



**IP2LOCATION™**

**ACTIVEX COMPONENT**

User Manual

By Hexasoft Development Sdn. Bhd.

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~ Bringing Geography to the Internet ~

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# 1. INTRODUCTION

**IP2Location™** is the solution to identify *country, region, city, latitude & longitude of city, ZIP code, time zone, connection speed, ISP, domain name, IDD country code, area code, weather station code and name, mobile carrier, elevation and usage type* of your site visitors in real-time by using IP address. This document provides important information to help you quickly get up to speed with our products.

Developers use this ActiveX/COM component for software and web projects related to, but not limited to:

- Display native language and currency
- Redirect based on country
- Digital rights management
- Prevent password sharing and abuse of service
- Reduce credit card fraud
- Web log stats and analysis
- Auto-selection of country on forms
- Filter access from countries you do not do business with
- Geo-targeting for increased sales and click-through

IP2Location™ ActiveX/COM component is written and optimized for Windows® operating system performance.

# 2. SYSTEM REQUIREMENTS

IP2Location™ ActiveX/COM Component has been developed to run exclusively under Windows based x86/x64 machines with support for both standalone desktop and web server application. This component has built-in IP-COUNTRY database but can read a local IP2Location™ BIN database for lookup purpose. No Internet connection required to execute this component.

## Minimum Configuration Requirements

| Scenario | CPU Required     | RAM Required |
|----------|------------------|--------------|
| Client   | Pentium 90 MHz*  | 32 MB**      |
| Server   | Pentium 133 MHz* | 128 MB**     |

\* Or the minimum CPU required running the operating system, whichever is higher.

\*\* Or the minimum RAM required running the operating system, whichever is higher.

### Supported Platforms

- Microsoft® Windows XP (Home or Professional)
- Microsoft® Windows 2000 (Professional, Server, or Advanced Server) with the latest Windows service pack and critical updates available from the Microsoft Security Web site.
- Microsoft® Windows Server 2003 family
- Microsoft® Windows Vista
- Microsoft® Windows 7
- Microsoft® Windows 8
- Microsoft® Windows 10
- Microsoft® Windows Server 2008 family
- Microsoft® Windows Server 2012 family
- Microsoft® Windows Server 2016 family

## 2.1 Quick Start Guide

In this document, you will go through these basic steps to use IP2Location™ ActiveX/COM Component

1. Download and installing IP2Location ActiveX/COM Component
2. Test your ActiveX/COM Component installation
3. Start using IP2Location™ ActiveX/COM Component in your projects
4. Purchase license to remove random 5 second delay in demo version
5. Update IP2Location™ Component database

**Note: For unregistered or demo, the component applies random 5-second in query. Registered version has unlimited real-time query without delay.**

## 3. DOWNLOAD AND INSTALLATION

### 3.1 Download ZIP File

Please use the following URL to download the latest IP2Location™ ActiveX/COM Component together with sample database.

- <https://www.ip2location.com/software/active-x>

### 3.2 BIN Database Download

You may download free sample databases, DB1 to DB24, at <https://www.ip2location.com/developers> for your testing. Please take note that the sample databases only contain IP address from 0.0.0.0 to 99.255.255.255 (IPv4) or 2A04:0:0:0:0:0:0:0 to 2A04:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF (IPv6) only.

If you need full IP address ranges but lower accuracy for testing, you may consider to download the LITE database at <https://lite.ip2location.com>.

### 3.3 Component Installation

Installing the IP2Location ActiveX/COM component system is very easy.

General steps in installing IP2Location™ ActiveX/COM component.

1. Unzip the demo package into a temporary directory.
2. Just copy the **ip2location.dll** file and sample database “IP2LOCATION-LITE-DB1. BIN” to a system directory in Web server. Directory *Windows\system32\* or *Winnt\system32\* is recommended.
3. Register the DLL component using one of the following options :

#### **Option 1**

From the command prompt, navigate to the directory where you installed ip2location.dll and then run the command:

```
C:\Windows\system32> regsvr32 ip2location.dll
```

**OR**

#### **Option 2**

Click on the Windows® “Start” button, then “Run” and typing in:

```
regsvr32 <fullpath>\ip2location.dll
```

Make sure and replace “<fullpath>” with the actual full path that the ip2location.dll resides in.

4. In Explorer, right click ip2location.dll, select “Properties” and go to “Security” tab. Add “Read & Execute” permission to the Internet user account ie. “IUSR\_<machine>”.
5. In Explorer, right click IP2LOCATION-LITE-DB1.BIN, select “Properties” and go to “Security” tab. Add “Read” permission to the Internet user account. i.e. “IUSR <machine>”

**\*Note: Please use x64\ip2location.dll in 64bit machine.**

## 4. TESTING

### 4.1 Folders and Files Structure

Several sample files were enclosed in component zip file. The sample filenames by default are :

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| /asp/ip2location.asp                | (ASP demo script)                 |
| /php/ip2location.php                | (PHP demo script)                 |
| /vb6/ip2location.frm                | (Visual Basic 6 demo application) |
| /asp.net/vb.net/ip2location.aspx.vb | (VB.NET demo script)              |
| /asp.net/c#/ip2location.aspx.cs     | (C# demo script)                  |

Copy one of these samples to a Web directory configured to run Web project in specific language. You need to copy the IP2Location Sample BIN file IP2LOCATION-LITE-DB1.IPV6.BIN to the directory as well. Then run these samples using Web Browser.

If the IP2Location™ has been installed correctly, the sample script will execute and demonstrate results from the IP2Location products. For demo version, there is a 5-minutes delay per query. Registered version enjoys unlimited real-time query without delay.

*\*Note: If you are getting this error "Attempted to load a 64-bit assembly on a 32-bit platform. Use ReflectionOnlyLoad() instead of trying to load for reflection purposes." Please disable "Enable 32-Bit Applications" in your IIS Application Pools.*

### 4.2 Sample Codes in PHP

Please refer to the PHP sample codes in the setup package for more information.

### 4.3 Sample Codes in Visual Basic 6

Please refer to the VB6 sample codes in the setup package for more information.

### 4.4 Sample Codes in C#

Please refer to the C# sample codes in the setup package for more information.

### 4.5 Sample Codes in VB.NET

Please refer to the VB.NET sample codes in the setup package for more information.

### 4.6 Sample Codes in Cold Fusion

Query Country Information using Internal Database

```
<!-- connect to COM object -->  
<CFOBJECT ACTION="Create" NAME="ipObj" CLASS="IP2Location.Country">  
<!-- initialize IP2LocationT Component -->
```

```

<CFSET result_code = ipObj.Initialize("demo")>
<!-- it will return "US" -->
<CFSET result_code = ipObj.LookUpShortName("205.188.145.215")>
<!-- it will return "United States" -->
<CFSET result_code = ipObj.LookUpFullName("205.188.145.215")>
<!-- it will return "Japan" -->
<CFSET result_code = ipObj.CountryCodeToName("JP")>
<!-- it will return the version number -->
<CFSET result_code = ipObj.Version()>

```

## Query Other Information using External Database

```

<!-- connect to COM object -->
<CFOBJECT ACTION="Create" NAME="ipObj" CLASS="IP2Location.Country">
<!-- initialize IP2LocationT Component -->
<CFSET result_code = ipObj.Initialize("demo")>
<!-- query external IP2Location database -->
<CFSET result_code = ipObj.LookUp("IP2LOCATION-LITE-
DB1.BIN", "15.188.145.215")>
<CFSET result_code = ipObj.CountryShort>
<CFSET result_code = ipObj.CountryLong>
<CFSET result_code = ipObj.Region>
<CFSET result_code = ipObj.City>
<CFSET result_code = ipObj.Latitude>
<CFSET result_code = ipObj.Longitude>
<CFSET result_code = ipObj.ZIPCode>
<CFSET result_code = ipObj.ISP>
<CFSET result_code = ipObj.Domain>
<CFSET result_code = ipObj.TimeZone>
<CFSET result_code = ipObj.NetSpeed>
<CFSET result_code = ipObj.IDDCode>
<CFSET result_code = ipObj.AreaCode>
<CFSET result_code = ipObj.WeatherStationCode>
<CFSET result_code = ipObj.WeatherStationName>
<CFSET result_code = ipObj.MCC>
<CFSET result_code = ipObj.MNC>
<CFSET result_code = ipObj.MobileBrand>
<CFSET result_code = ipObj.Elevation>
<CFSET result_code = ipObj.UsageType>

```

## 4.7 Sample Codes in Visual C++

### Query Country Information using Internal Database

```

#import "c:\winnt\system32\ip2location.dll" no_namespace
HRESULT hr = OleInitialize(NULL);
ICountry ipObj("IP2Location.Country");
if ((hr == S_OK) || (hr == S_FALSE))
{
    // initialize IP2LocationT Component
    if (ipObj->Initialize("demo") != "OK")
    {
        // initialization failed
    }
    // it will return "US"
}

```



```

    AfxMessageBox(ipObj->LookUpShortName("205.188.145.215"));
    // it will return "United States"
    AfxMessageBox(ipObj->LookUpFullName("205.188.145.215"));
    // it will return "Japan"
    AfxMessageBox(ipObj->CountryCodeToName("JP"));
    // it will return the version number
    AfxMessageBox(ipObj->Version());
}
OleUninitialize();

```

## Query Other Information using External Database

```

#import "c:\winnt\system32\ip2location.dll" no_namespace
HRESULT hr = OleInitialize(NULL);
ICountry ipObj("IP2Location.Country");
if ((hr == S_OK) || (hr == S_FALSE))
{
    // initialize IP2Location Component
    if (ipObj->Initialize("demo") != "OK")
    {
        // initialization failed
    }
    AfxMessageBox(ipObj->LookUp("IP2LOCATION-LITE-DB1.BIN","15.188.145.215"));
    AfxMessageBox(ipObj->CountryShort);
    AfxMessageBox(ipObj->CountryLong);
    AfxMessageBox(ipObj->Region);
    AfxMessageBox(ipObj->City);
    AfxMessageBox(ipObj->Latitude);
    AfxMessageBox(ipObj->Longitude);
    AfxMessageBox(ipObj->ZIPCode);
    AfxMessageBox(ipObj->ISP);
    AfxMessageBox(ipObj->Domain);
    AfxMessageBox(ipObj->TimeZone);
    AfxMessageBox(ipObj->NetSpeed);
    AfxMessageBox(ipObj->IDDCCode);
    AfxMessageBox(ipObj->AreaCode);
    AfxMessageBox(ipObj->WeatherStationCode);
    AfxMessageBox(ipObj->WeatherStationName);
    AfxMessageBox(ipObj->MCC);
    AfxMessageBox(ipObj->MNC);
    AfxMessageBox(ipObj->MobileBrand);
    AfxMessageBox(ipObj->Elevation);
    AfxMessageBox(ipObj->UsageType);
}
OleUninitialize();

```

## 4.8 Sample Codes in Delphi

### Query Country Information using Internal Database

```

uses ComObj;
var
ipObj: Variant;
nResult: Variant;
begin

```

```

// create IP2LocationT object
ipObj:=CreateOleObject('IP2Location.Country');
// initialize IP2LocationT Component
nResult := ipObj.Initialize('demo');
if nResult = 'OK' then begin;
    // initialization passed
else
    // initialization failed
end;
// it will return "US"
nResult := ipObj.LookUpShortName('205.188.145.215');
// it will return "United States"
nResult := ipObj.LookUpFullName('205.188.145.215');
// it will return "Japan"
nResult := ipObj.CountryCodeToName('JP');
// it will return the version number
nResult := ipObj.Version();
end;

```

### Query Other Information using External Database

```

uses ComObj;
var
ipObj: Variant;
nResult: Variant;
begin
    // create IP2LocationT object
    ipObj:=CreateOleObject('IP2Location.Country');
    // initialize IP2LocationT Component
    nResult := ipObj.Initialize('demo');
    nResult := ipObj.LookUp('IP2LOCATION-LITE-DB1.BIN', '15.188.145.215');
    nResult := ipObj.CountryShort;
    nResult := ipObj.CountryLong;
    nResult := ipObj.Region;
    nResult := ipObj.City;
    nResult := ipObj.Latitude;
    nResult := ipObj.Longitude;
    nResult := ipObj.ZIPCode;
    nResult := ipObj.ISP;
    nResult := ipObj.Domain;
    nResult := ipObj.TimeZone;
    nResult := ipObj.NetSpeed;
    nResult := ipObj.IDDCode;
    nResult := ipObj.AreaCode;
    nResult := ipObj.WeatherStationCode;
    nResult := ipObj.WeatherStationName;
    nResult := ipObj.MCC;
    nResult := ipObj.MNC;
    nResult := ipObj.MobileBrand;
    nResult := ipObj.Elevation;
    nResult := ipObj.UsageType;
end;

```

## 4.9 Sample Codes in Perl

### Query Country Information using Internal Database

```

use OLE;
$code = Win32::OLECreateObject('IP2Location.Country',$ipObj) or
die "Couldn't create new ipObj Object!";
# initialize IP2Location Component
if ($ipObj->Initialize("demo") <> "OK")
{
    # initialization failed
}
# it will return "US"
$result = ipObj->LookUpShortName("205.188.145.215");
# it will return "United States"
$result = ipObj->LookUpFullName("205.188.145.215");
# it will return "Japan"
$result = ipObj->CountryCodeToName("JP");
# it will return the version number
$result = ipObj->Version();
# free object
$ipObj->Quit();

```

### Query Other Information using External Database

```

use OLE;
$code = Win32::OLECreateObject('IP2Location.Country',$ipObj) or
die "Couldn't create new ipObj Object!";
# initialize IP2Location Component
if ($ipObj->Initialize("demo") <> "OK")
{
    # initialization failed
}
$result = ipObj->LookUp('IP2LOCATION-LITE-DB1.BIN','15.188.145.215');
$result = ipObj->CountryShort();
$result = ipObj->CountryLong();
$result = ipObj->Region();
$result = ipObj->City();
$result = ipObj->Latitude();
$result = ipObj->Longitude();
$result = ipObj->ZIPCode();
$result = ipObj->ISP();
$result = ipObj->Domain();
$result = ipObj->TimeZone();
$result = ipObj->IDDCCode();
$result = ipObj->AreaCode();
$result = ipObj->WeatherStationCode();
$result = ipObj->WeatherStationName();
$result = ipObj->MCC();
$result = ipObj->MNC();
$result = ipObj->MobileBrand();
$result = ipObj->Elevation();
$result = ipObj->UsageType();
# free object
$ipObj->Quit();

```

## 5. IMPLEMENTATION

### 5.1 IP2Location™ ActiveX Method Reference

| Method   | Description   |
|--|---|
| Initialize ( RegCode As String )                 | Initialize component and apply registration code to remove 5-seconds query delay. Please use "demo" for evaluation purpose. |
| CountryCodeToName (Code As String)               | Return full country name by country code. Refer Appendix I.   |
| LookUpFullName ( IPAddress As String)            | Return full country name of a specified IP address using Internal IP database.  |
| LookUpShortName ( IPAddress As String)           | Return country code (two letters) of a specified IP address using Internal IP database. Refer Appendix I.                   |
| Version ( )                                      | Return component version.   |
| IsRegistered()                                   | Return true if component have been registered correctly and n delay in query.   |
| LookUp ( BINPath As String, IPAddress As String) | Query external IP2Location BIN database as in BINPath and stores all values in Object Properties.                           |

### 5.2 IP2Location™ ActiveX Property Reference

| Property     | Type   | Description  |
|--------------|--------|--|
| IPAddress    | String | IP Address.  |
| CountryShort | String | Two-character country code based on ISO 3166.        |
| CountryLong  | String | Country name based on ISO 3166.                      |
| Region       | String | Region or state name.                                |
| City         | String | City name.   |
| Latitude     | String | City latitude.                                       |
| Longitude    | String | City longitude.                                      |
| ZIPCode      | String | United States ZIP code.                              |
| ISP          | String | Internet Service Provider (ISP) name.                |
| Domain       | String | Internet domain name associated to IP address range. |
| Timezone     | String | Time zone of city                                    |
| NetSpeed     | String | Connection speed                                     |
| IDDCode      | String | The IDD prefix to call the city from another country |

|                    |        |  |
|--------------------|--------|--|
| AreaCode           | String | A varying length number assigned to geographic areas for call between cities |
| WeatherStationCode | String | Special code to identify the nearest weather observation station             |
| WeatherStationName | String | Name of the nearest weather observation station                              |
| MCC                | String | Mobile country code  |
| MNC                | String | Mobile network code  |
| MobileBrand        | String | Mobile brand   |
| Elevation          | String | Elevation in meters  |
| UsageType          | String | Usage type of ISP or organization  |

\*Note : The result will return a not supported field message if the field of the result is not supported by the current database.

## 6. LICENSE PURCHASE

### 6.1 License Information

A license is required for each machine the product is installed on, including development or staging machines. Please refer to the **License Agreement** section for the complete license agreement.

Trial/Demo license is only meant to be used for the evaluation purpose.

### 6.2 Purchase Instruction

Please visit <https://www.ip2location.com/software/active-x> and select the package that you wish to purchase. Fill in the online form and complete the payment transaction. Once your order has been approved, you will receive your license file (License.Key) immediately through email. Initialize the ActiveX component with the registration code in your script will remove the 5-seconds query delay.

For example, if the registration code is [demo@yahoo.com-JGSVXgzjdDNS](mailto:demo@yahoo.com-JGSVXgzjdDNS)

#### **ASP**

```
Set ipObj = Server.CreateObject("IP2Location.Country")
result = ipObj.Initialize("demo@yahoo.com-JGSVXgzjdDNS")
...
Set ipObj = Nothing
```

#### **PHP**

```
$ipObj = new COM("IP2Location.Country");
$result = $ipObj->Initialize(demo@yahoo.com-JGSVXgzjdDNS);
...
$ipObj = null;
```

## 7. UPDATE COMPONENT

### 7.1 Update Component Internal Database

The IP2Location™ ActiveX/COM Component depends on an internal database for lookup purpose. All users with valid license will be allowed to download the monthly updates from the IP2Location™ download area during subscription period. To update, users need to replace the BIN database with the latest one from the download area. The component will use the latest database once the local copy has been updated. Please refer to the welcome email for more information regarding download updates and account information.

### 7.2 Upgrade Component

To upgrade a new version of IP-Country database, you can overwrite the IP2Location™ ActiveX DLL Component after uninstalling the old component.

**Note:** You need to stop the IIS web server before overwrite your old component.

First, stop the Web server

```
C:\>net stop iisadmin /y
```

The, un-register the component and update it with the latest component.

```
C:\>regsvr32 c:\windows\system32\ip2location.dll /u  
C:\>copy c:\new\ip2location.dll c:\windows\system32\ip2location.dll
```

NOTE: In this case, "c:\new\ip2location.dll" is the latest version of component. Meanwhile "c:\path\ip2location.dll" is the destination. We assume the installation path is c:\windows\system32.

Finally, register component and restart the web server.

```
C:\>regsvr32 c:\windows\system32\ip2location.dll  
C:\>net start w3svc
```

### 7.3 Uninstall Component

To uninstall IP2Location™ ActiveX/COM DLL Component, you need to stop and restart the IIS services to remove the old version of the DLL from the memory, as follows:

```
C:\>net stop iisadmin /
```

Then

```
C:\>regsvr32 c:\windows\system32\ip2location.dll /u  
C:\>delete c:\windows\system32\ip2location.dll
```

```
C:\>net start w3svc
```

## 8. APPENDIX I: ISO3166 COUNTRY CODE

This table lists all valid ISO3166 two characters country codes that returns from IP2Location™ ActiveX/COM component and explain the full country names for these country codes.

| Country Code | Country Name                     |
|--------------|----------------------------------|
| AD           | ANDORRA                          |
| AE           | UNITED ARAB EMIRATES             |
| AF           | AFGHANISTAN                      |
| AG           | ANTIGUA AND BARBUDA              |
| AI           | ANGUILLA                         |
| AL           | ALBANIA                          |
| AM           | ARMENIA                          |
| AO           | ANGOLA                           |
| AQ           | ANTARCTICA                       |
| AR           | ARGENTINA                        |
| AS           | AMERICAN SAMOA                   |
| AT           | AUSTRIA                          |
| AU           | AUSTRALIA                        |
| AW           | ARUBA                            |
| AX           | ÅLAND ISLANDS                    |
| AZ           | AZERBAIJAN                       |
| BA           | BOSNIA AND HERZEGOWINA           |
| BB           | BARBADOS                         |
| BD           | BANGLADESH                       |
| BE           | BELGIUM                          |
| BF           | BURKINA FASO                     |
| BG           | BULGARIA                         |
| BH           | BAHRAIN                          |
| BI           | BURUNDI                          |
| BJ           | BENIN                            |
| BL           | SAINT BARTHÉLEMY                 |
| BM           | BERMUDA                          |
| BN           | BRUNEI DARUSSALAM                |
| BO           | BOLIVIA                          |
| BQ           | BONAIRE, SINT EUSTATIUS AND SABA |
| BR           | BRAZIL                           |
| BS           | BAHAMAS                          |
| BT           | BHUTAN                           |
| BV           | BOUVET ISLAND                    |
| BW           | BOTSWANA                         |
| BY           | BELARUS                          |
| BZ           | BELIZE                           |



| Country Code | Country Name                          |
|--------------|---------------------------------------|
| CA           | CANADA                                |
| CC           | COCOS (KEELING) ISLANDS               |
| CD           | CONGO, THE DEMOCRATIC REPUBLIC OF THE |
| CF           | CENTRAL AFRICAN REPUBLIC              |
| CG           | CONGO                                 |
| CH           | SWITZERLAND                           |
| CI           | CÔTE D'IVOIRE                         |
| CK           | COOK ISLANDS                          |
| CL           | CHILE                                 |
| CM           | CAMEROON                              |
| CN           | CHINA                                 |
| CO           | COLOMBIA                              |
| CR           | COSTA RICA                            |
| CU           | CUBA                                  |
| CV           | CAPE VERDE                            |
| CW           | CURAÇAO                               |
| CX           | CHRISTMAS ISLAND                      |
| CY           | CYPRUS                                |
| CZ           | CZECH REPUBLIC                        |
| DE           | GERMANY                               |
| DJ           | DJIBOUTI                              |
| DK           | DENMARK                               |
| DM           | DOMINICA                              |
| DO           | DOMINICAN REPUBLIC                    |
| DZ           | ALGERIA                               |
| EC           | ECUADOR                               |
| EE           | ESTONIA                               |
| EG           | EGYPT                                 |
| EH           | WESTERN SAHARA                        |
| ER           | ERITREA                               |
| ES           | SPAIN                                 |
| ET           | ETHIOPIA                              |
| FI           | FINLAND                               |
| FJ           | FIJI                                  |
| FK           | FALKLAND ISLANDS (MALVINAS)           |
| FM           | MICRONESIA, FEDERATED STATES OF       |
| FO           | FAROE ISLANDS                         |
| FR           | FRANCE                                |
| GA           | GABON                                 |
| GB           | GREAT BRITAIN                         |
| GD           | GRENADA                               |
| GE           | GEORGIA                               |
| GF           | FRENCH GUIANA                         |
| GG           | GUERNSEY                              |
| GH           | GHANA                                 |
| GI           | GIBRALTAR                             |

| Country Code | Country Name                           |
|--------------|--|
| GL           | GREENLAND                              |
| GM           | GAMBIA                                 |
| GN           | GUINEA                                 |
| GP           | GUADELOUPE                             |
| GQ           | EQUATORIAL GUINEA                      |
| GR           | GREECE                                 |
| GS           | SOUTH GEORGIA & SOUTH SANDWICH ISLANDS |
| GT           | GUATEMALA                              |
| GU           | GUAM                                   |
| GW           | GUINEA-BISSAU                          |
| GY           | GUYANA                                 |
| HK           | HONG KONG                              |
| HM           | HEARD ISLAND AND MCDONALD ISLANDS      |
| HN           | HONDURAS                               |
| HR           | CROATIA                                |
| HT           | HAITI                                  |
| HU           | HUNGARY                                |
| ID           | INDONESIA                              |
| IE           | IRELAND                                |
| IL           | ISRAEL                                 |
| IM           | ISLE OF MAN                            |
| IN           | INDIA                                  |
| IO           | BRITISH INDIAN OCEAN TERRITORY         |
| IQ           | IRAQ                                   |
| IR           | IRAN, ISLAMIC REPUBLIC OF              |
| IS           | ICELAND                                |
| IT           | ITALY                                  |
| JE           | JERSEY                                 |
| JM           | JAMAICA                                |
| JO           | JORDAN                                 |
| JP           | JAPAN                                  |
| KE           | KENYA                                  |
| KG           | KYRGYZSTAN                             |
| KH           | CAMBODIA                               |
| KI           | KIRIBATI                               |
| KM           | COMOROS                                |
| KN           | SAINT KITTS AND NEVIS                  |
| KP           | KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF |
| KR           | KOREA, REPUBLIC OF                     |
| KW           | KUWAIT                                 |
| KY           | CAYMAN ISLANDS                         |
| KZ           | KAZAKSTAN                              |
| LA           | LAO PEOPLE'S DEMOCRATIC REPUBLIC       |
| LB           | LEBANON                                |
| LC           | SAINT LUCIA                            |
| LI           | LIECHTENSTEIN                          |

| Country Code | Country Name                   |
|--------------|--------------------------------|
| LK           | SRI LANKA                      |
| LR           | LIBERIA                        |
| LS           | LESOTHO                        |
| LT           | LITHUANIA                      |
| LU           | LUXEMBOURG                     |
| LV           | LATVIA                         |
| LY           | LIBYA                          |
| MA           | MOROCCO                        |
| MC           | MONACO                         |
| MD           | MOLDOVA, REPUBLIC OF           |
| ME           | MONTENEGRO                     |
| MF           | SAINT MARTIN (FRENCH PART)     |
| MG           | MADAGASCAR                     |
| MH           | MARSHALL ISLANDS               |
| MK           | MACEDONIA, THE FORMER YUGOSLAV |
| ML           | MALI                           |
| MM           | MYANMAR                        |
| MN           | MONGOLIA                       |
| MO           | MACAU                          |
| MP           | NORTHERN MARIANA ISLANDS       |
| MQ           | MARTINIQUE                     |
| MR           | MAURITANIA                     |
| MS           | MONTserrat                     |
| MT           | MALTA                          |
| MU           | MAURITIUS                      |
| MV           | MALDIVES                       |
| MW           | MALAWI                         |
| MX           | MEXICO                         |
| MY           | MALAYSIA                       |
| MZ           | MOZAMBIQUE                     |
| NA           | NAMIBIA                        |
| NC           | NEW CALEDONIA                  |
| NE           | NIGER                          |
| NF           | NORFOLK ISLAND                 |
| NG           | NIGERIA                        |
| NI           | NICARAGUA                      |
| NL           | NETHERLANDS                    |
| NO           | NORWAY                         |
| NP           | NEPAL                          |
| NR           | NAURU                          |
| NU           | NIUE                           |
| NZ           | NEW ZEALAND                    |
| OM           | OMAN                           |
| PA           | PANAMA                         |
| PE           | PERU                           |
| PF           | FRENCH POLYNESIA               |

| Country Code | Country Name                                 |
|--------------|--|
| PG           | PAPUA NEW GUINEA                             |
| PH           | PHILIPPINES                                  |
| PK           | PAKISTAN                                     |
| PL           | POLAND                                       |
| PM           | SAINT PIERRE AND MIQUELON                    |
| PN           | PITCAIRN                                     |
| PR           | PUERTO RICO                                  |
| PS           | PALESTINIAN, STATE OF                        |
| PT           | PORTUGAL                                     |
| PW           | PALAU  |
| PY           | PARAGUAY                                     |
| QA           | QATAR  |
| RE           | RÉUNION                                      |
| RO           | ROMANIA                                      |
| RS           | SERBIA                                       |
| RU           | RUSSIAN FEDERATION                           |
| RW           | RWANDA                                       |
| SA           | SAUDI ARABIA                                 |
| SB           | SOLOMON ISLANDS                              |
| SC           | SEYCHELLES                                   |
| SD           | SUDAN  |
| SE           | SWEDEN                                       |
| SG           | SINGAPORE                                    |
| SH           | SAINT HELENA, ASCENSION AND TRISTAN DA CUNHA |
| SI           | SLOVENIA                                     |
| SJ           | SVALBARD AND JAN MAYEN                       |
| SK           | SLOVAKIA                                     |
| SL           | SIERRA LEONE                                 |
| SM           | SAN MARINO                                   |
| SN           | SENEGAL                                      |
| SO           | SOMALIA                                      |
| SR           | SURINAME                                     |
| SS           | SOUTH SUDAN                                  |
| ST           | SAO TOME AND PRINCIPE                        |
| SV           | EL SALVADOR                                  |
| SX           | SINT MAARTEN (DUTCH PART)                    |
| SY           | SYRIAN ARAB REPUBLIC                         |
| SZ           | SWAZILAND                                    |
| TC           | TURKS AND CAICOS ISLANDS                     |
| TD           | CHAD   |
| TF           | FRENCH SOUTHERN TERRITORIES                  |
| TG           | TOGO   |
| TH           | THAILAND                                     |
| TJ           | TAJIKISTAN                                   |
| TK           | TOKELAU                                      |
| TL           | TIMOR-LESTE                                  |

| Country Code | Country Name                         |
|--------------|--------------------------------------|
| TM           | TURKMENISTAN                         |
| TN           | TUNISIA                              |
| TO           | TONGA                                |
| TR           | TURKEY                               |
| TT           | TRINIDAD AND TOBAGO                  |
| TV           | TUVALU                               |
| TW           | TAIWAN, PROVINCE OF CHINA            |
| TZ           | TANZANIA, UNITED REPUBLIC OF         |
| UA           | UKRAINE                              |
| UG           | UGANDA                               |
| UK           | UNITED KINGDOM                       |
| UM           | UNITED STATES MINOR OUTLYING ISLANDS |
| US           | UNITED STATES                        |
| UY           | URUGUAY                              |
| UZ           | UZBEKISTAN                           |
| VA           | HOLY SEE (VATICAN CITY STATE)        |
| VC           | SAINT VINCENT AND THE GRENADINES     |
| VE           | VENEZUELA                            |
| VG           | VIRGIN ISLANDS, BRITISH              |
| VI           | VIRGIN ISLANDS, U.S.                 |
| VN           | VIET NAM                             |
| VU           | VANUATU                              |
| WF           | WALLIS AND FUTUNA                    |
| WS           | SAMOA                                |
| YE           | YEMEN                                |
| YT           | MAYOTTE                              |
| ZA           | SOUTH AFRICA                         |
| ZM           | ZAMBIA                               |
| ZW           | ZIMBABWE                             |

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