

# Getting Started with the Tometa WhereIs Web Service

## Table of Contents

Table of Contents.....	1
Introduction .....	3
What data can you get from WhereIs?.....	3
How do you access WhereIs?.....	3
Steps to get Started .....	4
Need Programming Help?.....	5
Sample Applications.....	5
Using Tometa WhereIs in a Web Page.....	6

## Introduction

This web service is designed to determine geographical locations by IP address. There is a large amount of data that can be extracted from an address and WhereIs allows this information to be accessed easily. The service can be found at <http://webservicestometa.com/WhereIs/WhereIs.asmx>. This is the URL used by the Tometa web proxy when calling a WhereIs method.

To use this web service, you must be able to make SOAP requests over HTTP. The request body must be signed using WS-Security and no password (access key) should be included in the SOAP message; otherwise the request will be rejected constantly. If you plan to use the web service directly with a Microsoft .NET platform language, you must use the Microsoft WSE 2.0 (SP3) library.

When you purchase a WhereIs license you purchase the ability to call specific methods of the service. If you attempt to call a method that you are not licensed for, an exception will be thrown.

The possibilities are endless with the WhereIs service. Tometa currently uses it in 3 products including GeoBlock, LaptopLocate.net and our own home page [tometasoftware.com](http://tometasoftware.com).

## What data can you get from WhereIs?

<i>City name (e.g. Spokane)</i>
<i>State or Region name (e.g. Washington)</i>
<i>Full country name (e.g. United States of America)</i>
<i>Postal code</i>
<i>Area code (e.g. 509)</i>
<i>Latitude</i>
<i>Longitude</i>
<i>IP address</i>
<i>Country code (e.g. US)</i>
<i>Country code (e.g. USA)</i>
<i>DMA Code (e.g. 881)</i>
<i>Region code (e.g. WA)</i>
<i>Country Flag Graphic</i>
<i>Get a Full Country List</i>

## How do you access WhereIs?

There are three ways to access the WhereIs service and data:

- 1) Directly call the web service

- 2) Generate JavaScript for HTML using our WebText generator
- 3) Utilize Tometa's proxy library (DLL)

## Steps to get Started

- 1) Download the SDK from [http://www.tometasoftware.com/twi/whereis\\_sdk.exe](http://www.tometasoftware.com/twi/whereis_sdk.exe)
- 2) Order your service level from [http://www.tometasoftware.com/order\\_twi.asp](http://www.tometasoftware.com/order_twi.asp) or obtain a trial key by emailing [whereis\\_trial@tometasoftware.com](mailto:whereis_trial@tometasoftware.com) requesting a 30 day trial.
- 3) Determine how you want to access the service. Do you just want to display location information on your web page? If so you will just use WebText code generator at <http://webservices.tometasoftware.com/WhereIsWebText/> If, however, you have an application that requires deeper functionality? Then use the web service directly or utilize the .NET proxy library included in the SDK.

### How to setup a service proxy instance(C#)

```
WhereIsWse service = new WhereIsWse();
// Set web service url
service.Url = _url;
// Set your account name and access key, password option should be SendNone
UsernameToken token = new UsernameToken(_userName, _accessKey,
PasswordOption.SendNone);
// Add authentication token in to the SOAP context
service.RequestSoapContext.Security.Tokens.Add(token);
// Create message signature instance
MessageSignature sig = new MessageSignature(token);
// The message body should be signed
sig.SignatureOptions = SignatureOptions.IncludeSoapBody;
// Add signature instance in to the SOAP context
service.RequestSoapContext.Security.Elements.Add(sig);
// Now any web method can be easily invoked
```

If you use Visual Studio (.NET or 2005) to generate a web reference, the base class of the reference proxy must be change to inherit from [WebServicesClientProtocol](#) from the WSE2 Microsoft.Web.Services2 namespace.

### VersionID SOAP Header

A VersionID header can be applied to following web methods:

- LookupCountry
- LookupCountries
- LookupFullInfo
- GetAllRecords

When applied, the database specified by the version header will be used. A list of all available database versions can be retrieved by calling the web method [GetAvailableDBVersions](#).

### Sample:

```
// Setup service proxy instance
...
// Lookup for available databases
DBVersion[] databases = service.GetAvailableDBVersions();
// Set VersionID header to first available database
```

```
service.DBVersionHeaderValue.verid = databases[0].id;  
// Now any method can be called with VersionID header applied
```

## Need Programming Help?

Tometa Software designs and develops robust software solutions for virtually all industries including in-house (vertical market) and retail software, some of which is on the shelves at your local software store. We focus our unique combination of creative, technical, and problem-solving skills on meeting our client's objectives. Because of our clarity of purpose, commitment to process, and broad professional skill sets, we are able to provide our clients with world-class solutions that are functionally superior and fully aligned with our client's strategic focus.

In a nutshell: we design (web sites, networks, applications, and databases), we write software (in over 35 languages, anything you need), we consult (on high technology and for all sizes of companies), and we offer a slew of network services.

Our team brings proven credentials, key vendor relationships, and with real-world expertise to bear on your technology challenges. We offer award-winning design, software development, database modeling, e-commerce solutions, hosting/co-location services, and so much more. Whether your needs are a device driver, e-Business, a wireless LAN, changes to existing code or standard rich client application; Tometa Software can bring you solutions from the technical requirements to infrastructure security. At Tometa our end-to-end solutions enable better, faster customer service and decision making...anytime, anywhere.

Our projects vary between standard application development, specification design, technology consulting to application maintenance and everything in between. Ask us if we can do it!

Our highly skilled technical staff can quickly develop a reliable, scalable foundation for your Internet or Rich Client Applications. Our creative and graphical specialists can design the "eye-appeal" to make your interactive site or application stand out in the crowd. Together, our team is unbeatable in delivering a high value for your investment.

Lastly, as a Microsoft Certified Gold Partner, Tometa Software, can customize its products or create custom web, client/server, and traditional applications. With hundreds of years combined programming experience in C#, C++, Visual Basic, CGI, HTML, RPG, Delphi, Java and many others; Tometa Software is uniquely positioned to meet your needs as a development firm.

Contact us today! [http://www.tometasoftware.com/corporate\\_cu.asp](http://www.tometasoftware.com/corporate_cu.asp)

## Sample Applications

A number of sample applications are available. Examples include .NET 1.1 applications written in C#, J#, VB.NET, and C++.NET. There is also a .NET 2.0 application written in C#. These sample applications use WSE2. In addition, to speed up development time with WhereIs, we have included two DLLs which encapsulate the needed functionality of a web reference in addition to extended functionality. The two DLLs are Tometa.WhereIs.V1.DLL and Tometa.WhereIs.V2.DLL. The version one DLL is written for the .NET 1.1 platforms. We also supply documentation for this DLL in the SDK. The version two DLL is an equivalent DLL for the

.NET 2.0 platform. It also has extended functionality in addition to that of the version one DLL. We also supply the source to both DLLs should you wish to extend or modify them. Please see the sample applications and help file to see how to use the DLLs. Note that you do not need to create a web reference when using the supplied utility DLLs.

## **Using Tometa Wherels in a Web Page**

Using your user name and access key, open

<http://webservices.tometasoftware.com/WherelsWebText/> in your web browser and log into the site. Once you have logged in you can use the “Settings Form” to configure domains from which you will be using the service. All you need to do is enter your domain as your-domain-name.com, and add it to the list. This enables Javascript calls from your site to the service for your account. Once you have added a domain you should go to the WebText Forms page in the navigation menu. There you will be shown how to make calls from your web pages and be able to utilize our pre built templates.