



Informatica™

Informatica® Global Phone Validation
2.0

Global Phone Validation Guide

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Publication Date: 2022-02-03

Table of Contents

- Preface 5**

- Chapter 1: Using Global Phone Validation..... 6**
- Introduction to Global Phone Validation. 6
- Required License Information. 7
- Available Operations. 8
- ValidateNumber. 8
- ValidateNumberBatch. 12
- ValidateNumberCountry. 13
- ValidateNumberCountryBatch. 14
- SetDefaultCountry. 15
- RemoveDefaultCountry. 15
- GetAllCountries. 15
- GetCountryInfo. 16
- GetStatusCodesForMethod. 17
- GetStatusCodes. 17
- GetServiceInfo. 18
- GetRemainingHits. 18

Preface

Global Phone Validation is a data validation and enrichment service for telephone numbers in over 200 countries. This guide describes the operations of the Global Phone Validation application from Informatica.

CHAPTER 1

Using Global Phone Validation

This chapter includes the following topics:

- [Introduction to Global Phone Validation, 6](#)
- [Required License Information, 7](#)
- [Available Operations, 8](#)
- [ValidateNumber, 8](#)
- [ValidateNumberBatch, 12](#)
- [ValidateNumberCountry, 13](#)
- [ValidateNumberCountryBatch, 14](#)
- [SetDefaultCountry, 15](#)
- [RemoveDefaultCountry, 15](#)
- [GetAllCountries, 15](#)
- [GetCountryInfo, 16](#)
- [GetStatusCodesForMethod, 17](#)
- [GetStatusCodes, 17](#)
- [GetServiceInfo, 18](#)
- [GetRemainingHits, 18](#)

Introduction to Global Phone Validation

Global Phone Validation is a data validation and enrichment service for telephone numbers throughout the world.

Global Phone Validation delivers the following benefits:

- Phone number validation in over 200 countries and territories in close to real time.
- Identification of phone numbers as landline, mobile, VoIP, or freephone.
- Latitude and longitude coordinates for each phone number.
- Identification of the phone number carrier.

SOAP URLs

Use the following URLs to connect to the Global Phone Validation SOAP interface:

<https://ws.strikeiron.com/GlobalPhoneVal20?WSDL>

<https://eu-ws.informaticadaas.com/GlobalPhoneVal20?WSDL>

REST URLs

Use the following URLs to perform Global Phone Validation operations through a REST interfaces:

<https://ws.strikeiron.com/StrikeIron/GlobalPhoneVal20/GlobalPhoneValidation20/<operation>>

<https://eu-ws.informaticadaas.com/GlobalPhoneVal20/GlobalPhoneValidation20/<operation>>

To call an operation, replace the <operation> placeholder in the URL with the operation name.

Note: Global Phone Validation 2.0 requires SSL (Secure Sockets Layer) endpoints.

Required License Information

The LicenseInfo parameter in the web services provides the authentication credentials to allow a user to invoke the web service.

If your Informatica DaaS account has a single product license key, you can enter the user ID and password for your account to invoke the web service. Or, you can enter the license key that you obtained from Informatica with a blank password field.

If your Informatica DaaS account has multiple product license keys, enter a license key with a blank password field to invoke the web service.

When you run an operation, you retrieve the license information for the account credentials or for the license key that you provided.

The following table describes the output for the license subscription information:

| Field Name | Description | Sample Code |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| LicenseStatusCode | Returns a numeric code indicating the Informatica DaaS license action taken as a result of invoking this operation from the user credentials used for input. Valid license codes are 0, 1, and 2. For example, a valid User ID and Password returns the code 0 with a corresponding LicenseStatus value of <i>Valid license key</i> . | 0 |
| LicenseStatus | Returns the status of the Informatica DaaS User ID and Password corresponding to the LicenseStatusCode. | Valid license key |
| LicenseActionCode | Returns a numeric code indicating the Informatica DaaS license action taken as a result of invoking this operation. | 0 |
| LicenseAction | Returns the license action taken as a result of invoking this operation. | Decrement hit count |

| Field Name | Description | Sample Code |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| RemainingHits | Returns the number of hits, or discrete calls to the Informatica DaaS validation interface, that remain available to the current product license. The RemainingHits value indicates the number of hits that remain available to the license after the current operation is complete. | 2 |
| Amount | Returns the number of hits that the operation consumes. The number of hits that the operation consumes depends on the type of operation. Operations that validate telephone numbers consume one hit for every telephone number that you submit. Other operations do not delete hits from the account. | 0 |

Available Operations

The following operations are available in Global Phone Validation:

- ValidateNumber
- ValidateNumberBatch
- ValidateNumberCountry
- ValidateNumberCountryBatch
- SetDefaultCountry
- RemoveDefaultCountry
- GetAllCountries
- GetCountryInfo
- GetStatusCodesForMethod
- GetStatusCodes
- GetServiceInfo
- GetRemainingHits

ValidateNumber

Validates a telephone number.

The ValidateNumber operation deducts a single hit from the current product license.

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

The following table describes the input fields:

| Field | Description | Sample Input |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| PhoneNumber | <p>A single phone number. The phone number must include the country code unless a default has been specified by SetDefaultCountry.</p> <p>Note: Country codes must follow the conventions defined in article E.164 of the Telecommunication Standardization sector of the International Telecommunications Union (ITU-T).</p> | 1-919-467-4545 |

ValidateNumberResult Output

There will be a single GlobalPhoneEntryWithStatus node for each phone number included in the ValidateNumber input.

The following table describes the ValidateNumberResult output fields:

| Field | Description | Sample Output |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Number | The number passed in without any decoration. | 19194674545 |
| CountryCode | <p>A combination of one, two, or three digits that identify a single country, countries in an integrated numbering plan, or a specific geographic area.</p> <p>Commonly referred to as an International Dialing code, this code must follow the ITU-T article E.164 conventions.</p> | 1 |
| InternationalPrefix | The digit or combination of digits that must be dialed before a country code when dialing a call to a country other than the country from which the call is placed. | 00 |
| NationalPrefix | The digit or combination of digits which must be dialed before an area (city) code when dialing a call to a subscriber from inside their own country but outside their own numbering area. | 1 |
| CellPrefix | Dialing prefix that must prepend the National Significant Number for inbound international calls to cellular or wireless numbers. This prefix appears between the international Country Code and the National Destination Code in normal dialing procedures. Not all countries have a cell prefix. | 9 |
| NDC | <p>National Destination Code or the significant leading digits of a national (significant) number.</p> <p>The NDC is a set of one or more digits (not including any prefix) that identify a numbering area within a country, or within a group of countries included in an integrated numbering plan or specific geographic area, or within a network. For example, a cellphone number prefix within a country or region that uses an integrated numbering plan is an NDC.</p> <p>Commonly referred to as an International City Code or (Numbering Plan) Area Code, the NDC is a nationally optional code field that, when combined with the Subscriber's Number (SN), will constitute the national (significant) number of the international E.164-number for geographic areas.</p> | 919 |

| Field | Description | Sample Output |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| SN_From | Subscriber's Number (SN) beginning range (low range) in a given block assignment. In many numbering plans, the subscriber number contains significant leading digits that (in addition to the NDC) further define the local exchange area and/or service. For example, in the North American Numbering Plan, the first three digits of the subscriber number are known as the Central Office Code or telephone exchange prefix, and they identify the local (city) level service area. | 4670000 |
| SN_To | Subscriber's Number (SN) ending range (high range) in a given block assignment. | 4679999 |
| Uses_NDC | True/false field indicating whether a value specified in an NDC field is a National Destination Code (area code). If false, NDCs are not used in the country's telephone numbering system. However, the leading digits of a number can be used to determine number use and possible geographic information. | false |
| Number_Type | Type of service associated with the particular telephone exchange or number. Possible values are: - LandLine - VoIP - Mobile - Freephone - Special - Contaminated | LandLine |
| CarrierName | Name of the primary telecom carrier or service provider name that the numbering block is assigned to. Global Phone Validation does not track the change in CarrierName for phone numbers that are ported from one carrier to another. The CarrierName will always be the initial carrier of this number. | BELLSOUTH SO BELL |
| Language | ISO 639 code identifying the predominant language within the service area or territory. | en |
| Country | ISO 3166-1 three-digit country code. | 840 |
| ISO | ISO 3166-1 alpha 2 country code. | US |
| RegionCode | Postal abbreviation or code of the state, province, department, territory, or similar division within the country associated with the National Destination Code, if any. If a standard national abbreviation does not exist for the region, the value will be that specified in the International Standard ISO 3166-2:2007 codes for the representation of names of countries and their subdivisions. | NC |
| RegionName | Common name of the state, province, department, territory, or similar division, if any, identified by the National Destination Code and/or National (Significant) Number. When present, RegionName agrees with those values specified in the International Standard ISO 3166-2:2007 codes for the representation of names of countries and their subdivisions. | North Carolina |

| Field | Description | Sample Output |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| City | Name of the geographic area, locale, city, municipality, or service type identified by the national (significant) number. | Cary |
| TimeZone | The time zone that the service area is located in, as specified by the Olson Time Zone Database time zone ID. | America/New_York |
| UTC | The time zone specified as a Coordinated Universal Time (UTC) offset. The format is +/-hh:mm. | -05:00 |
| DST | True/false flag indicating whether daylight savings time is recognized in this time zone. | true |
| Latitude | Latitude in decimal degree format of the locale, city, municipality, or other geographically identifiable service area of the exchange. | 35.79088408635926 |
| Longitude | Longitude in decimal degree format of the locale, city, municipality, or other geographically identifiable service area of the exchange. | -78.78051611169455 |
| ErrorCode | A short text description of the result for the number. Similar to ItemStatus. Possible values are: - NoError - NotFound - NDCNotFound - InvalidCountryCode - InvalidNumber | NoError |
| NationalFormat | The format of the phone number (including decorations) used inside the country of origin. | (919) 467-4545 |
| InternationalFormat | The format of the phone number (including decorations) in the standard international format. | +1 919-467-4545 |
| E164Format | The phone number formatted to the E.164 ITU-T conventions. | +19194674545 |
| LinkFormat | The phone number in the RFC3966 format for use in hyperlinks. | tel:+1-919-467-4545 |
| Ported | Indicates if a number was ported from a land line to a mobile network or the other way around. Applies to United States numbers only. The possible values are: - MobileToLandLine - LandLineToMobile - NotChecked - NotPorted If no value is present, Global Phone Validation did not check the number. | MobileToLandLine |

ItemStatus Output

The following table describes the ItemStatus output fields:

| StatusNbr | StatusDescription |
|-----------|------------------------|
| 201 | Valid Number |
| 301 | Number Not Found |
| 302 | NDC Not Found |
| 303 | Country Code Not Found |
| 401 | Number Is Not Valid |
| 500 | Internal Error |

ServiceStatus Output

The following table describes the ServiceStatus output fields:

| StatusNbr | StatusDescription |
|-----------|-------------------|
| 200 | Successful |
| 300 | Unsuccessful |
| 500 | Internal Error |

ValidateNumberBatch

Validates a list of telephone numbers.

The ValidateNumberBatch operation deducts a hit from the current Informatica DaaS account for every telephone number that you submit.

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

The following table describes the input fields:

| Field | Description | Sample Input |
|--------------|-----------------------------------------------------------------------------------------------------|-----------------------------------|
| PhoneNumbers | One or more strings containing the phone numbers to validate. Enter a single number in each string. | 1-919-467-4545 +1-650-385-5000 |

Output

The output for each number is the same as from the ValidateNumber operation. Additionally, the operation returns a ServiceResult output.

ServiceResult Output

The following table describes the ServiceResult output fields:

| StatusNbr | StatusDescription |
|-----------|--------------------------------------|
| 211 | Data returned for all input numbers |
| 212 | Data returned for some input numbers |
| 311 | No data returned for input numbers |
| 500 | Internal Error |

ValidateNumberCountry

Validates a telephone number. This operation is essentially the same as ValidateNumber, except the country designation is broken out into its own field.

The ValidateNumberCountry operation deducts a single hit from the current product license.

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

The following table describes the input fields:

| Field | Description | Sample Input |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Number | A single phone number without the country dialing code. | (919) 467-4545 |
| Country | An identifier for the country the phone number is in. This can be provided in one of the following formats: <ul style="list-style-type: none">- E.164 country dialing code- ISO-2 letter country identifier- ISO-3 letter country identifier- ISO 3166-1 country name | USA |

Output

The output from the operation is the same as from the ValidateNumber operation.

ValidateNumberCountryBatch

Validates a list of telephone numbers in a country that you specify. This operation is essentially the same as ValidateNumberCountry, although ValidateNumberCountry operates on a single number at a time.

The ValidateNumberCountryBatch operation deducts a hit from the current product license for every telephone number that you submit.

Use the fields described below to configure the input to the operation and to read the output from the operation.

Input

The following table describes the input fields:

| Field | Description | Sample Input |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Number | One or more strings containing the phone numbers to validate. Enter a single number in each string. Do not include the country dialing code. | (919) 467-4545 |
| Country | An identifier for the country that the phone numbers reside in. The phone numbers that you submit in a given ValidateNumberCountryBatch operation must reside in the same country. The identifier can have one of the following formats: <ul style="list-style-type: none">- E.164 country dialing code- ISO-2 letter country identifier- ISO-3 letter country identifier- ISO 3166-1 country name | USA |

Output

The output for each number is the same as from the ValidateNumberCountry operation. Additionally, the operation returns a ServiceResult output.

ServiceResult Output

The following table describes the ServiceResult output fields:

| StatusNbr | StatusDescription |
|-----------|--------------------------------------|
| 211 | Data returned for all input numbers |
| 212 | Data returned for some input numbers |
| 311 | No data returned for input numbers |
| 500 | Internal Error |

SetDefaultCountry

Sets a default country for all telephone numbers that you submit for validation. Global Phone Validation uses the default country if you do not specify a country in the validation operation.

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

The following table describes the input fields:

| Field | Description | Sample Input |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Country | The country to use if a country identifier is not provided in a validation call. An identifier for the country the phone number is in. This can be provided in one of the following formats: <ul style="list-style-type: none">- E.164 country dialing code- ISO-2 letter country identifier- ISO-3 letter country identifier- ISO 3166-1 country name | US |

Output

SetDefaultCountry returns status information only.

RemoveDefaultCountry

Removes the default country if it was specified in SetDefaultCountry.

Use the fields described below to configure the input to the operation and to read the output from the operation.

Input

The operation requires no input.

Output

RemoveDefaultCountry returns status information only.

GetAllCountries

Returns a list of the countries that Global Phone Validation supports. The list comprises the international prefix for each country and ISO 3166-1 country codes for each country.

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

The operation requires no input.

Method Result Output

The following table describes the output:

| Field/Description | Sample Output |
|-------------------|---------------|
| CountryCode | 47 |
| ISO_A2 | NO |
| ISO_A3 | NOR |
| ISO_Country | NORWAY |

GetCountryInfo

Returns the international prefix and ISO 3166-1 country code information for the country that the input value represents.

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

| Field | Description | Sample Input |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| inputString | A country name, identifier, or code. You can enter the international dialing prefix, ISO two-character code, ISO three-character code, or ISO country name. | DE |

Output

The following table describes the output:

| Field/Description | Sample Output |
|-------------------|---------------|
| CountryCode | 49 |
| ISO_A2 | DE |
| ISO_A3 | DEU |
| ISO_Country | GERMANY |

GetStatusCodesForMethod

Returns a list of the status codes that the StatusNbr and StatusDescription fields can display for a method.

Use the fields described below to configure the input to the operation and to read the output from the operation.

Input

Enter a method name. The possible values are ValidateNumber, ValidateNumberBatch, ValidateNumberCountry, ValidateNumberCountryBatch, GetStatusCodesForMethod, GetStatusCodes, and GetRemainingHits.

Output

For a list of the possible return values, see GetStatusCodes.

GetStatusCodes

Displays a list of the status codes for the web service that appear in the StatusNbr and StatusDescription fields for all methods.

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

This operation uses the LicenseInfo data and does not require any input.

MethodStatusRecord Output

The following table describes the StatusNbr and StatusDescription values for the ValidateNumber, ValidateNumberCountry, SetDefaultCountry, RemoveDefaultCountry, and GetStatusCodes methods:

| StatusNbr | StatusDescription |
|-----------|-------------------|
| 200 | Successful |
| 300 | Unsuccessful |
| 500 | Internal Error |

The following table describes the StatusNbr and StatusDescription values for the ValidateNumberBatch and ValidateNumberCountryBatch methods:

| StatusNbr | StatusDescription |
|-----------|--------------------------------------|
| 211 | Data returned for all input numbers |
| 212 | Data returned for some input numbers |

| StatusNbr | StatusDescription |
|-----------|------------------------------------|
| 311 | No data returned for input numbers |
| 500 | Internal Error |

The following table describes the StatusNbr and StatusDescription values for the GetAllCountries and GetCountryInfo methods:

| StatusNbr | StatusDescription |
|-----------|-------------------|
| 200 | Successful |
| 300 | Unsuccessful |

The following table describes the StatusNbr and StatusDescription values for the GetStatusCodesForMethod method:

| StatusNbr | StatusDescription |
|-----------|---------------------|
| 200 | Found |
| 300 | Not Found |
| 400 | Invalid Method Name |
| 500 | Internal Error |

GetServiceInfo

GetServiceInfo is deprecated. The operation name remains in the WSDL at the current time. However, calling GetServiceInfo will result in an error.

GetRemainingHits

Returns the number of hits that remain available to the current Informatica DaaS license key.

Use the fields described below to configure the input to the operation and to read the output from the operation.

Input

This operation uses the LicenseInfo data and does not require any input.

Output

The operation returns the subscription information for the current User ID and Password, which includes the number of hits, or calls, that remain in the subscription. The operation does not consume any hits.