Record Identifier F101 of this chapter.																							
FIRMS Code	4AN	9-12	M	A Facilities Information and Resources Management System (FIRMS) Code representing the location of the goods.																							
Status	1A	13	M	A code of <i>A</i> indicates the status is active; a code of <i>D</i> indicates a deactivated status.																							
Facility Type	2N	14-15	M	A code identifying the facility type. Valid Facility Type Codes are: <table border="0"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Container Freight Station</td> </tr> <tr> <td>02</td> <td>Foreign Trade Zone</td> </tr> <tr> <td>03</td> <td>Pier</td> </tr> <tr> <td>04</td> <td>Bonded Warehouse</td> </tr> <tr> <td>05</td> <td>Inspection Facility</td> </tr> <tr> <td>06</td> <td>Importer's Premises</td> </tr> <tr> <td>07</td> <td>Data Processing Site</td> </tr> <tr> <td>08</td> <td>CBP Administrative Site</td> </tr> <tr> <td>09</td> <td>CES</td> </tr> <tr> <td>10</td> <td>Multi Use Bonded</td> </tr> </tbody> </table> Facilities with Type Code 07 or 08 should not be used for entry purposes.	Code	Description	01	Container Freight Station	02	Foreign Trade Zone	03	Pier	04	Bonded Warehouse	05	Inspection Facility	06	Importer's Premises	07	Data Processing Site	08	CBP Administrative Site	09	CES	10	Multi Use Bonded	
Code	Description																										
01	Container Freight Station																										
02	Foreign Trade Zone																										
03	Pier																										
04	Bonded Warehouse																										
05	Inspection Facility																										
06	Importer's Premises																										
07	Data Processing Site																										
08	CBP Administrative Site																										
09	CES																										
10	Multi Use Bonded																										
Name of Facility	35X	16-50	M	The name of the facility where the goods are located.																							
Last Update	6N	51-56	M	A numeric date in MMDDYY (month, day, year) format representing the last update.																							



ACE ABI CATAIR - Customs and Trade Automated Interface Requirements



Filler	24AN	57-80	M	Space fill.	
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Record Identifier F311 (Output)

This is a conditional location of goods (FIRMS) file output record that provides data pertaining to the reference file code, facility address, city and state.

Record Identifier F311 (Output)																																	
Data Element	Length/Class	Position	Status	Description	Note																												
Control Identifier	1A	1	M	Must always equal F.																													
Record Type	1N	2	M	Must always equal 3.																													
Reference File Code	2N	3-4	M	Must always equal 11.																													
Facility Address	35X	5-39	M	The street address or Post Office box number of the facility where the goods are located.																													
City	35X	40-74	M	The name of the city where the goods are located.																													
State	2AN	75-76	M	<p>The United States Postal Service state abbreviation or Canadian province/territory where the goods are located. Valid Canadian Province/Territory Codes are:</p> <table border="0"> <thead> <tr> <th>Code</th> <th>Province/Territory</th> </tr> </thead> <tbody> <tr> <td>AB</td> <td>Alberta</td> </tr> <tr> <td>BC</td> <td>British Columbia</td> </tr> <tr> <td>MB</td> <td>Manitoba</td> </tr> <tr> <td>NB</td> <td>New Brunswick</td> </tr> <tr> <td>NL</td> <td>Newfoundland (including Labrador)</td> </tr> <tr> <td>NT</td> <td>Northwest Territories</td> </tr> <tr> <td>NS</td> <td>Nova Scotia</td> </tr> <tr> <td>ON</td> <td>Ontario</td> </tr> <tr> <td>PE</td> <td>Prince Edward Island</td> </tr> <tr> <td>PQ</td> <td>Quebec</td> </tr> <tr> <td>SK</td> <td>Saskatchewan</td> </tr> <tr> <td>YT</td> <td>Yukon Territory</td> </tr> <tr> <td>XV</td> <td>Nunavat</td> </tr> </tbody> </table>	Code	Province/Territory	AB	Alberta	BC	British Columbia	MB	Manitoba	NB	New Brunswick	NL	Newfoundland (including Labrador)	NT	Northwest Territories	NS	Nova Scotia	ON	Ontario	PE	Prince Edward Island	PQ	Quebec	SK	Saskatchewan	YT	Yukon Territory	XV	Nunavat	
Code	Province/Territory																																
AB	Alberta																																
BC	British Columbia																																
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NB	New Brunswick																																
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NT	Northwest Territories																																
NS	Nova Scotia																																
ON	Ontario																																
PE	Prince Edward Island																																
PQ	Quebec																																
SK	Saskatchewan																																
YT	Yukon Territory																																
XV	Nunavat																																
Filler	4AN	77-80	M	Space fill.																													

Record Identifier F411 (Output)

This is a mandatory location of goods (FIRMS) output record that provides data pertaining to the zip code, country, error code and error message. Whenever the Automated Commercial Environment (ACE) edits and validations reject a FIRMS code query, the output includes Record Identifier F111 repeated exactly as it appeared on the input record followed by Record Identifier F411.

Record Identifier F411 (Output)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	1A	1	M	Must always equal F.	
Record Type	1N	2	M	Must always equal 4.	
Reference File Code	2N	3-4	M	Must always equal 11.	
ZIP Code	9AN	5-13	C	The United States Postal Service ZIP code identifying the area where the facility is located.	
Country	2A	14-15	C	The International Organization for Standardization (ISO) country code. Valid ISO Country Codes are listed in Appendix B of this publication.	
Filler	17AN	16-32	M	Space fill.	
Error Code	3AN	33-35	C	A code identifying the error message.	
Error Message	40X	36-75	C	A narrative message providing the text of the error message.	
Filler	5AN	76-80	M	Space fill.	

Error Appendix

F906 (Carrier Code Query Output Record) Error codes and messages

- C01INVALID CARRIER CODE
- C02CARRIER NAME NOT ON FILE
- C03CARRIER NOT ACTIVE
Carrier Code or Carrier Name can be found but is not active

F411 (FIRMS Code Query Output Record) Error codes and messages

- 001NAME SPECIFIED WITH FIRMS CODE
- 002PORT SPECIFIED WITH FIRMS CODE
- 003NAME AND PORT SPEICIFIED WITH FIRMS CODE
- 004PORT REQUIRED IF FACILITY NAME SPECIFIED
- 005STREET ADDRESS NOT ON FILE
- 012FIRMS CODE NOT ON FILE
- 0D6FACILITY NAME NOT ON FILE
- ~~F15INVALID FIRMS CODE~~
- F31INVALID OR FUTURE DATE