IP2LOCATION™

HTTP MODULE

User Manual

By Hexasoft Development Sdn. Bhd.

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~ Bringing Geography to the Internet ~

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1. INTRODUCTION

IP2Location™ HTTP Module is an IIS managed module, which enables you to discover in real-time, where your web visitors are coming from by IP address. You can determine what country they are by IP address. IP2Location™ HTTP Module returns server variables regarding your visitor's *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, usage type, address type and IAB category* of your site visitors in real-time by using IP address. This module relies on an external BIN database file. No remote query or database connection required. This document provides important information to help you quickly get up to speed with our products.

Developers use this HTTP Module for 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

1.1 IP2Location™ HTTP Module Features

- Gets IP Address Information as Server Variables
  IP2Location HTTP Module makes it easy to populate IP address server variables with geolocation information such as country, region, city, latitude, longitude and more.

- Instantly Redirect Visitors Based On Their Country
  IP2Location HTTP Module includes a feature that allows website redirection based on the visitor's country location.

- Block Visitors Access To The Website Based On Their Country
  IP2Location HTTP Module includes a feature that allows blocking access to the website based on the visitor's country location.

- Support For Microsoft IIS 7.0, 7.5, 8.0, 8.5 (.NET 3.5 framework must be installed)
  IP2Location HTTP Module works on all Windows platforms that support IIS 7.0, 7.5, 8.0 or 8.5.

2. SYSTEM REQUIREMENTS

Supported Platforms
▪ Microsoft® Windows Server 2012 R2 ▪ Microsoft® Windows Server 2012 ▪ Microsoft® Windows Server 2008 R2 ▪ Microsoft® Windows Server 2008 ▪ Microsoft® Windows 10 ▪ Microsoft® Windows 8 ▪ Microsoft® Windows 7

2.1 Quick Start Guide

In this document, you will go through these basic steps to use IP2Location™ HTTP module:

1. Download the IP2Location HTTP Module and the BIN database file.
2. Install the module into IIS by modifying the web.config file in your web folder.
3. Configure the module using the IP2Location-config.xml configuration file.
4. How to use the module and some sample codes.
5. Updating the BIN database file.
6. Upgrading or uninstalling the IP2Location HTTP Module.

3. DOWNLOAD AND INSTALLATION

3.1 Download ZIP File

Please use the following URL to download the latest IP2Location™ HTTP Module together with sample database. Extract the IP2LocationHTTPModule.dll and IP2Location-config.xml. Copy them to the bin folder of your website.

- https://www.ip2location.com/downloads/ip2location-http-module.zip

3.2 BIN Database Download

You may download free sample databases, DB1 to DB25, 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

3.3.1 Modify The web.config File

Modify your modules section to look like below:

```
<?xml version="1.0" encoding="UTF-8"?>
<configuration>
  <system.webServer>
    <modules runAllManagedModulesForAllRequests="true">
      <add name="IP2LocationModule" type="IP2Location.HTTPModule" />
    </modules>
  </system.webServer>
</configuration>
```

3.3.2 HTTP Module Configuration

Open the IP2Location-config.xml file in your bin folder using any text editor and you can see the below:

```
<?xml version="1.0" encoding="utf-8"?>
<IP2Location_Configuration xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Settings>
    <BIN_File>bin\your_database_file.BIN</BIN_File>
    <Company_Name></Company_Name>
    <License_Key></License_Key>
    <Custom_IP_Server_Variable>HTTP_X_FORWARDED_FOR</Custom_IP_Server_Variable>
```

```
    <Enabled_Server_Variables>True</Enabled_Server_Variables>
  </Settings>
  <ByPassIPs>
    <ByPassIP>
      <IP>1.2.3.4</IP>
    </ByPassIP>
  </ByPassIPs>
  <BlockRules>
    <BlockRule>
      <URL_Regex>.*\.php</URL_Regex>
      <Comparison>NOT IN</Comparison>
      <Countries>US,CA,MY</Countries>
      <Enabled_Rule>True</Enabled_Rule>
    </BlockRule>
  </BlockRules>
  <RedirectRules>
    <RedirectRule>
      <URL_Regex>.*/Default\.aspx</URL_Regex>
      <Redirect_To_URL>http://www.google.sg</Redirect_To_URL>
      <Comparison>IN</Comparison>
      <Countries>MY,SG,AU</Countries>
      <Enabled_Rule>True</Enabled_Rule>
    </RedirectRule>
  </RedirectRules>
</IP2Location_Configuration>
```

What should I change? (ByPassIPs, BlockRules & RedirectRules are optional if you do not require them)

- `<BIN_File>` The relative path for the BIN database file that you have copied into the bin folder of your website. (*relative to the root of your website*)
- `<Company_Name>` No longer required. Just leave this field blank.
- `<License_Key>` No longer required. Just leave this field blank.
- `<Custom_IP_Server_Variable>` Leave blank unless you need to read the IP from a custom field.
- `<Enabled_Server_Variables>` When the value is **True**, your webpages can have access to IP Geolocation data for your visitor's IP address via server variables. You can turn this off by changing the value to **False**.
- Under `<ByPassIPs>`, each `<ByPassIP>` is used to configure an IP address to bypass the block/redirect rules. Just add another `<ByPassIP>` segment if you want to have another IP address bypass the rules.
- Under `<BlockRules>`, each `<BlockRule>` is used to configure a rule for blocking visitor access to the website. Just add another `<BlockRule>` segment if you want another rule.
- `<URL_Regex>` A regular expression string to match various pages and sub-folders.
- `<Comparison>` Allows 2 values; either **IN** or **NOT IN**. In the case of **IN**, if the visitor's country is in the `<Countries>` list for that rule and the `<URL_Regex>` matches the browsed URL then the visitor will be blocked via a HTTP 403 status.
- `<Enabled_Rule>` Accepts either True or False and this just turns on or off the rule.
- `<RedirectRules>` and `<RedirectRule>` works similar to the `<BlockRules>`, except the visitor is redirected to the URL specified in `<Redirect_To_URL>` instead of being blocked.

4. IMPLEMENTATION

4.1 HTTP Module Server Variable Reference

Parameter	Description
HTTP_X_COUNTRY_SHORT	Two-character country code based on ISO 3166.
HTTP_X_COUNTRY_LONG	Country name based on ISO 3166.
HTTP_X_COUNTRY_REGION	Region or state name.
HTTP_X_COUNTRY_CITY	City name.
HTTP_X_COUNTRY_LATITUDE	City latitude.
HTTP_X_COUNTRY_LONGITUDE	City longitude.
HTTP_X_COUNTRY_ZIPCODE	US ZIP Code.
HTTP_X_COUNTRY_TIMEZONE	UTC time zone.
HTTP_X_COUNTRY_ISP	Internet Service Provider or company's name.
HTTP_X_COUNTRY_DOMAIN	Internet domain name associated to IP address range.
HTTP_X_COUNTRY_NETSPEED	Internet connection type. DIAL = dial up, DSL = broadband/cable, COMP = company/T1
HTTP_X_COUNTRY_IDD_CODE	The IDD prefix to call the city from another country.
HTTP_X_COUNTRY_AREA_CODE	A varying length number assigned to geographic areas for call between cities.
HTTP_X_COUNTRY_WEATHER_CODE	The special code to identify the nearest weather observation station.
HTTP_X_COUNTRY_WEATHER_NAME	The name of the nearest weather observation station.
HTTP_X_COUNTRY_MCC	Mobile Country Codes (MCC) as defined in ITU E.212 for use in identifying mobile stations in wireless telephone networks, particularly GSM and UMTS networks.
HTTP_X_COUNTRY_MNC	Mobile Network Code (MNC) is used in combination with a Mobile Country Code (MCC) to uniquely identify a mobile phone operator or carrier.
HTTP_X_COUNTRY_MOBILE_BRAND	Commercial brand associated with the mobile carrier.
HTTP_X_COUNTRY_ELEVATION	Average height of city above sea water in meters (m).
HTTP_X_COUNTRY_USAGE_TYPE	Usage type classification of ISP or company: • (COM) Commercial • (ORG) Organization • (GOV) Government • (MIL) Military • (EDU) University/College/School • (LIB) Library • (CDN) Content Delivery Network • (ISP) Fixed Line ISP • (MOB) Mobile ISP • (DCH) Data Center/Web Hosting/Transit • (SES) Search Engine Spider • (RSV) Reserved

HTTP_X_COUNTRY_ADDRESS_TYPE	IP address types as defined in Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6). • (A) Anycast - One to the closest • (U) Unicast - One to one • (M) Multicast - One to multiple • (B) Broadcast - One to all
HTTP_X_COUNTRY_CATEGORY	The domain category is based on IAB Tech Lab Content Taxonomy. These categories are comprised of Tier-1 and Tier-2 (if available) level categories widely used in services like advertising, Internet security and filtering appliances.

5. SAMPLE CODES

5.1 Sample Codes in ASP.NET (VB)

```
Private Sub ShowServerVariable()
      Response.Write(Request.ServerVariables("REMOTE_ADDR") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_SHORT") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_LONG") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_REGION") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_CITY") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_LATITUDE") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_LONGITUDE") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_ZIPCODE") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_TIMEZONE") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_ISP") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_DOMAIN") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_NETSPEED") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_IDD_CODE") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_AREA_CODE") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_WEATHER_CODE")      &
"<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_WEATHER_NAME")      &
"<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_MCC") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_MNC") & "<br>")
```

```
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_MOBILE_BRAND")      &
"<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_ELEVATION") & "<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_USAGE_TYPE")        &
"<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_ADDRESS_TYPE")      &
"<br>")
      Response.Write(Request.ServerVariables("HTTP_X_COUNTRY_CATEGORY") & "<br>")
End Sub
```

5.2 Sample Codes in ASP.NET (C#)

```
private void ShowServerVariable()
{
      Response.Write(Request.ServerVariables["REMOTE_ADDR"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_SHORT"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_LONG"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_REGION"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_CITY"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_LATITUDE"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_LONGITUDE"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_ZIPCODE"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_IDD_CODE"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_AREA_CODE"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_WEATHER_CODE"]      +
"\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_WEATHER_NAME"]      +
"\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_MCC"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_MNC"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_MOBILE_BRAND"]      +
"\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_ELENATION"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_USAGE_TYPE"] + "\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_ADDRESS_TYPE"]      +
"\n");
      Response.Write(Request.ServerVariables["HTTP_X_COUNTRY_CATEGORY"] + "\n");
}
```

5.3 Sample Codes in ASP

```
<html>
	<head>
		<title>IP2Location HTTP Module</title>
	</head>
	<body>
		<%=Request.ServerVariables("REMOTE_ADDR") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_SHORT") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_LONG") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_REGION") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_CITY") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_LATITUDE") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_LONGITUDE") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_ZIPCODE") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_TIMEZONE") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_ISP") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_DOMAIN") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_NETSPEED") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_IDD_CODE") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_AREA_CODE") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_WEATHER_CODE") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_WEATHER_NAME") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_MCC") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_MNC") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_MOBILE_BRAND") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_ELEVATION") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_USAGE_TYPE") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_ADDRESS_TYPE") & "<br>"%>
		<%=Request.ServerVariables("HTTP_X_COUNTRY_CATEGORY") & "<br>"%>
	</body>
		</html>
	</body>
</html>
```

5.4 Sample Codes in PHP

```
<html>
	<head>
		<title>IP2Location HTTP Module</title>
```

```
	</head>
	<body>
		<?php
			Echo $_SERVER['REMOTE_ADDR'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_SHORT'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_LONG'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_REGION'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_CITY'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_LATITUDE'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_LONGITUDE'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_ZIPCODE'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_TIMEZONE'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_ISP'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_DOMAIN'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_NETSPEED'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_IDD_CODE’] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_AREA_CODE'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_WEATHER_CODE'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_WEATHER_NAME'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_MCC'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_MNC’] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_MOBILE_BRAND'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_ELEVATION'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_USAGE_TYPE'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_ADDRESS_TYPE'] . "<br>";
			Echo $_SERVER['HTTP_X_COUNTRY_CATEGORY'] . "<br>";
		?>
	</body>
</html>
```

5.5 Sample Codes in Cold Fusion

```
<cfoutput>#CGI.REMOTE_ADDR#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_SHORT#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_LONG#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_REGION#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_CITY#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_LATITUDE#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_LONGITUDE#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_ZIPCODE#</cfoutput>
```

```
<cfoutput>#CGI.HTTP_X_COUNTRY_TIMEZONE#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_ISP#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_DOMAIN#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_NETSPEED#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_IDD_CODE#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_AREA_CODE#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_WEATHER_CODE#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_WEATHER_NAME#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_MCC#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_MNC#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_MOBILE_BRAND#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_ELEVATION#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_USAGE_TYPE#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_ADDRESS_TYPE#</cfoutput>
<cfoutput>#CGI.HTTP_X_COUNTRY_CATEGORY#</cfoutput>
```

6. UPDATE DATABASE

6.1 Update Internal Database

The IP2Location™ HTTP Module 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 HTTP Module 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.

6.2 Upgrade Component

To upgrade to a new version of IP2Location™ HTTP Module, you need to download and extract the new IP2LocationHTTPModule.dll file from the zipped file and replace the existing one.

6.3 Uninstall Component

To uninstall IP2Location™ HTTP Module, just remove the IP2LocationHTTPModule.dll file from the bin folder of your website.

7. APPENDIX I: ISO3166 COUNTRY CODE

This table lists all valid ISO3166 two characters country codes that returns from IP2Location™ HTTP Module 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 (PLURINATIONAL STATE OF)
BQ	BONAIRE, SINT EUSTATIUS AND SABA
BR	BRAZIL
BS	BAHAMAS
BT	BHUTAN
BV	BOUVET ISLAND
BW	BOTSWANA
BY	BELARUS
BZ	BELIZE
CA	CANADA
CC	COCOS (KEELING) ISLANDS
CD	CONGO, THE DEMOCRATIC REPUBLIC OF THE
CF	CENTRAL AFRICAN REPUBLIC
CG	CONGO (DEMOCRATIC REPUBLIC OF THE)
CH	SWITZERLAND
CI	CÔTE D'IVOIRE
CK	COOK ISLANDS
CL	CHILE
CM	CAMEROON
CN	CHINA
CO	COLOMBIA

Country Code	Country Name
CR	COSTA RICA
CU	CUBA
CV	CABO VERDE
CW	CURAÇAO
CX	CHRISTMAS ISLAND
CY	CYPRUS
CZ	CZECHIA
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	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND
GD	GRENADA
GE	GEORGIA
GF	FRENCH GUIANA
GG	GUERNSEY
GH	GHANA
GI	GIBRALTAR
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

Country Code	Country Name
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
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

Country Code	Country Name
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
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

Country Code	Country Name
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	ESWATINI
TC	TURKS AND CAICOS ISLANDS
TD	CHAD
TF	FRENCH SOUTHERN TERRITORIES
TG	TOGO
TH	THAILAND
TJ	TAJIKISTAN
TK	TOKELAU
TL	TIMOR-LESTE
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 OF AMERICA
UY	URUGUAY
UZ	UZBEKISTAN
VA	HOLY SEE
VC	SAINT VINCENT AND THE GRENADINES
VE	VENEZUELA (BOLIVARIAN REPUBLIC OF)
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

Country Code	Country Name
ZM	ZAMBIA
ZW	ZIMBABWE

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