



BlueAssure Platform

Integration API Documentation

JSON API Version 3.0.0

Table of Contents

Overview	8
Introduction	8
Endpoints	8
Request	8
Headers	8
Authentication	8
IP Restrictions	8
Customer Reference Field	8
Response	9
Meta	9
Web Service Warnings	9
Errors	9
Solution Decision Workflow	10
Test Data	10
Example .NET Code	11
Example PHP Code	12
BlueAssure Products	13
AssureKYC	13
Service URL	13
Input Fields	13
Test Data	13
AssureKYC Request JSON Example	13
AssureKYC Response JSON Example	14
AssureID	17
Service URL	17
Input Fields	17
Test Data	18
AssureID Request JSON Example	18
AssureID Response JSON Example	18
AssureCorp	29
Service URL	29
Input Fields	29

Test Data	29
AssureCorp Request JSON Example	29
AssureCorp Response JSON Example.....	29
AssureSSN	31
Service URL.....	31
Input Fields.....	31
Test Data	31
AssureSSN Request JSON Example	31
AssureSSN Response JSON Example	31
AssureCanada.....	34
Service URL.....	34
Input Fields.....	34
AssureCanada Request JSON Example.....	34
AssureCanada Response JSON Example	35
AssurePhone	38
Service URL.....	38
Input Fields.....	38
Test Data	38
AssurePhone Request JSON Example	38
AssurePhone Response JSON Example	38
AssureWatch	40
Service URL.....	40
Input Fields.....	40
Test Data	40
AssureWatch Request JSON Example	41
AssureWatch Response JSON Example.....	41
AssureFinCEN	45
Service URL.....	45
Input Fields.....	45
Test Data	45
AssureFinCEN Request JSON Example	46
AssureFinCEN Response JSON Example.....	46
AssureCard	48

Service URL.....	48
Input Fields.....	48
Upload Images Directly	49
Capture Images From Mobile Phone	49
Capture Images From Web Portal.....	49
Receiving Submitted Images	49
Image Quality & Size Recommendations	49
Asynchronous Request/Response Process	49
Linking the Initial Request and Final Callback	50
Test Data	51
AssureCard Initial Request (Image Upload) JSON Example	51
AssureCard Initial Request (Web to Mobile) JSON Example.....	51
AssureCard Initial Request (Web Portal) JSON Example.....	52
AssureCard Initial Response (Image Upload) JSON Example	52
AssureCard Initial Response (Web to Mobile) JSON Example	52
AssureCard Initial Response (Web Portal) JSON Example	52
AssureCard Webhook Uploaded Images JSON Example	52
AssureCard WebHook Callback JSON Example	53
AssureFill	64
Service URL.....	64
Input Fields.....	64
Image Quality & Size Recommendations	64
Upload Images Directly	65
Capture Images From Mobile Phone	65
Capture Images From Web Portal.....	65
Receiving Submitted Images	65
Test Data	65
AssureFill Request (Image Upload) JSON Example	66
AssureFill Request (Web to Mobile) JSON Example	66
AssureFill Request (Web Portal) JSON Example	66
AssureFill Response (Web Portal) JSON Example	67
AssureFill Webhook Uploaded Images JSON Example	67
AssureFill Response JSON Example.....	67

AssureAMS.....	69
Service URL.....	69
Input Fields.....	69
Test Data	69
AssureAMS Request JSON Example (Individual).....	69
AMS Request JSON Example (Entity)	70
AssureAMS Response JSON Example.....	70
PEP	74
Service URL.....	74
Input Fields.....	74
Test Data	74
PEP Request JSON Example (Individual)	74
PEP Response JSON Example	75
AssurePay.....	77
Service URL.....	77
Input Fields.....	77
Test Data	78
AssurePay Request JSON Example.....	78
AssurePay Response JSON Example.....	78
AssureLocate	80
Service URL.....	80
Input Fields.....	80
Test Data	80
AssureLocate Request (Web Portal) JSON Example	80
AssureLocate Request (Web to Mobile) JSON Example	80
AssureLocate Initial Response (Web Portal) JSON Example	81
AssureLocate Initial Response (Web to Mobile) JSON Example	81
AssureLocate Webhook Callback JSON Example	81
Appendix A: Response Codes.....	83
Address Verification (Level 5) Result Codes.....	83
Address Verification (Level 4) Result Codes.....	83
Address Verification (Level 3) Result Codes.....	86
Address Verification (Level 2) Result Codes.....	93

Address Verification (Level 1) Result Codes.....	101
Address Verification (Level 0) Result Codes.....	104
Address Unit Mismatch Result Codes	104
Phone Mismatch Result Codes	105
Change Of Address Result Codes	105
Address Type Result Codes	105
Address High Risk Result Codes	107
Driver's License Result Codes.....	107
Phone Verification (Level 5) Result Codes	108
Phone Verification (Level 4) Result Codes	108
Phone Verification (Level 3) Result Codes	109
Phone Verification (Level 2) Result Codes	110
Phone Verification (Level 1) Result Codes	111
Phone Verification (Level 0) Result Codes	111
Caller Type Result Codes.....	112
Phone High Risk Result Codes.....	112
Phone Type Result Codes.....	112
Phone Verification Delivery Type Result Codes	112
SSN Format Validation Result Codes.....	112
Driver's License Format Validation Result Codes.....	112
SSN Issue Result Codes	113
SSN Deceased Result Codes	113
Consumer ID (SSN) Result Codes	113
Date of Birth Result Codes	115
Fraud Shield Results	116
Exclusion Conditions	116
Shared Application Result Codes	117
Email Verification Result Codes	124
Email Validation Result Codes.....	124
Email Reason Result Codes	124
Email Repository Result Codes	124
IP Address Verification Result Codes - City	125
IP Address Verification Result Codes - State.....	125

IP Address Verification Result Codes – Zip Code	125
IP Address Verification Result Codes – Country	125
Card Document Validation Result Codes	126
Card Image Parsing Result Codes	126
Fill Document Validation Result Codes	126
Fill Document Expiration Result Codes	126
Legacy Address Verification Result Codes	127
Legacy Phone Verification Result Codes	128
Appendix B: AssureCanada Match Codes	131
Appendix C: AssureWatch Match Codes	134
AssureWatch Field-Level Result Codes	134
Appendix D: AssureFinCEN Match Codes	135
AssureFinCEN Validation Result Codes	135
Appendix E: AssureAMS Match Codes	136
AssureAMS Match Found Codes	136
AssureAMS Type Categories	136
AssureAMS SubType Categories	138
Appendix F: PEP Match Codes	139
PEP Match Result Codes	139
PEP Risk Types	139
Appendix G: AssurePay Match Codes	140
AssurePay Attribute Match Codes	140
Appendix H: AssureLocate Match Codes	141
AssureLocate VPN Probability Result Codes	141

Overview

Introduction

The BlueAssure Platform integration API is an XML and JSON web service over HTTPS. All requests and responses are encrypted using 256 bit TLS 1.2. BlueAssure supports any platform capable of sending and receiving XML or JSON.

Endpoints

Each product within the BlueAssure platform has a separate URL endpoint. All requests are formatted in XML or JSON and must use the POST method for the request to be accepted.

For auditing and troubleshooting purposes, please include a unique customer reference number for each transaction that relates to an account, identity, or transaction within your own system.

Request

Headers

Only three headers are required: Host, Content-Length, and Content-Type. The Host header value should be "blueassure.evssolutions.com:443", the Content-Length header value should be calculated when the request is sent, and the Content-Type header value should be either "application/json" or "text/xml", depending on the format of your request body.

Authentication

BlueAssure uses a username/password credential set included within the request body for authentication, as well as request IP whitelisting. To set up web service credentials to make API calls go to the [account security page](#) on the platform site and then click the Add button under the Integration Credentials section. The username and password is automatically generated. Enter a description, copy the password to a secure storage solution (such as a password manager or secrets vault), and click save. Don't forget to copy the password before clicking save because it will not be available again after saving. If you do lose the password you can click the edit button in the list of integration credentials to have the option to regenerate a new password. Please note that the old password will no longer work.

IP Restrictions

All users of the BlueAssure Management Platform are restricted by IP Address for security purposes. A user with an invalid IP range can still login but are restricted in what they can both see and do. EVS will add any initial IP ranges so that you can fully manage your account including adding any additional IP ranges yourself. To add additional IP ranges go to the [account security page](#) on the platform site and then click on the Edit button under the IP Restrictions section.

Customer Reference Field

The CustomerReference property is a field that will accept any text data including letters, numbers, and special characters. This data will be stored with the transaction being processed and can be used to associate a transaction in BlueAssure with a record or identity in your system. This field can also be used to find the transaction at a later date using the BlueAssure Management Platform.

Response

There are three possible top-level objects in the BlueAssure platform JSON response body. The “meta” object is always present and contains metadata regarding the transaction itself. The “errors” array is only present when unrecoverable errors have occurred and is an array of objects each containing a code and error message (see below). The “data” object contains all fields pertaining to the individual product response, i.e., AssureID. The “errors” array and “data” object are mutually exclusive.

Meta

This object contains the following fields:

Field Name	Description
TransactionID	A unique ID generated for this transaction.
TransactionDate	Timestamp of the transaction
ProductName	Name of the BlueAssure product used, i.e., “AssureID”
ProductVersion	Web service version used, i.e., “3.0.0”
CustomerReference	The value of the CustomerReference field provided in the request
Data Provider Duration	Time in seconds waiting for responses from BlueAssure’s data providers
Total Duration	Total time in seconds processing the transaction
Warnings	Array of strings describing recoverable issues with the request (see below)

Web Service Warnings

When submitting requests to the web service the BlueAssure platform will attempt to clean input data that fails validation. For instance, with the consumer product the SSN field can have no digits, four digits, or nine digits. If the request includes an SSN that includes hyphens (123-456-789) then it is technically invalid for the field since only numbers are allowed. However, we remove non-numeric characters for that field which then leaves a valid nine-digit SSN. We continue the transaction with the cleaned SSN field and return a warning in the Warnings string array in the JSON response. This process occurs for all fields we are able to clean including zip codes, phone numbers, addresses, etc.

Errors

The top-level array of Error objects is similar to the Warnings array, except that errors are problems we were unable to recover from. For instance, the first name field is required for the consumer product. If a first name is not provided we cannot continue with the transactions. In this case we return an error message with the reason the transaction was stopped. Whereas the Warnings section deals primarily with input validation, the Errors section is used for unrecoverable input validation, an invalid JSON request, an account or using being locked or disabled, invalid credentials, etc. Below is a list of errors and their codes.

Error Code	Error Message
1000	An unknown internal error occurred
1001	Creation of transaction failed
1002	Data provider returned an error
1003	Request parse error
2000	Account is locked
2001	Account is disabled
2002	Account not found
2003	User is locked
2004	User is disabled
2005	User not found
2006	Not enough permissions to perform the action
2007	Account does not have access to the product being requested
2008	User is not allowed to run web service requests
2009	Account has reached its transaction limit
2010	IP address is not in acceptable range
3000	An input field failed validation
4000	An active FinCEN list could not be found

Solution Decision Workflow

BlueAssure Management Platform allows you to define a custom decision workflow that is used each time a request is made to determine if the identity passes or fails based on your needs and business rules. If a workflow match cannot be made that either passes or fails a transaction it will be marked with an outcome of needing further review. The web service returns a WorkflowOutcome result code containing one of the outcomes listed in the table below.

Workflow Code	Workflow Message
P	Pass
F	Fail
R	Needs Further Review

Test Data

Since EVS has no data in-house, we cannot offer any real test data; however, for each of our products, we offer canned responses that can be used for testing purposes. To use this dummy data, turn on test transactions for your account on the Account Options page on the BlueAssure Platform Management site, click Edit at the bottom of the page, turn on test transaction under the Product Options header, and click Save. Then, in your request, use the special request data values for the product you're using (detailed below in each product's section). There are no charges for using dummy data.

Example .NET Code

```
using System.IO;
using System.Net;
using System.Text.Json;

var request = new
{
    meta = new
    {
        credentials = new
        {
            username = "Your Username",
            password = "Your Password"
        },
        customerReference = "123456789ABC"
    },
    data = new
    {
        firstName = "John",
        lastName = "Test",
        ssn = "222222222",
        street = "123 Main St",
        city = "Louisville",
        state = "KY",
        zipCode = "40223",
        dateOfBirth = "1950-01-31"
    }
};

string url = "https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureId";
byte[] postData = Encoding.UTF8.GetBytes(JsonSerializer.Serialize(request));

HttpRequest webRequest = (HttpRequest)WebRequest.Create(url);
webRequest.ProtocolVersion = HttpVersion.Version11;
webRequest.Method = "POST";
webRequest.ContentType = "application/json";
webRequest.ContentLength = postData.Length;

Stream requestStream = webRequest.GetRequestStream();
requestStream.Write(postData, 0, postData.Length);
requestStream.Close();

HttpWebResponse webResponse = (HttpWebResponse)webRequest.GetResponse();
StreamReader reader = new StreamReader(webResponse.GetResponseStream());
```

Example PHP Code

```
// URL of the AssureID Product Service
$serviceUrl = 'https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureID';

// Username generated from platform site for use only with the web service
$username = '';

// Password generated from platform site for use only with the web service
$password = '';

// Identity information to search for
$identity = array(
    'FirstName' => 'John',
    'LastName' => 'Test',
    'Street' => '123 Main St',
    'City' => 'Louisville',
    'State' => 'KY',
    'ZipCode' => '40223',
    'DateOfBirth' => '1950-01-31'
);

// Build the JSON Request Object
$requestJson = array(
    'meta' => array(
        'credentials' => array(
            'username' => $username,
            'password' => $password
        ),
        'customerReference' => '123456789ABC'
    )
    'data' => $identity
);

// Make the request
$ch = curl_init($serviceUrl);
curl_setopt($ch, CURLOPT_POST, 1);
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type: application/json'));
curl_setopt($ch, CURLOPT_POSTFIELDS, json_encode($requestJson, JSON_FORCE_OBJECT));
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
$response = curl_exec($ch);
curl_close($ch);

// Debug output of the response
header("Content-Type:application/json");
echo $response;
```

BlueAssure Products

AssureKYC

The AssureKYC product is used to authenticate a consumer based on whole or partial social security number, name, address, phone number, and date of birth in the United States.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureKyc>

Input Fields

Field	Required	Notes
FirstName	Yes	
MiddleName	No	
LastName	Yes	
Generation	No	
Ssn	No	4 or 9-digit social security number
Street	Yes	
City	No	
State	No	2 letter state abbreviation
ZipCode	Yes	5 or 9-digit zip code
DateOfBirth	No	Format: yyyy-MM-dd
PhoneNumber	No	10-digit phone number
SimilarityThreshold	No	AssureWatch Option Only. See AssureWatch for more details.
LookbackDate	No	AssureAMS Option Only. See AssureAMS for more details.

Test Data

Use any name and address of your choosing in conjunction with any of the below SSNs to receive the canned/dummy response. If Solution Engine Workflow has been enabled of your account, the dummy response will also include a workflow outcome. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

SSN	Workflow Code	Workflow Message
222222222	P	Pass
333333333	F	Fail
444444444	R	Needs Further Review

AssureKYC Request JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    }
  }
}
```

```

    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "ssn": "222222222",
    "firstName": "John",
    "middleName": null,
    "lastName": "Test",
    "generation": null,
    "street": "123 Main St",
    "city": "Louisville",
    "state": "KY",
    "zipCode": "40223",
    "dateOfBirth": "1950-01-31",
    "phoneNumber": "5554443333",
    "similarityThreshold": null
  }
}

```

AssureKYC Response JSON Example

```

{
  "meta": {
    "transactionId": 134888,
    "transactionDate": "2023-12-05T22:48:13.6",
    "productName": "AssureKYC",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "1.425",
    "totalDuration": "2.623599"
  },
  "data": {
    "workflowOutcome": {
      "code": "P",
      "description": "Pass"
    },
    "assureKyc": {
      "primaryResult": {
        "code": "00"
      },
      "addressVerificationResult": {
        "code": "Y",
        "description": "Supplied full name matches supplied address. Address confirmed residenti
al."
      },
      "addressTypeResult": {
        "code": "S",
        "description": "Submitted address is residential address."
      },
      "addressHighRiskResult": {
        "code": "N",
        "description": "No address high risk information found for submitted address."
      },
      "phoneVerificationResult": {
        "code": "M",
        "description": "Phone number was not entered on search request."
      },
      "phoneHighRiskResult": {
        "code": "N",
        "description": "No phone high risk information found."
      },
      "changeOfAddressResult": {
        "code": "N",
        "description": "No change of address information was found."
      },
      "socialSecurityNumberResult": {
        "code": "YA",
        "description": "Match to full name and address using Social Security Number."
      }
    }
  }
}

```

```

"dateOfBirthResult": {
  "code": "6",
  "description": "DOB not on input."
},
"minorResult": {
  "code": "N",
  "description": "The matched consumer is an adult."
},
"reportedFraudResult": {
  "code": "N",
  "description": "No fraud has been reported for the matched consumer"
},
"standardizedAddress": {
  "firstName": "JOHN",
  "middleInitial": "",
  "lastName": "TEST",
  "street": "123 MAIN ST",
  "city": "LOUISVILLE",
  "state": "KY",
  "zipCode": "40299",
  "zipPlusFour": "4667",
  "county": "Jefferson"
},
"consumerIdDetail": {
  "areaCode": "",
  "phone": "",
  "reportedDate": {
    "year": "2012",
    "month": "11",
    "day": "16"
  },
  "lastTouchedDate": {
    "year": "2015",
    "month": "09",
    "day": "01"
  },
  "firstName": "JOHN",
  "middleInitial": "",
  "lastName": "TEST",
  "street": "123 MAIN ST",
  "city": "LOUISVILLE",
  "state": "KY",
  "zipCode": "40299",
  "zipPlusFour": "4667",
  "county": "Jefferson"
},
"residentialAddressDetails": [
  {
    "residenceLength": "0047",
    "aliasName": "",
    "areaCode": "502",
    "phone": "0000000",
    "lastTouchedDate": {
      "year": "2015",
      "month": "11",
      "day": "02"
    },
    "firstName": "JOHN",
    "middleInitial": "R",
    "lastName": "TEST",
    "street": "123 MAIN ST",
    "city": "LOUISVILLE",
    "state": "KY",
    "zipCode": "40299",
    "zipPlusFour": "4667",
    "county": "Jefferson"
  },
  {
    "residenceLength": "",

```

```

        "aliasName": "",
        "areaCode": "",
        "phone": "",
        "lastTouchedDate": {
            "year": "2015",
            "month": "09",
            "day": "01"
        },
        "firstName": "JOHN",
        "middleInitial": "",
        "lastName": "SMITH",
        "street": "123 MAIN ST",
        "city": "LOUISVILLE",
        "state": "KY",
        "zipCode": "40299",
        "zipPlusFour": "4667",
        "county": "Jefferson"
    },
    ],
    "ssnValidation": {
        "deceasedResult": {
            "code": "N",
            "description": "Not deceased - no matching files found on the death master list."
        },
        "formatResult": {
            "code": "V",
            "description": "Social Security Number is valid per Social Security Administration fil
es."
        },
        "issueResult": {
            "code": "I",
            "description": "Social Security Number has been issued with a beginning and ending dat
e."
        },
        "stateIssued": "KY",
        "issueStartRange": "1966",
        "issueEndRange": "1968"
    }
}
}
}
}
}

```


AssureID

The AssureID product is used to authenticate a consumer based on whole or partial social security number, name, address, phone number, driver's license, and date of birth in the United States. Fraud shield codes and additional addresses are also returned.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureId>

Input Fields

Field	Required	Notes
FirstName	Yes	
MiddleName	No	
LastName	Yes	
Generation	No	
Ssn	No	4 or 9-digit social security number
Street	Yes	
City	No	
State	No	2 letter state abbreviation
ZipCode	Yes	5 or 9-digit zip code
DateOfBirth	No	Format: yyyy-MM-dd
DriverLicenseNumber	No, except when DriverLicenseState is present.	
DriverLicenseState	No, except when DriverLicenseNumber is present.	2 letter state abbreviation
PhoneNumber	No	10-digit phone number
SendPhoneVerification	No	AssurePhone Option Only. Send a value of True to have a verification code sent as a text message / voice call to the phone number provided in the PhoneNumber field.
ForceVerificationByCall	No	AssurePhone Option Only. Send a value of True to force Phone Verification to be sent by voice call, even if the provided phone number is found to be a mobile phone.
EmailAddress	No	
IpAddress	No	IPv4 address. Format: ###.###.###.###
SimilarityThreshold	No	AssureWatch Option Only. See AssureWatch for more details.
LookbackDate	No	AssureAMS Option Only. See AssureAMS for more details.

Test Data

Use any name and address of your choosing in conjunction with any of the below SSNs to receive the canned/dummy response. If Solution Engine Workflow has been enabled of your account, the dummy response will also include a workflow outcome. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

SSN	Workflow Code	Workflow Message
222222222	P	Pass
333333333	F	Fail
444444444	R	Needs Further Review

AssureID Request JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "ssn": "222222222",
    "firstName": "John",
    "middleName": null,
    "lastName": "Test",
    "generation": null,
    "street": "123 Main St",
    "city": "Louisville",
    "state": "KY",
    "zipCode": "40223",
    "dateOfBirth": "1950-01-31",
    "phoneNumber": "5554443333",
    "ipAddress": "127.0.0.1",
    "emailAddress": "johnntest@example.com",
    "similarityThreshold": null
  }
}
```

AssureID Response JSON Example

```
{
  "meta": {
    "transactionId": 134890,
    "transactionDate": "2023-12-05T22:53:17.823",
    "productName": "AssureID",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0.093",
    "totalDuration": "0.2491494"
  },
  "data": {
    "workflowOutcome": {
      "code": "P",
      "description": "Pass"
    },
    "assureId": {
      "primaryResult": {
        "code": "00"
      },
      "addressVerificationResult": {
        "code": "Y",

```

al."

```

        "description": "Supplied full name matches supplied address.  Address confirmed residenti
    },
    "addressTypeResult": {
        "code": "S",
        "description": "Submitted address is residential address."
    },
    "addressHighRiskResult": {
        "code": "N",
        "description": "No address high risk information found for submitted address."
    },
    "phoneVerificationResult": {
        "code": "M",
        "description": "Phone number was not entered on search request."
    },
    "phoneHighRiskResult": {
        "code": "N",
        "description": "No phone high risk information found."
    },
    "changeOfAddressResult": {
        "code": "N",
        "description": "No change of address information was found."
    },
    "driverLicenseResult": {
        "code": "M",
        "description": "DL number not submitted."
    },
    "socialSecurityNumberResult": {
        "code": "YA",
        "description": "Match to full name and address using Social Security Number."
    },
    "dateOfBirthResult": {
        "code": "6",
        "description": "DOB not on input."
    },
    "emailVerificationResult": {
        "code": "T1",
        "description": "Match to Name associated with Email in repository"
    },
    "emailValidationResult": {
        "code": "V",
        "description": "Possible valid email address"
    },
    "emailReasonResult": {
        "code": "N",
        "description": "No Failure Identified - the email had proper syntax and domain"
    },
    "emailRepositoryResult": {
        "code": "Y",
        "description": "Email address found in repository"
    },
    "minorResult": {
        "code": "N",
        "description": "The matched consumer is an adult."
    },
    "reportedFraudResult": {
        "code": "N",
        "description": "No fraud has been reported for the matched consumer"
    },
    "standardizedAddress": {
        "firstName": "JOHN",
        "middleInitial": "",
        "lastName": "TEST",
        "street": "123 MAIN ST",
        "city": "LOUISVILLE",
        "state": "KY",
        "zipCode": "40299",
        "zipPlusFour": "4667",
        "county": "Jefferson"
    }

```

```

},
"consumerIdDetail": {
  "areaCode": "",
  "phone": "",
  "reportedDate": {
    "year": "2012",
    "month": "11",
    "day": "16"
  },
  "lastTouchedDate": {
    "year": "2015",
    "month": "09",
    "day": "01"
  },
  "firstName": "JOHN",
  "middleInitial": "",
  "lastName": "TEST",
  "street": "123 MAIN ST",
  "city": "LOUISVILLE",
  "state": "KY",
  "zipCode": "40299",
  "zipPlusFour": "4667",
  "county": "Jefferson"
},
"residentialAddressDetails": [
  {
    "spouseName": "",
    "houseMembers": [],
    "residenceLength": "0047",
    "aliasName": "",
    "areaCode": "502",
    "phone": "0000000",
    "lastTouchedDate": {
      "year": "2015",
      "month": "11",
      "day": "02"
    },
    "firstName": "JOHN",
    "middleInitial": "R",
    "lastName": "TEST",
    "street": "123 MAIN ST",
    "city": "LOUISVILLE",
    "state": "KY",
    "zipCode": "40299",
    "zipPlusFour": "4667",
    "county": "Jefferson"
  },
  {
    "spouseName": "",
    "houseMembers": [],
    "residenceLength": "",
    "aliasName": "",
    "areaCode": "",
    "phone": "",
    "lastTouchedDate": {
      "year": "2015",
      "month": "09",
      "day": "01"
    },
    "firstName": "JOHN",
    "middleInitial": "",
    "lastName": "SMITH",
    "street": "123 MAIN ST",
    "city": "LOUISVILLE",
    "state": "KY",
    "zipCode": "40299",
    "zipPlusFour": "4667",
    "county": "Jefferson"
  }
]
}

```

```

],
"ssnValidation": {
  "deceasedResult": {
    "code": "N",
    "description": "Not deceased - no matching files found on the death master list."
  },
  "formatResult": {
    "code": "V",
    "description": "Social Security Number is valid per Social Security Administration fil
es."
  },
  "issueResult": {
    "code": "I",
    "description": "Social Security Number has been issued with a beginning and ending dat
e."
  },
  "stateIssued": "KY",
  "issueStartRange": "1966",
  "issueEndRange": "1968"
},
"additionalAddresses": [
  {
    "reportDate": {
      "year": "2013",
      "month": "12",
      "day": "10"
    },
    "updateDate": {
      "year": "2014",
      "month": "06",
      "day": "02"
    },
    "street": "123 MAIN ST",
    "city": "LOUISVILLE",
    "state": "KY",
    "zipCode": "40299",
    "zipPlusFour": "4333",
    "county": "Jefferson"
  },
  {
    "reportDate": {
      "year": "2002",
      "month": "05",
      "day": "11"
    },
    "updateDate": {
      "year": "2011",
      "month": "11",
      "day": "06"
    },
    "street": "456 MAIN ST",
    "city": "LOUISVILLE",
    "state": "KY",
    "zipCode": "40299",
    "zipPlusFour": "4333",
    "county": "Jefferson"
  },
  {
    "reportDate": {
      "year": "1994",
      "month": "09",
      "day": "14"
    },
    "updateDate": {
      "year": "2004",
      "month": "04",
      "day": "13"
    },
    "street": "1111 BROADWAY AVE",

```

```

        "city": "LOUISVILLE",
        "state": "KY",
        "zipCode": "40202",
        "zipPlusFour": "1111",
        "county": "Jefferson"
    },
    {
        "reportDate": {
            "year": "1994",
            "month": "09",
            "day": "14"
        },
        "updateDate": {
            "year": "2004",
            "month": "04",
            "day": "13"
        },
        "street": "2222 WEST ST",
        "city": "LOUISVILLE",
        "state": "KY",
        "zipCode": "40202",
        "zipPlusFour": "1111",
        "county": "Jefferson"
    }
],
"fraudShieldResults": {
    "fraudShield01": {
        "code": "N"
    },
    "fraudShield02": {
        "code": "N"
    },
    "fraudShield03": {
        "code": "N"
    },
    "fraudShield04": {
        "code": "N"
    },
    "fraudShield05": {
        "code": "N"
    },
    "fraudShield06": {
        "code": "N"
    },
    "fraudShield10": {
        "code": "N"
    },
    "fraudShield11": {
        "code": "N"
    },
    "fraudShield13": {
        "code": "N"
    },
    "fraudShield14": {
        "code": "N"
    },
    "fraudShield15": {
        "code": "N"
    },
    "fraudShield16": {
        "code": "N"
    },
    "fraudShield17": {
        "code": "N"
    },
    "fraudShield18": {
        "code": "N"
    },
    "fraudShield21": {

```

```

        "code": "N"
    },
    "fraudShield25": {
        "code": "N"
    },
    "fraudShield26": {
        "code": "N"
    }
},
"sharedApplicationResults": {},
"ipAddressDetail": {
    "country": "USA",
    "msa": "529",
    "latitude": "38.17728",
    "longitude": "-85.69685",
    "cityResult": {
        "code": "1",
        "description": "Match to input"
    },
    "stateResult": {
        "code": "1",
        "description": "Match to input"
    },
    "zipCodeResult": {
        "code": "1",
        "description": "Match to input"
    },
    "countryResult": {
        "code": "1",
        "description": "Match US"
    },
    "city": "LOUISVILLE",
    "state": "KY",
    "zipCode": "40299",
    "county": "Jefferson"
},
},
"kbaQuestions": {
    "questions": [
        {
            "text": "Which one of the following area codes is associated with you?",
            "questionType": 2,
            "answers": [
                {
                    "text": "313/734",
                    "isCorrect": false
                },
                {
                    "text": "517",
                    "isCorrect": false
                },
                {
                    "text": "269",
                    "isCorrect": false
                },
                {
                    "text": "219",
                    "isCorrect": false
                },
                {
                    "text": "283/513",
                    "isCorrect": false
                },
                {
                    "text": "740/220",
                    "isCorrect": false
                },
                {
                    "text": "502",

```

```

        "isCorrect": true
      },
      {
        "text": "937/326",
        "isCorrect": false
      },
      {
        "text": "220/740",
        "isCorrect": false
      },
      {
        "text": "None of the above",
        "isCorrect": false
      }
    ]
  },
  {
    "text": "Which one of the following counties is associated with you?",
    "questionType": 3,
    "answers": [
      {
        "text": "Leelanau",
        "isCorrect": false
      },
      {
        "text": "Marquette",
        "isCorrect": false
      },
      {
        "text": "Jefferson",
        "isCorrect": true
      },
      {
        "text": "Webster",
        "isCorrect": false
      },
      {
        "text": "Saint Joseph",
        "isCorrect": false
      },
      {
        "text": "Columbiana",
        "isCorrect": false
      },
      {
        "text": "Boyle",
        "isCorrect": false
      },
      {
        "text": "Trumbull",
        "isCorrect": false
      },
      {
        "text": "LaGrange",
        "isCorrect": false
      },
      {
        "text": "None of the above",
        "isCorrect": false
      }
    ]
  },
  {
    "text": "Which one of the following zip codes is associated with you?",
    "questionType": 4,
    "answers": [
      {
        "text": "40743",
        "isCorrect": false
      }
    ]
  }
]

```



```

    },
    {
      "text": "40389",
      "isCorrect": false
    },
    {
      "text": "40747",
      "isCorrect": false
    },
    {
      "text": "40594",
      "isCorrect": false
    },
    {
      "text": "40202",
      "isCorrect": true
    },
    {
      "text": "40226",
      "isCorrect": false
    },
    {
      "text": "40879",
      "isCorrect": false
    },
    {
      "text": "40679",
      "isCorrect": false
    },
    {
      "text": "40629",
      "isCorrect": false
    },
    {
      "text": "None of the above",
      "isCorrect": false
    }
  ]
},
{
  "text": "What state was your SSN issued in?",
  "questionType": 5,
  "answers": [
    {
      "text": "Massachusetts",
      "isCorrect": false
    },
    {
      "text": "Kentucky",
      "isCorrect": true
    },
    {
      "text": "Puerto Rico",
      "isCorrect": false
    },
    {
      "text": "Idaho",
      "isCorrect": false
    },
    {
      "text": "Wisconsin",
      "isCorrect": false
    },
    {
      "text": "Ohio",
      "isCorrect": false
    },
    {
      "text": "South Dakota",

```

```

        "isCorrect": false
      },
      {
        "text": "Pennsylvania",
        "isCorrect": false
      },
      {
        "text": "North Carolina",
        "isCorrect": false
      },
      {
        "text": "None of the above",
        "isCorrect": false
      }
    ]
  },
  {
    "text": "Which one of the following adult individuals is most closely associated with
you?",
    "questionType": 6,
    "answers": [
      {
        "text": "Alexa",
        "isCorrect": false
      },
      {
        "text": "Carlos",
        "isCorrect": false
      },
      {
        "text": "Rachel",
        "isCorrect": false
      },
      {
        "text": "Ryan",
        "isCorrect": false
      },
      {
        "text": "Kaitlyn",
        "isCorrect": false
      },
      {
        "text": "Savannah",
        "isCorrect": false
      },
      {
        "text": "Anna",
        "isCorrect": false
      },
      {
        "text": "Michael",
        "isCorrect": false
      },
      {
        "text": "Sydney",
        "isCorrect": false
      },
      {
        "text": "None of the above",
        "isCorrect": true
      }
    ]
  },
  {
    "text": "What was the zip code for the address on MAIN ST?",
    "questionType": 9,
    "answers": [
      {
        "text": "40879",

```

```

        "isCorrect": false
      },
      {
        "text": "40299",
        "isCorrect": true
      },
      {
        "text": "40973",
        "isCorrect": false
      },
      {
        "text": "40629",
        "isCorrect": false
      },
      {
        "text": "40743",
        "isCorrect": false
      },
      {
        "text": "40747",
        "isCorrect": false
      },
      {
        "text": "40594",
        "isCorrect": false
      },
      {
        "text": "40389",
        "isCorrect": false
      },
      {
        "text": "40226",
        "isCorrect": false
      },
      {
        "text": "None of the above",
        "isCorrect": false
      }
    ]
  },
  {
    "text": "What was the house number for the address on MAIN ST?",
    "questionType": 10,
    "answers": [
      {
        "text": "880",
        "isCorrect": false
      },
      {
        "text": "456",
        "isCorrect": true
      },
      {
        "text": "974",
        "isCorrect": false
      },
      {
        "text": "632",
        "isCorrect": false
      },
      {
        "text": "745",
        "isCorrect": false
      },
      {
        "text": "749",
        "isCorrect": false
      }
    ]
  }

```


AssureCorp

The AssureCorp product is used to authenticate a business using the business name, address, and phone number in the United States.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureCorp>

Input Fields

Field	Required	Notes
BusinessName	Yes	
Street	Yes	
City	No	
State	No	2 letter state abbreviation
ZipCode	Yes	5 or 9-digit zip code
PhoneNumber	No	10-digit phone number
SimilarityThreshold	No	AssureWatch Option Only. See AssureWatch for more details.
LookbackDate	No	AssureAMS Option Only. See AssureAMS for more details.

Test Data

Use the below data in your request to receive a canned/dummy response for testing purposes. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Response Type	BusinessName	Street
Match	Widget Company	123 Main St STE 200

AssureCorp Request JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "businessName": "Widget Company",
    "street": "123 Main St STE 200",
    "city": "Louisville",
    "state": "KY",
    "zipcode": "40223",
    "phoneNumber": null,
    "similarityThreshold": 75
  }
}
```

AssureCorp Response JSON Example

```
{
```

```

"meta": {
  "transactionId": 134891,
  "transactionDate": "2023-12-06T05:08:24.76",
  "productName": "AssureCorp",
  "productVersion": "3.0.0",
  "customerReference": "123456789ABC",
  "dataProviderDuration": "5.797",
  "totalDuration": "6.0168661"
},
"data": {
  "workflowOutcome": {
    "code": "R",
    "description": "Needs Further Review"
  },
  "assureCorp": {
    "primaryResult": {
      "code": "00"
    },
    "addressVerificationResult": {
      "code": "A",
      "description": "Necessary elements missing from address. Multiple address matches found but input address is not specific enough to obtain single match."
    },
    "addressTypeResult": {
      "code": "N",
      "description": "No information available for address type for submitted address."
    },
    "addressHighRiskResult": {
      "code": "N",
      "description": "No address high risk information found for submitted address."
    },
    "phoneVerificationResult": {
      "code": "M",
      "description": "Phone number was not entered on search request."
    },
    "phoneHighRiskResult": {
      "code": "N",
      "description": "No phone high risk information found."
    },
    "changeOfAddressResult": {
      "code": "NA"
    },
    "residentialPhoneDetails": [],
    "residentialAddressDetails": []
  }
}
}

```

AssureSSN

The AssureSSN product is used to authenticate a consumer based solely on a 9-digit social security number in the United States.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureSsn>

Input Fields

Field	Required	Notes
SSN	Yes	9-digit social security number
SimilarityThreshold	No	AssureWatch Option Only. See AssureWatch for more details.

Test Data

Use the below data in your request to receive a canned/dummy response for testing purposes. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Response Type	SSN
Match to "John Test"	111111111
Match to "Jane Test"	555555555
Match to "Jim Test"	666666666

AssureSSN Request JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "ssn": "111111111"
  }
}
```

AssureSSN Response JSON Example

```
{
  "meta": {
    "transactionId": 134893,
    "transactionDate": "2023-12-06T05:24:53.997",
    "productName": "AssureSSN",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0.1",
    "totalDuration": "0.2910032"
  },
  "data": {
    "assureSsn": {
      "standardizedAddress": {
        "firstName": "JOHN",
        "middleInitial": "R",
        "lastName": "TEST",
        "street": "123 N MAIN ST ",
        "city": "LOUISVILLE",

```

```

    "state": "KY",
    "zipCode": "40216",
    "zipPlusFour": "2906"
  },
  "ssnFinderDetails": [
    {
      "areaCode": "502",
      "phone": "5551111",
      "dateOfBirth": {
        "year": "1987",
        "month": "11",
        "day": "10"
      },
      "reportedDate": {
        "year": "2006",
        "month": "09"
      },
      "lastTouchedDate": {
        "year": "2011",
        "month": "01"
      },
      "firstName": "JOHN",
      "middleInitial": "R",
      "lastName": "TEST",
      "street": "123 N MAIN ST ",
      "city": "LOUISVILLE",
      "state": "KY",
      "zipCode": "40216",
      "zipPlusFour": "2906"
    }
  ],
  "ssnValidation": {
    "deceasedResult": {
      "code": "N",
      "description": "Not deceased - no matching files found on the death master list."
    },
    "stateIssued": "KY",
    "issueStartRange": "1987",
    "issueEndRange": "1989"
  },
  "additionalAddresses": [
    {
      "reportDate": {
        "year": "2008",
        "month": "10"
      },
      "updateDate": {
        "year": "2011",
        "month": "01"
      },
      "street": "123 EAST THIRD ST ",
      "city": "LOUISVILLE",
      "state": "KY",
      "zipCode": "40216",
      "zipPlusFour": "2906"
    },
    {
      "reportDate": {
        "year": "2007",
        "month": "09"
      },
      "updateDate": {
        "year": "2008",
        "month": "03"
      },
      "street": "123 WEST FIFTH ST APT 18",
      "city": "LOUISVILLE",
      "state": "KY",
      "zipCode": "40223",

```



```

    "zipPlusFour": "5856"
  }
}
}
}

```

AssureCanada

The AssureCanada product is used to authenticate a consumer based on name, address, date of birth, and optionally social insurance number, phone number, and email address in Canada.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureCanada>

Input Fields

Field	Required	Notes
FirstName	Yes	Letters, hyphens, spaces, periods, and apostrophes
MiddleName	No	
LastName	Yes	Letters, hyphens, slashes, spaces, and apostrophes
Generation	No	SR, JR, I, II, III, IV, V, VI, VII, VIII, or IX
Sin	No	9-digit social insurance number
Street	Yes	Letters, numbers, periods, commas, number sign (#), hyphens, slashes, and spaces
City	Yes	
Province	Yes	2-letter province abbreviation
PostalCode	Yes	6-character postal code
DateOfBirth	Yes	Format: yyyy-MM-dd
PhoneNumber	No	10-digit phone number
EmailAddress	No	
SimilarityThreshold	No	AssureWatch Option Only. See AssureWatch for more details.

AssureCanada Request JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "sin": "222222222",
    "firstName": "John",
    "middleName": null,
    "lastName": "Test",
    "generation": null,
    "street": "123 Main St",
    "city": "Toronto",
    "province": "ON",
    "postalCode": "A1B2C3",
    "dateOfBirth": "1950-01-31",
    "phoneNumber": "5554443333",
    "emailAddress": "john@test@example.com",
    "similarityThreshold": null
  }
}
```

AssureCanada Response JSON Example

```
{
  "meta": {
    "transactionId": 134990,
    "transactionDate": "2024-03-28T14:15:02.51",
    "productName": "AssureCanada",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC ",
    "dataProviderDuration": "1.068",
    "totalDuration": "2.2645189"
  },
  "data": {
    "workflowOutcome": {
      "code": "R",
      "description": "Needs Further Review"
    },
    "assureCanada": {
      "creditFileResults": [
        {
          "code": "CFI_CFA_04",
          "value": "Y",
          "description": "Age of credit file is three years or greater"
        },
        {
          "code": "CFI_SIN_MM",
          "value": "Y",
          "description": "Social Insurance Number mismatch"
        },
        {
          "code": "CFI_CFL_02",
          "value": "Y",
          "description": "Credit file located - Adequate match"
        },
        {
          "code": "CFI_NPR_00",
          "value": "Y",
          "description": "No phone record located or poor match score"
        },
        {
          "code": "CFI_DOB_21",
          "value": "Y",
          "description": "Calculated age on the credit file is 21 or greater"
        },
        {
          "code": "CFI_DOB_18",
          "value": "Y",
          "description": "Calculated age on the credit file is 18 or greater"
        },
        {
          "code": "CFI_DOB_19",
          "value": "Y",
          "description": "Calculated age on the credit file is 19 or greater"
        },
        {
          "code": "CFI_CFH_02",
          "value": "Y",
          "description": "Credit file history is equal to or greater than six months"
        },
        {
          "code": "CFI_SIN_NV",
          "value": "Y",
          "description": "Social Insurance Number is not valid"
        },
        {
          "code": "CFI_CFA_02",
          "value": "Y",
          "description": "Age of credit file is six months or greater"
        }
      ]
    }
  }
}
```

```

{
  "code": "CFI_NCA_30",
  "value": "Y",
  "description": "Current address is new within 30 days on the credit file"
},
{
  "code": "CFI_DOB_01",
  "value": "Y",
  "description": "Request age matches the calculated age on the credit file"
}
],
"nameResults": [
  {
    "code": "NA_OV999",
    "value": "1",
    "description": "Is full name affiliated with any other PII element?"
  },
  {
    "code": "NA_FN999",
    "value": "1",
    "description": "Is full name affiliated with date of birth?"
  },
  {
    "code": "NA_GV999",
    "value": "0",
    "description": "Is full name affiliated with government ID?"
  },
  {
    "code": "NA_AF999",
    "value": "1",
    "description": "Is full name affiliated with address?"
  },
  {
    "code": "NA_LN999",
    "value": "1",
    "description": "Is family name affiliated with date of birth?"
  }
],
"fraudInsights": [
  {
    "code": "FVI_OV_S001",
    "value": "L",
    "description": "Fraud risk level"
  },
  {
    "code": "FVI_FV_S001",
    "value": "N",
    "description": "Is fraud victim warning present and information blocked due to
identity theft?"
  },
  {
    "code": "FVI_FV_S005",
    "value": "N",
    "description": "Is fraud victim alert present?"
  }
],
"dobResults": [
  {
    "code": "DOBA_OV999",
    "value": "1",
    "description": "Is date of birth affiliated with any other PII element?"
  },
  {
    "code": "DOBA_AA999",
    "value": "1",
    "description": "Is date of birth affiliated with address?"
  },
  {
    "code": "DOBA_FN999",

```

```

        "value": "1",
        "description": "Is date of birth affiliated with full name?"
    },
    {
        "code": "DOBA_GI999",
        "value": "0",
        "description": "Is date of birth affiliated with government ID?"
    }
],
"deceasedResults": [
    {
        "code": "DE_IM_S001",
        "value": "N",
        "description": "Is the individual deceased?"
    }
]
}
}
}
}
}

```

AssurePhone

The AssurePhone product returns carrier and phone type information about a provided US phone number. This product will also generate and send a verification code to the provided phone number via text message for mobile numbers and via text-to-speech for landline or VOIP numbers. This product can also be added as an option to the AssureID product.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssurePhone>

Input Fields

Field	Required	Notes
Phone	Yes	10-digit US phone number
SendPhoneVerification	No	Send a value of True to have a verification code sent as a text message / voice call to the phone number.
ForceVerificationByCall	No	Send a value of True to force Phone Verification to be sent by voice call, even if the provided phone number is found to be a mobile phone.

Test Data

Use the below data in your request to receive a canned/dummy response for testing purposes. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Response Type	Phone
Match to Landline	5552222222
Match to Mobile	5551111111

AssurePhone Request JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "phone": "5551111111"
  }
}
```

AssurePhone Response JSON Example

```
{
  "meta": {
    "transactionId": 78623882,
    "transactionDate": "2023-12-06T05:42:29.42",
    "productName": "AssurePhone",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.2088542"
  },
  "data": {
```

```

"assurePhone": {
  "phoneType": {
    "code": "M",
    "description": "Match to a mobile phone number."
  },
  "callerType": {
    "code": "C",
    "description": "Match to a consumer phone number."
  },
  "deliveryType": {
    "code": "N",
    "description": "Verification code not sent"
  },
  "phoneNumber": "+15551111111",
  "callerName": "JOHN TEST",
  "carrierName": "Fake Mobile Carrier"
}
}
}

```

AssureWatch

The AssureWatch product returns identities located on government watchlists using as little information as the name of a person or entity. This product can be added as an option to other products offered by EVS.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureWatch>

Input Fields

Field	Individual Required	Entity Required	Notes
EntityName	N/A	Yes	Only used when submitting an entity
FirstName	Yes	N/A	Only used when submitting an individual
MiddleName	No	N/A	Only used when submitting an individual
LastName	Yes	N/A	Only used when submitting an individual
Street	No	No	
City	No	No	
State	No	No	2 character state code
Province	No	No	2 character province code
ZipCode	No	No	
CountryCode	No	No	2 character country code
DateOfBirth	No	No	Only used when submitting an individual. Format: yyyy-MM-dd
IdNumber	No	No	Identification such as SSN or EIN
SimilarityThreshold	No	No	Value between 50 - 100 representing how close name must match for a similarly search. Defaults to 75 when not sent.
LookbackDate	No	No	AssureAMS Option Only. See AssureAMS for more details.

Test Data

Use the below data in your request to receive a canned/dummy response for testing purposes. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Response Type	FirstName	LastName	EntityName
Exact Match	John	Test	
Similar Match	Janet	Test	
Exact Match	Jim	Test	
Exact Match			Widget Company

AssureWatch Request JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "idNumber": "222222222",
    "firstName": "John",
    "middleName": null,
    "lastName": "Test",
    "street": "123 Main St",
    "city": "Louisville",
    "state": "KY",
    "zipCode": "40223",
    "countryCode": "US",
    "dateOfBirth": "1950-01-31",
    "phoneNumber": "5554443333",
    "similarityThreshold": 75
  }
}
```

AssureWatch Response JSON Example

```
{
  "meta": {
    "transactionId": 134896,
    "transactionDate": "2023-12-06T05:56:51.957",
    "productName": "AssureWatch",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.1139861"
  },
  "data": {
    "workflowOutcome": {
      "code": "",
      "description": "Workflow Disabled"
    },
    "assureWatch": {
      "ofacWatchlist": {
        "ofacRecords": [
          {
            "ofacFieldMatchResults": {
              "nameMatchResult": {
                "code": "E",
                "description": "Exact match"
              },
              "addressMatchResult": {
                "code": "NS",
                "description": "Not submitted"
              },
              "idMatchResult": {
                "code": "NS",
                "description": "Not submitted"
              },
              "dobMatchResult": {
                "code": "NS",
                "description": "Not submitted"
              }
            },
            "ofacAddresses": [
              {

```

```

        "street": "4321 Straight St.",
        "city": "Denver",
        "stateOrProvince": "",
        "zipCode": "87654",
        "country": ""
    }
],
"ofacAliases": [
    {
        "firstName": "Johnny",
        "lastName": "Test",
        "category": "weak",
        "type": "a.k.a"
    }
],
"ofacCitizenships": [
    {
        "country": "United States",
        "mainEntry": true
    }
],
"ofacDateOfBirths": [
    {
        "dateOfBirth": "01 Jan 1975",
        "mainEntry": true
    }
],
"name": "",
"title": "",
"firstName": "John",
"lastName": "Test",
"classification": "Individual",
"remarks": ""
},
{
    "ofacFieldMatchResults": {
        "nameMatchResult": {
            "code": "E",
            "description": "Exact match"
        },
        "addressMatchResult": {
            "code": "NS",
            "description": "Not submitted"
        },
        "idMatchResult": {
            "code": "NS",
            "description": "Not submitted"
        },
        "dobMatchResult": {
            "code": "NS",
            "description": "Not submitted"
        }
    },
    "ofacAddresses": [
        {
            "street": "101 Rodeo Rd.",
            "city": "San Diego",
            "stateOrProvince": "",
            "zipCode": "98765",
            "country": ""
        }
    ],
    "ofacAliases": [
        {
            "firstName": "John",
            "lastName": "Test",
            "category": "Strong",
            "type": "f.k.a"
        }
    ]
}

```

```

    ],
    "ofacCitizenships": [
      {
        "country": "United States",
        "mainEntry": true
      }
    ],
    "ofacDateOfBirths": [
      {
        "dateOfBirth": "12 Mar 1971",
        "mainEntry": true
      }
    ],
    "name": "",
    "title": "",
    "firstName": "John",
    "lastName": "Test",
    "classification": "Individual",
    "remarks": ""
  }
]
},
"pep": {
  "pepMatchResult": {
    "code": "M",
    "description": "Matching profiles were found for the entered data."
  },
  "pepProfiles": [
    {
      "nameMatchResult": {
        "code": "E",
        "description": "Exact match"
      },
      "addressMatchResult": {
        "code": "NS",
        "description": "Not submitted"
      },
      "dobMatchResult": {
        "code": "NS",
        "description": "Not submitted"
      },
      "matchScore": 90,
      "profileName": "John Test",
      "alertNotesSummary": "Charged with Class A Misdemeanor of Trespass in the Second Degree e, Class A Misdemeanor of Having a Possession Reportedly Belonging To Someone Else, SRPD, DOI: 10-12-2015.",
      "gender": "Male",
      "positions": [
        {
          "name": "Board of Directors",
          "from": "2021",
          "to": ""
        }
      ],
      "pepRisks": [
        {
          "typeCode": "LEG",
          "typeDescription": "Senior legislative branch officials",
          "seniorityLevel": 1
        }
      ],
      "relationships": [
        {
          "type": "MAR",
          "direction": "WIFE",
          "name": "Janet Test"
        }
      ]
    }
  ]
}

```

```
"addresses": [
    {
        "rawFormat": "123 MAIN ST, Louisville, Kentucky, 40299, USA",
        "addressLine1": "123 MAIN ST",
        "addressLine2": "",
        "city": "Louisville",
        "state": "Kentucky",
        "province": "KY",
        "postalCode": "40299",
        "country": "USA",
        "isoCountry": "USA"
    }
],
"aliases": [
    {
        "name": "Jonny Test",
        "type": "FKA"
    }
],
"dateOfBirths": [
    {
        "year": 1972,
        "month": 7,
        "day": 13,
        "approximate": false
    }
],
"attributes": [
    {
        "type": "WGT",
        "value": "130 lbs."
    },
    {
        "type": "SEX",
        "value": "Male"
    }
]
}
}
```

AssureFinCEN

The AssureFinCEN product returns identities located on the Financial Crimes Enforcement Network watchlist uploaded into BlueAssure.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureFincen>

Input Fields

Field	Individual Required	Entity Required	Notes
EntityName	N/A	Yes	Only used when submitting an entity
FirstName	Yes	N/A	Only used when submitting an individual
MiddleName	No	N/A	Only used when submitting an individual
LastName	Yes	N/A	Only used when submitting an individual
Generation	No	N/A	SR, JR, I, II, III
Street	No	No	
City	No	No	
State	No	No	2 character state code
ZipCode	No	No	
CountryCode	No	No	2 character country code
SimilarityThreshold	No	No	Value between 50 - 100 representing how close name must match for a similarly search. Defaults to 75 when not sent.
ListId	No	No	The ID of the uploaded FinCEN list. This ID can be found by looking under FinCEN Management in BlueAssure. If no list ID is provided, the most current list will be used automatically.

Test Data

Use the below data in your request to receive a canned/dummy response for testing purposes. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Response Type	FirstName	LastName	EntityName
Exact Match	John	Test	
Exact Match	Janet	Test	
Exact Match	Jim	Test	
Exact Match			Widget Company

AssureFinCEN Request JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "listId": 1234,
    "firstName": "John",
    "middleName": null,
    "lastName": "Test",
    "generation": null,
    "street": "123 Main St",
    "city": "Louisville",
    "state": "KY",
    "zipCode": "40223",
    "similarityThreshold": null
  }
}
```

AssureFinCEN Response JSON Example

```
{
  "meta": {
    "transactionId": 134899,
    "transactionDate": "2023-12-06T06:10:45.68",
    "productName": "AssureFinCEN",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.1390023"
  },
  "data": {
    "workflowOutcome": {
      "code": "R",
      "description": "Needs Further Review"
    },
    "assureFincen": {
      "fincenList": {
        "listId": 1,
        "listName": "Test List",
        "transmissionDate": "2023-05-16",
        "expirationDate": "2030-05-30"
      },
      "fincenRecords": [
        {
          "fincenMatchResult": {
            "code": "F",
            "description": "Match to full name"
          },
          "trackingNumber": "0000000000",
          "businessName": "",
          "doingBusinessAsName": "",
          "incorporated": "",
          "firstName": "JOHN",
          "middleName": "",
          "lastName": "TEST",
          "suffix": "",
          "isIndividual": true,
          "fincenAddresses": [
            {
              "street": "123 MAIN ST",
              "city": "LOUISVILLE",
              "zipCode": "40299",
              "country": "USA"
            }
          ]
        }
      ]
    }
  }
}
```


AssureCard

AssureCard authenticates government issued IDs using images taken of the front and back of the ID. In addition, Card can compare the facial similarity of the image on the ID to a submitted portrait image. A transaction can take anywhere from 10 seconds to a minute to complete at which point the information will be delivered to a callback web hook URL defined by you.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureCard>

Input Fields

Field	Required Direct Upload	Required Mobile Capture	Notes
ScanMode	Yes	Yes	DirectImageUpload or CaptureViaMobile or DeferredRequestLink
DocumentType	Yes	Yes	DriversLicense or PassportBook or PassportCard
FrontImage	Yes	N/A	Base64 encoded image data in JPG or PNG format
BackImage	Yes*	N/A	Base64 encoded image data in JPG or PNG format
PortraitImage	No	N/A	Base64 encoded image data in JPG or PNG format
RequireConsumerPortrait	N/A	Yes	Mobile Capture Only. Send a value of True to require the ID holder to send a self-portrait in addition to the front and back ID images.
Ssn	No	No	AssureID Option Only. 4 or 9-digit social security number
PhoneNumber	No	Yes	AssureID & AssurePhone Options Only. 10-digit phone number
SendPhoneVerification	No	No	AssurePhone Option Only. Send a value of True to have a verification code sent as a text message / voice call to the phone number provided in the PhoneNumber field.
ForceVerificationByCall	No	No	AssurePhone Option Only. Send a value of True to force Phone Verification to be sent by voice call, even if the provided phone number is found to be a mobile phone.
EmailAddress	No	No	AssureID Option Only
IpAddress	No	No	AssureID Option Only. IPv4 address. Format: ###.###.###.###
SimilarityThreshold	No	No	AssureWatch Option Only. Value between 50 - 100 representing how close name must match for a similarity search. Defaults to 75 when not sent.
LookbackDate	No	No	AssureAMS Option Only. See AssureAMS for more details.

*Back Image is not required for passport books

Upload Images Directly

Images can be uploaded directly to BlueAssure when using the **ScanMode** value **DirectImageUpload**. In this case both **FrontImage** and **BackImage** are required fields (unless the document type is a **PassportBook**) and should include the base 64 encoded data for each image. For more information on image size and format recommendations see *Image Quality & Size Recommendations* below.

Capture Images From Mobile Phone

Images can also be uploaded by the ID holder using the **ScanMode** value **CaptureViaMobile**. In this case a mobile phone number of the ID holder must be provided in the **PhoneNumber** field. A text message will be sent to the mobile number with a link that will allow the ID holder to take images of the front and back of the ID using their phone. The link sent in the text message is only valid for one hour.

Capture Images From Web Portal

Clients can request an image upload link that can be embedded in the client's application or website. In this case, the two requirements are that **ScanMode** value must be **DeferredRequestLink** and the appropriate **DocumentType** be specified. This will return the image capturing link in the JSON response rather than sending it to the end consumer via text. This allows you to embed the image capture portal in your website or application. The link sent in the response is only valid for one hour.

Receiving Submitted Images

If you wish to receive the images submitted using the **CaptureViaMobile** or **DeferredRequestLink** modes, you can enable an account option to do so. Go to **My Account** → **Options**, look in the **Product Options** section, and the option labeled “Enable delivery of consumer-uploaded images to product webhook” should be checked. If it is not, have an account admin enable that option for you by clicking the Edit button at the bottom of the page, selecting that checkbox, and then clicking Save.

With this option enabled, when images are submitted by the end consumer they will be sent to the webhook you have configured (see below under **Asynchronous Request/Response Process**) as base 64-encoded strings in JSON properties (example below).

Image Quality & Size Recommendations

The best way to ensure accurate authentication results is to submit good images that our systems can successfully process.

The minimum image resolution is 800 x 600px, in JPG or PNG file format, with a compression rate of less than 15%. We also recommend keeping file size under 4 MB total and no larger than 1500px in either dimension. Larger files may result in longer processing time or errors.

Asynchronous Request/Response Process

Due to the time it takes to process the images, this product does not return the results to the initial request made to BlueAssure. Instead, you can define a callback URL (webhook) that BlueAssure will send the results to once processing has finished.

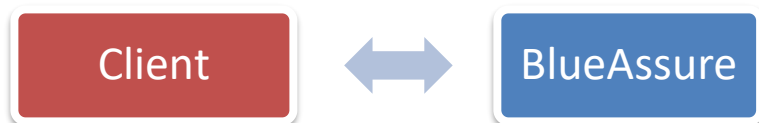
To setup the callback URL and credentials, go to **My Account** → **Products** and click the button labeled **Edit Webhook** under the **AssureCard** product. The URL must use HTTPS with a valid certificate and must

be a URL that BlueAssure can reach over the internet. If a username and password are entered, all requests to the callback URL will include these credentials via Basic Authentication. It's recommended you password protect the callback URL to restrict access.

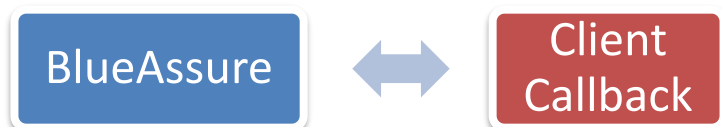
BlueAssure will send a POST request to the callback URL when the transaction completes. The callback URL must return a 2XX response code within 5 seconds indicating the transaction response was successfully received. If something other than a 2XX response is received or if it takes more than 5 seconds for the callback to return, the request will be delayed and then be resent after a short period. If requests continue to fail, then subsequent attempts will be made further in the future adding more time between each attempt. If the request could not be completed after 10 attempts, no further attempts will be made to the callback URL for that transaction. The transaction can still be viewed by logging into the BlueAssure management platform.

Linking the Initial Request and Final Callback

When **ScanMode** is set to **DirectImageUpload**, the same transaction ID will be returned in the initial request and in the request BlueAssure sends to the callback URL. When **ScanMode** is set to **CaptureViaMobile**, you must submit a unique **CustomerReference** value of your own in the initial request. BlueAssure will include your customer reference value submitted in your initial request in the final callback.



1. Client makes initial request to BlueAssure web service passing the images and other input fields listed above.
2. BlueAssure platform queues the work and returns an initial response indicating the request was received or an error indicating why the initial request failed.



1. BlueAssure finishes processing the images and completes the transaction.
2. BlueAssure does an HTTP POST to the client's callback URL sending the results of the transaction.
3. The client callback URL returns a 200 response code within 5 seconds indicating the response has been successfully received.

Test Data

Use any name and address of your choosing in conjunction with any of the below images to receive the canned/dummy response. A zip archive containing all three test images can be found under [Developer Resources](#) on the BlueAssure Platform management site. If Solution Engine Workflow has been enabled of your account, the dummy response will also include a workflow outcome. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Image	Workflow Code	Workflow Message
Green Smile	P	Pass
Red Smile	F	Fail
Yellow Smile	R	Needs Further Review

AssureCard Initial Request (Image Upload) JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "frontImage": "Base64 encoded image of document front",
    "backImage": "Base64 encoded image of document rear",
    "portraitImage": "Base64 encoded image of consumer's face",
    "scanMode": "DirectImageUpload",
    "documentType": "DriversLicense",
    "ssn": null,
    "phoneNumber": "",
    "sendPhoneVerification": null,
    "forceVerificationByCall": null,
    "emailAddress": null,
    "ipAddress": null,
    "similarityThreshold": null
  }
}
```

AssureCard Initial Request (Web to Mobile) JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "scanMode": "CaptureViaMobile",
    "requireConsumerPortrait": true,
    "documentType": "DriversLicense",
    "ssn": null,
    "phoneNumber": "5555555555",
    "emailAddress": null,
    "ipAddress": null,
    "similarityThreshold": null
  }
}
```

AssureCard Initial Request (Web Portal) JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "scanMode": "DeferredRequestLink",
    "requireConsumerPortrait": true,
    "documentType": "DriversLicense",
    "ssn": null,
    "emailAddress": null,
    "ipAddress": null,
    "similarityThreshold": null
  }
}
```

AssureCard Initial Response (Image Upload) JSON Example

```
{
  "meta": {
    "transactionDate": "2023-12-06T06:45:26.2314228Z",
    "productName": "AssureCard",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.116133"
  }
}
```

AssureCard Initial Response (Web to Mobile) JSON Example

```
{
  "meta": {
    "transactionDate": "2023-12-06T06:45:26.2314228Z",
    "productName": "AssureCard",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.116133"
  }
}
```

AssureCard Initial Response (Web Portal) JSON Example

```
{
  "meta": {
    "transactionDate": "2023-12-06T06:45:26.2314228Z",
    "productName": "AssureCard",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.116133"
  },
  "data": {
    "deferredRequestLink": "https://blueassure.evssolutions.com/CDR/02bf2283-632f-49d2-93a9-bf5780c7bf9a"
  }
}
```

AssureCard Webhook Uploaded Images JSON Example

```
{
  "meta": {
    "transactionDate": "2023-12-06T06:45:26.2314228Z",
    "productName": "AssureCard",

```

```

    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.116133"
  },
  "data": {
    "frontImage": "Base64 encoded image",
    "backImage": "Base64 encoded image",
    "portraitImage": "Base64 encoded image"
  }
}

```

AssureCard WebHook Callback JSON Example

```

{
  "meta": {
    "transactionId": 134857,
    "transactionDate": "2023-11-30T21:36:33.707",
    "productName": "AssureCard",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.78"
  },
  "data": {
    "workflowOutcome": {
      "code": "P",
      "description": "Pass"
    },
    "assureCard": {
      "validationResult": {
        "code": "0",
        "description": "The document has passed the check."
      },
      "imageParsingResult": {
        "code": "B",
        "description": "Both sides of the document were successfully parsed."
      },
      "totalConfidence": 100,
      "documentInformation": {
        "licenseNumberConfidence": 100,
        "licenseNumber": "P12345678",
        "documentType": "DL",
        "issueDate": "2010-01-31",
        "expirationDate": "2100-01-31",
        "documentClass": "D",
        "template": "US_KY3"
      },
      "documentName": {
        "nameConfidence": 100,
        "fullName": "JOHNDOETEST",
        "firstName": "JOHN",
        "privateName": "JOHNDOE",
        "middleName": "DOE",
        "familyName": "TEST"
      },
      "documentAddress": {
        "addressConfidence": 100,
        "address": "123MAINSTREET",
        "city": "FRANKFORT",
        "state": "KY",
        "zipCode": "40601-0000",
        "country": "UNITEDSTATES"
      },
      "individualCharacteristics": {
        "calculatedAge": 33,
        "gender": "Male",
        "eyeColor": "Blue",
        "hairColor": ""
      }
    }
  }
}

```

```

        "height": "072IN",
        "weight": ""
    },
    },
    "assureId": {
        "primaryResult": {
            "code": "00"
        },
        "addressVerificationResult": {
            "code": "Y",
            "description": "Supplied full name matches supplied address. Address confirmed residenti
al."
        },
        "addressTypeResult": {
            "code": "S",
            "description": "Submitted address is residential address."
        },
        "addressHighRiskResult": {
            "code": "N",
            "description": "No address high risk information found for submitted address."
        },
        "phoneVerificationResult": {
            "code": "M",
            "description": "Phone number was not entered on search request."
        },
        "phoneHighRiskResult": {
            "code": "N",
            "description": "No phone high risk information found."
        },
        "changeOfAddressResult": {
            "code": "N",
            "description": "No change of address information was found."
        },
        "driverLicenseResult": {
            "code": "M",
            "description": "DL number not submitted."
        },
        "socialSecurityNumberResult": {
            "code": "YA",
            "description": "Match to full name and address using Social Security Number."
        },
        "dateOfBirthResult": {
            "code": "6",
            "description": "DOB not on input."
        },
        "emailVerificationResult": {
            "code": "T1",
            "description": "Match to Name associated with Email in repository"
        },
        "emailValidationResult": {
            "code": "V",
            "description": "Possible valid email address"
        },
        "emailReasonResult": {
            "code": "N",
            "description": "No Failure Identified - the email had proper syntax and domain"
        },
        "emailRepositoryResult": {
            "code": "Y",
            "description": "Email address found in repository"
        },
        "minorResult": {
            "code": "N",
            "description": "The matched consumer is an adult."
        },
        "reportedFraudResult": {
            "code": "N",
            "description": "No fraud has been reported for the matched consumer"
        },
    },

```

```

"standardizedAddress": {
  "firstName": "JOHN",
  "middleInitial": "",
  "lastName": "TEST",
  "street": "123 MAIN ST",
  "city": "LOUISVILLE",
  "state": "KY",
  "zipCode": "40299",
  "zipPlusFour": "4667",
  "county": "Jefferson"
},
"consumerIdDetail": {
  "areaCode": "",
  "phone": "",
  "reportedDate": {
    "year": "2012",
    "month": "11",
    "day": "16"
  },
  "lastTouchedDate": {
    "year": "2015",
    "month": "09",
    "day": "01"
  },
  "firstName": "JOHN",
  "middleInitial": "",
  "lastName": "TEST",
  "street": "123 MAIN ST",
  "city": "LOUISVILLE",
  "state": "KY",
  "zipCode": "40299",
  "zipPlusFour": "4667",
  "county": "Jefferson"
},
"residentialAddressDetails": [
  {
    "spouseName": "",
    "houseMembers": [],
    "residenceLength": "0047",
    "aliasName": "",
    "areaCode": "502",
    "phone": "0000000",
    "lastTouchedDate": {
      "year": "2015",
      "month": "11",
      "day": "02"
    },
    "firstName": "JOHN",
    "middleInitial": "R",
    "lastName": "TEST",
    "street": "123 MAIN ST",
    "city": "LOUISVILLE",
    "state": "KY",
    "zipCode": "40299",
    "zipPlusFour": "4667",
    "county": "Jefferson"
  },
  {
    "spouseName": "",
    "houseMembers": [],
    "residenceLength": "",
    "aliasName": "",
    "areaCode": "",
    "phone": "",
    "lastTouchedDate": {
      "year": "2015",
      "month": "09",
      "day": "01"
    }
  }
],

```

```

        "firstName": "JOHN",
        "middleInitial": "",
        "lastName": "SMITH",
        "street": "123 MAIN ST",
        "city": "LOUISVILLE",
        "state": "KY",
        "zipCode": "40299",
        "zipPlusFour": "4667",
        "county": "Jefferson"
    },
    ],
    "ssnValidation": {
        "deceasedResult": {
            "code": "N",
            "description": "Not deceased - no matching files found on the death master list."
        },
        "formatResult": {
            "code": "V",
            "description": "Social Security Number is valid per Social Security Administration fil
es."
        },
        "issueResult": {
            "code": "I",
            "description": "Social Security Number has been issued with a beginning and ending dat
e."
        },
        "stateIssued": "KY",
        "issueStartRange": "1966",
        "issueEndRange": "1968"
    },
    "additionalAddresses": [
        {
            "reportDate": {
                "year": "2013",
                "month": "12",
                "day": "10"
            },
            "updateDate": {
                "year": "2014",
                "month": "06",
                "day": "02"
            },
            "street": "123 MAIN ST",
            "city": "LOUISVILLE",
            "state": "KY",
            "zipCode": "40299",
            "zipPlusFour": "4333",
            "county": "Jefferson"
        },
        {
            "reportDate": {
                "year": "2002",
                "month": "05",
                "day": "11"
            },
            "updateDate": {
                "year": "2011",
                "month": "11",
                "day": "06"
            },
            "street": "456 MAIN ST",
            "city": "LOUISVILLE",
            "state": "KY",
            "zipCode": "40299",
            "zipPlusFour": "4333",
            "county": "Jefferson"
        },
        {
            "reportDate": {

```



```

        "year": "1994",
        "month": "09",
        "day": "14"
    },
    "updateDate": {
        "year": "2004",
        "month": "04",
        "day": "13"
    },
    "street": "1111 BROADWAY AVE",
    "city": "LOUISVILLE",
    "state": "KY",
    "zipCode": "40202",
    "zipPlusFour": "1111",
    "county": "Jefferson"
},
{
    "reportDate": {
        "year": "1994",
        "month": "09",
        "day": "14"
    },
    "updateDate": {
        "year": "2004",
        "month": "04",
        "day": "13"
    },
    "street": "2222 WEST ST",
    "city": "LOUISVILLE",
    "state": "KY",
    "zipCode": "40202",
    "zipPlusFour": "1111",
    "county": "Jefferson"
}
],
"fraudShieldResults": {
    "fraudShield01": {
        "code": "N"
    },
    "fraudShield02": {
        "code": "N"
    },
    "fraudShield03": {
        "code": "N"
    },
    "fraudShield04": {
        "code": "N"
    },
    "fraudShield05": {
        "code": "N"
    },
    "fraudShield06": {
        "code": "N"
    },
    "fraudShield10": {
        "code": "N"
    },
    "fraudShield11": {
        "code": "N"
    },
    "fraudShield13": {
        "code": "N"
    },
    "fraudShield14": {
        "code": "N"
    },
    "fraudShield15": {
        "code": "N"
    }
},

```

```

    "fraudShield16": {
      "code": "N"
    },
    "fraudShield17": {
      "code": "N"
    },
    "fraudShield18": {
      "code": "N"
    },
    "fraudShield21": {
      "code": "N"
    },
    "fraudShield25": {
      "code": "N"
    },
    "fraudShield26": {
      "code": "N"
    }
  },
  "sharedApplicationResults": {},
  "ipAddressDetail": {
    "country": "USA",
    "msa": "529",
    "latitude": "38.17728",
    "longitude": "-85.69685",
    "cityResult": {
      "code": "1",
      "description": "Match to input"
    },
    "stateResult": {
      "code": "1",
      "description": "Match to input"
    },
    "zipCodeResult": {
      "code": "1",
      "description": "Match to input"
    },
    "countryResult": {
      "code": "1",
      "description": "Match US"
    },
    "city": "LOUISVILLE",
    "state": "KY",
    "zipCode": "40299",
    "county": "Jefferson"
  }
},
"kbqQuestions": {
  "questions": [
    {
      "text": "Which one of the following area codes is associated with you?",
      "questionType": 2,
      "answers": [
        {
          "text": "502",
          "isCorrect": true
        },
        {
          "text": "231",
          "isCorrect": false
        },
        {
          "text": "810",
          "isCorrect": false
        },
        {
          "text": "313/586/248/734",
          "isCorrect": false
        }
      ]
    }
  ]
}

```

```

    {
      "text": "313/586/248",
      "isCorrect": false
    },
    {
      "text": "313/734",
      "isCorrect": false
    },
    {
      "text": "616",
      "isCorrect": false
    },
    {
      "text": "906",
      "isCorrect": false
    },
    {
      "text": "765",
      "isCorrect": false
    },
    {
      "text": "None of the above",
      "isCorrect": false
    }
  ]
},
{
  "text": "Which one of the following counties is associated with you?",
  "questionType": 3,
  "answers": [
    {
      "text": "Auglaize",
      "isCorrect": false
    },
    {
      "text": "Montgomery",
      "isCorrect": false
    },
    {
      "text": "Larue",
      "isCorrect": false
    },
    {
      "text": "Benton",
      "isCorrect": false
    },
    {
      "text": "Delta",
      "isCorrect": false
    },
    {
      "text": "Union",
      "isCorrect": false
    },
    {
      "text": "Missaukee",
      "isCorrect": false
    },
    {
      "text": "Jefferson",
      "isCorrect": true
    },
    {
      "text": "Clark",
      "isCorrect": false
    },
    {
      "text": "None of the above",
      "isCorrect": false
    }
  ]
}

```

```

    }
  ]
},
{
  "text": "Which one of the following zip codes is associated with you?",
  "questionType": 4,
  "answers": [
    {
      "text": "40829",
      "isCorrect": false
    },
    {
      "text": "40506",
      "isCorrect": false
    },
    {
      "text": "40106",
      "isCorrect": false
    },
    {
      "text": "40202",
      "isCorrect": true
    },
    {
      "text": "40803",
      "isCorrect": false
    },
    {
      "text": "40848",
      "isCorrect": false
    },
    {
      "text": "40516",
      "isCorrect": false
    },
    {
      "text": "40136",
      "isCorrect": false
    },
    {
      "text": "40559",
      "isCorrect": false
    },
    {
      "text": "None of the above",
      "isCorrect": false
    }
  ]
},
{
  "text": "What state was your SSN issued in?",
  "questionType": 5,
  "answers": [
    {
      "text": "New Mexico",
      "isCorrect": false
    },
    {
      "text": "Vermont",
      "isCorrect": false
    },
    {
      "text": "Kentucky",
      "isCorrect": true
    },
    {
      "text": "Washington",
      "isCorrect": false
    }
  ]
},

```

```

        {
          "text": "Nevada",
          "isCorrect": false
        },
        {
          "text": "Delaware",
          "isCorrect": false
        },
        {
          "text": "Ohio",
          "isCorrect": false
        },
        {
          "text": "Virginia",
          "isCorrect": false
        },
        {
          "text": "Colorado",
          "isCorrect": false
        },
        {
          "text": "None of the above",
          "isCorrect": false
        }
      ]
    },
    {
      "text": "Which one of the following adult individuals is most closely associated with
you?",
      "questionType": 6,
      "answers": [
        {
          "text": "Eru",
          "isCorrect": false
        },
        {
          "text": "Anna",
          "isCorrect": false
        },
        {
          "text": "Isaac",
          "isCorrect": false
        },
        {
          "text": "Paulino",
          "isCorrect": false
        },
        {
          "text": "Eber",
          "isCorrect": false
        },
        {
          "text": "AnaLeticia",
          "isCorrect": false
        },
        {
          "text": "Barbara",
          "isCorrect": false
        },
        {
          "text": "Colin",
          "isCorrect": false
        },
        {
          "text": "Benjamin",
          "isCorrect": false
        },
        {
          "text": "None of the above",

```

```

        "isCorrect": true
    }
]
},
{
    "text": "What was the zip code for the address on MAIN ST?",
    "questionType": 9,
    "answers": [
        {
            "text": "40111",
            "isCorrect": false
        },
        {
            "text": "40938",
            "isCorrect": false
        },
        {
            "text": "40879",
            "isCorrect": false
        },
        {
            "text": "40856",
            "isCorrect": false
        },
        {
            "text": "40936",
            "isCorrect": false
        },
        {
            "text": "40846",
            "isCorrect": false
        },
        {
            "text": "40299",
            "isCorrect": true
        },
        {
            "text": "40032",
            "isCorrect": false
        },
        {
            "text": "40158",
            "isCorrect": false
        },
        {
            "text": "None of the above",
            "isCorrect": false
        }
    ]
},
{
    "text": "What was the house number for the address on MAIN ST?",
    "questionType": 10,
    "answers": [
        {
            "text": "120",
            "isCorrect": false
        },
        {
            "text": "938",
            "isCorrect": false
        },
        {
            "text": "881",
            "isCorrect": false
        },
        {
            "text": "858",
            "isCorrect": false
        }
    ]
}

```

```

    },
    {
      "text": "936",
      "isCorrect": false
    },
    {
      "text": "847",
      "isCorrect": false
    },
    {
      "text": "456",
      "isCorrect": true
    },
    {
      "text": "42",
      "isCorrect": false
    },
    {
      "text": "166",
      "isCorrect": false
    },
    {
      "text": "None of the above",
      "isCorrect": false
    }
  ]
}

```

AssureFill

The AssureFill product scans the back of an identification card, such as a Driver's License, to read the information encoded in the 2D barcode there and return it in the web service response. Optionally, this information can also be sent to our AssureID, AssurePhone, and/or AssureWatch products and those results included in the service response as well.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureFill>

Input Fields

Field	Required Direct Upload	Required Mobile Capture	Notes
ScanMode	Yes	Yes	DirectImageUpload or CaptureViaMobile or DeferredRequestLink
BackImage	Yes	N/A	Base64 encoded image data in JPG or PNG format
Ssn	No	No	AssureID Option Only. 4 or 9-digit social security number
PhoneNumber	No	Yes	AssureID & AssurePhone Options Only. 10-digit phone number
SendPhoneVerification	No	No	AssurePhone Option Only. Send a value of True to have a verification code sent as a text message / voice call to the phone number provided in the PhoneNumber field.
ForceVerificationByCall	No	No	AssurePhone Option Only. Send a value of True to force Phone Verification to be sent by voice call, even if the provided phone number is found to be a mobile phone.
EmailAddress	No	No	AssureID Option Only
IpAddress	No	No	AssureID Option Only. IPv4 address. Format: ###.###.###.###
SimilarityThreshold	No	No	AssureWatch Option Only. Value between 50 - 100 representing how close name must match for a similarly search. Defaults to 75 when not sent.
LookbackDate	No	No	AssureAMS Option Only. See AssureAMS for more details.

Image Quality & Size Recommendations

The best way to ensure accurate authentication results is to submit good images that our systems can successfully process.

The minimum image resolution is 800 x 600px, in JPG or PNG file format, with a compression rate of less than 15%. We also recommend keeping file size under 4 MB total and no larger than 1500px in either dimension. Larger files may result in longer processing time or errors.

Upload Images Directly

Images can be uploaded directly to BlueAssure when using the **ScanMode** value **DirectImageUpload**. In this case **BackImage** is a required field and should include the Base64-encoded data for the image of the back of the ID. For more information on image size and format recommendations see *Image Quality & Size Recommendations* above.

Capture Images From Mobile Phone

Images can also be uploaded by the ID holder using the **ScanMode** value **CaptureViaMobile**. In this case a mobile phone number of the ID holder must be provided in the **PhoneNumber** field. A text message will be sent to the mobile number with a link that will allow the ID holder to take images of the back of the ID using their phone. The link sent in the text message is only valid for one hour.

If a request is submitted this way via the web service API, you must provide a unique **CustomerReference** identifier in the request. This is how you will know which response via the webhook callback is connected to that request. An initial stub JSON response is returned with a 200 HTTP code to such requests, but no data can be returned and a transaction ID is not created until the customer submits the requested data at the link in the text message. This stub response will follow the same format as the response JSON example below, but with no “data” property (only the “meta” property).

Capture Images From Web Portal

Clients can request an image upload link that can be embedded in the client's application or website. In this case, the only requirement is that **ScanMode** value must be **DeferredRequestLink**. This will return the image capturing link in the JSON response rather than sending it to the end consumer via text. This allows you to embed the image capture portal in your website or application. The link sent in the response is only valid for one hour.

As above, a request submitted this way must have a unique **CustomerReference** so the webhook response can be connected to the request.

Receiving Submitted Images

If you wish to receive the image submitted using the **CaptureViaMobile** or **DeferredRequestLink** modes, you can enable an account option to do so. Go to **My Account** → **Options**, look in the **Product Options** section, and the option labeled “Enable delivery of consumer-uploaded images to product webhook” should be checked. If it is not, have an account admin enable that option for you by clicking the Edit button at the bottom of the page, selecting that checkbox, and then clicking Save.

With this option enabled, when an image is submitted by the end consumer it will be sent to the webhook you have configured (see below under **Asynchronous Request/Response Process**) as a base 64-encoded string in JSON properties (example below).

Test Data

Use any name and address of your choosing in conjunction with any of the below images to receive the canned/dummy response. A zip archive containing all three test images can be found under [Developer Resources](#) on the BlueAssure Platform management site. If Solution Engine Workflow has been enabled

of your account, the dummy response will also include a workflow outcome. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Image	Workflow Code	Workflow Message
Green Smile	P	Pass
Red Smile	F	Fail
Yellow Smile	R	Needs Further Review

AssureFill Request (Image Upload) JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "backImage": "Base64 encoded image of document rear",
    "scanMode": "DirectImageUpload",
    "documentType": "DriversLicense",
    "ssn": null,
    "phoneNumber": "",
    "sendPhoneVerification": null,
    "forceVerificationByCall": null,
    "emailAddress": null,
    "ipAddress": null,
    "similarityThreshold": null
  }
}
```

AssureFill Request (Web to Mobile) JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "scanMode": "CaptureViaMobile",
    "documentType": "DriversLicense",
    "ssn": null,
    "phoneNumber": "5555555555",
    "emailAddress": null,
    "ipAddress": null,
    "similarityThreshold": null
  }
}
```

AssureFill Request (Web Portal) JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  }
}
```

```

    "data": {
      "scanMode": "DeferredRequestLink",
      "documentType": "DriversLicense",
      "ssn": null,
      "phoneNumber": "5555555555",
      "emailAddress": null,
      "ipAddress": null,
      "similarityThreshold": null
    }
  }
}

```

AssureFill Response (Web Portal) JSON Example

```

{
  "meta": {
    "transactionDate": "2023-12-06T06:45:26.2314228Z",
    "productName": "AssureFill",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.116133"
  },
  "data": {
    "deferredRequestLink": "https://blueassure.evssolutions.com/FDR/02bf2283-632f-49d2-93a9-bf5780c7bf9a"
  }
}

```

AssureFill Webhook Uploaded Images JSON Example

```

{
  "meta": {
    "transactionDate": "2023-12-06T06:45:26.2314228Z",
    "productName": "AssureFill",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.116133"
  },
  "data": {
    "backImage": "Base64 encoded image"
  }
}

```

AssureFill Response JSON Example

```

{
  "meta": {
    "transactionId": 134900,
    "transactionDate": "2023-12-06T15:28:09.147",
    "productName": "AssureFill",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0.01",
    "totalDuration": "0.1448193"
  },
  "data": {
    "workflowOutcome": {
      "code": "P",
      "description": "Pass"
    },
    "assureFill": {
      "documentValidationResult": {
        "code": "V",
        "description": "Successfully processed the image and the document appears valid."
      }
    }
  }
}

```

```

"documentExpirationResult": {
  "code": "NE",
  "description": "The document has not expired."
},
"parsedName": {
  "fullName": "JOHN TEST",
  "namePrefix": "",
  "firstName": "JOHN",
  "middleName": "",
  "lastName": "TEST",
  "nameSuffix": ""
},
"parsedAddress": {
  "address1": "123 MAIN STREET",
  "address2": "",
  "city": "FRANKFORT",
  "jurisdictionCode": "KY",
  "postalCode": "40601-0000",
  "countryCode": "USA",
  "country": "UNITED STATES"
},
"parsedDescription": {
  "dateOfBirth": "1990-01-31",
  "calculatedAge": 33,
  "gender": "Male",
  "eyeColor": "Blue",
  "hairColor": "",
  "race": "",
  "height": "072 IN",
  "weightKg": "",
  "weightLbs": "",
  "veteran": "",
  "organDonor": ""
},
"parsedDocumentInfo": {
  "licenseNumber": "P12345678",
  "documentType": "DL",
  "issuerIdentificationNumber": "636046",
  "issueDate": "2010-01-31",
  "issuedBy": "KY",
  "expirationDate": "2100-01-31",
  "cardRevisionDate": "2020-01-31",
  "classificationCode": "D",
  "complianceType": "",
  "limitedDurationDocument": "",
  "endorsementsCode": "NONE",
  "endorsementCodeDescription": "",
  "restrictionCode": "NONE",
  "restrictionCodeDescription": "",
  "vehicleClassCode": "D",
  "vehicleClassCodeDescription": ""
}
}
}
}
}

```

AssureAMS

AssureAMS (Adverse Media Screening) checks individuals or business entities for negative news events. Results will include descriptions and sources that can be used to fulfill anti-money laundering requirements.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureAms>

Input Fields

Field	Individual Required	Entity Required	Notes
EntityName	N/A	Yes	Only used when submitting an entity
FirstName	Yes	N/A	Only used when submitting an individual
MiddleName	No	N/A	Only used when submitting an individual
LastName	Yes	N/A	Only used when submitting an individual
Street	No	No	
City	No	No	
Province	No	No	2 character province code
PostalCode	No	No	
IsoCountryCode	No	No	3 character country code
DateOfBirth	No	No	Only used when submitting an individual. Format: yyyy-MM-dd
LookbackDate	No	No	Format: yyyy-MM-dd

Test Data

Use the below data in your request to receive a canned/dummy response for testing purposes. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Response Type	FirstName	LastName	EntityName
Exact Match	John	Test	
Exact Match			Widget Company

AssureAMS Request JSON Example (Individual)

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "firstName": "John",
    "middleName": null,
    "lastName": "Test",
    "generation": null,
  }
}
```

```

        "street": "123 Main St",
        "city": "Louisville",
        "province": "KY",
        "postalCode": "40223",
        "dateOfBirth": "1950-01-31",
        "isoCountryCode": "USA",
        "lookbackDate": "2019-01-01"
    }
}

```

AMS Request JSON Example (Entity)

```

{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "entityName": "Widget Company",
    "generation": null,
    "street": "123 Main St",
    "city": "Louisville",
    "province": "KY",
    "postalCode": "40223",
    "isoCountryCode": "USA",
    "lookbackDate": "2019-01-01"
  }
}

```

AssureAMS Response JSON Example

```

{
  "meta": {
    "transactionId": 134901,
    "transactionDate": "2023-12-06T15:34:16.26",
    "productName": "AssureAMS",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.1232036"
  },
  "data": {
    "workflowOutcome": {
      "code": "",
      "description": "Workflow Disabled"
    },
    "assureAms": {
      "matchesFoundResult": {
        "code": "M",
        "description": "Matching profiles were found for the entered data."
      },
      "adverseMediaProfiles": [
        {
          "matchScore": 90,
          "profileName": "John Test",
          "alertNotesSummary": "arrested on Thursday, at Mbezi Africana area at night while trying to steal a Toyota Platz car.",
          "riskCodes": "",
          "gender": "Male",
          "events": [
            {
              "eventDate": "2022-01-07",
              "description": "arrested on Thursday, at the Mbezi Africana area at night while trying to steal a Toyota Platz car. The suspect attempted to flee but was apprehended not far from the site of the incident.",
              "categoryCode": "TFT",

```

ion)",

```

        "categoryDescription": "Theft (Larceny, Misappropriation, Embezzlement, Extort
    "subCategoryCode": "ART",
    "subCategoryDescription": "Arrest",
    "mostRecentDate": "2022-01-07",
    "sources": [
        {
            "publisher": "HT Media Ltd.",
            "publication": "PatInto.org (KY)",
            "publishDate": "2022-01-07",
            "description": "Theft",
            "url": "https://rsf.org/en/country/angola",
            "type": "Media"
        }
    ]
},
"addresses": [
    {
        "rawFormat": "123 MAIN ST, Louisville, Kentucky, 40299",
        "addressLine1": "123 MAIN ST",
        "addressLine2": "",
        "city": "Louisville",
        "state": "Kentucky",
        "province": "KY",
        "postalCode": "40299",
        "country": "USA",
        "isoCountry": "USA"
    }
],
"aliases": [
    {
        "name": "John T.",
        "type": "FKA"
    },
    {
        "name": "John III Test",
        "type": "AKA"
    }
],
"dateOfBirths": [
    {
        "year": 1992,
        "approximate": true
    }
],
"attributes": [
    {
        "type": "WGT",
        "typeDescription": "Weight",
        "value": "210 lbs."
    },
    {
        "type": "SEX",
        "typeDescription": "Sex",
        "value": "Male"
    },
    {
        "type": "HCL",
        "typeDescription": "Hair color",
        "value": "Gray or Partially Gray"
    }
],
"sources": [
    {
        "publisher": "HT Media Ltd.",
        "publication": "PatInto.org (KY)",
        "publishDate": "2022-01-07",
        "description": "",

```

```

        "url": "https://rsf.org/en/country/angola",
        "type": "Media"
    }
  ],
},
{
  "matchScore": 90,
  "profileName": "John Test",
  "alertNotesSummary": "Repeated abuse of elderly civilians on government property.",
  "riskCodes": "",
  "gender": "Male",
  "events": [
    {
      "eventDate": "2020-05-24",
      "description": " Pub. L. 98-
473, title II, § 1001(a) Charged with Class A Felony for Abuse of elderly civilians.",
      "categoryCode": "ABU",
      "categoryDescription": "Abuse (Domestic, Elder, Child)",
      "subCategoryCode": "ART",
      "subCategoryDescription": "ARREST",
      "mostRecentDate": "2022-09-17",
      "sources": [
        {
          "publisher": "",
          "publication": "Pub. L.",
          "publishDate": "2020-05-24",
          "description": "",
          "url": "https://www.kentuckycriminaldefenseattorney.com/abuse/John-
Test",
          "type": "Web"
        }
      ]
    },
    {
      "eventDate": "2020-05-24",
      "description": "U.S. Code § 3559 Charged with Class A Felony of assault.",
      "categoryCode": "AST",
      "categoryDescription": "Assault, Battery",
      "subCategoryCode": "ART",
      "subCategoryDescription": "ARREST",
      "mostRecentDate": "2022-09-16",
      "sources": [
        {
          "publisher": "",
          "publication": "Pub. L.",
          "publishDate": "2020-05-24",
          "description": "",
          "url": "https://www.kentuckycriminaldefenseattorney.com/assult/John-
Test",
          "type": "Web"
        }
      ]
    }
  ],
  "addresses": [
    {
      "rawFormat": "333 Cape Cobb Ln, El Paso, Texas, 79913, USA",
      "addressLine1": "333 Cape Cobb Ln",
      "addressLine2": "",
      "city": "El Paso",
      "state": "Texas",
      "province": "TX",
      "postalCode": "79913",
      "country": "USA",
      "isoCountry": "USA"
    },
    {
      "rawFormat": "8888 Beaver Creek Park Drive, El Paso, Texas, 79902, USA",
      "addressLine1": "8888 Beaver Creek Park Drive",

```


PEP

PEP (Politically Exposed Persons) screens individuals for connections to positions of power that can could potentially be abused through corruption or bribery. This product returns information on an individual's PEP level and position type so you can make informed decisions about their risk level for your use case. See Appendix F for more information about the PEP categories in this product.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/Pep>

Input Fields

Field	Required	Notes
FirstName	Yes	
MiddleName	No	
LastName	Yes	
Street	No	
City	No	
Province	No	2 character province code
PostalCode	No	
IsoCountryCode	No	3 character country code
DateOfBirth	No	Format: yyyy-MM-dd

Test Data

Use the below data in your request to receive a canned/dummy response for testing purposes. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Response Type	FirstName	LastName
Exact Match	John	Test
Exact Match	Janet	Test

PEP Request JSON Example (Individual)

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "firstName": "John",
    "middleName": null,
    "lastName": "Test",
    "street": "123 Main St",
    "city": "Louisville",
    "province": "KY",
    "postalCode": "40223",
```

```

    "dateOfBirth": "1950-01-31",
    "isoCountryCode": "USA"
  }
}

```

PEP Response JSON Example

```

{
  "meta": {
    "transactionId": 134902,
    "transactionDate": "2023-12-06T17:00:07.96",
    "productName": "PEP",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0",
    "totalDuration": "0.1088578"
  },
  "data": {
    "workflowOutcome": {
      "code": "",
      "description": "Workflow Disabled"
    },
    "pep": {
      "pepMatchResult": {
        "code": "M",
        "description": "Matching profiles were found for the entered data."
      },
      "pepProfiles": [
        {
          "nameMatchResult": {
            "code": "E",
            "description": "Exact match"
          },
          "addressMatchResult": {
            "code": "NS",
            "description": "Not submitted"
          },
          "dobMatchResult": {
            "code": "NS",
            "description": "Not submitted"
          },
          "matchScore": 90,
          "profileName": "John Test",
          "alertNotesSummary": "Charged with Class A Misdemeanor of Trespass in the Second Degree, Class A Misdemeanor of Having a Possession Reportedly Belonging To Someone Else, SRPD, DOI: 10-12-2015.",
          "gender": "Male",
          "positions": [
            {
              "name": "Board of Directors",
              "from": "2021",
              "to": ""
            }
          ],
          "pepRisks": [
            {
              "typeCode": "LEG",
              "typeDescription": "Senior legislative branch officials",
              "seniorityLevel": 1
            }
          ],
          "relationships": [
            {
              "type": "MAR",
              "direction": "WIFE",
              "name": "Janet Test"
            }
          ],
          "addresses": [

```

```

    {
      "rawFormat": "123 MAIN ST, Louisville, Kentucky, 40299, USA",
      "addressLine1": "123 MAIN ST",
      "addressLine2": "",
      "city": "Louisville",
      "state": "Kentucky",
      "province": "KY",
      "postalCode": "40299",
      "country": "USA",
      "isoCountry": "USA"
    },
    "aliases": [
      {
        "name": "Jonny Test",
        "type": "FKA"
      }
    ],
    "dateOfBirths": [
      {
        "year": 1972,
        "month": 7,
        "day": 13,
        "approximate": false
      }
    ],
    "attributes": [
      {
        "type": "WGT",
        "value": "130 lbs."
      },
      {
        "type": "SEX",
        "value": "Male"
      }
    ]
  }
}

```

AssurePay

AssurePay is your first line of defense against credit card fraud. AssurePay verifies that your customer's information matches what is on file for the credit card they want to use. A result code is provided for each set of information provided with the credit card number: Name, Address, Phone Number, and Zip Code Only.

Note: American Express cards are currently unsupported.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssurePay>

Input Fields

Field	Required	Notes
CardNumber	Yes*	15 or 16-digit number *Required unless Bin and Last4 are both provided
CardBinNumber	No*	First 6 digits of number*Required if full number is not provided
CardLast4	No*	Last 4 digits of number *Required if full number is not provided
FirstName	No	
MiddleName	No	
LastName	No	
Generation	No	AssureID Option Only.
Ssn	No	AssureID Option Only. 4 or 9-digit social security number
Street	No	
City	No	
State	No	2-character state code
PostalCode	Yes	5 or 9-digit postal code
DateOfBirth	No	Format: yyyy-MM-dd
PhoneNumber	No	10-digit phone number
SendPhoneVerification	No	AssurePhone Option Only. Send a value of True to have a verification code sent as a text message / voice call to the phone number provided in the PhoneNumber field.
ForceVerificationByCall	No	AssurePhone Option Only. Send a value of True to force Phone Verification to be sent by voice call, even if the provided phone number is found to be a mobile phone.
IpAddress	No	AssureID Option Only. IPv4 address. Format: ###.###.###.###
EmailAddress	No	AssureID Option Only.

Test Data

Use the below data in your request to receive a canned/dummy response for testing purposes. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Response Type	CreditCardNumber
Match to Name and Zip	1000100010001000
Match to Name, Address, and Zip	2000200020002000
Match to Name, Address, and Zip using Bin and Last4	3000303000
Match to Name and Zip, Partial Match to Address using Bin and Last4	4000404000
Match to Zip	5000500050005000

AssurePay Request JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "cardNumber": "2000200020002000",
    "ssn": "22222222",
    "firstName": "John",
    "middleName": null,
    "lastName": "Test",
    "generation": null,
    "street": "123 Main St",
    "city": "Louisville",
    "state": "KY",
    "zipCode": "40223",
    "dateOfBirth": "1950-01-31",
    "phoneNumber": "5554443333",
    "ipAddress": "127.0.0.1",
    "emailAddress": "johntest@example.com",
    "similarityThreshold": null
  }
}
```

AssurePay Response JSON Example

```
{
  "meta": {
    "transactionId": 134903,
    "transactionDate": "2023-12-06T17:10:21.777",
    "productName": "AssurePay",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0.014",
    "totalDuration": "0.1290012"
  },
  "data": {
    "workflowOutcome": {
      "code": "P",
      "description": "Pass"
    },
    "assurePay": {
      "nameMatchResult": {
        "code": "E",
        "description": "Exact Match to Name"
      }
    }
  }
}
```

```

    },
    "addressMatchResult": {
      "code": "E",
      "description": "Exact Match to Address"
    },
    "phoneMatchResult": {
      "code": "M",
      "description": "Missing phone number"
    },
    "zipOnlyMatchResult": {
      "code": "E",
      "description": "Exact match to zip"
    }
  }
}
}

```

AssureLocate

AssureLocate determines the likelihood that your customer is using a VPN to hide their location. The customer is directed to a unique link to a portal that collects location information from their device and IP address. This information is used to calculate the probability they are using a VPN. The factors used to make this determination are fully configurable through the product's settings page and the workflow editor.

Service URL

<https://blueassure.evssolutions.com/WebServices/Integrated/Main/V300/AssureLocate>

Input Fields

Field	Required	Notes
PhoneNumber	Yes*	10-digit phone number. *Required for Capture Via Mobile
ScanMode	Yes	"CaptureViaMobile" or "DeferredRequestLink"

Test Data

Use the below data in your request to receive a canned/dummy response for testing purposes. There are no transaction charges associated with using the below test data. Note: test transactions must be enabled for your account for this feature to work.

Response Type	PhoneNumber
Low Probability of VPN	5552225555
High Probability of VPN	5555555555

AssureLocate Request (Web Portal) JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "scanMode": "DeferredRequestLink"
  }
}
```

AssureLocate Request (Web to Mobile) JSON Example

```
{
  "meta": {
    "credentials": {
      "username": "Your Web Service Username",
      "password": "Your Web Service Password"
    },
    "customerReference": "123456789ABC"
  },
  "data": {
    "phoneNumber": "5552225555",
    "scanMode": "CaptureViaMobile"
  }
}
```


AssureLocate Initial Response (Web Portal) JSON Example

```
{
  "meta": {
    "transactionDate": "2025-04-01T17:10:21.777",
    "productName": "AssureLocate",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0.014",
    "totalDuration": "0.1290012"
  },
  "data": {
    "deferredRequestLink": "https://blueassure.evssolutions.com/LDR/02xy2222-333z-44a4-99a9bb7770c7cz9a"
  }
}
```

AssureLocate Initial Response (Web to Mobile) JSON Example

```
{
  "meta": {
    "transactionDate": "2025-04-01T17:10:21.777",
    "productName": "AssureLocate",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0.014",
    "totalDuration": "0.1290012"
  }
}
```

AssureLocate Webhook Callback JSON Example

```
{
  "meta": {
    "transactionId": 987654321,
    "transactionDate": "2025-04-01T17:10:21.777",
    "productName": "AssureLocate",
    "productVersion": "3.0.0",
    "customerReference": "123456789ABC",
    "dataProviderDuration": "0.014",
    "totalDuration": "0.1290012"
  },
  "data": {
    "workflowOutcome": {
      "code": "P",
      "description": "Pass"
    },
    "assureLocate": {
      "locationToIpDistanceMiles": 3,
      "vpnProbability": {
        "code": "L",
        "description": "Distance indicates low probability of VPN usage"
      },
      "deviceLocation": {
        "deviceLatitude": "40.783958",
        "deviceLongitude": "-73.971252",
        "accuracyMeters": "10.34490367"
      },
      "ipLocation": {
        "ipAddress": "127.0.0.1",
        "ipLatitude": "40.783090",
        "ipLongitude": "-73.971335",
        "city": "New York",
        "region": "New York",
        "regionCode": "US-NY",
        "postalCode": "10024",
        "district": "New York",
        "isoCountry": "USA",
        "isp": "VERIZON FIOS"
      }
    }
  }
}
```

```

"organization": "VERIZON FIOS",
"asn": "AS10001",
"hostName": "syn-077-177-111-000.res.verizon.com",
"torDetected": false,
"isProxy": false,
"proxyType": "RELAY",
"isAnonymous": false,
"isKnownAttacker": false,
"isSpam": false,
"isBot ": false,
"isCloudProvider": false,
"threatScore": 0
    }
  }
}

```

Appendix A: Response Codes

Address Verification (Level 5) Result Codes

Code	Definition	Match Summary
A1	Exact match on first and last name; Exact match on address	Exact Match
B	Business was found at supplied address from the residential file.	Exact Match
BB	Business was found at the supplied address.	Exact Match
BM	Business was found in both business and residential files at the supplied address.	Exact Match
H1	Exact match on first name, last name matches one of hyphenated last names; Exact match on address	Exact Match
Q1	First name matches last, last name matches first (exact matches only); Exact match on address	Exact Match
YB	Supplied full name matches supplied address. Address was found in business files.	Exact Match

Address Verification (Level 4) Result Codes

Code	Definition	Match Summary
A2	Exact match on first and last name; Misspelling of street name (all other fields match)	Close Match
A5	Exact match on first and last name; Street number missing on input (all other fields match)	Close Match
A7	Exact match on first and last name; No match to city (all other fields match)	Close Match
A8	Exact match on first and last name; No match to ZIP code (all other fields match)	Close Match
AC	Exact match on first and last name; Partial match to street name (all other fields match)	Close Match
AF	Exact match on first and last name; Partial match to street name and no match to city (all other fields match)	Close Match
AG	Exact match on first and last name; Close match to street name; no match to city (all other fields match)	Close Match
AH	Exact match on first and last name; Close match to street name; no match to state (all other fields match)	Close Match
AJ	Exact match on first and last name; Close match to street name; no match to ZIP code (all other fields match)	Close Match
AK	Exact match on first and last name; Partial match to street name; no match to state (all other fields match)	Close Match
AU	Exact match on first and last name; No match to state (all other fields match)	Close Match
AV	Exact match on first and last name; Partial match to street name; no match to ZIP code (all other fields match)	Close Match
C1	Misspelling of either first OR last name; Exact match on address	Close Match

Address Verification (Level 4) Result Codes (CONT'D)

Code	Definition	Match Summary
C2	Misspelling of either first OR last name; Misspelling of street name (all other fields match)	Close Match
C7	Misspelling of either first OR last name; No match to city (all other fields match)	Close Match
C8	Misspelling of either first OR last name; No match to ZIP code (all other fields match)	Close Match
CC	Misspelling of either first OR last name; Partial match to street name (all other fields match)	Close Match
CU	Misspelling of either first OR last name; No match to state (all other fields match)	Close Match
D1	Misspelling of first AND last name; Exact match on address	Close Match
D2	Misspelling of first AND last name; Misspelling of street name (all other fields match)	Close Match
D7	Misspelling of first AND last name; No match to city (all other fields match)	Close Match
D8	Misspelling of first AND last name; No match to ZIP code (all other fields match)	Close Match
DC	Misspelling of first AND last name; Partial match to street name (all other fields match)	Close Match
DU	Misspelling of first AND last name; No match to state (all other fields match)	Close Match
H2	Exact match on first name, last name matches one of hyphenated last names; Misspelling of street name (all other fields match)	Close Match
H5	Exact match on first name, last name matches one of hyphenated last names; Street number missing on input (all other fields match)	Close Match
H7	Exact match on first name, last name matches one of hyphenated last names; No match to city (all other fields match)	Close Match
H8	Exact match on first name, last name matches one of hyphenated last names; No match to ZIP code (all other fields match)	Close Match
HC	Exact match on first name, last name matches one of hyphenated last names; Partial match to street name (all other fields match)	Close Match
HF	Exact match on first name, last name matches one of hyphenated last names; Partial match to street name and no match to city (all other fields match)	Close Match
HG	Exact match on first name, last name matches one of hyphenated last names; Close match to street name; no match to city (all other fields match)	Close Match
HH	Exact match on first name, last name matches one of hyphenated last names; Close match to street name; no match to state (all other fields match)	Close Match
HJ	Exact match on first name, last name matches one of hyphenated last names; Close match to street name; no match to ZIP code (all other fields match)	Close Match
HK	Exact match on first name, last name matches one of hyphenated last names; Partial match to street name; no match to state (all other fields match)	Close Match
HU	Exact match on first name, last name matches one of hyphenated last names; No match to state (all other fields match)	Close Match
HV	Exact match on first name, last name matches one of hyphenated last names; Partial match to street name; no match to ZIP code (all other fields match)	Close Match

Address Verification (Level 4) Result Codes (CONT'D)

Code	Definition	Match Summary
I1	First name misspelled, last name matches one of hyphenated last names; Exact match on address	Close Match
I2	First name misspelled, last name matches one of hyphenated last names; Misspelling of street name (all other fields match)	Close Match
I7	First name misspelled, last name matches one of hyphenated last names; No match to city (all other fields match)	Close Match
I8	First name misspelled, last name matches one of hyphenated last names; No match to ZIP code (all other fields match)	Close Match
IC	First name misspelled, last name matches one of hyphenated last names; Partial match to street name (all other fields match)	Close Match
IU	First name misspelled, last name matches one of hyphenated last names; No match to state (all other fields match)	Close Match
P1	Partial match on first name, last name matches on one of hyphenated last names; Exact match on address	Close Match
P2	Partial match on first name, last name matches on one of hyphenated last names; Misspelling of street name (all other fields match)	Close Match
P7	Partial match on first name, last name matches on one of hyphenated last names; No match to city (all other fields match)	Close Match
P8	Partial match on first name, last name matches on one of hyphenated last names; No match to ZIP code (all other fields match)	Close Match
PC	Partial match on first name, last name matches on one of hyphenated last names; Partial match to street name (all other fields match)	Close Match
PU	Partial match on first name, last name matches on one of hyphenated last names; No match to state (all other fields match)	Close Match
Q2	First name matches last, last name matches first (exact matches only); Misspelling of street name (all other fields match)	Close Match
Q5	First name matches last, last name matches first (exact matches only); Street number missing on input (all other fields match)	Close Match
Q7	First name matches last, last name matches first (exact matches only); No match to city (all other fields match)	Close Match
Q8	First name matches last, last name matches first (exact matches only); No match to ZIP code (all other fields match)	Close Match
QC	First name matches last, last name matches first (exact matches only); Partial match to street name (all other fields match)	Close Match
QF	First name matches last, last name matches first (exact matches only); Partial match to street name and no match to city (all other fields match)	Close Match
QG	First name matches last, last name matches first (exact matches only); Close match to street name; no match to city (all other fields match)	Close Match
QH	First name matches last, last name matches first (exact matches only); Close match to street name; no match to state (all other fields match)	Close Match
QJ	First name matches last, last name matches first (exact matches only); Close match to street name; no match to ZIP code (all other fields match)	Close Match

Address Verification (Level 4) Result Codes (CONT'D)

Code	Definition	Match Summary
QK	First name matches last, last name matches first (exact matches only); Partial match to street name; no match to state (all other fields match)	Close Match
QU	First name matches last, last name matches first (exact matches only); No match to state (all other fields match)	Close Match
QV	First name matches last, last name matches first (exact matches only); Partial match to street name; no match to ZIP code (all other fields match)	Close Match
R1	Partial match on first name, exact match on last name; Exact match on address	Close Match
R2	Partial match on first name, exact match on last name; Misspelling of street name (all other fields match)	Close Match
R7	Partial match on first name, exact match on last name; No match to city (all other fields match)	Close Match
R8	Partial match on first name, exact match on last name; No match to ZIP code (all other fields match)	Close Match
RC	Partial match on first name, exact match on last name; Partial match to street name (all other fields match)	Close Match
RU	Partial match on first name, exact match on last name; No match to state (all other fields match)	Close Match
W	Match to other Associated Address.	Close Match

Address Verification (Level 3) Result Codes

Code	Definition	Match Summary
A3	Exact match on first and last name; No match to street name (all other fields match)	Partial Match
A6	Exact match on first and last name; No match to street number (all other fields match)	Partial Match
AA	Exact match on first and last name; Street number does not match or is missing, close match to street name (all other fields match)	Partial Match
AD	Exact match on first and last name; Street number and ZIP code are missing or do not match (all other fields match)	Partial Match
AE	Exact match on first and last name; Street number does not match or is missing and partial match to street name (all other fields match)	Partial Match
AN	Exact match on first and last name; City and state do not match (all other fields match)	Partial Match
AP	Exact match on first and last name; State and ZIP code do not match (all other fields match)	Partial Match
AQ	Exact match on first and last name; Street number and state are missing or do not match (all other fields match)	Partial Match
AT	Exact match on first and last name; Street number and city are missing or do not match (all other fields match)	Partial Match
C5	Misspelling of either first OR last name; Street number missing on input (all other fields match)	Partial Match

Address Verification (Level 3) Result Codes (CONT'D)

Code	Definition	Match Summary
C6	Misspelling of either first OR last name; No match to street number (all other fields match)	Partial Match
CA	Misspelling of either first OR last name; Street number does not match or is missing, close match to street name (all other fields match)	Partial Match
CE	Misspelling of either first OR last name; Street number does not match or is missing and partial match to street name(all other fields match)	Partial Match
CF	Misspelling of either first OR last name; Partial match to street name and no match to city (all other fields match)	Partial Match
CG	Misspelling of either first OR last name; Close match to street name; no match to city (all other fields match)	Partial Match
CH	Misspelling of either first OR last name; Close match to street name; no match to state (all other fields match)	Partial Match
CJ	Misspelling of either first OR last name; Close match to street name; no match to ZIP code (all other fields match)	Partial Match
CK	Misspelling of either first OR last name; Partial match to street name; no match to state (all other fields match)	Partial Match
CV	Misspelling of either first OR last name; Partial match to street name; no match to ZIP code (all other fields match)	Partial Match
D5	Misspelling of first AND last name; Street number missing on input (all other fields match)	Partial Match
D6	Misspelling of first AND last name; No match to street number (all other fields match)	Partial Match
DA	Misspelling of first AND last name; Street number does not match or is missing, close match to street name (all other fields match)	Partial Match
DE	Misspelling of first AND last name; Street number does not match or is missing and partial match to street name(all other fields match)	Partial Match
DF	Misspelling of first AND last name; Partial match to street name and no match to city (all other fields match)	Partial Match
DG	Misspelling of first AND last name; Close match to street name; no match to city (all other fields match)	Partial Match
DH	Misspelling of first AND last name; Close match to street name; no match to state (all other fields match)	Partial Match
DJ	Misspelling of first AND last name; Close match to street name; no match to ZIP code (all other fields match)	Partial Match
DK	Misspelling of first AND last name; Partial match to street name; no match to state (all other fields match)	Partial Match
DV	Misspelling of first AND last name; Partial match to street name; no match to ZIP code (all other fields match)	Partial Match
E1	First initial match, exact match on last name; Exact match on address	Partial Match
E2	First initial match, exact match on last name; Misspelling of street name (all other fields match)	Partial Match
E5	First initial match, exact match on last name; Street number missing on input (all other fields match)	Partial Match

Address Verification (Level 3) Result Codes (CONT'D)

Code	Definition	Match Summary
E7	First initial match, exact match on last name; No match to city (all other fields match)	Partial Match
E8	First initial match, exact match on last name; No match to ZIP code (all other fields match)	Partial Match
EC	First initial match, exact match on last name; Partial match to street name (all other fields match)	Partial Match
EF	First initial match, exact match on last name; Partial match to street name and no match to city (all other fields match)	Partial Match
EG	First initial match, exact match on last name; Close match to street name; no match to city (all other fields match)	Partial Match
EH	First initial match, exact match on last name; Close match to street name; no match to state (all other fields match)	Partial Match
EJ	First initial match, exact match on last name; Close match to street name; no match to ZIP code (all other fields match)	Partial Match
EK	First initial match, exact match on last name; Partial match to street name; no match to state (all other fields match)	Partial Match
EU	First initial match, exact match on last name; No match to state (all other fields match)	Partial Match
EV	First initial match, exact match on last name; Partial match to street name; no match to ZIP code (all other fields match)	Partial Match
F1	First initial match, last name misspelled; Exact match on address	Partial Match
F2	First initial match, last name misspelled; Misspelling of street name (all other fields match)	Partial Match
F5	First initial match, last name misspelled; Street number missing on input (all other fields match)	Partial Match
F7	First initial match, last name misspelled; No match to city (all other fields match)	Partial Match
F8	First initial match, last name misspelled; No match to ZIP code (all other fields match)	Partial Match
FC	First initial match, last name misspelled; Partial match to street name (all other fields match)	Partial Match
FF	First initial match, last name misspelled; Partial match to street name and no match to city (all other fields match)	Partial Match
FG	First initial match, last name misspelled; Close match to street name; no match to city (all other fields match)	Partial Match
FH	First initial match, last name misspelled; Close match to street name; no match to state (all other fields match)	Partial Match
FJ	First initial match, last name misspelled; Close match to street name; no match to ZIP code (all other fields match)	Partial Match
FK	First initial match, last name misspelled; Partial match to street name; no match to state (all other fields match)	Partial Match
FU	First initial match, last name misspelled; No match to state (all other fields match)	Partial Match
FV	First initial match, last name misspelled; Partial match to street name; no match to ZIP code (all other fields match)	Partial Match

Address Verification (Level 3) Result Codes (CONT'D)

Code	Definition	Match Summary
G1	First name does not match or is missing, exact match on last name; Exact match on address	Partial Match
G2	First name does not match or is missing, exact match on last name; Misspelling of street name (all other fields match)	Partial Match
G7	First name does not match or is missing, exact match on last name; No match to city (all other fields match)	Partial Match
G8	First name does not match or is missing, exact match on last name; No match to ZIP code (all other fields match)	Partial Match
GC	First name does not match or is missing, exact match on last name; Partial match to street name (all other fields match)	Partial Match
GU	First name does not match or is missing, exact match on last name; No match to state (all other fields match)	Partial Match
H3	Exact match on first name, last name matches one of hyphenated last names; No match to street name (all other fields match)	Partial Match
H6	Exact match on first name, last name matches one of hyphenated last names; No match to street number (all other fields match)	Partial Match
HA	Exact match on first name, last name matches one of hyphenated last names; Street number does not match or is missing, close match to street name (all other fields match)	Partial Match
HD	Exact match on first name, last name matches one of hyphenated last names; Street number and ZIP code are missing or do not match (all other fields match)	Partial Match
HE	Exact match on first name, last name matches one of hyphenated last names; Street number does not match or is missing and partial match to street name(all other fields match)	Partial Match
HN	Exact match on first name, last name matches one of hyphenated last names; City and state do not match (all other fields match)	Partial Match
HP	Exact match on first name, last name matches one of hyphenated last name; State and ZIP code do not match (all other fields match)	Partial Match
HQ	Exact match on first name, last name matches one of hyphenated last names; Street number and state are missing or do not match (all other fields match)	Partial Match
HT	Exact match on first name, last name matches one of hyphenated last names; Street number and city are missing or do not match (all other fields match)	Partial Match
I5	First name misspelled, last name matches one of hyphenated last names; Street number missing on input (all other fields match)	Partial Match
I6	First name misspelled, last name matches one of hyphenated last names; No match to street number (all other fields match)	Partial Match
IA	First name misspelled, last name matches one of hyphenated last names; Street number does not match or is missing, close match to street name (all other fields match)	Partial Match
IE	First name misspelled, last name matches one of hyphenated last names; Street number does not match or is missing and partial match to street name(all other fields match)	Partial Match

IF	First name misspelled, last name matches one of hyphenated last names; Partial match to street name and no match to city (all other fields match)	Partial Match
----	---	---------------

Address Verification (Level 3) Result Codes (CONT'D)

Code	Definition	Match Summary
IG	First name misspelled, last name matches one of hyphenated last names; Close match to street name; no match to city (all other fields match)	Partial Match
IH	First name misspelled, last name matches one of hyphenated last names; Close match to street name; no match to state (all other fields match)	Partial Match
IJ	First name misspelled, last name matches one of hyphenated last names; Close match to street name; no match to ZIP code (all other fields match)	Partial Match
IK	First name misspelled, last name matches one of hyphenated last names; Partial match to street name; no match to state (all other fields match)	Partial Match
IV	First name misspelled, last name matches one of hyphenated last names; Partial match to street name; no match to ZIP code (all other fields match)	Partial Match
J1	First initial match, last name matches one of hyphenated last names; Exact match on address	Partial Match
J2	First initial match, last name matches one of hyphenated last names; Misspelling of street name (all other fields match)	Partial Match
J5	First initial match, last name matches one of hyphenated last names; Street number missing on input (all other fields match)	Partial Match
J7	First initial match, last name matches one of hyphenated last names; No match to city (all other fields match)	Partial Match
J8	First initial match, last name matches one of hyphenated last names; No match to ZIP code (all other fields match)	Partial Match
JC	First initial match, last name matches one of hyphenated last names; Partial match to street name (all other fields match)	Partial Match
JF	First initial match, last name matches one of hyphenated last names; Partial match to street name and no match to city (all other fields match)	Partial Match
JG	First initial match, last name matches one of hyphenated last names; Close match to street name; no match to city (all other fields match)	Partial Match
JH	First initial match, last name matches one of hyphenated last names; Close match to street name; no match to state (all other fields match)	Partial Match
JJ	First initial match, last name matches one of hyphenated last names; Close match to street name; no match to ZIP code (all other fields match)	Partial Match
JK	First initial match, last name matches one of hyphenated last names; Partial match to street name; no match to state (all other fields match)	Partial Match
JU	First initial match, last name matches one of hyphenated last names; No match to state (all other fields match)	Partial Match
JV	First initial match, last name matches one of hyphenated last names; Partial match to street name; no match to ZIP code (all other fields match)	Partial Match
M1	First name does not match or is missing, last name matches on one of hyphenated last names; Exact match on address	Partial Match
M2	First name does not match or is missing, last name matches on one of hyphenated last names; Misspelling of street name (all other fields match)	Partial Match

M7	First name does not match or is missing, last name matches on one of hyphenated last names; No match to city (all other fields match)	Partial Match
----	---	---------------

Address Verification (Level 3) Result Codes (CONT'D)

Code	Definition	Match Summary
M8	First name does not match or is missing, last name matches on one of hyphenated last names; No match to ZIP code (all other fields match)	Partial Match
MC	First name does not match or is missing, last name matches on one of hyphenated last names; Partial match to street name (all other fields match)	Partial Match
MU	First name does not match or is missing, last name matches on one of hyphenated last names; No match to state (all other fields match)	Partial Match
O1	Partial match on first name, close match on last name; Exact match on address	Partial Match
O2	Partial match on first name, close match on last name; Misspelling of street name (all other fields match)	Partial Match
O5	Partial match on first name, close match on last name; Street number missing on input (all other fields match)	Partial Match
O7	Partial match on first name, close match on last name; No match to city (all other fields match)	Partial Match
O8	Partial match on first name, close match on last name; No match to ZIP code (all other fields match)	Partial Match
OC	Partial match on first name, close match on last name; Partial match to street name (all other fields match)	Partial Match
OF	Partial match on first name, close match on last name; Partial match to street name and no match to city (all other fields match)	Partial Match
OG	Partial match on first name, close match on last name; Close match to street name; no match to city (all other fields match)	Partial Match
OH	Partial match on first name, close match on last name; Close match to street name; no match to state (all other fields match)	Partial Match
OJ	Partial match on first name, close match on last name; Close match to street name; no match to ZIP code (all other fields match)	Partial Match
OK	Partial match on first name, close match on last name; Partial match to street name; no match to state (all other fields match)	Partial Match
OU	Partial match on first name, close match on last name; No match to state (all other fields match)	Partial Match
OV	Partial match on first name, close match on last name; Partial match to street name; no match to ZIP code (all other fields match)	Partial Match
P5	Partial match on first name, last name matches on one of hyphenated last names; Street number missing on input (all other fields match)	Partial Match
P6	Partial match on first name, last name matches on one of hyphenated last names; No match to street number (all other fields match)	Partial Match
PA	Partial match on first name, last name matches on one of hyphenated last names; Street number does not match or is missing, close match to street name (all other fields match)	Partial Match

PE	Partial match on first name, last name matches on one of hyphenated last names; Street number does not match or is missing and partial match to street name(all other fields match)	Partial Match
PF	Partial match on first name, last name matches on one of hyphenated last names; Partial match to street name and no match to city (all other fields match)	Partial Match

Address Verification (Level 3) Result Codes (CONT'D)

Code	Definition	Match Summary
PG	Partial match on first name, last name matches on one of hyphenated last names; Close match to street name; no match to city (all other fields match)	Partial Match
PH	Partial match on first name, last name matches on one of hyphenated last names; Close match to street name; no match to state (all other fields match)	Partial Match
PJ	Partial match on first name, last name matches on one of hyphenated last names; Close match to street name; no match to ZIP code (all other fields match)	Partial Match
PK	Partial match on first name, last name matches on one of hyphenated last names; Partial match to street name; no match to state (all other fields match)	Partial Match
PV	Partial match on first name, last name matches on one of hyphenated last names; Partial match to street name; no match to ZIP code (all other fields match)	Partial Match
Q3	First name matches last, last name matches first (exact matches only);No match to street name (all other fields match)	Partial Match
Q6	First name matches last, last name matches first (exact matches only);No match to street number (all other fields match)	Partial Match
QA	First name matches last, last name matches first (exact matches only);Street number does not match or is missing, close match to street name (all other fields match)	Partial Match
QD	First name matches last, last name matches first (exact matches only);Street number and ZIP code are missing or do not match (all other fields match)	Partial Match
QE	First name matches last, last name matches first (exact matches only);Street number does not match or is missing and partial match to street name(all other fields match)	Partial Match
QN	First name matches last, last name matches first (exact matches only);City and state do not match (all other fields match)	Partial Match
QP	First name matches last, last name matches first (exact matches only);State and ZIP code do not match (all other fields match)	Partial Match
QQ	First name matches last, last name matches first (exact matches only);Street number and state are missing or do not match (all other fields match)	Partial Match
QT	First name matches last, last name matches first (exact matches only);Street number and city are missing or do not match (all other fields match)	Partial Match
R5	Partial match on first name, exact match on last name; Street number missing on input (all other fields match)	Partial Match
R6	Partial match on first name, exact match on last name; No match to street number (all other fields match)	Partial Match
RA	Partial match on first name, exact match on last name; Street number does not match or is missing, close match to street name (all other fields match)	Partial Match
RE	Partial match on first name, exact match on last name; Street number does not match or is missing and partial match to street name(all other fields match)	Partial Match

RF	Partial match on first name, exact match on last name; Partial match to street name and no match to city (all other fields match)	Partial Match
RG	Partial match on first name, exact match on last name; Close match to street name; no match to city (all other fields match)	Partial Match
RH	Partial match on first name, exact match on last name; Close match to street name; no match to state (all other fields match)	Partial Match

Address Verification (Level 3) Result Codes (CONT'D)

Code	Definition	Match Summary
RJ	Partial match on first name, exact match on last name; Close match to street name; no match to ZIP code (all other fields match)	Partial Match
RK	Partial match on first name, exact match on last name; Partial match to street name; no match to state (all other fields match)	Partial Match
RV	Partial match on first name, exact match on last name; Partial match to street name; no match to ZIP code (all other fields match)	Partial Match
SB	Address is found in the business files. Supplied last name matches to address.	Partial Match

Address Verification (Level 2) Result Codes

Code	Definition	Match Summary
A9	Exact match on first and last name; City and ZIP do not match (all other fields match)	Low Confidence Partial Match
AI	Exact match on first and last name; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
AL	Exact match on first and last name; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
AO	Exact match on first and last name; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
AS	Exact match on first and last name; Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
AW	Exact match on first and last name; Street number and street name match only (no other fields match)	Low Confidence Partial Match
C3	Misspelling of either first OR last name; No match to street name (all other fields match)	Low Confidence Partial Match
C9	Misspelling of either first OR last name; City and ZIP do not match (all other fields match)	Low Confidence Partial Match
CD	Misspelling of either first OR last name; Street number and ZIP code are missing or do not match (all other fields match)	Low Confidence Partial Match
CI	Misspelling of either first OR last name; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
CL	Misspelling of either first OR last name; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
CN	Misspelling of either first OR last name; City and state do not match (all other fields match)	Low Confidence Partial Match

CO	Misspelling of either first OR last name; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
CP	Misspelling of either first OR last name; State and ZIP code do not match (all other fields match)	Low Confidence Partial Match
CQ	Misspelling of either first OR last name; Street number and state are missing or do not match (all other fields match)	Low Confidence Partial Match

Address Verification (Level 2) Result Codes (CONT'D)

Code	Definition	Match Summary
CS	Misspelling of either first OR last name; Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
CT	Misspelling of either first OR last name; Street number and city are missing or do not match (all other fields match)	Low Confidence Partial Match
CW	Misspelling of either first OR last name; Street number and street name match only (no other fields match)	Low Confidence Partial Match
D3	Misspelling of first AND last name; No match to street name (all other fields match)	Low Confidence Partial Match
D9	Misspelling of first AND last name; City and ZIP do not match (all other fields match)	Low Confidence Partial Match
DD	Misspelling of first AND last name; Street number and ZIP code are missing or do not match (all other fields match)	Low Confidence Partial Match
DI	Misspelling of first AND last name; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
DL	Misspelling of first AND last name; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
DN	Misspelling of first AND last name; City and state do not match (all other fields match)	Low Confidence Partial Match
DO	Misspelling of first AND last name; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
DP	Misspelling of first AND last name; State and ZIP code do not match (all other fields match)	Low Confidence Partial Match
DQ	Misspelling of first AND last name; Street number and state are missing or do not match (all other fields match)	Low Confidence Partial Match
DS	Misspelling of first AND last name; Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
DT	Misspelling of first AND last name; Street number and city are missing or do not match (all other fields match)	Low Confidence Partial Match
DW	Misspelling of first AND last name; Street number and street name match only (no other fields match)	Low Confidence Partial Match
E3	First initial match, exact match on last name; No match to street name (all other fields match)	Low Confidence Partial Match
E6	First initial match, exact match on last name; No match to street number (all other fields match)	Low Confidence Partial Match
E9	First initial match, exact match on last name; City and ZIP do not match (all other fields match)	Low Confidence Partial Match

EA	First initial match, exact match on last name; Street number does not match or is missing, close match to street name (all other fields match)	Low Confidence Partial Match
ED	First initial match, exact match on last name; Street number and ZIP code are missing or do not match (all other fields match)	Low Confidence Partial Match
EE	First initial match, exact match on last name; Street number does not match or is missing and partial match to street name(all other fields match)	Low Confidence Partial Match

Address Verification (Level 2) Result Codes (CONT'D)

Code	Definition	Match Summary
EI	First initial match, exact match on last name; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
EL	First initial match, exact match on last name; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
EN	First initial match, exact match on last name; City and state do not match (all other fields match)	Low Confidence Partial Match
EO	First initial match, exact match on last name; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
EP	First initial match, exact match on last name; State and ZIP code do not match (all other fields match)	Low Confidence Partial Match
EQ	First initial match, exact match on last name; Street number and state are missing or do not match (all other fields match)	Low Confidence Partial Match
ES	First initial match, exact match on last name; Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
ET	First initial match, exact match on last name; Street number and city are missing or do not match (all other fields match)	Low Confidence Partial Match
EW	First initial match, exact match on last name; Street number and street name match only (no other fields match)	Low Confidence Partial Match
F3	First initial match, last name misspelled; No match to street name (all other fields match)	Low Confidence Partial Match
F6	First initial match, last name misspelled; No match to street number (all other fields match)	Low Confidence Partial Match
F9	First initial match, last name misspelled; City and ZIP do not match (all other fields match)	Low Confidence Partial Match
FA	First initial match, last name misspelled; Street number does not match or is missing, close match to street name (all other fields match)	Low Confidence Partial Match
FD	First initial match, last name misspelled; Street number and ZIP code are missing or do not match (all other fields match)	Low Confidence Partial Match
FE	First initial match, last name misspelled; Street number does not match or is missing and partial match to street name(all other fields match)	Low Confidence Partial Match
FI	First initial match, last name misspelled; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
FL	First initial match, last name misspelled; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
FN	First initial match, last name misspelled; City and state do not match (all other fields match)	Low Confidence Partial Match

FO	First initial match, last name misspelled; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
FP	First initial match, last name misspelled; State and ZIP code do not match (all other fields match)	Low Confidence Partial Match
FQ	First initial match, last name misspelled; Street number and state are missing or do not match (all other fields match)	Low Confidence Partial Match

Address Verification (Level 2) Result Codes (CONT'D)

Code	Definition	Match Summary
FS	First initial match, last name misspelled; Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
FT	First initial match, last name misspelled; Street number and city are missing or do not match (all other fields match)	Low Confidence Partial Match
FW	First initial match, last name misspelled; Street number and street name match only (no other fields match)	Low Confidence Partial Match
G5	First name does not match or is missing, exact match on last name; Street number missing on input (all other fields match)	Low Confidence Partial Match
G6	First name does not match or is missing, exact match on last name; No match to street number (all other fields match)	Low Confidence Partial Match
GA	First name does not match or is missing, exact match on last name; Street number does not match or is missing, close match to street name (all other fields match)	Low Confidence Partial Match
GE	First name does not match or is missing, exact match on last name; Street number does not match or is missing and partial match to street name (all other fields match)	Low Confidence Partial Match
GF	First name does not match or is missing, exact match on last name; Partial match to street name and no match to city (all other fields match)	Low Confidence Partial Match
GG	First name does not match or is missing, exact match on last name; Close match to street name; no match to city (all other fields match)	Low Confidence Partial Match
GH	First name does not match or is missing, exact match on last name; Close match to street name; no match to state (all other fields match)	Low Confidence Partial Match
GJ	First name does not match or is missing, exact match on last name; Close match to street name; no match to ZIP code (all other fields match)	Low Confidence Partial Match
GK	First name does not match or is missing, exact match on last name; Partial match to street name; no match to state (all other fields match)	Low Confidence Partial Match
GV	First name does not match or is missing, exact match on last name; Partial match to street name; no match to ZIP code (all other fields match)	Low Confidence Partial Match
H9	Exact match on first name, last name matches one of hyphenated last names; City and ZIP do not match (all other fields match)	Low Confidence Partial Match
HI	Exact match on first name, last name matches one of hyphenated last names; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
HL	Exact match on first name, last name matches one of hyphenated last names; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
HO	Exact match on first name, last name matches one of hyphenated last names; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match

HS	Exact match on first name, last name matches one of hyphenated last names; Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
HW	Exact match on first name, last name matches one of hyphenated last names; Street number and street name match only (no other fields match)	Low Confidence Partial Match
I3	First name misspelled, last name matches one of hyphenated last names; No match to street name (all other fields match)	Low Confidence Partial Match
I9	First name misspelled, last name matches one of hyphenated last names; City and ZIP do not match (all other fields match)	Low Confidence Partial Match

Address Verification (Level 2) Result Codes (CONT'D)

Code	Definition	Match Summary
ID	First name misspelled, last name matches one of hyphenated last names; Street number and ZIP code are missing or do not match (all other fields match)	Low Confidence Partial Match
II	First name misspelled, last name matches one of hyphenated last names; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
IL	First name misspelled, last name matches one of hyphenated last names; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
IN	First name misspelled, last name matches one of hyphenated last names; City and state do not match (all other fields match)	Low Confidence Partial Match
IO	First name misspelled, last name matches one of hyphenated last names; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
IP	First name misspelled, last name matches one of hyphenated last name; State and ZIP code do not match (all other fields match)	Low Confidence Partial Match
IQ	First name misspelled, last name matches one of hyphenated last names; Street number and state are missing or do not match (all other fields match)	Low Confidence Partial Match
IS	First name misspelled, last name matches one of hyphenated last names; Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
IT	First name misspelled, last name matches one of hyphenated last names; Street number and city are missing or do not match (all other fields match)	Low Confidence Partial Match
IW	First name misspelled, last name matches one of hyphenated last names; Street number and street name match only (no other fields match)	Low Confidence Partial Match
J3	First initial match, last name matches one of hyphenated last names; No match to street name (all other fields match)	Low Confidence Partial Match
J6	First initial match, last name matches one of hyphenated last names; No match to street number (all other fields match)	Low Confidence Partial Match
J9	First initial match, last name matches one of hyphenated last names; City and ZIP do not match (all other fields match)	Low Confidence Partial Match
JA	First initial match, last name matches one of hyphenated last names; Street number does not match or is missing, close match to street name (all other fields match)	Low Confidence Partial Match
JD	First initial match, last name matches one of hyphenated last names; Street number and ZIP code are missing or do not match (all other fields match)	Low Confidence Partial Match
JE	First initial match, last name matches one of hyphenated last names; Street number does not match or is missing and partial match to street name(all other fields match)	Low Confidence Partial Match

JI	First initial match, last name matches one of hyphenated last names; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
JL	First initial match, last name matches one of hyphenated last names; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
JN	First initial match, last name matches one of hyphenated last names; City and state do not match (all other fields match)	Low Confidence Partial Match
JO	First initial match, last name matches one of hyphenated last names; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
JP	First initial match, last name matches one of hyphenated last name; State and ZIP code do not match (all other fields match)	Low Confidence Partial Match

Address Verification (Level 2) Result Codes (CONT'D)

Code	Definition	Match Summary
JQ	First initial match, last name matches one of hyphenated last names; Street number and state are missing or do not match (all other fields match)	Low Confidence Partial Match
JS	First initial match, last name matches one of hyphenated last names; Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
JT	First initial match, last name matches one of hyphenated last names; Street number and city are missing or do not match (all other fields match)	Low Confidence Partial Match
JW	First initial match, last name matches one of hyphenated last names; Street number and street name match only (no other fields match)	Low Confidence Partial Match
L1	First name does not match or is missing, close match on last name; Exact match on address	Low Confidence Partial Match
L2	First name does not match or is missing, close match on last name; Misspelling of street name (all other fields match)	Low Confidence Partial Match
L5	First name does not match or is missing, close match on last name; Street number missing on input (all other fields match)	Low Confidence Partial Match
L7	First name does not match or is missing, close match on last name; No match to city (all other fields match)	Low Confidence Partial Match
L8	First name does not match or is missing, close match on last name; No match to ZIP code (all other fields match)	Low Confidence Partial Match
LC	First name does not match or is missing, close match on last name; Partial match to street name (all other fields match)	Low Confidence Partial Match
LF	First name does not match or is missing, close match on last name; Partial match to street name and no match to city (all other fields match)	Low Confidence Partial Match
LG	First name does not match or is missing, close match on last name; Close match to street name; no match to city (all other fields match)	Low Confidence Partial Match
LH	First name does not match or is missing, close match on last name; Close match to street name; no match to state (all other fields match)	Low Confidence Partial Match
LJ	First name does not match or is missing, close match on last name; Close match to street name; no match to ZIP code (all other fields match)	Low Confidence Partial Match
LK	First name does not match or is missing, close match on last name; Partial match to street name; no match to state (all other fields match)	Low Confidence Partial Match
LU	First name does not match or is missing, close match on last name; No match to state (all other fields match)	Low Confidence Partial Match

LV	First name does not match or is missing, close match on last name; Partial match to street name; no match to ZIP code (all other fields match)	Low Confidence Partial Match
M5	First name does not match or is missing, last name matches on one of hyphenated last names; Street number missing on input (all other fields match)	Low Confidence Partial Match
M6	First name does not match or is missing, last name matches on one of hyphenated last names; No match to street number (all other fields match)	Low Confidence Partial Match
MA	First name does not match or is missing, last name matches on one of hyphenated last names; Street number does not match or is missing, close match to street name (all other fields match)	Low Confidence Partial Match

Address Verification (Level 2) Result Codes (CONT'D)

Code	Definition	Match Summary
ME	First name does not match or is missing, last name matches on one of hyphenated last names; Street number does not match or is missing and partial match to street name(all other fields match)	Low Confidence Partial Match
MF	First name does not match or is missing, last name matches on one of hyphenated last names; Partial match to street name and no match to city (all other fields match)	Low Confidence Partial Match
MG	First name does not match or is missing, last name matches on one of hyphenated last names; Close match to street name; no match to city (all other fields match)	Low Confidence Partial Match
MH	First name does not match or is missing, last name matches on one of hyphenated last names; Close match to street name; no match to state (all other fields match)	Low Confidence Partial Match
MJ	First name does not match or is missing, last name matches on one of hyphenated last names; Close match to street name; no match to ZIP code (all other fields match)	Low Confidence Partial Match
MK	First name does not match or is missing, last name matches on one of hyphenated last names; Partial match to street name; no match to state (all other fields match)	Low Confidence Partial Match
MV	First name does not match or is missing, last name matches on one of hyphenated last names; Partial match to street name; no match to ZIP code (all other fields match)	Low Confidence Partial Match
O3	Partial match on first name, close match on last name; No match to street name (all other fields match)	Low Confidence Partial Match
O6	Partial match on first name, close match on last name; No match to street number (all other fields match)	Low Confidence Partial Match
O9	Partial match on first name, close match on last name; City and ZIP do not match (all other fields match)	Low Confidence Partial Match
OA	Partial match on first name, close match on last name; Street number does not match or is missing, close match to street name (all other fields match)	Low Confidence Partial Match
OD	Partial match on first name, close match on last name; Street number and ZIP code are missing or do not match (all other fields match)	Low Confidence Partial Match
OE	Partial match on first name, close match on last name; Street number does not match or is missing and partial match to street name(all other fields match)	Low Confidence Partial Match
OI	Partial match on first name, close match on last name; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match

OL	Partial match on first name, close match on last name; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
ON	Partial match on first name, close match on last name; City and state do not match (all other fields match)	Low Confidence Partial Match
OO	Partial match on first name, close match on last name; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
OP	Partial match on first name, close match on last name; State and ZIP code do not match (all other fields match)	Low Confidence Partial Match
OQ	Partial match on first name, close match on last name; Street number and state are missing or do not match (all other fields match)	Low Confidence Partial Match
OS	Partial match on first name, close match on last name; Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match

Address Verification (Level 2) Result Codes (CONT'D)

Code	Definition	Match Summary
OT	Partial match on first name, close match on last name; Street number and city are missing or do not match (all other fields match)	Low Confidence Partial Match
OW	Partial match on first name, close match on last name; Street number and street name match only (no other fields match)	Low Confidence Partial Match
P3	Partial match on first name, last name matches on one of hyphenated last names; No match to street name (all other fields match)	Low Confidence Partial Match
P9	Partial match on first name, last name matches on one of hyphenated last names; City and ZIP do not match (all other fields match)	Low Confidence Partial Match
PD	Partial match on first name, last name matches on one of hyphenated last names; Street number and ZIP code are missing or do not match (all other fields match)	Low Confidence Partial Match
PI	Partial match on first name, last name matches on one of hyphenated last names; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
PL	Partial match on first name, last name matches on one of hyphenated last names; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
PN	Partial match on first name, last name matches on one of hyphenated last names; City and state do not match (all other fields match)	Low Confidence Partial Match
PO	Partial match on first name, last name matches on one of hyphenated last names; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
PP	Partial match on first name, last name matches on one of hyphenated last name; State and ZIP code do not match (all other fields match)	Low Confidence Partial Match
PQ	Partial match on first name, last name matches on one of hyphenated last names; Street number and state are missing or do not match (all other fields match)	Low Confidence Partial Match
PS	Partial match on first name, last name matches on one of hyphenated last names; Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
PT	Partial match on first name, last name matches on one of hyphenated last names; Street number and city are missing or do not match (all other fields match)	Low Confidence Partial Match
PW	Partial match on first name, last name matches on one of hyphenated last names; Street number and street name match only (no other fields match)	Low Confidence Partial Match

Q9	First name matches last, last name matches first (exact matches only);City and ZIP do not match (all other fields match)	Low Confidence Partial Match
QI	First name matches last, last name matches first (exact matches only);Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
QL	First name matches last, last name matches first (exact matches only);Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
QO	First name matches last, last name matches first (exact matches only);Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
QS	First name matches last, last name matches first (exact matches only);Partial match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
QW	First name matches last, last name matches first (exact matches only);Street number and street name match only (no other fields match)	Low Confidence Partial Match
R3	Partial match on first name, exact match on last name; No match to street name (all other fields match)	Low Confidence Partial Match

Address Verification (Level 2) Result Codes (CONT'D)

Code	Definition	Match Summary
R9	Partial match on first name, exact match on last name; City and ZIP do not match (all other fields match)	Low Confidence Partial Match
RD	Partial match on first name, exact match on last name; Street number and ZIP code are missing or do not match (all other fields match)	Low Confidence Partial Match
RI	Partial match on first name, exact match on last name; Close match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
RL	Partial match on first name, exact match on last name; Close match to street name; state and ZIP code do not match (all other fields match)	Low Confidence Partial Match
RN	Partial match on first name, exact match on last name; City and state do not match (all other fields match)	Low Confidence Partial Match
RO	Partial match on first name, exact match on last name; Partial match to street name; city and state do not match (all other fields match)	Low Confidence Partial Match
RP	Partial match on first name, exact match on last name; State and ZIP code do not match (all other fields match)	Low Confidence Partial Match
RQ	Partial match on first name, exact match on last name; Street number and state are missing or do not match (all other fields match)	Low Confidence Partial Match
RS	Partial match on first name, exact match on last name; Street number and state are missing or do not match (all other fields match)	Low Confidence Partial Match
RT	Partial match on first name, exact match on last name; Street number and city are missing or do not match (all other fields match)	Low Confidence Partial Match
RW	Partial match on first name, exact match on last name; Street number and street name match only (no other fields match)	Low Confidence Partial Match

Address Verification (Level 1) Result Codes

Code	Definition	Match Summary
------	------------	---------------

A4	Exact match on first and last name; Different Street number and different street name (all other fields match)	No Match / With Detail
C4	Misspelling of either first OR last name; Different Street number and different street name (all other fields match)	No Match / With Detail
D4	Misspelling of first AND last name; Different Street number and different street name (all other fields match)	No Match / With Detail
E4	First initial match, exact match on last name; Different Street number and different street name (all other fields match)	No Match / With Detail
F4	First initial match, last name misspelled; Different Street number and different street name (all other fields match)	No Match / With Detail
G3	First name does not match or is missing, exact match on last name; No match to street name (all other fields match)	No Match / With Detail
G4	First name does not match or is missing, exact match on last name; Different Street number and different street name (all other fields match)	No Match / With Detail
G9	First name does not match or is missing, exact match on last name; City and ZIP do not match (all other fields match)	No Match / With Detail

Address Verification (Level 1) Result Codes (CONT'D)

Code	Definition	Match Summary
GD	First name does not match or is missing, exact match on last name; Street number and ZIP code are missing or do not match (all other fields match)	No Match / With Detail
GI	First name does not match or is missing, exact match on last name; Close match to street name; city and state do not match (all other fields match)	No Match / With Detail
GL	First name does not match or is missing, exact match on last name; Close match to street name; state and ZIP code do not match (all other fields match)	No Match / With Detail
GN	First name does not match or is missing, exact match on last name; City and state do not match (all other fields match)	No Match / With Detail
GO	First name does not match or is missing, exact match on last name; Partial match to street name; city and state do not match (all other fields match)	No Match / With Detail
GP	First name does not match or is missing, exact match on last name; State and ZIP code do not match (all other fields match)	No Match / With Detail
GQ	First name does not match or is missing, exact match on last name; Street number and ZIP code are missing or do not match (all other fields match)	No Match / With Detail
GS	First name does not match or is missing, exact match on last name; Partial match to street name; state and ZIP code do not match (all other fields match)	No Match / With Detail
GT	First name does not match or is missing, exact match on last name; Street number and city are missing or do not match (all other fields match)	No Match / With Detail
GW	First name does not match or is missing, exact match on last name; Street number and street name match only (no other fields match)	No Match / With Detail
H4	Exact match on first name, last name matches one of hyphenated last names; Different Street number and different street name (all other fields match)	No Match / With Detail
I4	First name misspelled, last name matches one of hyphenated last names; Different Street number and different street name (all other fields match)	No Match / With Detail
J4	First initial match, last name matches one of hyphenated last names; Different Street number and different street name (all other fields match)	No Match / With Detail

L3	First name does not match or is missing, close match on last name; No match to street name (all other fields match)	No Match / With Detail
L4	First name does not match or is missing, close match on last name; Different Street number and different street name (all other fields match)	No Match / With Detail
L6	First name does not match or is missing, close match on last name; No match to street number (all other fields match)	No Match / With Detail
L9	First name does not match or is missing, close match on last name; City and ZIP do not match (all other fields match)	No Match / With Detail
LA	First name does not match or is missing, close match on last name; Street number does not match or is missing, close match to street name (all other fields match)	No Match / With Detail
LD	First name does not match or is missing, close match on last name; Street number and ZIP code are missing or do not match (all other fields match)	No Match / With Detail
LE	First name does not match or is missing, close match on last name; Street number does not match or is missing and partial match to street name(all other fields match)	No Match / With Detail
LI	First name does not match or is missing, close match on last name; Close match to street name; city and state do not match (all other fields match)	No Match / With Detail

Address Verification (Level 1) Result Codes (CONT'D)

Code	Definition	Match Summary
LL	First name does not match or is missing, close match on last name; Close match to street name; state and ZIP code do not match (all other fields match)	No Match / With Detail
LN	First name does not match or is missing, close match on last name; City and state do not match (all other fields match)	No Match / With Detail
LO	First name does not match or is missing, close match on last name; Partial match to street name; city and state do not match (all other fields match)	No Match / With Detail
LP	First name does not match or is missing, close match on last name; State and ZIP code do not match (all other fields match)	No Match / With Detail
LQ	First name does not match or is missing, close match on last name; Street number and state are missing or do not match (all other fields match)	No Match / With Detail
LS	First name does not match or is missing, close match on last name; Partial match to street name; state and ZIP code do not match (all other fields match)	No Match / With Detail
LT	First name does not match or is missing, close match on last name; Street number and city are missing or do not match (all other fields match)	No Match / With Detail
LW	First name does not match or is missing, close match on last name; Street number and street name match only (no other fields match)	No Match / With Detail
M3	First name does not match or is missing, last name matches on one of hyphenated last names; No match to street name (all other fields match)	No Match / With Detail
M4	First name does not match or is missing, last name matches on one of hyphenated last names; Different Street number and different street name (all other fields match)	No Match / With Detail
M9	First name does not match or is missing, last name matches on one of hyphenated last names; City and ZIP do not match (all other fields match)	No Match / With Detail
MD	First name does not match or is missing, last name matches on one of hyphenated last names; Street number and ZIP code are missing or do not match (all other fields match)	No Match / With Detail
MI	First name does not match or is missing, last name matches on one of hyphenated last names; Exact match on address	No Match / With Detail

ML	First name does not match or is missing, last name matches on one of hyphenated last names; Close match to street name; state and ZIP code do not match (all other fields match)	No Match / With Detail
MN	First name does not match or is missing, last name matches on one of hyphenated last names; City and state do not match (all other fields match)	No Match / With Detail
MO	First name does not match or is missing, last name matches on one of hyphenated last names; Partial match to street name; city and state do not match (all other fields match)	No Match / With Detail
MP	First name does not match or is missing, last name matches on one of hyphenated last name; State and ZIP code do not match (all other fields match)	No Match / With Detail
MQ	First name does not match or is missing, last name matches on one of hyphenated last names; Street number and state are missing or do not match (all other fields match)	No Match / With Detail
MS	First name does not match or is missing, last name matches on one of hyphenated last names; Partial match to street name; state and ZIP code do not match (all other fields match)	No Match / With Detail
MT	First name does not match or is missing, last name matches on one of hyphenated last names; Street number and city are missing or do not match (all other fields match)	No Match / With Detail
MW	First name does not match or is missing, last name matches on one of hyphenated last names; Street number and street name match only (no other fields match)	No Match / With Detail

Address Verification (Level 1) Result Codes (CONT'D)

Code	Definition	Match Summary
O4	Partial match on first name, close match on last name; Different Street number and different street name (all other fields match)	No Match / With Detail
P4	Partial match on first name, last name matches on one of hyphenated last names; Different Street number and different street name (all other fields match)	No Match / With Detail
Q4	First name matches last, last name matches first (exact matches only); Different Street number and different street name (all other fields match)	No Match / With Detail
R4	Partial match on first name, exact match on last name; Different Street number and different street name (all other fields match)	No Match / With Detail

Address Verification (Level 0) Result Codes

Code	Definition	Match Summary
X0	No match on name; No match on address	No Match / No Detail
ZZ	Invalid/No match – Legacy	No Match / No Detail

Address Unit Mismatch Result Codes

Code	Definition	Explanation	Match Summary
EU	Unit number is extra - Not expected at this address	Database does not show an apartment or unit number needed at this address.	N/A
MU	Unit number is missing - Unit number expected at this address	Database shows an apartment/unit number at this address.	No match for unit number

WU	Unit number is wrong - Unit number does not match unit number at this address	Database shows a different apartment/unit number.	No match for unit number
----	--	---	--------------------------

Phone Mismatch Result Codes

Code	Definition	Explanation	Match Summary
EU	Unit number is extra - Not expected at the address for this phone	Database does not show an apartment or unit number needed at the address for this phone.	N/A
MU	Unit number missing - expected for the address for this phone	Database shows an apartment/unit number at the address for this phone.	No match for unit number.
WU	Unit number wrong - Unit number does not match unit number for this address at this phone	Database shows a different apartment/unit number for this address for this phone.	No match for unit number

Change Of Address Result Codes

Code	Definition	Explanation	Match Summary
C	Change of Address Information Found	A change of address was found using elements of the name and address.	Match to change of address file.
N	No Change of Address Information Found	No change of address was found.	No match to change of address file.
NA	Data not available	Code not utilized.	N/A
NP	Test not in profile	Not returned.	
U	Test not available	Search was not available.	Match not performed.

Address Type Result Codes

Code	Definition	Explanation
C	Single – Company address	Business address.
EB	Business address	Address classified as seasonal and in business file.
EM	Residential address	Address classified as seasonal.
EX	Mixed-use address	Address classified as seasonal and in both business and residential files.
M	Residential address	Residential address.
N	No information available	Address type not available.
NA	Data not available	Code not utilized.
O	Office building address	Business complex.
P	Post office box address	PO Box.

S	Residential address	Residential address.
SE	Residential address	Address classified as seasonal.
V	Vacant – Unknown type	Address is vacant.
VB	Vacant – Business address	Business address is vacant.
VM	Vacant – Residential address	Residential address is vacant.
VS	Vacant – Residential address	Residential address is vacant.
VX	Vacant – Mixed-use address	Vacant address in both business and residential files.
X	Mixed use address	Address in both business and residential files.

Address High Risk Result Codes

Code	Definition	Explanation	Match Summary
N	No address high risk information found		No match to high risk business.
YA	A high risk business was identified at this address	Address matched a business with an SIC code flagged as high risk.	Match to high risk business.

Driver's License Result Codes

Code	Definition	Explanation	Match Summary
A	Match to address only	DL matches address only	Match
I	DL state and number format invalid	DL information invalid for state	Validation failed, match not performed
M	Driver License number not submitted on inquiry	DL number not supplied on input	Match not performed
N	No match to name or address	DL does not match the supplied name or address.	No match
NA	Data not available for this state	Used on business searches only.	N/A
NI	Input DL state and number not on file	DL number not found on file for verification	Match not performed
S	Match to surname only	DL matches last name only	Match
SA	Match to surname and address	DL matches last name and address	Match
V	Valid DL state and number - Name match not available	DL number valid and on file, but no record as to consumer.	Match not performed
Y	Match to full name only	DL matches full name	Match
YA	Match to full name and address	Input DL matches to File DL and matches full name and address	Match
YB	Match to full name and address	No DL input, match performed using name and address	Match

Phone Verification (Level 5) Result Codes

Code	Definition	Match Summary
EA	Exact match to Phone, Exact match to Name, Exact match to Address	Exact Match
EB	Exact match to Phone, Exact match to Name, Close match to Address	Exact Match
EC	Exact match to Phone, Close match to Name, Exact match to Address	Exact Match
ED	Exact match to Phone, Exact match to Name, Partial match to Address	Exact Match
EE	Exact match to Phone, Exact match to Name, Low confidence match to Address	Exact Match
EF	Exact match to Phone, Exact match to Name, No match to Address	Exact Match
EG	Exact match to Phone, Exact match to Name, Address missing	Exact Match
EH	Exact match to Phone, Close match to Name, Close match to Address	Exact Match

Phone Verification (Level 4) Result Codes

Code	Definition	Match Summary
EI	Exact match to Phone, Partial match to Name, Exact match to Address	Close Match
CA	Close match to Phone, Exact match to Name, Exact match to Address	Close Match
EJ	Exact match to Phone, Close match to Name, Partial match to Address	Close Match
EL	Exact match to Phone, Name missing, Exact match to Address	Close Match
EN	Exact match to Phone, Close match to Name, Low confidence match to Address	Close Match
EO	Exact match to Phone, Close match to Name, No match to Address	Close Match
EP	Exact match to Phone, Close match to Name, Address missing	Close Match
CB	Close match to Phone, Exact match to Name, Close match to Address	Close Match
CC	Close match to Phone, Close match to Name, Exact match to Address	Close Match
PA	Partial match to Phone, Exact match to Name, Exact match to Address	Close Match
CD	Close match to Phone, Exact match to Name, Partial match to Address	Close Match
CE	Close match to Phone, Exact match to Name, Low confidence match to Address	Close Match
CF	Close match to Phone, Exact match to Name, No match to Address	Close Match
CG	Close match to Phone, Exact match to Name, Address missing	Close Match
CH	Close match to Phone, Close match to Name, Close match to Address	Close Match
PB	Partial match to Phone, Exact match to Name, Close match to Address	Close Match
PC	Partial match to Phone, Close match to Name, Exact match to Address	Close Match
PD	Partial match to Phone, Exact match to Name, Partial match to Address	Close Match
PE	Partial match to Phone, Exact match to Name, Low confidence match to Address	Close Match
PF	Partial match to Phone, Exact match to Name, No match to Address	Close Match
PG	Partial match to Phone, Exact match to Name, Address missing	Close Match
PH	Partial match to Phone, Close match to Name, Close match to Address	Close Match

Phone Verification (Level 3) Result Codes

Code	Definition	Match Summary
EK	Exact match to Phone, No match to Name, Exact match to Address	Partial Match
EM	Exact match to Phone, Partial match to Name, Close match to Address	Partial Match
ER	Exact match to Phone, Partial match to Name, Partial match to Address	Partial Match
ES	Exact match to Phone, Name missing, Close match to Address	Partial Match
ET	Exact match to Phone, Partial match to Name, Low confidence match to Address	Partial Match
EV	Exact match to Phone, Partial match to Name, Address missing	Partial Match
CI	Close match to Phone, Partial match to Name, Exact match to Address	Partial Match
CJ	Close match to Phone, Close match to Name, Partial match to Address	Partial Match
CL	Close match to Phone, Name missing, Exact match to Address	Partial Match
CN	Close match to Phone, Close match to Name, Low confidence match to Address	Partial Match
CO	Close match to Phone, Close match to Name, No match to Address	Partial Match
CP	Close match to Phone, Close match to Name, Address missing	Partial Match
PI	Partial match to Phone, Partial match to Name, Exact match to Address	Partial Match
PJ	Partial match to Phone, Close match to Name, Partial match to Address	Partial Match
PL	Partial match to Phone, Name missing, Exact match to Address	Partial Match
PN	Partial match to Phone, Close match to Name, Low confidence match to Address	Partial Match
PO	Partial match to Phone, Close match to Name, No match to Address	Partial Match
PP	Partial match to Phone, Close match to Name, Address missing	Partial Match

Phone Verification (Level 2) Result Codes

Code	Definition	Match Summary
EQ	Exact match to Phone, No match to Name, Close match to Address	Low Confidence Partial Match
EU	Exact match to Phone, Partial match to Name, No match to Address	Low Confidence Partial Match
EW	Exact match to Phone, No match to Name, Partial match to Address	Low Confidence Partial Match
EX	Exact match to Phone, Name missing, Partial match to Address	Low Confidence Partial Match
CK	Close match to Phone, No match to Name, Exact match to Address	Low Confidence Partial Match
CM	Close match to Phone, Partial match to Name, Close match to Address	Low Confidence Partial Match
CR	Close match to Phone, Partial match to Name, Partial match to Address	Low Confidence Partial Match
CS	Close match to Phone, Name missing, Close match to Address	Low Confidence Partial Match
CT	Close match to Phone, Partial match to Name, Low confidence match to Address	Low Confidence Partial Match
PK	Partial match to Phone, No match to Name, Exact match to Address	Low Confidence Partial Match
CV	Close match to Phone, Partial match to Name, Address missing	Low Confidence Partial Match
PM	Partial match to Phone, Partial match to Name, Close match to Address	Low Confidence Partial Match
PR	Partial match to Phone, Partial match to Name, Partial match to Address	Low Confidence Partial Match
PS	Partial match to Phone, Name missing, Close match to Address	Low Confidence Partial Match
PT	Partial match to Phone, Partial match to Name, Low confidence match to Address	Low Confidence Partial Match
PV	Partial match to Phone, Partial match to Name, Address missing	Low Confidence Partial Match

Phone Verification (Level 1) Result Codes

Code	Definition	Match Summary
EY	Exact match to Phone, No match to Name, Low confidence match to Address	No Match With Detail
EZ	Exact match to Phone, No match to Name, No match to Address	No Match With Detail
E4	Exact match to Phone, No match to Name, Address missing	No Match With Detail
E5	Exact match to Phone, Name missing, Low confidence match to Address	No Match With Detail
E6	Exact match to Phone, Name missing, No match to Address	No Match With Detail
E7	Exact match to Phone, Name missing, Address missing	No Match With Detail
CQ	Close match to Phone, No match to Name, Close match to Address	No Match With Detail
CU	Close match to Phone, Partial match to Name, No match to Address	No Match With Detail
CW	Close match to Phone, No match to Name, Partial match to Address	No Match With Detail
CX	Close match to Phone, Name missing, Partial match to Address	No Match With Detail
CY	Close match to Phone, No match to Name, Low confidence match to Address	No Match With Detail
CZ	Close match to Phone, No match to Name, No match to Address	No Match With Detail
C4	Close match to Phone, No match to Name, Address missing	No Match With Detail
C5	Close match to Phone, Name missing, Low confidence match to Address	No Match With Detail
C6	Close match to Phone, Name missing, No match to Address	No Match With Detail
C7	Close match to Phone, Name missing, Address missing	No Match With Detail
PQ	Partial match to Phone, No match to Name, Close match to Address	No Match With Detail
PU	Partial match to Phone, Partial match to Name, No match to Address	No Match With Detail
PW	Partial match to Phone, No match to Name, Partial match to Address	No Match With Detail
PX	Partial match to Phone, Name missing, Partial match to Address	No Match With Detail
PY	Partial match to Phone, No match to Name, Low confidence match to Address	No Match With Detail
PZ	Partial match to Phone, No match to Name, No match to Address	No Match With Detail
P4	Partial match to Phone, No match to Name, Address missing	No Match With Detail
P5	Partial match to Phone, Name missing, Low confidence match to Address	No Match With Detail
P6	Partial match to Phone, Name missing, No match to Address	No Match With Detail
P7	Partial match to Phone, Name missing, Address missing	No Match With Detail
MX	Phone number is missing	No Match With Detail

Phone Verification (Level 0) Result Codes

Code	Definition	Match Summary
NX	No Match	No Match / No Detail

Caller Type Result Codes

Code	Definition	Explanation	Match Summary
C	Consumer	Phone matched to a consumer number.	Match found
B	Business	Phone matched to a business number.	Match found
U	Unavailable	The type of caller could not be determined.	Match not found

Phone High Risk Result Codes

Code	Definition	Explanation	Match Summary
N	No phone high risk information found		No match to high risk business
YP	A high-risk business was identified for this address at this phone	Phone matched a business with an SIC code flagged as high risk.	Match to high risk business

Phone Type Result Codes

Code	Definition	Explanation	Match Summary
M	Mobile	Phone matched to a mobile number.	Mobile match
L	Landline	Phone matched to a landline number.	Landline match
V	VOIP	Phone matched to a voice over IP number	VOIP match
U	Unknown	Unable to determine the type of phone number	No match

Phone Verification Delivery Type Result Codes

Code	Definition	Explanation
TM	Text Message	Verification code was delivered via text message.
VC	Voice Call	Verification code was delivered via voice call using text-to-speech.
N	Not Sent	A verification code was not sent.

SSN Format Validation Result Codes

Code	Definition	Explanation	Match Summary
I	Invalid format	SSN – invalid format per SSA.	No match format
V	Valid format	SSN – valid format per SSA	Match format

Driver's License Format Validation Result Codes

Code	Definition	Explanation	Match Summary
I	Invalid format	DL – invalid format for state.	No match format
V	Valid format	DL – valid format of number for state.	Match format

SSN Issue Result Codes

Code	Definition	Explanation	Match Summary
C	SSN issue date cannot be verified	SSN issue date cannot be verified due to SSN random assignment of SSNs by the SSA.	No match issued file
I	SSN issued	SSN has beginning and ending issue dates.	Match issued file
N	SSN not issued	SSN not opened for issue.	No match issued file
P	SSN opened for issue per SSA	SSN has beginning issue date, still open.	Match issued file
X	SSN issued date is prior to input Year of Birth	SSN has beginning and ending issue dates, however was issued before year of birth.	Match issued file, cautious
Y	SSN issued date is prior to onfile Year of Birth	SSN has beginning and ending issue dates, however was issued before year of birth.	Match issued file, cautious
Z	SSN issued date is prior to input Year of Birth and onfile Year of Birth	SSN has beginning and ending issue dates, however was issued before year of birth.	Match issued file, cautious

SSN Deceased Result Codes

Code	Definition	Explanation	Match Summary
Y	Hit to the deathmaster - SSA reports death benefits are being paid on the SSN	Deceased.	Match deceased
N	No hit to the deathmaster	Not deceased.	No match deceased

Consumer ID (SSN) Result Codes

Code	Definition	Explanation	Match Summary
A	Match to address only (using SSN)	SSN matches to address only	Match
D	Deceased - Unable to verify name	SSN reported as deceased.	Match not performed
DN	Deceased - No match to name	SSN reported as deceased and is associated with a different consumer.	No match and deceased
DS	Deceased - Match to surname	SSN reported as deceased with the same surname.	Match but deceased
DY	Deceased - Match to full name	SSN reported as deceased with the same first and last name.	Match but deceased
F	SSN format is invalid	SSN format not valid per SSA.	Validation failed, match not performed.
FF	SSN Finder Match to first name and address	SSN matches to first name and address only– match performed using SSN Finder	Match
FY	SSN Finder Match to full name and address	Match to full name and address – match performed using SSN Finder.	Match
I	SSN is incorrect length	SSN not 9 digits or 4 digits.	Validation failed, match not performed

Consumer ID (SSN) Result Codes (CONT'D)

Code	Definition	Explanation	Match Summary
M	SSN is missing; no match found using name/address search	SSN not supplied on search request. Header file searched by name/address and no match was found.	No match
N	No match to name or address using SSN search	SSN does not match the supplied name or address.	No match
NI	SSN not issued	SSN not opened for issue per SSA.	Validation failed, match not performed
NA	Data not available	No information available.	Match not performed
P	Match to previous address only	SSN matches previous address only.	Match
SA	Match to surname and address (using SSN)	SSN matches to last name and address only.	Match
V	Valid SSN - Name match not available.	SSN is valid and issued, not deceased. No name match is available.	Match not performed
Y	Match to full name only (using SSN)	SSN matches to first name and last name only.	Match
YA	Match to full name and address - Match performed using SSN	Match to full name and address.	Match
YB	Match to full name and address - Match performed using name and address	Used only when SSN not supplied on inquiry. Input name and address match file name and address.	Match
PY	Match to full name and previous address.	SSN Matches to first name, last name, and a previous address.	Match
SP	Match to surname and previous address	SSN Matches to last name and a previous address.	Match
S	Match to surname only	SSN Matches to last name only.	Match

Date of Birth Result Codes

Code	Definition	Explanation	Match Summary
1	Match	Full DOB available and matched input (within 1 year plus/minus if month/day exact).	Match
2	Partial match	YOB only matches (within 1 year plus/minus).	Match
3	No match	Input DOB does not match on file DOB.	No match
4	Not on file	DOB or YOB information not available for this consumer (consumer is on file).	Match not performed
5	SSN not on file; search cannot be done	Consumer not on file – no record.	Match not performed
6	DOB not provided on inquiry	DOB not on input.	Match not performed
7	Invalid date format	Date format is invalid.	Match not performed
8	Year only exact match	YOB only exact matches (no plus/minus 1 year allowance)	Match
9	Day, month, and year exact match	Full DOB available and exact matched input (no plus/minus 1 year allowance)	Match
A	Month exact match, year match +/- 1 year	MOB exact match, YOB match (within 1 year plus/minus)	Match
B	Month and year exact match	MOB and YOB exact match (no plus/minus 1 year allowance)	Match
C	Day of Birth and Month of Birth exact match, Year of Birth +/- 10 years exactly	Day of Birth and Month of Birth exact match, Year of Birth +/- 10 years exactly	Match
D	Month of Birth exact match, Year of Birth +/- 10 years exactly	Month of Birth exact match, Year of Birth +/- 10 years exactly	Match
E	Day & month exact match, year not match	Day, MOB exact match, YOB no match	Match

Fraud Shield Results

Each fraud shield returns either 'Y' indicating the fraud shield was triggered or 'N' if the fraud shield was not triggered. The table below defines the triggered state of each fraud shield.

Fraud Shield	Description
Fraud Shield 01	Inquiry/Online current address conflict
Fraud Shield 02	Inquiry address first reported < 90 days
Fraud Shield 03	Inquiry current address not on-file
Fraud Shield 04	Input SSN issue date cannot be verified
Fraud Shield 05	Input SSN recorded as deceased
Fraud Shield 06	Inquiry age younger than SSN issue date
Fraud Shield 07	Credit established before age 18
Fraud Shield 08	Credit established prior to SSN issue date
Fraud Shield 09	More than 3 inquires in last 30 days
Fraud Shield 10	Type of high risk address
Fraud Shield 11	Non-residential address
Fraud Shield 13	High probability SSN belongs to another person
Fraud Shield 14	Input SSN invalid
Fraud Shield 15	Address reported cautious
Fraud Shield 16	Type of high risk address
Fraud Shield 17	Non-residential address
Fraud Shield 18	Reported cautious
Fraud Shield 19	Current address reported by new trade only
Fraud Shield 20	Current address reported by trade open <90 days
Fraud Shield 21	Telephone number inconsistent with address
Fraud Shield 25	Best on-file SSN recorded as deceased
Fraud Shield 26	Best on-file SSN issue data cannot be verified
Fraud Shield 27	SSN Reported more frequently for another person

Exclusion Conditions

Code	Summary	Description
9001	Consumer reported as deceased	The consumer is reported as deceased.
9012	Consumer/Victim Statement on-file	A Consumer/Victim Statement has been placed on the consumer's credit file.
9013	Blocked or Frozen credit file	The consumer's credit file has been blocked or frozen.
9017	Consumer is a Nevada resident	The consumer is a resident of the state of Nevada.

Shared Application Result Codes

Code	Summary	Description
1004	Non-Residential Current Address	The home address provided in the current application is a business address.
1005	Current Address is High-Risk	The home address provided in the current application is a business address having potential for fraudulent activity.
1006	Fraud Shield Cautious Address Found – Incoming Address	Fraud had been perpetrated at the address provided in the current application.
1007	Fraud Shield Cautious Address Found – On File Address	Fraud has been perpetrated at one of the addresses associated with the current application's Credit Profile.
1008	High Risk Address On File	One of the addresses in the current application's Credit Profile is a business address having a potential for fraudulent activity.
1009	Non-Residential Address On File	One of the addresses in the current application's Credit Profile is a business.
1010	Incoming Address First Reported Within 90 Days	The current address provided in the current application was first reported within the last 90 days.
1201	Combined Time at Address Exceeds Applicant's Age	The time at all addresses provided in the current application is greater than the applicant's age provided in the current application.
1402 / 1452	Adjusted Time at Current Address Mismatched	The incoming application shows that the applicant has lived in the current address longer than the time implied by a past application (6 – 120 month tolerance allowed based on length of time).
1403 / 1453	Previous Address Mismatched	The incoming application omits a previous address that is present on a past application.
1404 / 1454	Time at Previous Address Mismatched	The incoming application shows that the applicant has lived in the previous address longer than the time implied by a past application (6 – 120 month tolerance allowed based on length of time).
1406 / 1456	Accommodation Type Mismatched	The current address provided in the current application is equal to the matched application current address AND the current application accommodation type is unequal to the matched application accommodation type (owns, rents, lives with parents, others).
1413 / 1463	Impersonation – Time at Current Address	The incoming application shows that the applicant has lived in the current address for a shorter period than the time implied by a past application (6 – 120 month tolerance allowed based on length of time).
1414 / 1464	Impersonation – Time at Previous Address	The incoming application shows that the applicant has lived in the previous address for a shorter period than the time implied by a past application (6 – 120 month tolerance allowed based on length of time).
1417 / 1467	Historic Address Identified	The current address provided in the current application is not equal to the matched application current address AND the current application previous address is not equal to the matched application previous address. OR The current address provided in the current application is not equal to the matched application current address AND the matched application contains a previous address, which the current application omits.
1423/1473	Inconsistent Time at Address Cross Check	The incoming application contains a previous address that is equal to the current address of a past matched application, but the time at that address is not consistent with what is implied in the past application (6 – 120 month tolerance allowed based on length of time).

Shared Application Result Codes (CONT'D)

Code	Summary	Description
1424 / 1474	Inconsistent Move Date	The incoming application contains a previous address that is equal to the current address of a past matched application, but the implied move date to that address is not consistent with the implied move date in the past application (6 – 120 month tolerance allowed based on length of time).
1602	Adjusted Time at Current Address	The incoming application shows that the applicant has lived in the current address longer than the time implied by a past application (6 – 20 month tolerance allowed based on length of time).
1603	Previous Address Mismatched	The incoming application omits a previous address that is present on a past application.
1604	Time at Previous Address Mismatched	The incoming application shows that the applicant has lived in the previous address longer than the time implied by a past application (6 – 120 month tolerance allowed based on length of time).
1606	Accommodation Type Mismatched	The current address provided in the current application is equal to the matched application current address AND the current application accommodation type is unequal to the matched application accommodation type (owns, rents, lives with parents, others).
1613	Impersonation – Time at Current Address	The incoming application shows that the applicant has lived in the current address for a shorter period than the time implied by a past application (6 – 120 month tolerance allowed based on length of time).
1614	Impersonation – Time at Previous Address	The incoming application shows that the applicant has lived in the previous address for a shorter period than the time implied by a past application (6 – 120 month tolerance allowed based on length of time).
1617	Historic Address Identified	The current address provided in the current application is not equal to the matched application current address AND the current application previous address is not equal to the matched application previous address. OR The current address provided in the current application is not equal to the matched application current address AND the matched application contains a previous address, which the current application omits.
1623	Inconsistent Time at Address Cross Check	The incoming application contains a previous address that is equal to the current address of a past matched application, but the time at that address is not consistent with what is implied in the past application (6 – 120 month tolerance allowed based on length of time).
1624	Inconsistent Move Date	The incoming application contains a previous address that is equal to the current address of a past matched application, but the implied move date to that address is not consistent with the implied move date in the past application (6 – 120 month tolerance allowed based on length of time).
2801 / 2851	Same Address Connection	The current address provided in the current application is equal to the connected application current address AND the current application applicant name is not equal to the connected application applicant name.
3201	Incoming Application Omits Best Address on File	The “best address” per the Credit Profile is not present on the current application.
3202	Incoming Previous Address is Best Address On File	The “best address” per the Credit Profile is equal to the previous address on the current application.
3203	No Trace of Address	The current address provided in the current application does not match an address On file has for this applicant.
3204	Best address on credit profile does not match the current address specified on inquiry	

Shared Application Result Codes (CONT'D)

Code	Summary	Description
3401	Additional Addresses (0 – 1)	Any of the three Credit Profile addresses are missing from the current application and the Credit Profile address was 1st reported less than 1 year ago.
3402	Additional Addresses (1 – 2)	Any of the three Credit Profile addresses are missing from the current application and the Credit Profile address was 1st reported between 1 and 2 years ago.
3403	Additional Addresses (2 – 3)	Any of the three Credit Profile addresses are missing from the current application and the Credit Profile address was 1st reported between 2 and 3 years ago.
3404	Additional Addresses (3 – 4)	Any of the three Credit Profile addresses are missing from the current application and the Credit Profile address was 1st reported between 3 and 4 years ago.
3405	Additional Addresses (4 – 5)	Any of the three Credit Profile addresses are missing from the current application and the Credit Profile address was 1st reported between 4 and 5 years ago.
3406	Additional Addresses (5 – 6)	Any of the three Credit Profiles addresses are missing from the current application and the Credit Profile address was 1st reported between 5 and 6 years ago.
1001	Home Telephone Number Conflicts with Zip Code	The home telephone number provided in the current application does not correlate to the current address provided in the current application.
1203	Home Telephone Number is Invalid	The home telephone provided in the current application had an invalid exchange and area code combination.
1204	Home Telephone Number is Cellular or other Special	The home telephone number provided in the current application is a cellular number or defined as special.
1207	Self-Employed with no Home Telephone	The current application states the applicant is self employed but does not include a home telephone number.
1208	Not Self-Employed but Same Home and Work Telephone	The current application states the applicant is not self employed but the home and work number on the current application is the same.
1209	Work Telephone Number is Unused or Reserved	The work telephone number provided in the current application is reported as expired or is not yet connected for use.
1407 / 1457	Home Telephone Number Mismatched	The current address provided in the current application is equal to the matched application current address AND the current application home telephone number is not 'special' AND does not equal the matched application updated home telephone number.
1410 / 1460	Work Telephone Number Mismatched	The work telephone number provided in the current application is not 'special' AND it is not equal to the matched application updated work telephone number.
1607	Home Telephone Number Mismatched	The current address provided in the current application is equal to the matched application current address AND the current application home telephone number is not 'special' AND does not equal the matched application updated home telephone number.
1610	Work Telephone Number Mismatched	The work telephone number provided in the current application is not 'special' AND it is not equal to the matched application updated work telephone number.
1801 / 1851	Same Person Home Telephone Connection	The home telephone number from the incoming application is equal to a past application's update home telephone number where the past application is for the same person as the incoming application AND The current and previous address provided in the current application is not equal to the connected application current address.

Shared Application Result Codes (CONT'D)

Code	Summary	Description
1802 / 1852	Other Person Home Telephone Connection	The home telephone number from the incoming application is equal to a past application's update home telephone number where the past application is for a different person as the incoming application AND The current and previous address provided in the current application is not equal to the connected application current address.
1803 / 1853	Multiple Same Person Home Telephone Connections	This rule will trigger if Rule 1801/1851: Same Person Home Telephone Connection is triggered by more than one connected application.
1804 / 1854	Multiple Other Person Home Telephone Connections	This rule will trigger if Rule 1802/1852: Other Person Home Telephone Connection is triggered by more than one connected application.
2201 / 2251	Same Person Work Telephone Connection	The applicant name and work telephone number provided in the current application is equal to the connected application applicant name and updated work telephone number AND The current and previous address provided in the current application is not equal to the connected application current address.
2202 / 2252	Other Person Work Telephone Connection	The work telephone number provided in the current application is equal to the connected application updated work telephone number AND The applicant name in the current application is not equal to the connected application applicant name AND the current and previous address provided in the current application is not equal to the connected application current address.
2203 / 2253	Multiple Same Person Work Telephone Connections	This rule will trigger if Rule 2201/2251: Same Person Work Telephone Connection is triggered by more than one connected application.
2204 / 2254	Multiple Other Person Work Telephone Connections	This rule will trigger if Rule 2202/2252: Other Person Work Telephone Connection is triggered by more than one connected application.
2205 / 2255	Other Person Work Phone Connection w/ Same Address	The current address and work telephone number provided in the current application is equal to the connected application current address and updated work telephone number AND The applicant name in the current application is not equal to the connected application applicant name.
3006	Telephone Number(s) not On File	
3007	Home Telephone Number Conflict	The home telephone number provided in the current application is not equal to any of the consumer's home telephone number(s) on the Credit Profile, as updated for area code splits.
3008	Shared Home Telephone Number	The number of other consumers who share the same home telephone number on the Consumer Master database is greater than 4.
1013	Driver's License Number Conflict	The driver's license number provided in the current application is not equal to the driver's license number on file.
1213	Driver's License from Previous State	The incoming application shows that the applicant has moved to a new state and has been living there for at least 9 months but kept his old state's driver's license.
1421 / 1471	Driver's License Mismatch – Same State	The driver's license state provided in the current application is equal to the driver's license state provided in the matched application AND the current application driver's license number is not equal to the matched application driver's license number. (Allow one single-digit error or one transposition of adjacent digits.)

Shared Application Result Codes (CONT'D)

Code	Summary	Description
1422 / 1472	Driver's License Mismatch – Different State	The driver's license state provided in the current application is not equal to the driver's license state provided in the matched application AND the current application driver's license number is not equal to the matched application driver's license number. (Allow one single-digit error or one transposition of adjacent digits.) AND the elapsed time between current and matched applications is under 90 days. OR The driver's license state provided in the current application is not equal to the driver's license state provided in the matched application AND the current application driver's license number is not equal to the matched application driver's license number. (Allow one single-digit error or one transposition of adjacent digits.) AND the current application current address is equal to the matched application current address.
1621	Driver's License Mismatch – Same State	The driver's license state provided in the current application is equal to the driver's license state provided in the matched application AND the current application driver's license number is not equal to the matched application driver's license number. (Allow one single-digit error or one transposition of adjacent digits.)
1622	Driver's License Mismatch – Different State	The driver's license state provided in the current application is not equal to the driver's license state provided in the matched application AND the current application driver's license number is not equal to the matched application driver's license number. (Allow one single-digit error or one transposition of adjacent digits.) AND the elapsed time between current and matched applications is under 90 days. OR The driver's license state provided in the current application is not equal to the driver's license state provided in the matched application AND the current application driver's license number is not equal to the matched application driver's license number. (Allow one single-digit error or one transposition of adjacent digits.) AND the current application current address is equal to the matched application current address.
2601 / 2651	Same Person Driver's License Number Connection	The DL number and DL state provided in the current application is equal to the connected application DL number and DL state. (DL number exact match) AND The current and previous address provided in the current application is not equal to the connected application current address. AND The applicant name in the current application is equal to the connected application applicant name.
2602 / 2652	Other Person Driver's License Number Connection	The DL number and DL state provided in the current application is equal to the connected application DL number and DL state. (DL number exact match) AND The current and previous address provided in the current application is not equal to the connected application current address. AND The applicant name in the current application is not equal to the connected application applicant name.
2603 / 2653	Multiple Same Person DL Number Connections	This rule will trigger if Rule 2601/2651: Same Person DL Number Connection is triggered by more than one connected application.
2604 / 2654	Multiple Other Person DL Number Connections	This rule will trigger if Rule 2602/2652: Other Person DL Number Connection is triggered by more than one connected application.
1002	Invalid or Non-issued Social Security Number	The social security number (SSN) provided in the current application has not been issued by the Social Security Administration (SSA) OR the SSN is not a valid number as reported by the SSA.
1003	Social Security Number Issued before Year of Birth	The social security number provided in the current application has an issue date that is less than the age of the applicant provided in the current application.

Shared Application Result Codes (CONT'D)

Code	Summary	Description
1012	High Probability SSN Belongs to Another	The social security number provided in the current application is more closely associated with another consumer.
1014	Retired Social Security Number	SSA reports that death benefits are being paid on the SSN
1015	Non-issued SSN	
1016	Best on-file SSN is retired	
1017	Best on-file SSN is not issued	
1018	SSN specified on inquiry has been reported more frequently for another	
1420 / 1470	Social Security Number Mismatch	The social security number provided in the current application is not equal to the matched application social security number.
1620	Social Security Number Mismatch	The social security number provided in the current application is not equal to the matched application social security number.
2401 / 2451	Same Person Social Security Number Connection	The applicant name and social security number provided in the current application is equal to the connected application applicant name and updated social security number (exact match) AND The current and previous address provided in the current application is not equal to the connected application current address.
2402 / 2452	Other Person Social Security Number Connection	The social security number provided in the current application is equal to the connected application social security number (exact match) AND The applicant name in the current application is not equal to the connected application applicant name AND the current and previous address provided in the current application is not equal to the connected application current address.
2403 / 2453	Multiple Same Person SSN Connections	This rule will trigger if Rule 2401/2451: Same Person SSN Connection is triggered by more than one connected application.
2404 / 2454	Multiple Other Person SSN Connections	This rule will trigger if Rule 2402/2452: Other Person SSN Connection is triggered by more than one connected application.
1401 / 1451	Date of Birth Mismatched	The current application date of birth is less than the matched application date of birth. (within a specified tolerance)
1412 / 1462	Impersonation – Age	The applicant date of birth provided in the current application is greater than the date of birth provided on the matched application.
1601	Date of Birth Mismatched	The current application date of birth is earlier than the matched application date of birth. (within a specified tolerance)
1612	Impersonation – Age	The applicant date of birth provided in the current application is greater than the date of birth provided on the matched application.
3002	Impersonation of Applicant under Age 18	The current application and Credit Profile contain date of birth AND the Credit Profile Date of Birth implies that the applicant is under age 18 AND the current application date of birth is not equal to the Credit Profile's Date of Birth. OR The current application and/or Credit Profile contain only year of birth AND the Credit Profile date of Birth implies that the applicant is under age 18 (Infer "January 1" if the Credit Profile contains only the year of birth.) AND the current application year of birth is not equal to the Credit Profile's year of birth.

Shared Application Result Codes (CONT'D)

Code	Summary	Description
3003	Inconsistent Date of Birth on File	The current application and Credit Profile contain date of birth AND the current application date of birth is less than the Credit Profile date of birth. OR The current application and/or Credit Profile contain only year of birth AND the current application year of birth is less than the Credit Profile year of birth.
3004	Impersonation – Age	The current application and Credit Profile contain date of birth AND the current application date of birth is greater than the Credit Profile date of birth. OR The current application and/or Credit Profile contain only year of birth AND the current application year of birth is greater than the Credit Profile year of birth.
1427 / 1477	Under 18 at Time of Matched Application	The age on the matched application is less than 18.
1627	Under 18 at Time of Matched Application	The age on the matched application is less than 18.
3001	Consumer Not Found	This rule will trigger if the applicant cannot be identified such that a Credit Profile cannot be generated.
3005	Consumer Statement on File	The Credit Profile contains a free form consumer statement other than a victim statement.

Email Verification Result Codes

Code	Summary	Description
T1	Match found	Match to Name associated with Email in repository
T2	Match found	Exact input Name to Username match
T3	Match found	Strong Input Name to Username Match
T4	Match found	Partial Input Name to Username Match
T5	No match found	Username to Name Mismatch or email linked to different Name in repository
T6	No match performed	Email failed validation or no input name

Email Validation Result Codes

Code	Summary	Description
I	Invalid	Email address is not valid
N	No match performed	No input or cannot be validated
V	Match found	Possible valid email address

Email Reason Result Codes

Code	Summary	Description
D	Domain Validation Failure	Domain Validation Failure – an MX record could not be located for the registered domain
N	No Failure Identified	No Failure Identified – the email had proper syntax and domain
S	Syntax Validation Failure	Syntax Validation Failure – the email address did not have the proper syntax

Email Repository Result Codes

Code	Summary	Description
N	No match found	Email address not found in repository/Unknown
Y	Match found	Email address found in repository

IP Address Verification Result Codes - City

Code	Summary	Description
1	Match to Input	IP Matches to Input City
2	No Match to Input	IP Does Not Match to Input City
3	No Data	No City Data Available
4	IP Not Available	IP Address Not Available

IP Address Verification Result Codes - State

Code	Summary	Description
1	Match to Input	IP Matches to Input State
2	No Match to Input	IP Does Not Match to Input State
3	No Data	No State Data Available
4	IP Not Available	IP Address Not Available

IP Address Verification Result Codes – Zip Code

Code	Summary	Description
1	Match to Input	IP Matches to Input Zip Code
2	No Match to Input	IP Does Not Match to Input Zip Code
3	No Data	No Zip Code Data Available
4	IP Not Available	IP Address Not Available

IP Address Verification Result Codes – Country

Code	Summary	Description
1	Match to US	IP Address Matches to US or US Territory
2	Match no US	IP Address Matches to a Foreign Country (outside of US)
3	No Data	No Country Data Available
4	IP Not Available	IP Address Not Available
5	Reserved/Private	IP Address is Classified as Reserved or Private, Unable to Retrieve Data
6	Unknown	Country Associated with IP is Unknown

Card Document Validation Result Codes

Code	Summary	Description
0	OK	The document has passed the check.
1	Fake	The document has evidence of forgery.
2	Expired	The document has expired.
E	Error	There was an unknown problem processing the document.

Card Image Parsing Result Codes

Code	Summary	Description
B	Both sides parsed	Both sides of the document were successfully parsed.
F	Front side parsed	Only the front side of the document was successfully parsed.
R	Rear side parsed	Only the rear side of the document was successfully parsed.
X	Neither side parsed	Neither side of the document was successfully parsed.
E	Error	There was an error while processing the request.

Fill Document Validation Result Codes

Code	Summary	Description
V	Valid	Successfully processed the image and the document appears valid.
I	Invalid	Document appears invalid.
E	Error	There was an unknown problem processing the ID.

Fill Document Expiration Result Codes

Code	Summary	Description
NE	Not Expired	The document has not expired.
EXP	Expired	The document has expired.
NF	Not Found	The document does not contain an Expiration Date field.
E	Error	There was an unknown problem processing the ID.

Legacy Address Verification Result Codes

Code	Definition	Explanation	Match Summary
A	Address ambiguous	Necessary elements missing from address. Multiple address matches found but input address is not specific enough to obtain single match.	Validation failed, match not performed
B	Match to business name - Residential address	Used on business searches only. Business found at address from residential file.	Match
BB	Match to business name - Business address	Used on business searches only. Business found at the supplied address.	Match
BM	Match to business name - Mixed use address	Used on business searches only. Business found in both business and residential files.	Match
E	Matching records exceed maximum defined on profile	Code not utilized.	N/A
H	House number not found on street	Street number invalid for this street. Not a deliverable address.	Validation failed,
I	Incomplete or blank address	Address not complete.	Validation failed, match not performed
N	No match to name - Residential address	Address confirmed residential. Database record indicates different consumer name at this address.	No match
NB	No match to name - Business address	Address found on business file. Consumer name not associated with address.	No match
NM	No match to name - Mixed use address	Address found in both business and residential files. Consumer name not associated with address.	No match
NS/SX	Standardization database has expired		N/A
R	Road name - City/Zip mismatch	Failed address standardization due to street name not existing in city or zipcode.	Validation failed, match not performed
S	Match to surname - Residential address	Address confirmed residential. Input last name matches (household-level match).	Match
SB	Match to surname - Business address	Address on business file. Input last name matches (household-level match).	Match
SM	Match to surname - Mixed use address	Address found in both business and residential files. Input last name matches (household-level match).	Match
T	City/State mismatch	Failed address standardization due to city not existing in state.	Validation failed, match not performed
U	Address unverifiable - Not in database	Address passed standardization, but is not in the database.	Match not performed
UR	Address residential - Name match unavailable	Address passed standardization and is found on the residential file. No record as to resident for name match.	Match not performed

Legacy Address Verification Result Codes (CONT'D)

Code	Definition	Explanation	Match Summary
Y	Match to full name - Residential address	Address confirmed residential. Input last name matches (household-level match).	Match
YB	Match to full name - Business address	Address found on business file. Input name matches.	Match
YM	Match to full name - Mixed use address	Address found in both business and residential files. Input full name matches (household-level match).	Match
Z	City/State Zip mismatch	Failed address standardization.	Validation failed, match not performed
P	Match to full name - Previous address	Address matches to previous address. Input name matches.	Match

Legacy Phone Verification Result Codes

Code	Definition	Explanation	Match Summary
A	Match to address only - Residential phone	Phone matches address.	Match
AB	Match to address only - Business phone	Phone matches address. Address found in business file.	Match
AM	Match to address only - Mixed-use phone	Phone matches address. Address found in both business and residential files.	Match
B	Match to business name and address - Residential phone	Used for business searches only. Phone is found in residential files, but matches business name on input.	Match
BB	Match to business name and address - Business phone	Used for business searches only. Phone matches business name and address.	Match
BM	Match to business name and address - Mixed use phone	Used for business searches only. Phone is found in both residential and business files. Matches business name and address.	Match
C	Probable cellular phone	Phone is classified as mobile, PCS or cellular. Based on area code/exchanges reported for cell phones	Match not performed
D	Match to business name - Residential address	Used for business searches only. Phone in residential file matches business name.	Match
DB	Match to business name -Business address	Used for business searches only. Phone matches business name only.	Match
DM	Match to business name - Mixed use phone	Used for business searches only. Phone is found in both residential and business files. Phone matches business name only.	Match
E	Matching records exceed maximum defined in profile	Code not utilized.	N/A
F	Match to full name only -Residential phone	Phone matches full name.	Match

Legacy Phone Verification Result Codes (CONT'D)

Code	Definition	Explanation	Match Summary
FB	Match to full name only -Business phone	Phone matches full name. Phone was found in business file.	Match
FM	Match to full name only - Mixed-use phone	Phone matches full name. Phone was found in both business and residential files.	Match
H	Match to surname and address - Residential phone	Phone matches last name and address (household-level match).	Match
HB	Match to surname and address - Business phone	Phone matches last name and address (household-level match). Phone was found in business file.	Match
HM	Match to surname and address - Mixed-use phone	Phone was found in both business and residential files. Phone matches last name and address (household-level match).	Match
I	Phone is incorrect length	Phone is not 10 digits.	Validation failed, match not performed
IA	Invalid area code	Area code is invalid.	Validation failed, match not performed
M	Phone Missing - Search information not received	Phone not supplied on search request.	Match not performed.
MA	Match to header data	Phone matched to header information	Match
N	No match to name or address - Residential phone	Phone does not match input name or address.	No match
NA	Data not available	Code not utilized.	N/A
NB	No match to name or address - Business phone	Phone found in business file but does not match input name or address.	No match
NM	No match to name or address - Mixed-use phone	Phone was found in both business and residential files. No match to input name or address.	No match
P	Probable pager	Phone is classified as a pager. Based on area code/exchanges reported for pagers.	Match not performed.
S	Match to surname only - Residential phone	Phone matches input last name only.	Match
SB	Match to surname only - Business phone	Phone matches input last name only and found on business file.	Match
SM	Match to surname only - Mixed-use phone	Phone was found in both business and residential files. Phone matches last name only.	Match
U	Phone unverifiable - Not in database	Phone valid and consistent with address. Phone not in database for name/address verification, primarily due to being unlisted.	Match not performed.

Legacy Phone Verification Result Codes (CONT'D)

Code	Definition	Explanation	Match Summary
X	Prefix-Zip mismatch	Phone does not match the address.	Validation failed, match not performed
Y	Match to full name and address - Residential phone	Phone matches input name and address.	Match
YB	Match to full name and address - Business phone	Phone matches input name and address, but found in business file.	Match
YM	Match to full name and address - Mixed-use phone	Phone was found in both business and residential files. Phone matches input name and address.	Match

Appendix B: AssureCanada Match Codes

Address Result Codes

Code	Description	Value
AA_BD999	Is address affiliated with date of birth?	Boolean
AA_FN999	Is address affiliated with full name?	Boolean
AA_GI999	Is address affiliated with government ID?	Boolean
AA_LN999	Is address affiliated with family name?	Boolean
AA_OV999	Is address affiliated with any other PII element?	Boolean
AI_OT_S001	Is address valid?	Boolean
AI_OV_S007	Is address associated with fraud records?	Boolean
AT_AA_S001	Address risk score	0-100
AT_AA_S002	Is address affiliated with input PII?	Boolean
AT_ATRC001	Is address trusted?	Boolean
AV_AV_S001	Is address verified?	Boolean

Credit File Result Codes

Code	Description	Value
CFI_ANM_CA	Request address does not match current address in database	Boolean
CFI_ANM_F1	Request address does not match former address 1 in database	Boolean
CFI_ANM_F2	Request address does not match former address 2 in database	Boolean
CFI_CFA_01	Age of credit file is less than six months	Boolean
CFI_CFA_02	Age of credit file is six months or greater	Boolean
CFI_CFA_03	Age of credit file is less than three years	Boolean
CFI_CFA_04	Age of credit file is three years or greater	Boolean
CFI_CFH_00	Unable to confirm credit file history	Boolean
CFI_CFH_01	Credit file history is less than six months	Boolean
CFI_CFH_02	Credit file history is equal to or greater than six months	Boolean
CFI_CFL_00	No credit file located or poor match score	Boolean
CFI_CFL_01	Credit file located - Good match	Boolean
CFI_CFL_02	Credit file located - Adequate match	Boolean
CFI_CFL_03	Credit file located - Possible match	Boolean
CFI_COT_02	Credit file has more than 2 open trades	Boolean
CFI_DOB_00	Request age does not match the calculated age on the credit file	Boolean
CFI_DOB_01	Request age matches the calculated age on the credit file	Boolean
CFI_DOB_18	Calculated age on the credit file is 18 or greater	Boolean
CFI_DOB_19	Calculated age on the credit file is 19 or greater	Boolean

CFI_DOB_21	Calculated age on the credit file is 21 or greater	Boolean
CFI_DOB_NP	Date of birth is not present on the credit file	Boolean
CFI_NCA_30	Current address is new within 30 days on the credit file	Boolean
CFI_NNV_FN	First name not validated	Boolean
CFI_NNV_LN	Last name not validated	Boolean
CFI_NPR_00	No phone record located or poor match score	Boolean
CFI_SIN_MM	Social Insurance Number mismatch	Boolean
CFI_SIN_NV	Social Insurance Number is not valid	Boolean
CFI_WID_LS	Wallet or identification is lost or stolen	Boolean
CFI_WRN_IF	WARNING: Request-only file	Boolean
CFI_WRN_NF	WARNING: Age of credit file is under one month	Boolean
CFI_WRN_SI	WARNING: Request Social Insurance Number has not yet been issued	Boolean
CFI_WRN_SM	WARNING: Request Social Insurance Number has been reported misused. Thorough verification suggested	Boolean
CFI_WRN_TF	WARNING: Thin file	Boolean
CFI_WRN_TS	WARNING: Temporary SIN	Boolean

Name Result Codes

Code	Description	Value
NA_AF999	Is full name affiliated with address?	Boolean
NA_FN999	Is full name affiliated with date of birth?	Boolean
NA_GV999	Is full name affiliated with government ID?	Boolean
NA_LN999	Is family name affiliated with date of birth?	Boolean
NA_OV999	Is full name affiliated with any other PII element?	Boolean

Fraud Insight Result Codes

Code	Description	Value
FVI_FV_S001	Is fraud victim warning present and information blocked due to identity theft?	Boolean
FVI_FV_S005	Is fraud victim alert present?	Boolean
FVI_OV_S001	Fraud risk level	"H", "M", or "L"

Date of Birth Result Codes

Code	Description	Value
DOBA_AA999	Is date of birth affiliated with address?	Boolean
DOBA_FN999	Is date of birth affiliated with full name?	Boolean
DOBA_GI999	Is date of birth affiliated with government ID?	Boolean
DOBA_OV999	Is date of birth affiliated with any other PII element?	Boolean

Deceased Result Codes

Code	Description	Value
DE_IM_S001	Is the individual deceased?	Boolean

Appendix C: AssureWatch Match Codes

AssureWatch Field-Level Result Codes

The below match codes indicate the possible results for the submitted ID Number, Name, Address, and/or Date of Birth.

Name results include FirstName, MiddleName, and LastName for individuals, or just EntityName for entities.

Address results include Street, City, State, Province, ZipCode, and CountryCode.

Code	Definition	Explanation	Match Summary
E	Exact Match	Exact match to the submitted value	Match
R	Reverse Exact Match	Exact match when the submitted value is reversed. For example, when last name and first name are reversed.	Match
P	Partial Match	Submitted value matches part of the value on record. For example, the year of submitted date of birth matches the year of a date of birth on record.	Partial Match
S	Similar Match	Submitted value is similar to the value on record. For example, "John Test" will be similar to "Jon Test".	Similar Match
N	No Match	No match found between submitted value and values on the record.	No Match
NF	Not on File	No records found for this field. For example, a "John Test" was found that matched to the submitted name, but no dates of birth are on file for that record.	No Match
NS	Not Submitted	This field was not submitted in the request.	No Match

Appendix D: AssureFinCEN Match Codes

AssureFinCEN Validation Result Codes

Code	Definition	Explanation	Match Summary
FA	Match to full name and address	Inquiry full name and address matches name and address on FinCEN list.	Match
FP	Match to full name and partial address	Inquiry full name matches name on FinCEN list. Address partially matches address on file.	Match
F	Match to full name	Inquiry full name matches name on FinCEN list.	Match
RA	Match to name when input is reversed and full address	Inquiry full name matches name on FinCEN list when inquiry name is reversed. Address matches FinCEN list exactly.	Match
RP	Match to name when input is reversed and partial address	Inquiry full name matches name on FinCEN list when inquiry name is reversed. Address matches partially.	Match
R	Match to name when input is reversed	Inquiry full name matches name on FinCEN list when inquiry name is reversed.	Match
PA	Wildcard match to name and full address.	Inquiry name matches name on FinCEN list partially using a wildcard search. Address matches FinCEN list exactly.	Match
PP	Wildcard match to name and partial address	Inquiry name matches name on FinCEN list partially using a wildcard search. Address matches partially.	Match
P	Wildcard match to name	Inquiry name matches name on FinCEN list partially using a wildcard search.	Match
SA	Match to similar name and full address	Inquiry name matches name on FinCEN list using a similarity search. Address matches exactly.	Match
SP	Match to similar name and partial address	Inquiry name matches name on FinCEN list using a similarity search. Address matches partially.	Match
S	Match to similar name	Inquiry name matches name on FinCEN list using a similarity search.	Match
IA	Match to first initial, surname, and full address	Inquiry first initial and surname matches name on FinCEN list. Surname and address matches exactly.	Match
IP	Match to first initial, surname, and full address	Inquiry first initial and surname matches name on FinCEN list. Surname and address matches exactly.	Match
I	Match to first initial and surname	Inquiry first initial surname matches name on FinCEN list. Surname matches exactly.	Match
N	No match to name or address	Inquiry name not on FinCEN list.	No match

Appendix E: AssureAMS Match Codes

AssureAMS Match Found Codes

Code	Definition	Explanation	Match Summary
M	Matches Found	Matching profiles were found for the entered data.	Match
N	No Matches Found	No matching profiles were found for the entered data.	No match

AssureAMS Type Categories

Code	Description
ABU	Abuse (Domestic, Elder, Child)
ARS	Arson
AST	Assault, Battery
BRB	Bribery, Graft, Kickbacks, Political Corruption
BUR	Burglary
BUS	Business Crimes (Antitrust, Bankruptcy, Price Fixing)
CFT	Counterfeiting, Forgery
CON	Conspiracy (No specific crime named)
CPR	Copyright Infringement (Intellectual Property, Electronic Piracy)
CYB	Computer Related, Cyber Crime
DEN	Denied Entity
DPS	Possession of Drugs or Drug Paraphernalia
DTF	Trafficking or Distribution of Drugs
ENV	Environmental Crimes (Poaching, Illegal Logging, Animal Cruelty)
FAR	Foreign Agent Registration Act
FOF	Former OFAC
FOR	Forfeiture
FOS	Former Sanctions List
FRD	Fraud, Scams, Swindles
FUG	Escape, Fugitive
GAM	Illegal Gambling
HUM	Human rights, Genocide, War crimes
IGN	Possession or Sale of Guns, Weapons and Explosives
IMP	Identity Theft, Impersonation
IPR	Illegal Prostitution, Promoting Illegal Prostitution
IRC	Iran Connect
KID	Kidnapping, Abduction, Held Against Will
LMD	Legal Marijuana Dispensary

LNS	Loan Sharking, Usury, Predatory Lending
MIS	Misconduct
MLA	Money Laundering
MOR	Mortgage Related
MSB	Money Services Business
MUR	Murder, Manslaughter (Committed, Planned or Attempted)
NSC	Non Specific Crime
OBS	Obscenity Related, Child Pornography
ORG	Organized Crime, Criminal Association, Racketeering
PEP	Person Political
PRJ	False Filings, False Statements, Perjury, Obstruction of Justice
PSP	Possession of Stolen Property
REG	Regulatory Action
RES	Real Estate Actions
ROB	Robbery (Stealing by Threat, Use of Force)
SEC	SEC Violations (Insider Trading, Securities Fraud)
SEX	Sex Offenses (Rape, Sodomy, Sexual Abuse, Pedophilia)
SMG	Smuggling (Does not include Drugs, Money, People or Guns)
SNX	Sanctions Connect
SPY	Espionage, Spying, Treason
TAX	Tax Related Offenses
TER	Terrorist Related
TFT	Theft (Larceny, Misappropriation, Embezzlement, Extortion)
TRF	People Trafficking, Organ Trafficking
VCY	Virtual Currency
WLT	Watch List

AssureAMS SubType Categories

Code	Description
ACC	Accuse
ACQ	Acquit, Not Guilty
ACT	Disciplinary, Regulatory Action
ADT	Audit
ALL	Allege
APL	Appeal
ARB	Arbitration
ARN	Arraign
ART	Arrest
ASC	Associated with, Seen with
CEN	Censure
CHG	Charged
CMP	Complaint Filed
CNF	Confession
CSP	Conspire
CVT	Convict, Conviction
DEP	Deported
DMS	Dismissed
EXP	Expelled
FIL	Fine – Less than \$10,000
FIM	Fine – More than \$10,000
GOV	Government Official
IND	Indict, Indictment
LIN	Lien
PLE	Plea
PRB	Probe
RVK	Revoked Registration
SAN	Sanction
SET	Settlement of Suit
SEZ	Seizure
SJT	Served Jail Time
SPD	Suspended
SPT	Suspected
TRL	Trial
WTD	Wanted

Appendix F: PEP Match Codes

PEP Match Result Codes

Code	Definition	Explanation	Match Summary
M	Matches Found	Matching profiles were found for the entered data.	Match
N	No Matches Found	No matching profiles were found for the entered data.	No match

PEP Risk Types

Code	Description
HOS	Head of State
CAB	Cabinet or Government Agency Head
AMB	Ambassador
MIL	Senior Official in Military Branch
JUD	Senior Official in Judicial Branch
POL	Senior Official of Political Party
GCO	Senior Executive or Influential Functionary in a Government Owned Enterprise
IGO	International Governmental Organization Official
NIO	Senior Official In Non-Infrastructure Division or Agency
MUN	Municipal Level Employee
REG	Regional Official
LEG	Senior Official in Legislative Branch
ISO	International Sporting Official
INF	Senior Official In Government Infrastructure Division or Agency
FAM	Family
ASC	Associate

Appendix G: AssurePay Match Codes

AssurePay Attribute Match Codes

Code	Description
E	Exact match
C	Close match
P	Partial match
N	No match
M	Missing attribute
NF	Card not found

Appendix H: AssureLocate Match Codes

AssureLocate VPN Probability Result Codes

Code	Summary	Description
L	Low VPN Probability	Distance indicates low probability of VPN usage
M	Medium VPN Probability	Distance indicates medium probability of VPN usage
H	High VPN Probability	Distance indicates high probability of VPN usage