

# **IP2Location™**

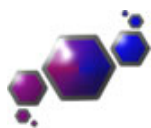
## **[Country Edition]**

### **ActiveX/COM DLL**

*for Microsoft® Windows Platforms*

## **Quick Start Guide**

**Document Version 1.2**



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# Introduction

## Welcome to IP2Location™

Welcome to **IP2Location™** – the solution for identifying the country origin of your site visitors in real-time. This documentation provides detailed information to help you quickly get up to speed with our products and master it in no time at all.

Developers use this ActiveX/COM DLL for projects related to:

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

IP2Location™ is written in ATL C++ and optimized for Windows® O/S performance. Our lab benchmark<sup>1</sup> proven that IP2Location™ component outperformed all competitors with an impressive 60000 queries / second<sup>2</sup>.

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### NOTE:

<sup>1</sup> System configuration used in benchmarking:

Processor: Single Intel® Xeon III 2GHz

Memory: 1GB

<sup>2</sup> The demo version is fully functioning with a 5-second delay restriction apply to every query. Delay is removed immediately in registered version. Proceed to Step 4 to purchase license/s.

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# Quick Start Guides

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

1. Download and install IP2Location™ (Country Edition) ActiveX/COM DLL
2. Test your installation
3. Start using IP2Location™ in your projects
4. Purchase license to remove 5 seconds delay in demo version
5. Update or uninstall IP2Location™ component

# Step 1: Download and Install ActiveX/COM DLL

## 1.1 Download

To download the latest IP2Location™ ActiveX/COM DLL Component, please follow the component download link from this URL.

<http://www.ip2location.com/ip2location-country.zip>

## 1.2 Installation

General steps in installing IP2Location™ ActiveX/COM DLL component.

1. Unzip demo package and copy component “ip2location.dll” to a directory in web server. Directory *Windows\system32\* or *Winnt\system32\* is recommended.
2. Register the DLL component by:

### Option I

From the command prompt navigating to the directory where you installed ip2location.dll and then running the command:

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

### **OR**

### Option II

Clicking 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.

3. Right click ip2location.dll, select “Properties” and go to “Security” tab. Add “Read & Execute” to the Internet user account ie. “IUSR\_<machine>”

## 1.3 System Requirements

Before installing IP2Location™ (Country Edition) please verify your system meets the following minimum system requirements.

You must be using either of the following operating systems:

- ❑ Windows® 95/98
- ❑ Windows® Millennium
- ❑ Windows® NT 4.0 SP3 or later
- ❑ Windows® 2000
- ❑ Windows® XP

A programming or scripting language that supports the server-side ActiveX/COM objects. This includes:

- ❑ Microsoft® ASP/ ASP.NET
- ❑ PHP
- ❑ Macromedia® ColdFusion
- ❑ Visual Basic / Visual Basic.NET
- ❑ C++ / C++ .NET
- ❑ C#

## Step 2: Test IP2Location™ Installation

### 2.1 Testing

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

<code>/ip2location.asp</code>	(ASP demo script)
<code>/ip2location.php</code>	(PHP demo script)

Copy these samples to a web directory configured to run web scripts. Then run these samples using your browser.

If IP2Location™ is installed properly, the sample will execute and demonstrate common uses of our product. For demo version, you will have a 5-minutes delay in every query. Registered version has unlimited real-time query without delay.

## Step 3: Implement IP2Location™ Component

### 3.1 IP2Location™ Object Reference

Method	Description
<code>CountryCodeToName (Code As String)</code>	Return full country name from country code. Refer Appendix I.
<code>Initialize (RegCode As String)</code>	Apply registration code to remove 5-seconds query delay.
<code>LookUpFullName (IPAddress As String)</code>	Return full country name of a specified IP address.
<code>LookUpShortName (IPAddress As String)</code>	Return country code (two letters) of a specified IP address. Refer Appendix I.
<code>Version()</code>	Return component version.

### 3.2 Sample Codes in ASP

```
<%  
    ' create server-side object  
    Set ipObj = Server.CreateObject("IP2Location.Country")  
  
    ' initialize IP2Location™ Component  
    If ipObj.Initialize("demo") <> "OK" Then  
        'initialization failed  
    End If  
  
    ' it will return "US"  
    CountryName = ipObj.LookUpShortName("205.188.145.215")  
  
    ' it will return "United States"  
    CountryName = ipObj.LookUpFullName("205.188.145.215")  
  
    ' it will return "Japan"  
    CountryName = ipObj.CountryCodeToName("JP")  
  
    ' it will return "2002.11.1.1" or other version number  
    VersionName = ipObj.Version  
  
    ' free object  
    Set ipObj = nothing  
%>
```

### 3.3 Sample Codes in PHP

```
<?
# create server-side object
$ipObj = new COM("IP2Location.Country");

# initialize IP2Location™ Component
if ($ipObj->Initialize("demo") != "OK") {
    # initialization failed
}

# it will return "US"
$CountryName = $ipObj->LookUpShortName("205.188.145.215");

# it will return "United States"
$CountryName = $ipObj->LookUpFullName("205.188.145.215");

# it will return "Japan"
$CountryName = $ipObj->CountryCodeToName("JP");

# it will return "2002.11.1.1" or other version number
$VersionName = $ipObj->Version;

# free object
$ipObj = null;
?>
```

### 3.4 Sample Codes in Cold Fusion

```
<!-- 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()>
```



### 3.5 Sample Codes in Visual Basic

```
REM create client-side object
Set ipObj = Createobject("IP2Location.Country")

REM initialize IP2LocationT Component
If ipObj.Initialize("demo") <> "OK" Then
    REM initialization failed
End If

REM it will return "US"
CountryName = ipObj.LookUpShortName("205.188.145.215")

REM it will return "United States"
CountryName = ipObj.LookUpFullName("205.188.145.215")

REM it will return "Japan"
CountryName = ipObj.CountryCodeToName("JP")

REM it will return the version number
VersionName = ipObj.Version

REM free object
Set ipObj = nothing
```

### 3.6 Sample Codes in Visual C++

```
#import "c:\winnt\system32\ip2location.dll" no_namespace

HRESULT hr = OleInitialize(NULL);
IDYNUCREDITCARDObjPtr 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();
```

### 3.7 Sample Codes in Delphi

```
Include the ComObj unit in your unit as shown below
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;
```

### 3.8 Sample Codes in Perl

```
use OLE;

$code = Win32::OLECreateObject('IP2Location.Country',$ipObj) or
die "Couldn't create new ipObj Object!";

# initialize IP2LocationT 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();
```

## Step 4: Purchase IP2Location™ Component

### 4.1 License Policies and Discounts

A license is required for each machine the product is installed on, including development/staging machines. Quantity discounts are applied to purchases of 2, 5 and 10 or more licenses respectively. An unconditional, 30 day money-back guarantee comes standard with all purchases.

Quantity	Price (US\$)
1 Server License	\$79
2 Servers License	\$139
5 Servers License	\$299
10 Servers License	\$499

### 4.2 Purchase Instructions

Proceed to our order page. Fill out the online form and choose the correct number of license/s. Once your order has been approved, you will receive your registration code immediately in email. Initialize the ActiveX component with the registration code in your script will remove the 5-seconds query delay.

Secure Order Page:

<https://www.regsoft.net/purchase.php3?productid=53535>

For example, if the registration code is “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;
```

## Step 5: Upgrade or Uninstall Component

### 5.1 Upgrade Component

To upgrade a new version of IP-Country database, you can overwrite the IP2Location™ ActiveX DLL Component "ip2location.dll" after uninstall 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
```

Then, unregister component and upgrade a new 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
```

### 5.2 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 memory, as follows:

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

Then

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

## Appendix I: ISO3166 Country Code

This table lists all valid ISO3166 two characters country codes that returns from component API query and describe the country names behind 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
AN	NETHERLANDS ANTILLES
AO	ANGOLA
AP	ASIA PACIFIC
AQ	ANTARCTICA
AR	ARGENTINA
AS	AMERICAN SAMOA
AT	AUSTRIA
AU	AUSTRALIA
AW	ARUBA
AZ	AZERBAIJAN
BA	BOSNIA AND HERZEGOWINA
BB	BARBADOS
BD	BANGLADESH
BE	BELGIUM
BF	BURKINA FASO
BG	BULGARIA
BH	BAHRAIN
BI	BURUNDI
BJ	BENIN
BM	BERMUDA
BN	BRUNEI DARUSSALAM
BO	BOLIVIA
BR	BRAZIL
BS	BAHAMAS
BT	BHUTAN
BV	BOUVET ISLAND
BW	BOTSWANA
BY	BELARUS
BZ	BELIZE
CA	CANADA

Country Code	Country Name
CC	COCOS (KEELING) ISLANDS
CD	CONGO, THE DEMOCRATIC REPUBLIC OF THE
CF	CENTRAL AFRICAN REPUBLIC
CG	CONGO
CH	SWITZERLAND
CI	COTE D'IVOIRE
CK	COOK ISLANDS
CL	CHILE
CM	CAMEROON
CN	CHINA
CO	COLOMBIA
CR	COSTA RICA
CS	CZECHOSLOVAKIA (FORMER)
CU	CUBA
CV	CAPE VERDE
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
EU	EUROPEAN UNION
FI	FINLAND
FJ	FIJI
FK	FALKLAND ISLANDS (MALVINAS)
FM	MICRONESIA, FEDERATED STATES OF
FO	FAROE ISLANDS
FR	FRANCE
FX	FRANCE, METROPOLITAN
GA	GABON
GB	GREAT BRITAIN
GD	GRENADA
GE	GEORGIA
GF	FRENCH GUIANA



Country Code	Country Name
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
HT	HAITI
HU	HUNGARY
ID	INDONESIA
IE	IRELAND
IL	ISRAEL
IN	INDIA
IO	BRITISH INDIAN OCEAN TERRITORY
IQ	IRAQ
IR	IRAN, ISLAMIC REPUBLIC OF
IS	ICELAND
IT	ITALY
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

Country Code	Country Name
LC	SAINT LUCIA
LI	LIECHTENSTEIN
LK	SRI LANKA
LR	LIBERIA
LS	LESOTHO
LT	LITHUANIA
LU	LUXEMBOURG
LV	LATVIA
LY	LIBYAN ARAB JAMAHIRIYA
MA	MOROCCO
MC	MONACO
MD	MOLDOVA, REPUBLIC OF
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

Country Code	Country Name
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 TERRITORY, OCCUPIED
PT	PORTUGAL
PW	PALAU
PY	PARAGUAY
QA	QATAR
RE	REUNION
RO	ROMANIA
RU	RUSSIAN FEDERATION
RW	RWANDA
SA	SAUDI ARABIA
SB	SOLOMON ISLANDS
SC	SEYCHELLES
SD	SUDAN
SE	SWEDEN
SG	SINGAPORE
SH	SAINT HELENA
SI	SLOVENIA
SJ	SVALBARD AND JAN MAYEN
SK	SLOVAKIA
SL	SIERRA LEONE
SM	SAN MARINO
SN	SENEGAL
SO	SOMALIA
SR	SURINAME
ST	SAO TOME AND PRINCIPE
SU	RUSSIAN FEDERATION
SV	EL SALVADOR
SY	SYRIAN ARAB REPUBLIC
SZ	SWAZILAND
TC	TURKS AND CAICOS ISLANDS
TD	CHAD
TF	FRENCH SOUTHERN TERRITORIES
TG	TOGO
TH	THAILAND
TJ	TAJIKISTAN

Country Code	Country Name
TK	TOKELAU
TM	TURKMENISTAN
TN	TUNISIA
TO	TONGA
TP	EAST TIMOR
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
YU	YUGOSLAVIA
ZA	SOUTH AFRICA
ZM	ZAMBIA
ZW	ZIMBABWE

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