

CyberSource Verification Services

Using the SCMP API

September 2017



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Contents

Recent Revisions to This Document 6

About This Guide 7

Audience and Purpose 7

Scope 7

Conventions 8

 Note and Important Statements 8

 Text and Command Conventions 8

Related Documents 9

Customer Support 9

Chapter 1 Introducing Verification Services 10

Delivery Address Verification 10

 Address Validation 11

 Address Standardization 12

 Countries Supported by Delivery Address Verification 12

 Status and Error Codes 12

Export Compliance 13

Chapter 2 Integrating Verification Services into Your Business 14

Requesting Delivery Address Verification 14

 Interpreting the Delivery Address Verification Reply 15

 Returned Reply Fields 15

Requesting Export Compliance 17

 Handling the Results of Denied Parties List Checks 17

 Excluding Export Compliance Results 18

 Configuring Denied Parties List Matches 19

 Adjusting Name and Address Word Matching 20

 Defining Name and Address Matching Rules 20

Chapter 3	Testing Verification Services	22
	Requirements for Testing	22
	Testing Export Compliance	23

Appendix A	API Fields	26
	Formatting Restrictions	26
	Data Type Definitions	26
	Request-Level Fields	27
	Offer-Level Fields	33
	Reply Fields	35

Appendix B	Reply Flags	40
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Appendix C	Status and Error Codes	41
	Status Codes: U.S. Addresses	41
	Status Codes: International Addresses	45
	Error Codes: U.S. Addresses	48
	Error Codes: International Addresses	49

Appendix D	Request and Reply Examples	51
	Delivery Address Verification Examples	51
	Request	51
	Reply	52
	Export Compliance Examples	53
	Example of Declined Transaction	53
	Request	53
	Reply	53
	Name and Address Word Matching Example	54
	Name and Address Matching Rule Example	55

Appendix E	Export Compliance Standard Codes	56
	Denied Parties List Check Codes	56
	Product Codes	58

Appendix F Country and Territory Postal System Categories 59

Category I-A 59

Category I-B 60

Category II 60

Category III 61

Category IV 62

Appendix G Restricted and Denied Parties List 68

Appendix H Address Type 73**Index 74**

Recent Revisions to This Document

Release	Changes
September 2017	<ul style="list-style-type: none"> ■ Updated Export Compliance to include support for more government agency lists. See "Handling the Results of Denied Parties List Checks," page 17. ■ Revised the bill_state field description to clarify that the field is only required if the value is CA or US. See bill_state, page 27. ■ Added the export_sanctions_lists API request field. See export_sanctions_lists, page 30. ■ Added new international lists to the "Restricted and Denied Parties List," page 68.
August 2017	<ul style="list-style-type: none"> ■ Added details for testing Export Compliance. See "Requirements for Testing," page 22. ■ Updated company_name, customer_firstname, and customer_lastname fields to clarify that first name and last name or company name fields must be submitted. ■ Updated Export Compliance samples. See "Request and Reply Examples," page 51.
April 2016	<ul style="list-style-type: none"> ■ Added note that Verification Services do not support relaxed requirements for address data. See "Integrating Verification Services into Your Business," page 14. ■ Updated URL for testing. See "Requirements for Testing," page 22.
October 2014	<ul style="list-style-type: none"> ■ Corrected the length of the API request field customer_account_id. Changed the number of characters from 50 to 100. See customer_account_id, page 28. ■ Corrected information about using addresses to trigger Denied Parties List matches with the Export Service. See "Export Compliance," page 13, and "Configuring Denied Parties List Matches," page 19.
March 2014	Added the OFAC sub list, Foreign Sanctions Evaders, to the Restricted and Denied Parties List. See Appendix G, "Restricted and Denied Parties List," on page 68.
February 2014	Changed the length of API reply fields of the String data type to 255 characters. See "Reply Fields," page 35.

About This Guide

Audience and Purpose

This guide is written for application developers who want to use the CyberSource SCMP API to integrate address verification or export compliance verification services into their order management system.

Implementing CyberSource Verification Services requires software development skills. You must write code that uses the API request and reply fields to integrate Verification Services into your existing order management system.

Scope

This guide describes only the tasks and API fields you must use to integrate Verification Services into your order management system. It does not describe how to integrate other CyberSource services. For that information, see "[Related Documents](#)," page 9.

Conventions

Note and Important Statements



Note

A *Note* contains helpful suggestions or references to material not contained in this document.



Important

An *Important* statement contains information essential to successfully completing a task or learning a concept.

Text and Command Conventions

Conventions	Usage
bold	<ul style="list-style-type: none"> Field and service names; for example: Include the ics_applications field. Items that you are instructed to act upon; for example: Click Save.
<i>italic</i>	<ul style="list-style-type: none"> Filenames and pathnames. For example: Add the filter definition and mapping to your <i>web.xml</i> file. Placeholder variables for which you supply particular values.
Screen text	<ul style="list-style-type: none"> XML elements. Code examples and samples. Text that you enter in an API environment; for example: Set the davService_run field to <code>true</code>.

Related Documents

- *Getting Started with CyberSource Advanced for the SCMP API* describes how to get started using the SCMP API. ([PDF](#) | [HTML](#))
- *Decision Manager Using the SCMP API Developer Guide* describes how to integrate Decision Manager, a fraud detection service, with your order management system. ([PDF](#) | [HTML](#))
- *Credit Card Services Using the SCMP API* describes how to integrate CyberSource payment processing services into your business. ([PDF](#) | [HTML](#))
- *Reporting Developers Guide* describes how to view and configure Business Center reports. ([PDF](#) | [HTML](#))
- The [CyberSource API Versions page](#) provides information about the CyberSource API versions.

Refer to the Support Center for complete CyberSource technical documentation:

http://www.cybersource.com/support_center/support_documentation

Customer Support

For support information about any CyberSource service, visit the Support Center:

<http://www.cybersource.com/support>

Introducing Verification Services

CyberSource Verification Services are part of a suite of services that include electronic payment and fraud management. Verification Services consist of two services:

- Delivery Address Verification
- Export Compliance

**Note**

You are responsible for creating your order acceptance strategy. If you do not have the expertise, you are also responsible for seeking expert help outside of your company. CyberSource cannot make recommendations for your business.

Delivery Address Verification

Delivery Address Verification verifies a customer's delivery address during card-not-present transactions, and then it returns a result. The result contains an API-specific reply code and a status or error code that is specific to the results of address verification. Verification tests produce a valid address and an estimate of the risk associated with the address. As a result, your shipping and customer service costs caused by address errors can be reduced.

The verification process consists of *validation* and *standardization* of submitted addresses. After a customer provides address information to your system, you send the address in a request to CyberSource for verification.

When CyberSource Verification Services receives the address information in your request, the address is validated and standardized as described in the following sections.

Address Validation

During validation, address information is corrected. For example, the following items are verified:

- The street number must be valid for the street.
- The street name must be valid for the city.
- The postal code must be valid for the city.

If the postal code in the submitted address is valid, it is used to determine the city and state or province.

Example 1 Customer-Submitted Address Information

A customer submits the following address information to your system while placing an order:

44 Fisher Street
Mtn View, Florida
94043

The address information submitted by the customer contains several errors that can be corrected by Verification Services as described in the following table:

Table 1 Address Validation

Submitted Information	Problem	Corrected Address
44 Fisher Street	Street number is invalid.	34 Fisher Street
Mtn View	The first word of the city name is abbreviated by using a non-standard abbreviation, so it is considered misspelled.	Mountain View
Mtn View, Florida 94043	The city and state do not match the postal code.	Mountain View, California 94043

Address Standardization

During standardization, address information is arranged in a consistent, preferred format by using common abbreviations. For example:

- *DEPT* is used for department
- *St* for Street
- *SW* for Southwest

After the address information submitted by the customer in [Example 1](#) is validated, the address is standardized as follows:

Table 2 Address Standardization

Submitted Information	Problem	Corrected Address
34 Fisher Street Mountain View, California 94043	The street and state names are abbreviated using common abbreviations.	34 Fisher St Mountain View, CA 94043

Countries Supported by Delivery Address Verification

Delivery Address Verification uses data from postal service databases, updated monthly from over 200 countries and territories. See [Appendix F, "Country and Territory Postal System Categories,"](#) on page 59.

Status and Error Codes

CyberSource returns information codes for each address when address verification is attempted. These codes can include an API-specific reply code and a status or error code that describe the degree of match or reasons for the failure to match. When you have integrated Verification Services into your business, your system interprets the reply codes according to your business rules. Address verification failure rates depend on the address location and the category of the country or territory as listed in [Appendix F, "Country and Territory Postal System Categories,"](#) on page 59. An address that requires correction is not considered a failure.

Address verification returns one of these results:

- Address requires *no correction*. You receive the appropriate success information code.
- Address requires correction. You receive an API-specific reply code and a status code that describe the type of correction that is applied.

- Address cannot be verified. You receive an API-specific failure code and an error code that describe the type of failure.

For more information about API-specific reply flags, see ["Reply Flags," page 40](#). For more information about address verification status and error codes, see ["Status and Error Codes," page 41](#).

Export Compliance

Export Compliance enables you to comply with U.S. Export Administration Regulations, as well as internationally supported sanctions lists, which place restrictions on those with whom you can conduct business. The service verifies customer information and returns detailed information about declined orders.

Export Compliance checks customer information by comparing it to many lists that are maintained by government agencies to support export controls. If a customer's first name and last name or company name appears on any of the lists, you receive information indicating that the transaction is declined. You also receive a description of how the names match a list entry. For more information, see ["Restricted and Denied Parties List," page 68](#).

You can use Export Compliance to manage your international sales territories by listing the allowed and disallowed export countries in each offer. A first name and last name or company name can be matched more than once to a list when different spellings or aliases exist. Although only some of these matches appear in the Business Center, all matches appear in the API reply.

If you use Decision Manager, you can create custom rules based on information codes, name matches, and export programs. In addition, you can create profile selector rules based on a name and address match. For more information, see the *Decision Manager User Guide* ([PDF](#) | [HTML](#)).

Integrating Verification Services into Your Business

For request and reply examples, see ["Request and Reply Examples," page 51](#).



- When requesting these services, be sure to send only valid and well-formed data in all fields, especially in the credit card account number, billing address, email address, and IP address fields.
- To use these services, you must collect the full address from your customers; Verification Services do not support relaxed requirements for address data.
- CyberSource supports multi-byte characters for all services except Delivery Address Verification, Stored Value, and Customer Profiles. Before implementing any of these services, contact your CyberSource representative to clarify any questions you have about multi-byte character support.

Requesting Delivery Address Verification

To request the address verification service, use the **ics_dav** application. When requesting **ics_dav**, do not request the following services:

- Authorization Reversal (**ics_auth_reversal**). For more information about this service, see *Credit Card Services Using the SCMP API* ([PDF](#) | [HTML](#)).
- Risk Update (**ics_risk_update**). For more information about this service, see *Decision Manager Developer Guide Using the SCMP API* ([PDF](#) | [HTML](#)).

To ignore the result of the address verification request so that the results do not prevent other services from functioning, use the **ignore_dav_result** request field. For descriptions of the request fields you can use, see ["API Fields," page 26](#).

Interpreting the Delivery Address Verification Reply

If Delivery Address Verification finds a match for the street address, it returns a corrected and standardized address. If you have used the **ignore_dav_result** request field, only a standardized address is returned. The standardized address is divided into separate fields for the street address, city, state, province, territory, and postal code. For descriptions of all the reply fields, see ["API Fields," page 26](#). For examples, see ["Request and Reply Examples," page 51](#).

Returned Reply Fields

If you do not use the **ignore_dav_result** request field but want to know whether the address is correct, use the **dav_rflag** field to get the address verification result. This field returns DINVALIDADDRESS if a problem exists with the address.

Address verification is returned in the **dav_address_type** field if the address can be normalized. If the request contains both the shipping and billing addresses, the reply contains information about the shipping address only. To obtain the most comprehensive address verification information, CyberSource recommends that you send separate requests for the billing address and the shipping address.

Status and Error Codes

For each verified address, you receive a status or an error code. *Status codes* contain information about corrections or standardizations that are applied to the address. *Error codes* contain information that explains why an address cannot be verified. Status and error codes are returned in the following reply fields:

Table 3 Status and Error Code API Reply Fields

Status Codes	Error Codes
dav_us_info	dav_us_error_info
dav_ca_info	dav_ca_error_info
dav_intl_info	dav_intl_error_info

For a complete list of the status and error codes that can be returned in reply fields, see ["Status and Error Codes," page 41](#).

Example 2 Status Code Example

Each digit in the status code means something. If you receive `dav_us_info=S80000` in the reply from CyberSource, each digit in the code is interpreted as follows:

Table 4 Status Code Interpretation

Digit	Value	Interpretation
1st	S	Nothing truncated.
2nd	8	Assigned a different ZIP+4.
3rd	0	With primary name, directionals, and suffix, no significant difference between input and corrected data.
4th	0	With country number, CART (carrier-route number), DPBC (delivery point barcode), and unit designator, no significant difference between input and corrected data.
5th	0	No meaning is currently assigned to the 5th and 6th digits. They are reserved for future use.
6th	0	

Example 3 Error Code Example

All error codes start with the letter E and contain a 3-digit number, which indicates one specific type of error. You do not interpret each individual digit for error codes. For example, if you receive `dav_us_error_info=E101` in the reply from CyberSource, the city, state, or ZIP code is invalid or missing.

**Note**

For international addresses, you might receive a successful reply (`dav_rflag=SOK`) that contains an error code. You are responsible for determining the level of risk for such an address match. Review these addresses carefully before making a final decision on the order.

Information Codes

If you use the Score service in the same request, and the normalized address appears to be risky, a `RISK-AVS` information code is returned. This code means that the combined AVS (Address Verification Service) test result and the normalized billing address are risky. For example, a risky address may be one in which the AVS result indicates an exact match, but the normalized billing address is not deliverable. All information codes are listed in the “Information and Reply Codes” appendix of the *Decision Manager Developer Guide Using the SCMP API* ([PDF](#) | [HTML](#)).

Requesting Export Compliance

To request Export Compliance, use the **ics_export** service. For a list of the fields to use when you request the service, see ["Request and Reply Examples," page 51](#).

Do not request the following services at the same time that you request Export Compliance:

- Authorization Reversal (**ics_auth_reversal**). For more information about this service, see *Credit Card Services Using the SCMP API* ([PDF](#) | [HTML](#)).
- Risk Update (**ics_risk_update**). For more information about this service, see the *Decision Manager Developer Guide Using the SCMP API* ([PDF](#) | [HTML](#)).

To list the allowed and disallowed countries for each offer, use the offer-level fields **export** and **no_export**.



Note

Export Compliance verifies the IP address in addition to verifying the country.

Handling the Results of Denied Parties List Checks

Countries with which U.S. trade is restricted are automatically checked during denied parties checks. You can also check other government agency lists as best fits your business needs. See the **export_sanctions_lists** request field and ["Restricted and Denied Parties List," page 68](#) for further details.

If a customer's name or address strongly correlates with an entry in a Denied Parties List (DPL), the following information is returned in the reply from CyberSource:

- Reply flag DRESTRICTED
Because you always receive this flag for blocked countries, all customers from these countries receive this reply flag.
- A message indicating that the customer is in a DPL with the name of the country
- Reply fields starting with the **export_match** prefix describe the denied parties check correlation in more detail. You can receive an unlimited number of matches to names, addresses, and programs within the lists.



Note

The denied parties lists are watch lists that are maintained by government entities, such as the U.S. Treasury Department or the Australia Department of Foreign Affairs and Trade.

The following example shows a reply in which the order data matched two denied parties lists:

- In the first list (`match0`), the order matched 3 sub lists: programs 1, 2, and 3.
- In the second list (`match1`), the order matched 2 sub lists: programs 1 and 2.

Example 4 Denied Parties List Check Reply Example

```
export_match0_list=Bureau Of Industry and Security
export_match0_program1=BXA_UNV
export_match0_program2=US_DEBARRED
export_match0_program3=BXA_ENT
export_match1_list=Office of Foreign Assets Control
export_match1_program1=SDNTK
export_match1_program2=JADE
```

If you use Decision Manager, your custom rules that use `Export match program as` the order element return all result values delimited with carets (^) in the `export_MatchN_programN` field. In the preceding example, the values are:

```
BXA_UNV^US_DEBARRED^BXA_ENT^SDNTK^JADE
```

The complete matched data is also available in the Case Details window.

Excluding Export Compliance Results

You can allow processing to continue regardless of the Export Compliance results by using the `ignore_export_result` request field. If you use this field, be sure to review all orders that fail Export Compliance.

When a transaction is declined by the DPL check or the export service, reply flag SOK is returned for the transaction. In addition, the `export_info` field is returned containing one or more information codes. Other services in the request are processed normally.



Note

If you use Decision Manager, you can create custom rules and profile selector rules that use the information codes that you receive from Export Compliance. These rules enable you to route different types of orders to specific review queues in your order management system. If you subscribe to Enhanced Case Management and want to view the export information results in the Case Details window of the Business Center, you must use the `ignore_export_result` field.

Example 5 Request and Reply Example that Uses the ignore_export_result Field

The following request example shows the international data that is used by Export Compliance and the use of the `ignore_export_result` field:

```
bill_address1=26 JALAN MT. ERSKINE
bill_city=PENANG
bill_country=MY
customer_hostname=www.cybersource.ir
ics_applications=ics_export
ignore_export_result=yes
ship_to_address1=26 JALAN MT. ERSKINE
ship_to_city=PENANG
ship_to_country=be
```

The following reply shows that Export Compliance was processed successfully (`ics_rflag=SOK`). However, three information codes were returned for the shipping address, the host name, and the Denied Parties List check:

```
export_info=MATCH-SCO^MATCH-HCO^MATCH-DPC
export_ip_country_confidence=99
export_match1_address1=26 JALAN MT. ERSKINE,PENANG,,MY,
export_match1_list=Bureau Of Industry and Security
export_rcode=1
export_rflag=SOK
export_rmsg=export service was successful
ics_rcode=11
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
```

Configuring Denied Parties List Matches

By default, Export Compliance searches for an exact match between a DPL and the information in the request. However, you can adjust the parameters that control what is required for a match by using the following order elements:

- **Name**
Export Compliance requires at least the name of the customer or the company name.
- **Address**
You can search by name *and* address. Provide as much information as possible to reduce the number of false positives returned in the results.

A false positive result occurs when a DPL contains information that is common to several individuals. For example, many people have the same first name, the same last name, or even the same first and last name. However, it is unlikely that individuals have the same

first name, last name, company name, and address, especially if all of the information is complete.

Adjusting Name and Address Word Matching

You can specify how closely a customer's name, company name, or address must match by using these optional request fields:

- **export_address_weight**
- **export_company_weight**
- **export_name_weight**

These fields can be set to *exact*, *high*, *medium*, or *low* to indicate how much the value in the order can deviate from an entry in a DPL. For example, if you set **export_name_weight** to *medium*, and the customer's name does not differ significantly from an entry in a DPL, **ics_export** detects a match. If you do not include these fields with your request, Export Compliance searches for an exact match only. For usage examples of these fields, see ["Request and Reply Examples," page 51](#).

Defining Name and Address Matching Rules



Important

To accurately match customer and company names with entries on a DPL, you must send names in the correct API field (**customer_firstname**, **customer_lastname**, and **company_name**).

Use the **export_address_operator** field to specify how Export Compliance detects name and address matches. You can set this request field to one of the following values:

- AND (the default setting)



Important

Although this is the default setting for the **export_address_operator** field, you are responsible for ensuring that this setting provides accurate and appropriate results for your business.

Export Compliance detects a match only if both the name *and* the address match an entry in a DPL. Name can be the customer's name or the company name. Export Compliance evaluates all combinations available in the request:

- Name and billing address
- Name and shipping address
- Company and billing address
- Company and either shipping address, blocked billing, or blocked shipping country

However, if a request contains only a name, the `AND` setting matches the name with any address. Add all available address elements to receive the most accurate match and the fewest false positives. For more information about the behavior of this setting, see ["Interactions between Match Weight and the AND Matching Rule."](#)

- `OR`
Export Compliance detects a match if the customer's first name, last name, or company name match an entry on a DPL. An address cannot trigger a DPL match on its own.
- `IGNORE`
Export Compliance detects a match based on only the customer's name or the company name and ignores the address. However, the blocked countries check is still performed.

Interactions between Match Weight and the AND Matching Rule

When the `export_address_operator` field is set to `AND`, a combination of customer or company name *and* address is checked. All possible combinations are evaluated before the DPL check results are returned. The match weight level specified for the customer name or the company name (`export_name_weight` and `export_company_weight`) is used for all order elements in the request.

Therefore, if you set name and company to different weights, and send a request that contains a customer name, a company name, and an address, each pair of values is evaluated independently.

Example 6 Export Compliance Evaluation Example

A request includes the following:

- First and last name with the name weight set to high (`export_name_weight=high`)
- Company name with the company weight set to low (`export_company_weight=low`)

Export Compliance evaluates the request as follows:

- A high weight is set on the combination of customer name and address. The customer name and address *cannot* differ significantly from an entry in a DPL to register a match.
- A low weight is set on the combination of company name and address. The company name and address *can* differ significantly from an entry in a DPL to register a match.

Testing Verification Services

To ensure that your requests are processed correctly, you must test the basic success and error conditions for each CyberSource service you plan to use.

Requirements for Testing

- Use your regular CyberSource merchant ID when you are testing your system.
- To test a successful transaction, use valid name and address information.
- To test a declined transaction, use invalid information, such as an invalid address for Delivery Address Verification or information with missing fields.
- When testing the SCMP API, use the CyberSource test server: `ics2testa.ic3.com`.

If your system is configured correctly, you receive a reply with the expected reply fields and reply flags. See ["Request-Level Fields," page 27](#) and ["Reply Flags," page 40](#).

If your tests are successful, contact your CyberSource representative to activate your account so that you can send transactions to the CyberSource production server. To process customer transactions, you must change the status of your account from test to live production.

After you start processing transactions on the production server, you can configure CyberSource reports. For more information, see the [Reporting Developer's Guide \(PDF | HTML\)](#).

Testing Export Compliance

Use one of the following sets of request values to test your Export Compliance Service. Include first name and last name.

customer_firstname Mohammed
customer_lastname QASIM

OR

customer_firstname Maria
customer_lastname RODRIGUEZ

Table 5 provides possible reply values.

Table 5 Possible Reply Field Values for Export Compliance Service

Scenario	Request Field Values	Response
Matching first/last name (case insensitive)	customer_ firstname=Mohammed customer_lastname=QASIM	export.reason_code=100 export_info=MATCH-DPC export_ip_country_confidence=-1 export_match1_address1=Waish,Spin Boldak,null, export_match1_address2=Bypass Road,Chaman,null, export_match1_address3=Karez Qaran,Musa Qal'ah,Helmand Province,null, export_match1_address4=Qalaye Haji Ali Akbar Dalbandin Post Office,,null, export_match1_address5=Room 33, 5th Floor Sarafi Market,Kandahar,,null, export_match1_address6=Safaar Bazaar,Garmsir,,null, export_match1_list=Office of Foreign Assets Control export_match1_name1=Mohammed QASIM export_match1_name2=aka, QASIM, Muhammad export_match1_program1=SDGT export_rcode=1 export_return_code=1140000 export_rflag=SOK export_rmsg=export service was successful

Table 5 Possible Reply Field Values for Export Compliance Service (Continued)

Scenario	Request Field Values	Response
Matching first/last name (case insensitive)	customer_firstname =Maria customer_lastname =RODRIGUEZ	export.reason_code =100 export_info =MATCH-DPC export_ip_country_confidence = -1 export_match1_list =Office of Foreign Assets Control export_match1_name1 =Maria de Jesus ESPINOZA RODRIGUEZ export_match1_program1 =SDNTK export_rcode =1 export_return_code =1140000 export_rflag =SOK export_rmsg =export service was successful
Non-matching first/last name	Use any value.	export.reason_code =100 export_ip_country_confidence =-1 export_rcode =1 export_return_code =1140000 export_rflag =SOK export_rmsg =export service was successful

API Fields

This appendix describes the SCMP (Simple Commerce Message Protocol) API fields that you can use to access Verification Services. SCMP API is a legacy name-value pair API that is supported for merchants who have already implemented it. If you are new to CyberSource and want to connect to services, use the [Simple Order API](#).

Formatting Restrictions

Unless otherwise noted, all fields are order and case insensitive, and they accept special characters such as @, #, and %.



Note

Request-level and offer-level field names and values must not contain carets (^) or colons (:). However, they can contain embedded spaces and any other printable characters. If you use more than one consecutive space, the extra spaces are removed.

Data Type Definitions

Table 6 Data Types

Data Type	Description
Date and time	The format is YYYY-MM-DDThhmmssZ. For example, 2012-08-11T224757Z is equal to August 11, 2012, at 10:45:57 P.M. The T separates the date and the time. The Z indicates Coordinated Universal Time (UTC), which is also known as Greenwich Mean Time.
Decimal	Number that includes a decimal point. Examples: 23.45, -0.1, 4.0, 90809.0468.
Integer	Whole number {..., 03, 02, 01, 0, 1, 2, 3, ...}.
Nonnegative integer	Whole number greater than or equal to zero {0, 1, 2, 3, ...}.
Positive integer	Whole number greater than zero {1, 2, 3, ...}.
String	Sequence of letters, numbers, spaces, and special characters, such as @ and #.

Request-Level Fields

See *Getting Started with CyberSource Advanced for the SCMP API* ([PDF](#) | [HTML](#)) for a description of how to work with this name-value pair API.

Table 7 Request-Level Fields

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
bill_address1	First line of the billing address.	ics_dav (R) ics_export (R)	String (60)
bill_address2	Second line of the billing address.	ics_dav (O) ics_export (O)	String (60)
bill_address3 and bill_address4	Third and fourth line of the billing address.	ics_dav (O)	String (60)
bill_city	City of the billing address. For ics_dav , if ship_city is not provided, bill_city is used in its place.	ics_dav (R) ics_export (R)	String (50)
bill_country	Country of the billing address. Use the two-character country codes (see " Country and Territory Postal System Categories ," page 59). For the ics_dav service, if the ship_to_country field is not provided, the bill_country field is used in its place.	ics_dav (R) ics_export (R)	String (2)
bill_state	State or province of the billing address. Use the two-character codes located in the Support Center . For the ics_dav service, if shipping address information is not provided, the bill_state field information is used in place of the ship_to_state field. Required if the value of bill_state is CA or US .	ics_dav (O) ics_export (O)	String (2)
bill_zip	Postal code of the billing address. Make sure to send only valid and well-formed data. Required only if the bill_country field is US or CA: <ul style="list-style-type: none"> ■ US: numeric characters in either of these formats: <ul style="list-style-type: none"> • five characters: NNNNN • nine characters: NNNNN-NNNN ■ CA: six alphanumeric characters in this format: ANA NAN 	ics_dav (R for U.S. and Canada)	String (10)

Table 7 Request-Level Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
comments	Brief description of the order or any comment you wish to add to the order.	ics_dav (O) ics_export (O)	String
company_name	Company name of person buying the product. Important This field or customer_firstname and customer_lastname must be present. Otherwise, your request will fail.	ics_export	String (60)
customer_account_id	Optional customer's account ID, tracking number, reward number, or other unique number that you assign to the customer for the purpose that you choose.	ics_dav (O) ics_export (O)	String (100)
customer_email	Customer's email address, including the full domain name submitted in the form name@host.domain, such as jdoe@cybersource.com.	ics_export (R)	String (255)
customer_firstname	Customer's first name. Important If you submit this field, you must also submit customer_lastname . Alternatively, you can submit company_name field instead of customer_firstname and customer_lastname . Otherwise, your request will fail.	ics_export	String (60)
customer_hostname	DNS resolved host name from the customer_ipaddress field.	ics_export (O)	String (40)
customer_ipaddress	IP address of the customer, for example, 10.1.27.63.	ics_export (O)	String (15)
customer_lastname	Customer's last name. Important If you submit this field, you must also submit customer_firstname . Alternatively, you can submit company_name field instead of customer_firstname and customer_lastname . Otherwise, your request will fail.	ics_export	String (60)

Table 7 Request-Level Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
export_address_operator	<p>Parts of the customer's information that must match with an entry in the DPL (denied parties list) before a match occurs. This field can contain one of the following values:</p> <ul style="list-style-type: none"> ■ AND: (default) The customer's name or company <i>and</i> the customer's address must appear in the database. ■ OR: The customer's name must appear in the database. ■ IGNORE: You want the service to detect a match only of the customer's name or company but not of the address. 	ics_export (O)	String (6)
export_address_weight	<p>Degree of correlation between a customer's address and an entry in the DPL before a match occurs. This field can contain one of the following values:</p> <ul style="list-style-type: none"> ■ <i>exact</i>: The address must be identical to the entry in the DPL. ■ <i>high</i>: (default) The address cannot differ significantly from the entry in the DPL. ■ <i>medium</i>: The address can differ slightly more from the entry in the DPL. ■ <i>low</i>: The address can differ significantly from the entry in the DPL. 	ics_export (O)	String (6)
export_company_weight	<p>Degree of correlation between a company address and an entry in the DPL before a match occurs. This field can contain one of the following values:</p> <ul style="list-style-type: none"> ■ <i>exact</i>: The company name must be identical to the entry in the DPL. ■ <i>high</i>: (default) The company name cannot differ significantly from the entry in the DPL. ■ <i>medium</i>: The company name can differ slightly more from the entry in the DPL. ■ <i>low</i>: The company name can differ significantly from the entry in the DPL. 	ics_export (O)	String (6)

Table 7 Request-Level Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
export_name_weight	<p>Degree of correlation between a customer's name and an entry in the DPL before a match occurs. This field can contain one of the following values:</p> <ul style="list-style-type: none"> ■ exact: The name must be identical to the entry in the DPL. ■ high: (default) The name cannot differ significantly from the entry in the DPL. ■ medium: The name can differ slightly more from the entry in the DPL. ■ low: The name can differ significantly the entry in the DPL. 	ics_export (O)	String (6)
export_sanctions_lists	<p>Use this field to specify which list(s) you want checked with the request. The reply will include the list name as well as the response data.</p> <p>To check against multiple lists, enter multiple list codes separated by a caret (^).</p> <p>For more information, see "Restricted and Denied Parties List," page 68.</p>	ics_export (O)	String (255)
ics_applications	<p>ICS applications to process for the request.</p> <p>At least one application must be specified in the request.</p>	ics_dav (R) ics_export (R)	String (255)
ignore_dav_result	<p>When requesting the ics_dav service with other applications, the ignore_dav_result field enables you to continue processing the request even if the ics_dav service cannot verify the address. This field can contain one of the following values:</p> <ul style="list-style-type: none"> ■ yes: Ignore the results of address verification and continue to process the request. ■ no: (default) If the ics_dav service cannot verify the address, stop processing the request. 	ics_dav (O)	String (3)

Table 7 Request-Level Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ignore_export_result	When requesting the ics_export service with other applications or if the denied parties list check is enabled for your merchant ID, the ignore_export_result field enables you to continue processing the request even if the order does not comply with export requirements. This field can contain one of the following values: <ul style="list-style-type: none"> ■ yes: Ignore the results of export compliance and continue to process the request. The reply will include information about any matches with denied parties lists. ■ no: (default) If the order does not pass export compliance, stop processing the request. 	ics_export (O)	String (3)
merchant_id	Your CyberSource merchant ID. Use the same merchant ID for evaluation, testing, and production.	ics_dav (R) ics_export (R)	String (30)
merchant_ref_number	Merchant-generated order reference or tracking number.	ics_dav (R) ics_export (R)	String (50)
offer0 to offerN	Offers (line items of the order) for the request. At a minimum, offer0 must be present.	ics_dav (O) ics_export (O)	String (50)
ship_to_address1	First line of the shipping address.	ics_dav (R)	String (60)
ship_to_address2 to ship_to_address4	Second to fourth line of the shipping address.	ics_dav (O)	String (60)
ship_to_city	City of the shipping address.	ics_dav (R)	String (50)
ship_to_country	Country of the shipping address. Use the two-character country codes (see " Country and Territory Postal System Categories ," page 59). For ics_export , bill_country is used if ship_to_country is not present.	ics_dav (R) ics_export (O)	String (2)
ship_to_firstname	First name of the recipient.	ics_export (O)	String (60)
ship_to_lastname	Last name of the recipient.	ics_export (O)	String (60)

Table 7 Request-Level Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ship_to_state	<p>State or province of the shipping address. Use the State, Province, and Territory Codes for the United States and Canada.</p> <p>The default value for the ship_to_state field is the value in the bill_state field. Required if the value of the ship_to_country field is CA or US.</p>	ics_dav (O)	String (2)
ship_to_zip	Postal code of the shipping address. Required if the value of the ship_to_country field is CA or US.	ics_dav (O)	String (10)
timeout	Number of seconds the system waits before returning a time-out error. The default is 110.	ics_dav (O) ics_export (O)	Positive integer (3)

Offer-Level Fields

Verification Services use the following offer-level fields. You must provide at least the amount field in your requests for Verification Services. For more information about using the offer-level fields, see “Using Offers or a Grand Total in a Request” in *Getting Started with CyberSource Advanced for the SCMP API* ([PDF](#) | [HTML](#)).

Table 8 Offer-Level Fields

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
amount	Per-item price of the product. You can include a decimal point (.) but no other special character. The amount is truncated at the request level to the correct number of decimal places.	ics_dav (R) ics_export (R)	Decimal (15)
export	Comma-separated list of ISO country codes for countries to which the product can be exported. For a complete list, see " Country and Territory Postal System Categories ," page 59 . If country codes are not specified, or if this field is not included, the U.S. government's country code list is used. Note The default list of countries restricted by the U.S. always applies. Any country not specifically added to the export field is considered restricted.	ics_export (O)	String (no length limit)
merchant_product_sku	Product's identifier code.	ics_dav (O) ics_export (O)	String (30)
no_export	Comma-separated list of ISO country codes for countries to which the product cannot be exported. For a complete list, see " Country and Territory Postal System Categories ," page 59 . Note If the export field is also present, the content of the no_export field overrides the content of export .	ics_export (O)	String (no length limit)
product_code	Type of product that the offer contains, which is also used to determine the category within which the product falls (electronic, handling, physical, service, or shipping). Multiple product_code field values can apply to the same offer (for example, shipping and handling). The default value for the product_code field is <code>default</code> . For a complete list, see " Product Codes ," page 58 .	ics_dav (O) ics_export (O)	String (30)

Table 8 Offer-Level Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
product_name	Name of the product.	ics_dav (O) ics_export (O)	String (30)
quantity	Quantity of the product being purchased.	ics_dav (O) ics_export (O)	Integer (non- negative) (10)

Reply Fields

Table 9 Reply Fields

Field	Description	Returned By	Data Type & Length
client_lib_version	Information about the client library used to request the transaction.	ics_dav ics_export	String (255)
dav_address_type	<p>Contains the record type of the postal code with which the address was matched.</p> <p>U.S. Addresses</p> <p>Depending on the quantity and quality of the address information provided, this field contains one or two characters:</p> <p>One character: sufficient correct information was provided to result in accurate matching.</p> <p>Two characters: standardization would provide a better address if more or better input address information were available. The second character is D (default).</p> <p>Blank fields are unassigned. When an address cannot be standardized, how the input data was parsed determines the address type. In this case, standardization may indicate a street, rural route, highway contract, general delivery, or PO box. For possible values, see Appendix H, "Address Type," on page 73.</p> <p>All Other Countries</p> <p>This field contains one of the following values:</p> <ul style="list-style-type: none"> ■ P: Post. ■ S: Street. ■ x: Unknown. 	ics_dav	String (255)
dav_bar_code	Delivery point bar code determined from the input address.	ics_dav	String (255)
dav_bar_code_chkdigit	Check digit for the 11-digit delivery point bar code.	ics_dav	Non-negative integer (1)
dav_ca_error_info	Four-character error code returned for Canadian addresses. For possible values, see "Error Codes: International Addresses," page 49 .	ics_dav	String (255)

Table 9 Reply Fields (Continued)

Field	Description	Returned By	Data Type & Length
dav_ca_info	Four-to-ten character status code returned for Canadian addresses. For possible values, see "Error Codes: International Addresses," page 49.	ics_dav	String (255)
dav_careof	<i>Care of</i> data dropped from the standard address.	ics_dav	String (255)
dav_intl_error_info	Four-character error code returned for international addresses. For possible values, see "Error Codes: International Addresses," page 49.	ics_dav	String (255)
dav_intl_info	Four-to-ten character status code returned for international addresses. For possible values, see "Error Codes: International Addresses," page 49.	ics_dav	String (255)
dav_match_score	Indicates the probable correctness of the address match. Returned for U.S. and Canadian addresses. Returns a value from 0-9, where 0 is most likely to be correct and 9 is least likely to be correct, or -1 if there is no address match.	ics_dav	Integer (1)
dav_rcode	One-digit code that indicates whether the ics_dav request was successful. The field contains one of the following values: <ul style="list-style-type: none"> ■ -1: An error occurred. ■ 0: The request was declined. ■ 1: The request was successful. 	ics_dav	Integer (1)
dav_rflag	One-word description of the result of the ics_dav request.	ics_dav	String (255)
dav_rmsg	Message that explains the reply flag dav_rflag . Do not display this message to your customer, and do not use this field to write an error handler.	ics_dav	String (255)
dav_standard_address	First line of the standardized address, including apartment information.	ics_dav	String (255)
dav_standard_address_noapt	First line of the standardized address, without apartment information. Returned for U.S. and Canadian addresses.	ics_dav	String (255)
dav_standard_address2 to dav_standard_address4	Second to fourth line of the standardized address.	ics_dav	String (255)
dav_standard_city	Standardized city name.	ics_dav	String (255)
dav_standard_county	U.S. county if available.	ics_dav	String (255)

Table 9 Reply Fields (Continued)

Field	Description	Returned By	Data Type & Length
dav_standard_country	Standardized country name.	ics_dav	String (255)
dav_standard_csz	Standardized city, state or province, and ZIP + 4 code or postal code line.	ics_dav	String (255)
dav_standard_iso_country	Standardized two-character ISO country code.	ics_dav	String (255)
dav_standard_state	U.S.P.S. standardized state or province abbreviation.	ics_dav	String (255)
dav_standard_zip	Standardized U.S. ZIP + 4 postal code.	ics_dav	String (255)
dav_us_error_info	Four-character error code returned for U.S. addresses; for possible values, see "Error Codes: U.S. Addresses," page 48 .	ics_dav	String (255)
dav_us_info	Four-to-ten character status code returned for U.S. addresses; for possible values, see "Status Codes: U.S. Addresses," page 41 .	ics_dav	String (255)
export_ip_country_confidence	Likelihood that the country associated with the customer's IP address was identified correctly. Returns a value from 1–100, where 100 indicates the highest likelihood. If the country cannot be determined, the value is –1.	ics_export	Integer (3)
export_info	Returned when the Denied Parties List check (first two codes) or the export service (all others) would have declined the transaction. Multiple information codes are separated by a caret (^). For more information, see "Excluding Export Compliance Results," page 18 . This field can contain one or more of the following values: <ul style="list-style-type: none"> ■ MATCH–DPC: Denied Parties List match. ■ UNV–DPC: Denied Parties List unavailable. ■ MATCH–BCO: Billing country restricted. ■ MATCH–EMCO: Email country restricted. ■ MATCH–HCO: Host name country restricted. ■ MATCH–IPCO: IP country restricted. ■ MATCH–SCO: Shipping country restricted. 	ics_export	String (255)
export_matchN_address1 to export_matchN_addressN	Address found on the list specified in export_matchN_list for the entity (name and address) in the request.	ics_export	String (255)
export_matchN_list	List on which the first Denied Parties List check match appears. For a list of codes, see "Denied Parties List Check Codes," page 56 .	ics_export	String (255)

Table 9 Reply Fields (Continued)

Field	Description	Returned By	Data Type & Length
export_matchN_name1 to export_matchN_nameN	Name found on the list specified in export_matchN_list for the entity (name and address) in the request.	ics_export	String (255)
export_matchN_programN	Sub-lists matched by the order data. List members are separated by carets (^).	ics_export	String (255)
export_rcode	One-digit code that indicates whether the ics_export request was successful. The field contains one of the following values: <ul style="list-style-type: none"> ■ -1: An error occurred ■ 0: The request was declined ■ 1: The request was successful 	ics_export	Integer (1)
export_rflag	One-word description of the result of the ics_export request.	ics_export	String (255)
export_rmsg	Message that explains the reply flag export_rflag . Do not display this message to your customer, and do not use this field to write an error handler.	ics_export	String (255)
ics_rcode	One-digit code that indicates whether the entire request was successful. The field contains one of the following values: <ul style="list-style-type: none"> ■ -1: An error occurred ■ 0: The request was declined ■ 1: The request was successful 	ics_dav ics_export	Integer (1)
ics_rflag	One-word description of the result of the entire request.	ics_dav ics_export	String (255)
ics_rmsg	Message that explains the reply flag ics_rflag . Do not display this message to your customer, and do not use this field to write an error handler.	ics_dav ics_export	String (255)
merchant_ref_number	Merchant-generated order reference or tracking number. For more information, see "Integrating Verification Services into Your Business," page 14.	ics_dav ics_export	String (255)
request_id	Identifier for the request generated by the client.	ics_dav ics_export	String (255)

Table 9 Reply Fields (Continued)

Field	Description	Returned By	Data Type & Length
request_token	<p>Identifier for the request generated by CyberSource.</p> <p>Request token data created by CyberSource for each reply. The field is an encoded string that contains no confidential information such as an account or card verification number. The string can contain a maximum of 256 characters.</p>	<p>ics_dav</p> <p>ics_export</p>	String (256)

Reply Flags

Reply flags are associated with a request or a service. The flag in the **ics_rflag** field is associated with a request. The flag in the **<service>_rflag** field is associated with a service.

Table 10 Reply Flags

Reply Flag	Description	Services That Can Return This Flag
DINVALIDADDRESS	The customer entered an invalid city, state, country, or postal code, or the character set used for the transaction is not supported by the address verification service.	ics_dav
DINVALIDDATA	The data provided is inconsistent with the request, such as a product with negative cost.	ics_export
DMISSINGFIELD	The request is missing a required field.	ics_dav ics_export
DRESTRICTED	One or more of these problems occurred: <ul style="list-style-type: none"> ■ The customer is on a government agency list containing entities with whom trade is restricted. ■ A government agency maintains an economic embargo against the country indicated in the billing or shipping address. ■ The customer's shipping country is not on the export list that you submitted for the offers in the order. 	ics_export
ESYSTEM	System error. For details about the failure, see the contents of the ics_rmsg field. Wait several minutes before resending your request.	ics_dav ics_export
ETIMEOUT	The request timed out.	ics_dav ics_export
SOK	The transaction was successful.	ics_dav ics_export

Status and Error Codes

This appendix describes the status and error codes that are returned in API reply fields for U.S. and international addresses. *Status codes* contain information about corrections or standardizations that are applied to an address. *Error codes* contain information that explains why an address cannot be verified. Status and error codes are returned in the following reply fields:

Table 11 Status and Error Code API Reply Fields

Status Codes	Error Codes
dav_us_info	dav_us_error_info
dav_ca_info	dav_ca_error_info
dav_intl_info	dav_intl_error_info

Status Codes: U.S. Addresses

Table 12 Status Codes Returned for U.S. Addresses

Ordinal Digit	Value	Description
1st	A	Address line is truncated to make it fit into the field.
	B	Both the address line and the city name are truncated.
	C	City name is truncated to make it fit into the field.
	S	Nothing is truncated.

Table 12 Status Codes Returned for U.S. Addresses (Continued)

Ordinal Digit	Value	Description
2nd	0	No significant difference between input and corrected data for city, state, ZIP, and ZIP+4.
	1	Corrected the ZIP.
	2	Corrected the city.
	3	Corrected the city and ZIP.
	4	Corrected the state.
	5	Corrected the state and ZIP.
	6	Corrected the city and state.
	7	Corrected the city, state, and ZIP.
	8	Corrected the ZIP+4.
	9	Corrected the ZIP and ZIP+4.
	A	Corrected the city and ZIP+4.
	B	Corrected the city, ZIP, and ZIP+4.
	C	Corrected the state and ZIP+4.
	D	Corrected the state, ZIP, and ZIP+4.
	E	Corrected the city, state, and ZIP+4.
	F	Corrected the city, state, ZIP, and ZIP+4.

Table 12 Status Codes Returned for U.S. Addresses (Continued)

Ordinal Digit	Value	Description
	0	No significant difference between input and corrected data for primary street name, directional prefix (predirectional), directional suffix (postdirectional), and street-type suffix.
	1	Corrected the street-type suffix.
	2	Corrected the predirectional.
	3	Corrected the predirectional and street-type suffix.
	4	Corrected the postdirectional.
	5	Corrected the street-type suffix and postdirectional.
	6	Corrected the predirectional and postdirectional.
	7	Corrected the predirectional, street-type suffix, and postdirectional.
3rd	8	Corrected the primary street name.
	9	Corrected the primary street name and street-type suffix.
	A	Corrected the predirectional and primary street name.
	B	Corrected the predirectional, primary street name, and street-type suffix.
	C	Corrected the primary street name and postdirectional.
	D	Corrected the primary street name, street-type suffix, and postdirectional.
	E	Corrected the predirectional, primary street name, and postdirectional.
	F	Corrected the predirectional, primary street name, postdirectional, and street-type suffix.

Table 12 Status Codes Returned for U.S. Addresses (Continued)

Ordinal Digit	Value	Description
	0	No significant difference between input and corrected data for county number, CART (carrier-route number), DPBC (delivery point barcode), and unit designator.
	1	Corrected the unit designator.
	2	Corrected the DPBC.
	3	Corrected the DPBC and unit designator.
	4	Corrected the CART.
	5	Corrected the CART and unit designator.
	6	Corrected the CART and DPBC.
4th	7	Corrected the CART, DPBC, and unit designator.
	8	Corrected the county number.
	9	Corrected the county number and unit designator.
	A	Corrected the county number and DPBC.
	B	Corrected the county number, DPBC, and unit designator.
	C	Corrected the county number and CART.
	D	Corrected the county number, CART, and unit designator.
	E	Corrected the county number, CART, DPBC.
	F	Corrected the county number, CART, DPBC, and unit designator.
5th		Reserved for future use.
6th		Reserved for future use.

Status Codes: International Addresses

Table 13 Status Codes Returned for International Addresses

Ordinal Digit	Value	Description
1st	S	Status
	0	No significant difference between input and corrected data for country, postal code, region, and locality.
2nd	1	Corrected the country.
	2	Corrected the postal code.
	3	Corrected the country and postal code.
	4	Corrected the region.
	5	Corrected the country and region.
	6	Corrected the postal code and region.
	7	Corrected the country, postal code, and region.
	8	Corrected the locality.
	9	Corrected the country and locality.
	A	Corrected the postal code and locality.
	B	Corrected the country, postal code, and locality.
	C	Corrected the region and locality.
	D	Corrected the country, region, and locality.
	E	Corrected the postal code, region, and locality.
	F	Corrected the country, postal code, region, and locality.

Table 13 Status Codes Returned for International Addresses (Continued)

Ordinal Digit	Value	Description
3rd	0	No significant difference between input and corrected data for directional prefix (predirectional), directional suffix (postdirectional), primary street type, primary street name, and primary range.
	1	Corrected the predirectional and postdirectional.
	2	Corrected the street type.
	3	Corrected the predirectional, postdirectional, and primary street type.
	4	Corrected the primary street name.
	5	Corrected the predirectional, postdirectional, and primary street name.
	6	Corrected the primary street type and primary street name.
	7	Corrected the predirectional, postdirectional, primary street type, and primary street name.
	8	Corrected the primary range.
	9	Corrected the predirectional, postdirectional, and primary range.
	A	Corrected the primary street type and primary range.
	B	Corrected the predirectional, postdirectional, primary street type, and primary range.
	C	Corrected the primary street name and primary range.
	D	Corrected the predirectional, postdirectional, primary street name, and primary range.
	E	Corrected the primary street type, primary street name, and primary range.
	F	Corrected the predirectional, postdirectional, primary street type, primary street name, and primary range.

Table 13 Status Codes Returned for International Addresses (Continued)

Ordinal Digit	Value	Description
4th	0	No significant difference between input and corrected data for unit description, unit number, building name, and firm name.
	1	Corrected the unit description.
	2	Corrected the unit number.
	3	Corrected the unit description and unit number.
	4	Corrected the building name.
	5	Corrected the unit description and building name.
	6	Corrected the unit number and building name.
	7	Corrected the unit description, unit number, and building name.
	8	Corrected the firm.
	9	Corrected the unit description and firm.
	A	Corrected the unit number and firm.
	B	Corrected the unit description, unit number, and firm.
	C	Corrected the building name and firm.
	D	Corrected the unit description, building name, and firm.
	E	Corrected the unit number, building name, and firm.
	F	Corrected the unit description, unit number, building name, and firm.
5th	0	No significant difference between input and corrected data for other components that are not considered basic address components.
	1	Corrected other primary address components.
	2	Corrected other secondary address components.
	3	Corrected other primary and secondary address components.
6th	A	Europe, Middle East, and Africa (EMEA) engine: archived record used for assignment.
	B	Global address engine (New Zealand): base record assignment.
	I	Global address engine (New Zealand): record ignored.
	L	Global address engine (Brazil): Large Volume Receiver (LVR).
	U	Global Address Cleanse (New Zealand): unique address.

Error Codes: U.S. Addresses

Table 14 Error Codes Returned for U.S. Addresses

Code	Description
E101	City, state, or ZIP code is incorrect or missing.
E212	No city and incorrect ZIP code.
E213	Incorrect city, valid state or province, and no ZIP code.
E214	Incorrect city and ZIP code.
E216	Incorrect ZIP code. Cannot determine city.
E302	No primary address line parsed.
E412	Street name not found in directory.
E413	Possible street-name matches too closely to select one.
E420	Primary range is missing.
E421	Primary range is invalid for the street, route, or building.
E422	Predirectional is needed. Input is wrong or missing.
E423	Street-type suffix is needed. Input is wrong or missing.
E425	Street-type suffix, predirectional, or postdirectional is needed. Input is wrong or missing.
E427	Postdirectional is needed. Input is wrong or missing.
E428	Incorrect ZIP code. Cannot match address.
E429	Incorrect city. Cannot match address.
E430	Possible address-line matches too closely to select one.
E431	Urbanization needed. Input is wrong or missing.
E439	Exact match made in EWS (Early Warning System) directory of the USPS.
E500	Other error.
E501	Foreign address.
E502	Input record blank.
E503	ZIP code is not in the area covered by the partial ZIP+4 directory.
E504	Overlapping ranges in the ZIP+4 directory.
E505	Address is not in the USPS directories. Undeliverable address.
E600	Marked by the USPS as unsuitable for mail delivery.
E601	Primary address number not in DPV (Delivery Point Validation) database of the USPS, and ZIP+4 was removed.

Error Codes: International Addresses

Table 15 Error Codes Returned for International Addresses

Code	Description
Input Record Discrepancies	
1020	Address validated in multiple countries.
1030	Country code invalid or absent from the request.
1040	At least one address character not in supported character set.
1060	Country is not supported.
Inconsistent Last Line Information	
2000	Unable to identify the locality, state, or postal code.
2010	Unable to identify the locality. Invalid postal code.
2020	Unable to identify the postal code. Invalid locality that prevents possible address correction.
2030	Invalid locality and postal code that prevents possible address correction.
2040	Invalid postal code that prevents locality selection.
2050	Last line matches too closely to select one. Last line of address, which depends on the country's address format, is incorrect. For example, in the U.S., last lines of an address should contain city, state, and postal code.
Inconsistent Address Information	
3000	Unable to identify the primary address line. Valid locality, region, and postal code.
3010	Unable to match primary name to the directory. Valid locality, region, and postal code.
3020	Possible primary name matches too closely to select one.
3030	Valid primary street name but missing range.
3040	Valid primary street name but invalid range.
3050	Invalid or missing primary street type that prevents a possible address match.
3060	Missing primary street type and directional information that prevents possible address match.
3070	Invalid or missing directional information that prevents possible address match.
3080	Invalid or missing postal code that prevents possible address match.
3090	Invalid locality that prevents possible address match.
3100	Possible address line matches too closely to select one.
3110	Address conflicts with postal code. The same primary street name has a different postal code.
Address with Low Likelihood of Delivery	
4000	Invalid or missing secondary address that prevents a possible secondary address line match. Locality, region, postal code, and primary address are valid.
4010	Possible secondary address matches too closely to select one.

Table 15 Error Codes Returned for International Addresses (Continued)

Code	Description
All Other Types of Information	
5000	Valid address, but address is classified undeliverable by a postal authority.
5010	Address is not in specified country.
5020	Blank input record.
6000	Unclassified error.

Request and Reply Examples

Delivery Address Verification Examples

The service requested is **ics_dav**.

Request

```
bill_address1=1295 charleston
bill_city=Mountain View
bill_country=us
bill_state=ca
bill_zip=94043
ics_applications=ics_dav
merchant_id=example
merchant_ref_number=371CFDA219BD6992C2B044E89
```

Reply

```
bill_address1=1295 charleston
bill_city=Mountain View
bill_country=us
bill_state=ca
bill_zip=94043
client_lib_version=Perl3.2/MSWin324.0/NT4.0/3_3_0_0
dav_address_type=S
dav_bar_code=130795
dav_bar_code_chkdigit=5
dav_match_score=2
dav_rcode=1
dav_rflag=SOK
dav_rmsg=dav service was successful
dav_standard_address=1295 Charleston Rd
dav_standard_address_noapt=1295 Charleston Rd
dav_standard_city=Mountain View
dav_standard_county=Santa Clara
dav_standard_country=US
dav_standard_csz=Mountain View CA 94043-1307
dav_standard_iso_country=US
dav_standard_state=CA
dav_standard_zip=94043
dav_us_info=S80000
ics_applications=ics_dav
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
request_id=0183045530000167905080
merchant_ref_number=371CFDA219BD6992C2B044E89
Ics_Dav transaction succeeded
Ics_Dav : DavUSAddr : 506 Hazelwood Dr|us|ics_rflag=SOK - PASS
```

Export Compliance Examples

Example of Declined Transaction

Request

```
bill_address1=1234 First St.  
bill_city=Mountain View  
bill_country=US  
bill_state=CA  
bill_zip=94043  
customer_email=maria@example.com  
customer_firstname=Maria  
customer_ipaddress=127.0.0.1  
customer_lastname=Rodriguez  
customer_phone=650-965-6000  
ics_applications=ics_export  
merchant_id=example  
merchant_ref_number=391619C45442FD3F484013561  
offer0=amount:20.00
```

Reply

```
export.reason_code=100  
export_info=MATCH-DPC  
export_ip_country_confidence=-1  
export_match1_list=Office of Foreign Assets Control  
export_match1_name1=Maria de Jesus ESPINOZA RODRIGUEZ  
export_match1_program1=SDNTK  
export_rcode=1  
export_return_code=1140000  
export_rflag=SOK  
export_rmsg=export service was successful  
ics_decision_reason_code=481  
ics_rcode=0  
ics_return_code=1000000  
ics_rflag=DREJECT  
ics_rmsg=Decision is REJECT.  
merchant_ref_number=391619C45442FD3F484013561  
request_id=0183045530000167905080
```

Name and Address Word Matching Example

The following request example specifies that for a match to occur:

- The address must be very near an entry on a DPL (Denied Parties List).
`export_address_weight` is set to `high`.
- The customer name or company name can differ slightly more.
`export_name_weight` and `export_company_weight` are set to `medium`.

For more information about adjusting how names and addresses are matched with DPLs, see ["Adjusting Name and Address Word Matching," page 20](#).

```
bill_address1=1295 Charleston Rd.  
bill_city=Mountain View  
bill_country=US  
bill_state=CA  
bill_zip=94043  
customer_email=jdoe@example.com  
customer_firstname=John  
customer_ipaddress=127.0.0.1  
customer_lastname=Doe  
customer_phone=650-965-6000  
export_address_weight=high  
export_name_weight=medium  
export_company_weight=medium  
ics_applications=ics_export  
merchant_id=example  
merchant_ref_number=391619C45442FD3F484013561  
offer0=amount:20.00
```

Name and Address Matching Rule Example

The following request example specifies that for a match to occur, the DPL must include the customer's name or the company name *and* the address by using `export_address_operator=AND` in the request.

For more information about adjusting the rules for matching names and addresses with DPLs, see ["Defining Name and Address Matching Rules," page 20](#).

```
bill_address1=1295 Charleston Rd.  
bill_city=Mountain View  
bill_country=US  
bill_state=CA  
bill_zip=94043  
customer_email=jdoe@example.com  
customer_firstname=John  
customer_ipaddress=127.0.0.1  
customer_lastname=Doe  
customer_phone=650-965-6000  
export_address_operator=AND  
ics_applications=ics_export  
merchant_id=example  
merchant_ref_number=5255F145DD42A52E7BD745F14  
offer0=amount:20.00
```

Export Compliance Standard Codes

Export Compliance returns the following codes.

Denied Parties List Check Codes

The following table contains result codes that are returned for Denied Parties List (DPL) checks. Each code represents one of the denied parties lists that are checked by Export Compliance. These codes are returned in the **export_matchN_list** reply field. When these codes are returned, Export Compliance has detected a match between order data and an entry in the Denied Parties List represented by the code.

Table 16 Denied Parties List Check Codes

Code	Description
GOV-US-DBR	Debarred Parties List
GOV-US-DPL	Denied Party List, Bureau of Export Administration
GOV-US-ENT	Entity List, Bureau of Export Administration
GOV-US-SDN-BAKN	Balkans List - Specially Designated Nationals List
GOV-US-SDN-BPI-PA	Blocked Pending Investigation - Patriot Act, Specially Designated Nationals List
GOV-US-SDN-CU	Cuba List - Specially Designated Nationals List
GOV-US-SDN-FTO	Foreign Terrorist Organization, Specially Designated Global Terrorist - Specially Designated Nationals List
GOV-US-SDN-IQ	Iraq List - Specially Designated Nationals List
GOV-US-SDN-IR	Iran List - Specially Designated Nationals List
GOV-US-SDN-KP	North Korea List - Specially Designated Nationals List
GOV-US-SDN-LY	Libya List - Specially Designated Nationals List
GOV-US-SDN-SD	Sudan List - Specially Designated Nationals List
GOV-US-SDN-SDFT	Specially Designated Terrorist, Foreign Terrorist Organization, Terrorism List Government Sanctions - Specially Designated Nationals List
GOV-US-SDN-SDGT	Specially Designated Global Terrorist - Specially Designated Nationals List

Table 16 Denied Parties List Check Codes (Continued)

Code	Description
GOV-US-SDN-SDNT	Specially Designated Narcotic Trafficker - Specially Designated Nationals List
GOV-US-SDN-SDNTK	Specially Designated Narcotic Trafficker (Kingpin Act) - Specially Designated Nationals List
GOV-US-SDN-SDT	Specially Designated Terrorist - Specially Designated Nationals List
GOV-US-SDN-SDTG	Specially Designated Terrorist, Terrorism List Government Sanctions Regulations - Specially Designated Nationals List
GOV-US-SDN-TABN	Taliban List - Specially Designated Nationals List
GOV-US-SDN-UNITA	National Union for the Total Independence of Angola & The Armed Forces for the Liberation of Angola - Specially Designated Nationals List
GOV-US-SDN-YU	Federal Republic of Yugoslavia (Milosevic) - Specially Designated Nationals List
GOV-US-SPS-EMB	Embargo List - U.S. Dept. of Commerce, Bureau of Export Administration and Office of Foreign Assets

Product Codes

The following table lists the values that you can use with the **product_code** offer field in your requests.

Table 17 Product Codes

Code	Description
adult_content	Adult content.
coupon	Coupon applied to the entire order.
default	Default value for the product code. CyberSource uses <code>default</code> when a request provides no value for the product code.
electronic_good	Electronic product other than software.
electronic_software	Software distributed electronically rather than on tapes, disks, or other media.
gift_certificate	Gift certificate not issued with CyberSource Stored Value Services.
handling_only	Separate charge that is generally a fee imposed by the seller on the customer. The fee pays for the seller's administrative selling costs.
service	Service that you perform for the customer.
shipping_and_handling	Shipping is a separate charge for shipping the product to the purchaser. Handling is generally a fee imposed by the seller to pay for administrative selling costs.
shipping_only	Charge for transporting tangible personal property from the seller to the purchaser. Documentation must be maintained that clearly establishes where title to the tangible personal property passed from the seller to the purchaser.
stored_value	Stored Value certificate.
subscription	Subscription to a web site or other content.

Country and Territory Postal System Categories

This appendix groups countries and territories according to the similarity of their postal systems. Delivery Address Verification uses the databases maintained by these postal systems to verify order address information.



Important

This note applies to categories II, III, and IV. If Delivery Address Verification cannot verify an address completely, or if the address cannot be matched with a postal database entry, you do not receive a successful reply. If the address is listed in a postal database, the service validates the accuracy of the address provided by the customer. When evaluating the reply of the service, make sure that you consider the error and status codes that also may be present in the reply. See "[Status and Error Codes](#)," page 41.

Category I-A

These countries have rigorous testing and a postal certification process that results in the largest amount and greatest accuracy of postal data.

Table 18 Category I-A Country and Territory Postal Systems

Country	Code
Australia	AU
Canada	CA
United States	US
Includes:	
<ul style="list-style-type: none"> • American Samoa [AS] • Federated States of Micronesia [FM] • Guam [GU] • Marshall Islands [MH] • Northern Mariana Islands [MP] • Palau [PW] • Puerto Rico [PR] • Virgin Islands [VI] 	

Category I-B

These countries provide complete address data, including all street names and all valid address ranges for the buildings on the streets. Although the postal systems of these countries lack the rigor of the Category I-A postal systems, these countries generally provide reasonably accurate and almost complete postal information.

Table 19 Category I-B Country and Territory Postal Systems

Country	Code
Netherlands	NL
United Kingdom	GB
Includes:	
<ul style="list-style-type: none"> • Ireland [IE] 	

Category II

These countries have fairly reliable postal systems and provide street names, city names, and postal codes for large and small cities. However, they provide incomplete ranges for the addresses of buildings. Therefore, you can often trust the validation results for the street name, city name, and postal code, but you cannot trust the validation of building addresses.

Table 20 Category II Country and Territory Postal Systems

Country	Code
Denmark	DK
Includes:	
<ul style="list-style-type: none"> • Faroe Islands [FO] 	
France	FR
Includes:	
<ul style="list-style-type: none"> • French Guiana [GF] • Guadeloupe [GP] • Martinique [MQ] • Reunion [RE] • Mayotte [YT] • Monaco [MC] • Saint Pierre and Miquelon [PM] • French Polynesia [PF] • New Caledonia [NC] • Wallis and Futuna [WF] 	
Germany	DE

Table 20 Category II Country and Territory Postal Systems (Continued)

Country	Code
Switzerland	CH
Includes:	
<ul style="list-style-type: none"> • Liechtenstein [LI] 	

Category III

The postal systems in these countries provide street names, city names, and postal codes for large cities only and incomplete or no information for smaller cities. These postal systems may also provide an extremely limited set of building address ranges. Therefore, you can trust the validation results for city name, street name, and postal code for larger cities. For smaller cities, you can trust validation results for city name and postal code.

Table 21 Category III Country and Territory Postal Systems

Country	Code
Austria	AT
Belgium	BE
Finland	FI
Italy	IT
Includes:	
<ul style="list-style-type: none"> • Vatican City [VA] • San Marino [SM] 	
Luxembourg	LU
New Zealand	NZ
Norway	NO
Poland	PL
Portugal	PT
South Africa	ZA
Spain	ES
Sweden	SE

Category IV

In these countries, the postal systems are highly variable. Most countries provide a list of cities and postal codes. However, all cities and postal codes might not be present in the country's postal database.

Table 22 Category IV Country and Territory Postal Systems

Country	Code
Afghanistan	AF
Albania	AL
Algeria	DZ
Andorra	AD
Angola	AO
Anguilla (UK)	AI
Antigua and Barbuda	AG
Argentina	AR
Armenia	AM
Aruba	AW
Azerbaijan	AZ
Bahamas	BS
Bahrain	BH
Bangladesh	BD
Barbados	BB
Belarus	BY
Belize	BZ
Benin	BJ
Bermuda (UK)	BM
Bhutan	BT
Bolivia	BO
Bosnia and Herzegovina	BA
Botswana	BW
Brazil	BR
British Virgin Islands (UK)	VG
Brunei	BN
Bulgaria	BG
Burkina Faso	BF
Burundi	BI
Cambodia	KH

Table 22 Category IV Country and Territory Postal Systems (Continued)

Country	Code
Cameroon	CM
Cape Verde	CV
Cayman Islands (UK)	KY
Central African Republic	CF
Chad	TD
Chile	CL
China	CN
Includes:	
• Macau [MO]	
Christmas Island (AU)	CX
Cocos (Keeling) Islands (AU)	CC
Columbia	CO
Comoros	KM
Congo, Democratic Republic of the	CD
Congo	CG
Cook Islands (NZ)	CK
Costa Rica	CR
Côte d'Ivoire	CI
Croatia	HR
Cuba	CU
Cyprus	CY
Czech Republic	CZ
Djibouti	DJ
Dominica	DM
Dominican Republic	DO
Ecuador	EC
Egypt	EG
El Salvador	SV
Equatorial Guinea	GQ
Eritrea	ER
Estonia	EE
Ethiopia	ET
Falkland Islands (UK)	FK
Fiji	FJ
Gabon	GA

Table 22 Category IV Country and Territory Postal Systems (Continued)

Country	Code
Gambia	GM
Georgia	GE
Ghana	GH
Gibraltar (UK)	GI
Greece	GR
Greenland (DK)	GL
Grenada	GD
Guatemala	GT
Guinea	GN
Guinea-Bissau	GW
Guyana	GY
Haiti	HT
Honduras	HN
Hong Kong	HK
Hungary	HU
Iceland	IS
India	IN
Indonesia	ID
Iran	IQ
Iraq	IE
Israel	IL
Jamaica	JM
Japan	JP
Jordan	JO
Kazakhstan	KZ
Kenya	KE
Kiribati	KI
Korea, Democratic People's Republic (North)	KP
Korea, Republic of (South)	KR
Kosovo	KV
Kuwait	KW
Kyrgyzstan	KG
Laos	LA
Latvia	LV
Lebanon	LB

Table 22 Category IV Country and Territory Postal Systems (Continued)

Country	Code
Lesotho	LS
Liberia	LR
Lithuania	LT
Libya	LY
Macedonia	MK
Madagascar	MG
Malawi	MW
Malaysia	MY
Maldives	MV
Mali	ML
Malta	MT
Mauritania	MR
Mauritius	MU
Mexico	MX
Moldova	MD
Mongolia	MN
Montenegro	ME
Montserrat (UK)	MS
Morocco	MA
Mozambique	MZ
Myanmar	MM
Namibia	NA
Nauru	NR
Nepal	NP
Netherlands Antilles (NL)	AN
Nicaragua	NI
Niger	NE
Nigeria	NG
Niue	NU
Norfolk Island (AU)	NF
Oman	OM
Pakistan	PK
Panama	PA
Papua New Guinea	PG
Paraguay	PY

Table 22 Category IV Country and Territory Postal Systems (Continued)

Country	Code
Peru	PE
Philippines	PH
Pitcairn Islands (UK)	PN
Qatar	QA
Romania	RO
Russia	RU
Rwanda	RW
Saint Helena (UK)	SH
Saint Kitts and Nevis	KN
Saint Lucia	LC
Saint Vincent and the Grenadines	VC
Samoa	WS
Sao Tome and Principe	ST
Saudi Arabia	SA
Senegal	SN
Serbia	RS
Seychelles	SC
Sierra Leone	SL
Singapore	SG
Slovakia	SK
Slovenia	SI
Solomon Islands	SB
Somalia	SO
South Georgia and the South Sandwich Islands (UK)	GS
Sri Lanka	LK
Sudan	SD
Suriname	SR
Swaziland	SZ
Syria	SY
Taiwan	TW
Tajikistan	TJ
Tanzania	TZ
Thailand	TH
Timor-Leste	TL
Togo	TG

Table 22 Category IV Country and Territory Postal Systems (Continued)

Country	Code
Tokelau	TK
Tonga	TO
Trinidad and Tobago	TT
Tunisia	TN
Turkey	TR
Turkmenistan	TM
Turks and Caicos Islands (UK)	TC
Tuvalu	TV
Uganda	UG
Ukraine	UA
United Arab Emirates	AE
Uruguay	UY
Uzbekistan	UZ
Vanuatu	VU
Venezuela	VE
Vietnam	VN
Western Sahara	EH
Yemen	YE
Zambia	ZM
Zimbabwe	ZW

Restricted and Denied Parties List

Export Compliance uses the following government agency lists to screen order data. If you use Decision Manager, you can use these lists to create custom rules.



Important

The BXA/BIS list has been replaced by the BIS, DOC_DTC, and DOC_ISN lists.

Table 23 Restricted and Denied Parties List

List	Program Abbreviation	Name
AUSTRALIA	AUS_UNSC	Australia Department of Foreign Affairs and Trade (DFAT) United Nations Security Council (UNSC) Resolution
	AUS_ALQ	Australia DFAT UNSCR 1267 - Al Qaida and Taliban
	AUS_CAR	Australia DFAT UNSCR 2127 - Central Africa Republic
	AUS_IRN	Australia DFAT UNSCR 1737 - Iran
	AUS_IRQ	Australia DFAT UNSCR 1518 - Iraq
	AUS_AUTO_LIB	Australia Autonomous Sanctions Regulations 2011 - Libya
	AUS_AUTO_KOR	Australia Autonomous Sanctions Regulations 2011 - North Korea
	AUS_KOR	Australia DFAT UNSCR 1718 - North Korea
	AUS_SOM	Australia DFAT UNSCR 751 - Somalia
	AUS_SDT	Australia DFAT Foreign Affair
	AUS_SUD	Australia DFAT UNSCR 1591 - Sudan
	AUS_LBR	Australia DFAT UnSCR 1521 - Liberia
	AUS_UKR	Autonomous (Ukraine)
	AUS_AUTO_ZIM	Australia Autonomous Sanctions Regulations 2011 - Zimbabwe
BIS	BIS_DPL	BIS Denied Person List

Table 23 Restricted and Denied Parties List (Continued)

List	Program Abbreviation	Name
	BIS_ENT	BIS Entity List
	BIS_UNV	BIS Unverified List
CAN_FACFO	CAN_FACFO	Canada Freezing Assets of Corrupt Foreign Officials (FACFO) Act
CAN_SEMA	CAN_SEMA	Canada Special Economic Measures Act (SEMA)
CANADA_SC	CANADA_SC	Canada Sanctioned Countries List
DOS_CISADA	DOS_CISADA	Dept of State Comprehensive Iran Sanctions, Accountability and Divestment Act of 2010 (CISADA)
DOS_DTC	US_DEBARRED	Defense Trade Controls Debarred Parties List
DOS_ISN	ISN_ISNA	Iran Syria Non-Proliferation Act of 2005
	ISN_MSL	BIS Missile Sanctions Laws
	ISN_CBW	BIS Chemical and Biological Weapons Sanctions
	ISN_NPWMD	Nonproliferator Weapons of Mass Destruction
	ISN_LME	Sanctions for the Transfer of Lethal Military Equipment
	ISN_Iran_Iraq	Iran-Iraq Arms Nonproliferation Act of 1992
	ISN_INKSNA	Iran, North Korea, Syria Nonproliferation Act Sanctions
	ISN_INPA	Iran Nonproliferation Act of 2000
ENGLAND	HMTreasury	Her Majesty's Treasury (HM Treasury) Sanction List
	HMT_AFG	HM Treasury Afghanistan Sanction
	HMT_SYR	HM Treasury Syria Sanction
	HMT_BEL	HM Treasury Belarus Sanction
	HMT_CAF	HM Treasury Central African Republic Sanction
	HMT_CON	HM Treasury Congo Sanction
	HMT_EGY	HM Treasury Egypt Sanction
	HMT_IRN	HM Treasury Iran Sanction
	HMT_DPRK	HM Treasury North Korea Sanction
	HMT_GIN	HM Treasury Republic of Guinea Sanction
	HMT_GNB	HM Treasury Guinea-Bissau Sanction
	HMT_SOM	HM Treasury Somalia Sanction
	HMT_ALQ	HM Treasury Al-Qaida Sanction
	HMT_SUD	HM Treasury Sudan Sanction

Table 23 Restricted and Denied Parties List (Continued)

List	Program Abbreviation	Name
	HMT_SDT	HM Treasury Terrorist Financing Sanction
	HMT_UKM	Ukraine (Misappropriation)
	HMT_UKS	Ukraine (Sovereignty)
	HMT_YEM	Yemen
	HMT_ZIM	HM Treasury Zimbabwe Sanction
EUROPE	EUROPE	European Sanctions and Embargoes
FATF	FATF	Financial Action Task Force on Money Laundering
FBI	FBI_10MW	Federal Bureau of Investigation (FBI) Ten Most Wanted Fugitives List
	FBI_FGT	FBI Wanted Fugitives List
HMT_USTI	HMT_USL	HM Treasury Ukraine Sovereignty and Territorial Integrity (USTI) List
INTERPOL	INTERPOL	Recent Most Wanted List & Hague International Criminal Court
JAPAN	JAPAN	Japan Ministry of Economy, Trade and Industry (METI) Sanction List
OFAC	BALKANS	Balkans
	BELARUS	Belarus Executive Order and Designations
	BPI-PA	Blocked Pending Investigation - Patriot Act of 2001
	BPI-SDNT	Blocked Pending Investigation - SDNT
	BPI-SDNTK	Blocked Pending Investigation - SDNT Kingpin Act
	BURMA	Burma Sanctions
	JADE	Burma Junta's Anti-Democratic Efforts
	COTED	Côte d'Ivoire (Ivory Coast) Sanctions
	CUBA	Cuba Sanctions
	DRCONGO	Democratic Republic of the Congo
	FinCEN_311F	FinCEN 311 List - The Finding
	FinCEN_311R	FinCEN 311 List - The Final Rule
	FinCEN_311P	FinCEN 311 List - The Notice of Proposed Rulemaking
	FTO	Foreign Terrorist Organization
	IRAN	Iran
	IRAQ2	Iraq Sanctions - Blocking property of the former regimes - Exec 13315
	IRAQ3	Iraq Sanctions - Executive Order 13350

Table 23 Restricted and Denied Parties List (Continued)

List	Program Abbreviation	Name
	LEBANON	Lebanon
	LIBERIA	Liberia
	LIBYA2	Libya Sanctions
	NPWMD	Non-Proliferators Weapons of Mass Destruction
	NS-PLC	Non-SDN Palestinian Legislative Council
	DPRK	North Korea
	SOMALIA	Somalia Sanctions
	SDGT	Specially Designated Global Terrorist
	SDNT	Specially Designated Narcotics Traffickers
	SDNTK	Specially Designated Narcotics Traffickers - Kingpin Act
	SDT	Specially Designated Terrorist
	SUDAN	Sudan
	DARFUR	Sudan Darfur Region
	SYRIA	Syria
	TCO	Transnational Criminal Organizations
	WMD	Weapons of Mass Destruction Trade Control Regulations
	ZIMB	Zimbabwe
OFAC_SSI	UKRAINE-EO13662	OFAC Sectoral Sanctions Identifications List - UKRAINE Executive Order 13662
OSFI	OSFI	Canada Office of the Superintendent of Financial Institutions (OSFI) Sanction List
	OSFI_ALQ	Canada OSFI UNSCR 1267 - Al Qaida and Taliban
	OSFI_KOR	Canada OSFI UNSCR 1718 - North Korea
TEL	DOS_TEL	Terrorist Exclusion List
UNSL	UN_SOM	United Nations Sanction List - Resolutions 751 (1992) and 1907 (2009) concerning Somalia and Eritrea
	UN_ALQ	UN Resolutions 1267 (1999) and 1989 (2011) concerning Al-Qaeda and associated individuals and entities
	UN_IRQ	UN Resolution 1518 (2003) concerning Iraq and Kuwait
	UN_CON	UN Resolution 1533 (2004) concerning the Democratic Republic of the Congo

Table 23 Restricted and Denied Parties List (Continued)

List	Program Abbreviation	Name
	UN_SUD	UN Resolution 1591 (2005) and 2206 (2015) concerning The Sudan
	UN_DPRK	UN Resolution 1718 (2006) concerning the Democratic People's Republic of Korea
	UN_IRN	UN Resolution 1737 (2006) concerning the Islamic Republic of Iran
	UN_LIB	UN Resolution 1970 (2011) concerning Libya
	UN_TAL	UN Resolution 1988 (2011) concerning All States - Taliban
	UN_GNB	UN Resolution 2048 (2012) concerning Guinea-Bissau
	UN_CAR	UN Resolution 2127 (2013) concerning Central African Republic
	UN_YEM	UN Resolution 2140 (2014) concerning Yemen
WBNK	WBNK_DEBARRED	World Bank Listing of Ineligible Firms and Individuals

Address Type

The following address type codes are returned in the **dav_address_type** reply field.

Table 24 Address Type Codes

Code	Description
F	Firm.
G	General delivery.
H	High-rise apartment or office building.
M	Military.
P	Post office box.
R	Rural route or highway contract.
S	Street (usually one side of one city block).
FD	Firm default. The standardization process was unable to assign a firm extended ZIP code.
GD	General delivery default. Assign when general delivery is the only primary name listed for the ZIP code.
HD	High-rise default. The standardization process assigned the extended ZIP code for the entire building. Assignment at the unit, floor, or wing level is possible. A suite or apartment number may be out of range.
RD	Rural route or highway contract default. The standardization process assigned the extended ZIP code for the entire route but was unable to assign the box number.
SD	Street default. The standardization process assigned the extended ZIP code for the block because no extended ZIP code for the building.
UD	Unique default. Either the owner of the ZIP code did not assign extended ZIP codes, or the address was not matched.

Index

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A

address

standardization example [12](#)

validation example [11](#)

AND name and address matching rule [20](#)

Authorization Reversal service conflicts

with Delivery Address Verification [14](#)

with Export Compliance [17](#)

C

card-not-present transactions [10](#)

Case Details window contains Denied Parties

List check results [18](#)

D

Decision Manager

Case Details window contains Denied Parties List check results [18](#)

Export match program order element [18](#)

used with Denied Parties List checks [18](#)

used with Export Compliance [13](#)

default name and address matching rule [20](#)

Delivery Address Verification

conflicting services [14](#)

how verification works [11](#)

ignoring result [14](#)

multi-byte character support [14](#)

results returned [12, 15](#)

Denied Parties List checks

definition [17](#)

example [18](#)

results in Case Details window [18](#)

with Decision Manager [18](#)

denied parties list checks

return reply flag DRESTRICTED [17](#)

DINVALIDADDRESS reply flag [40](#)

DINVALIDDATA reply flag [40](#)

DMISSINGFIELD reply flag [40](#)

DRESTRICTED reply flag [40](#)

E

Enhanced Case Management, viewing export information [18](#)

error codes

API reply fields returned in [15](#)

definition [15](#)

example [16](#)

ESYSTEM reply flag [40](#)

ETIMEOUT reply flag [40](#)

examples

address standardization [12](#)

address validation [11](#)

Denied Parties List checks [18](#)

error codes [16](#)

Export Compliance AND matching rule [21](#)

request that uses ignore_export_result [19](#)

risky address [16](#)

status codes [16](#)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Export Compliance

- AND matching rule example [21](#)
- AND name and address matching rule [20](#)
- conflicting services [17](#)
- custom rules information codes [18](#)
- default name and address matching rule [20](#)
- IGNORE name and address matching rule [21](#)
- IP address checks [17](#)
- OR name and address matching rule [21](#)
- profile selector rules information codes [18](#)
- results displayed in Business Center [13](#)
- used with Decision Manager [13, 18](#)

export_match reply fields [17](#)

I

- IGNORE name and address matching rule [21](#)
- ignore_dav_result [14](#)
- ignore_export_result example [19](#)
- information codes
 - returned with scoring service [16](#)
 - RISK-AVS [16](#)
- IP address checks in Export Compliance [17](#)

M

- matching rule
 - AND [20](#)
 - IGNORE [21](#)
 - OR [21](#)
- multi-byte character support [14](#)

N

- name and address matching rule
 - AND [20](#)
 - IGNORE [21](#)
 - OR [21](#)

O

- OR name and address matching rule [21](#)

R

- reply fields starting with export_match [17](#)
- reply flag DRESTRICTED returned for denied parties list checks [17](#)
- Risk Update service conflicts
 - with Delivery Address Verification [14](#)
 - with Export Compliance [17](#)
- RISK-AVS information code [16](#)
- risky address example [16](#)

S

- SOK reply flag [40](#)
- status codes
 - API reply fields returned in [15](#)
 - definition [15](#)
 - example [16](#)

U

- U.S. Export Administration Regulations [13](#)