

# Data Appliance 5.1 for ArcGIS World Places Locator Help



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# Welcome to Data Appliance 5.1 for ArcGIS World Places Locator

Welcome to the Help system for Data Appliance for ArcGIS World Places Locator.

The World Places Locator is shipped with Data Appliance 5.1 for ArcGIS on a separate DVD containing data, service documents, and help for publishing the locator. If you published the World Places Locator with a previous release, you need to update your environment to use the DVD version prior to your Data Appliance collection upgrade.

The World Places Locator Help includes the following topics:

- [World Places Locator](#) service description
- Deployment instructions for [ArcGIS 10.1 for Server](#) and [ArcGIS Server 10](#)
- Instructions for using a geocode service with [ArcGIS](#)

## Other resources

Use the [Data Appliance for ArcGIS Resource Center](#) for additional resources for Data Appliance for ArcGIS (hardware user guides, system references, and quick-start guides).

# World Places Locator



## Service Name: ESRI\_Places\_World

This locator enables you to geocode various types of places around the world. It references a geodatabase of more than 14 million places around the world that includes countries, states and provinces, administrative areas (for example, counties), cities, landmarks, water bodies, and more.

The geodatabase is built primarily using the GeoNames Data which is accessible via Creative Commons Attribution 3.0 License through [www.geonames.org](http://www.geonames.org). Esri has assembled selected records from the May 2011 GeoNames Data and appended additional attributes (for example, description, rank, bounding coordinates, and so on) for use in this locator.

You may contribute to the future content of this locator by submitting or editing place-names through [GeoNames](http://GeoNames).

The locator accepts a single-line place-name input (for example, Paris, or Paris, France, or Washington, DC) and returns candidates sorted by match score and rank. This locator can be used to geocode single places.

The data used in the service is in Geographic Coordinate System (GCS) WGS84.

**Attribution:** Source: Esri, GeoNames

**Directory Size:** 2.42 GB

## Technical Notes:

- **Candidate sorting:** Candidate results are sorted using multiple fields in the following sequence:
  - Match Score (Score): Beginning with a full match of 100 and proceeding down to the minimum match score
  - Rank (Rank): Beginning with a rank of 1 for most prominent places and proceeding up to 99 for less prominent places
- **Shape:** Geometry of the output.
- **Score:** A value assigned to all potential candidates of an address match. The match score is based on how well the location found in the reference data matches with the address being searched.
- **Name:** Name of the place.
- **Type:** Type of place (for example, Populated Place, Hill, Farm, Administrative Division, Amusement Park, and so on). There are several hundred unique types in the database. The type field can be used to filter out some candidates you don't want to present to a user.
- **Rank:** Indicates the relative prominence of the place and can be used for sorting. The rank field is based on the place type and, in some cases, its population. The values range from 1 for the most

prominent places (for example, countries) up to 100 for less prominent places (for example, points of interest). Candidates returned from the service are not always sorted by rank, so you can re-sort candidates by rank if you prefer.

- **Match\_addr:** The corresponding address in the reference data for the candidate point.
- **Descr:** Includes a full description of the place that typically includes its name, type, and the administrative area in which it is located. This is typically the field you would want to display to users for candidates. ArcGIS Locator currently returns the values in all capitals so you may want to convert the text to title casing (capitalize first letter only) before presenting in a list. The locator separately returns several fields used in building the description (for example, Name, Type, City, State, Country), so you can assemble your own custom description if you prefer.
- **City:** Name of the candidate city.
- **County:** Name of the candidate county or administrative unit.
- **State:** Name of the candidate state or administrative unit.
- **State\_Abbr:** Abbreviation for the candidate state or administrative unit.
- **Country:** Name of the candidate country.
- **Cntry\_Abbr:** Abbreviation for the candidate country.
- **Latitude:** Latitude of candidate point.
- **Longitude:** Longitude of candidate point.
- **Bounding Coordinates:** The four bounding coordinates for a place (that is, North\_Lat, South\_Lat, West\_Lon, East\_Lon) are returned for candidates. These can be used to navigate the map to an area surrounding the place (for example, map extent of California rather than centroid point). For some features (for example, administrative divisions, countries, states, counties, ZIP codes), these extents were derived from a polygon features. In other cases (for example, points of interest), these extents were approximated by buffering the point location by an average extent.

# Deploying the World Places Locator on ArcGIS 10.1 for Server

Data resources required for deploying the World Places Locator are found on the DVD containing the World Places Locator dataset:

- The Locators folder contains four files:
  - ESRI\_Places\_World.sd
  - worldplaces.loc
  - worldplaces.loc.xml
  - worldplaces.lox
- The help PDF file has information for deploying the World Places Locator on ArcGIS 10.1 for Server.

 **Note:** If you are not planning to upgrade to ArcGIS 10.1 for Server and are still using 10.0, refer to the instructions for [Deploying the World Places Locator on ArcGIS Server 10](#).

The following instructions are available to assist you in deploying the World Places Locator on your system:

- For details on prerequisites for using the data collections, see [Prerequisites](#).
- For information on supported environments, see [Requirements](#).
- If you previously used World Places Locator (ESRI\_Places World) from the Data Appliance World Collection 5.0 or an earlier version and you received a data collection upgrade for Data Appliance 5.1 for ArcGIS, you will need to [delete this service from ArcGIS 10.1 for Server](#).
- For deployment instructions, see [Adding the World Places Locator on ArcGIS 10.1 for Server](#).

# Prerequisites for ArcGIS 10.1 for Server

The following prerequisites must be met before you deploy Data Appliance 5.1 for ArcGIS World Places Locator to your GIS server:

- You must have ArcGIS 10.1 for Server or higher installed, configured, and running with the latest service packs installed. If ArcGIS 10.1 for Server or higher is not running or if you have problems with the installation, see [Installing ArcGIS 10.1 for Server for Windows](#) or [Installing ArcGIS 10.1 for Server for Linux](#).

 **Note:** If you are not planning to upgrade to ArcGIS 10.1 for Server and are using 10.0, please refer to the instructions for [Deploying the World Places Locator on ArcGIS Server 10](#).

# Requirements

The Data Appliance 5.1 for ArcGIS World Places Locator is [tested and certified](#) to work in a number of environments. For information on supported environments, see [System requirements](#) for Data Appliance for ArcGIS on the ArcGIS Resources website.

Data Appliance for ArcGIS World Places Locator may work in other environments supported by ArcGIS Server, but Data Appliance for ArcGIS has not been tested and certified on those environments.

## Deleting a geocode service on ArcGIS 10.1 for Server

If you previously used the World Places Locator (ESRI\_Places World) from Data Appliance World Collection 5.0 or an earlier version and you received a data collection upgrade for Data Appliance 5.1 for ArcGIS, you will need to remove this service from ArcGIS for Server and add it from the DVD included with Data Appliance 5.1 for ArcGIS. This is necessary because the World Places Locator is no longer included on the data collection of drives; it is now shipped on a separate DVD included with the data appliance.

The instructions below describe how to delete this geocode service from ArcGIS 10.1 for Server.

### Steps:

1. Log in to ArcGIS for Server using the Data Appliance for ArcGIS data account with administrator privileges.
2. Start ArcGIS Server Manager and log in using your ArcGIS Server account.
3. Click **Services > Manage Services**.
4. Locate the ESRI\_Places\_World service in the Services module and click **Delete**. The service is deleted from your server.

# Adding the World Places Locator on ArcGIS 10.1 for Server

The [World Places Locator \(ESRI\\_Places World\)](#) enables you to find world places.

 **Note:** See [Requirements](#) for information on supported environments.

To use a locator, you need to deploy it using ArcGIS Server Manager. The following steps walk you through the deployment process for ArcGIS 10.1 for Server.

## Copy the worldplaces folder to the GIS server

Copy the worldplaces folder from the locators folder on the DVD to your GIS server, for example, to C:\locators\worldplaces. You can use Windows Copy and Paste tools or another copy utility.

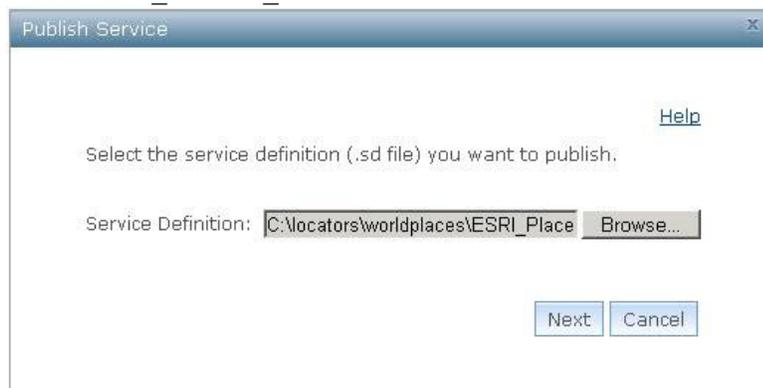
## Publishing the World Places Locator on ArcGIS 10.1

Using **ArcGIS Server Manager**, you can publish the World Places Locator service definition file (.sd) as a service.

 **Note:** The service definition file, ESRI\_Places\_World.sd, is created with the data path C:\locators\worldplaces. If the data is copied to a different path, the service will be published but not started. Use the REST admin tool to correct the path, then start the service.

### Steps:

1. Open **ArcGIS Server Manager** and log in.
2. Click **Services > Manage Services > Publish Service**.
3. Click **Browse** to navigate to the `locators > worldplaces` folder on your GIS server, for example, C:\locators\worldplaces.
4. Select `ESRI_Places_World.sd` and click **Next**.



5. On the specify properties dialog box, make sure the **Name** is `ESRI_Places_World`, the **Type** is `Geocode Service`, and choose any **Folder**. Click **Next**.

Publish Service

[Help](#)

Specify properties for your new service and click Next.

Name:

Type:

Folder:  Existing    
 New

Cluster:

Start service immediately

6. Click **Publish** to publish the service definition as a service.  
The published service screen appears for ESRI\_Places\_World geocode service indicating **Status: Started**. The new geocode service will appear in the list of available services.

For more information, see [Publishing a service definition to the server in Manager](#) for Windows in ArcGIS 10.1 for Server Help under **Services > ArcGIS for Server (Windows) > Publishing services > How to publish services** or [Publishing a service definition to the server in Manager](#) for Linux in ArcGIS 10.1 for Server Help under **Services > ArcGIS for Server (Linux) > Publishing services > How to publish services**.

# Deploying the World Places Locator on ArcGIS Server 10

Data resources required for deploying the World Places Locator are found on the DVD containing the World Places Locator dataset:

- The Locators folder contains three files:
  - worldplaces.loc
  - worldplaces.loc.xml
  - worldplaces.lox
- The help PDF file has information for deploying the World Places Locator on ArcGIS Server.

 **Note:** If you are planning to upgrade to ArcGIS 10.1 for Server, or if you are already using 10.1, refer to the instructions for [Deploying the World Places Locator on ArcGIS 10.1 for Server](#).

The following instructions are available to assist you in deploying the World Places Locator on your system:

- For details on prerequisites for using the data collections, see [Prerequisites](#).
- For information on supported environments, see [Requirements](#).
- If you previously used World Places Locator (ESRI\_Places World) from the Data Appliance World Collection 5.0 or an earlier version and you received a data collection upgrade for Data Appliance 5.1 for ArcGIS, you will need to [delete this service from ArcGIS Server 10](#).
- For deployment instructions, see [Adding the World Places Locator on ArcGIS Server 10](#).

# Prerequisites for ArcGIS Server 10

The following prerequisites must be met before you deploy Data Appliance 5.1 for ArcGIS World Places Locator to your GIS server:

- You must have ArcGIS Server 10 SP5 or higher installed, configured, and running with the latest service packs installed. If ArcGIS Server 10 SP5 or higher is not running or if you have problems with the installation, see ArcGIS Server 10 [.NET](#) or [Java](#) Help.

 **Note:** If you are planning to upgrade to ArcGIS 10.1 for Server, or if you are already using it, refer to the instructions for [Deploying the World Places Locator on ArcGIS 10.1 for Server](#).

# Requirements

The Data Appliance 5.1 for ArcGIS World Places Locator is [tested and certified](#) to work in a number of environments. For information on supported environments, see [System requirements](#) for Data Appliance for ArcGIS on the ArcGIS Resources website.

Data Appliance for ArcGIS World Places Locator may work in other environments supported by ArcGIS Server, but Data Appliance for ArcGIS has not been tested and certified on those environments.

## Deleting a geocode service on ArcGIS Server 10

If you previously used the World Places Locator (ESRI\_Places World) from the Data Appliance World Collection 5.0 or an earlier version and you received a data collection upgrade for Data Appliance 5.1 for ArcGIS, you will need to delete this service from ArcGIS Server and [add it from the DVD](#) included with Data Appliance 5.1 for ArcGIS. This is necessary because the World Places Locator is no longer included on the data collection of drives; it is now shipped on a separate DVD included with the data appliance.

The instructions below describe how to remove this geocode service from ArcGIS Server 10.

### Steps:

1. Log in to ArcGIS Server using an account with administrative privileges.
2. Start ArcGIS Server Manager and log in using your ArcGIS for Server account.
3. In ArcGIS Server Manager, click the **Services** tab.
4. Check the check box next to the geocode service you want to remove, for example, `ESRI_Places_World`.
5. Optionally, pause the service by clicking **Pause**, then check the check box again.
6. Click **Delete**.

# Adding the World Places Locator on ArcGIS Server 10

The [World Places Locator \(ESRI\\_Places World\)](#) enables you to find world places.

 **Note:** For information on supported environments, see [Requirements](#).

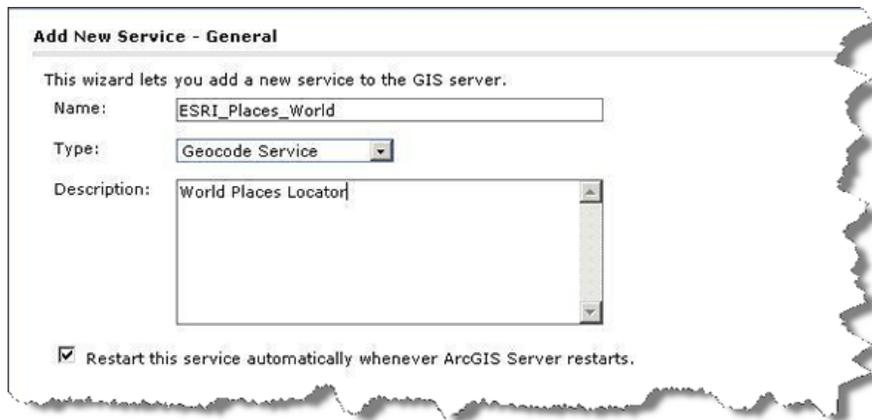
To use a locator, you need to deploy it using ArcGIS Server Manager. The following steps walk you through the deployment process for ArcGIS Server 10.

## Steps:

1. Copy the worldplaces folder from the locators folder on the DVD to your GIS server, for example, to \\MyServer\locators\worldplaces. You can use Windows Copy and Paste tools or another copy utility.
2. Log in to ArcGIS Server using an account with administrative privileges.
3. Start ArcGIS Server Manager and log in using your ArcGIS Server account.
4. In ArcGIS Server Manager, click the **Services** tab.
5. Click **Add New Service**. You can create a service in the root folder or use the **Manage Folders** drop-down arrow to select another location for the new service.



6. On the **Add New Service** dialog box:
  - a. In the **Name** field, enter the name of the geocode service, for example, ESRI\_Places\_World.
  - b. For **Type**, select **Geocode Service**. A Description can also be provided, if desired.
  - c. Make sure **Restart this service automatically** is checked and click **Next**.



7. On the **Parameters** dialog box:
  - a. For the **Locator Name**, enter the name of the file with the .loc extension from the worldplaces folder copied to your GIS server in step 1, for example, worldplaces.loc or worldplaces.
  - b. For the **Location**, enter the path to the worldplaces folder copied to your GIS server in step 1, for example, C:\arcgisserver\locators\worldplaces.
  - c. Change **Batch Size** to 0 since it is not meant for batch geocoding and click **Next**.
8. On the **Capabilities** dialog box:
  - a. Make sure **Geocoding (always enabled)** is checked.
  - b. Check **Enable Web Access**.
  - c. Under **Operations Allowed**, check **Geocode**. Make sure **ReverseGeocode** is not checked and click **Next**.
9. On the **Pooling** dialog box, set the time-out and pooling options and click **Next**.
10. On the **Processes** dialog box, set the process isolation and recycle time and click **Next**.
11. On the **Summary** dialog box, review the information for the service you created and click **Finish** to create the service and start using it.

# Using a geocode service in ArcGIS

After you have added the World Places Locator service to your ArcGIS Server, you are ready to use it.

If you're using ArcGIS 10.1, see [Geocode services](#) in ArcGIS 10.1 for Server (Windows) Help under **Services > ArcGIS for Server (Windows) > Publishing services > Types of services** or [Geocode services](#) in ArcGIS 10.1 for Server (Linux) Help under **Services > ArcGIS for Server (Linux) > Publishing services > Types of services** for more information.

If you're using ArcGIS 10, see [Geocode services](#) in Desktop 10 Help under **Professional Library > ArcGIS Server > Publishing services > Types of services** for more information.

## ArcGIS for Desktop

### ArcGIS 10.1 for Desktop

You can load a locator into ArcMap and use it to find places.

For information on managing geocode services in ArcMap, see [About managing address locators](#) in ArcGIS Help 10.1 under **Guide books > Geocoding > Building an address locator**.

For information on using geocode services in ArcMap 10.1, see [About finding an address](#) in ArcGIS Help 10.1 under **Guide books > Geocoding > Locating addresses**.

### ArcGIS Desktop 10

You can load a locator into ArcMap and use it to find places.

For information on managing geocode services in ArcMap, see [About managing address locators](#) in Desktop 10 Help under **Professional Library > Guide books > Geocoding > Building an address locator**.

For information on using geocode services in ArcMap, see [About finding an address](#) in Desktop 10 Help under **Professional Library > Guide books > Geocoding > Locating addresses**.

## ArcGIS Explorer

You can change the find places functionality of ArcGIS Explorer to use the World Places Locator.

For information on how to select custom resources, see [Custom resources](#) in ArcGIS Explorer Help under **Application configurations: Customizing and deploying Explorer > Application configurations: Customizing and deploying Explorer**.

For information on how to use geocode services in ArcGIS Explorer, see [Find Places, Addresses, or Locations](#) in ArcGIS Explorer Help under **Finding > Places, addresses, or locations**.

## ArcGIS for Server

### ArcGIS 10.1 for Server

For information on using the locator with ArcGIS for Server, see [Geocode services](#) in ArcGIS 10.1 for Server (Windows) Help under **Services > ArcGIS for Server (Windows) > Publishing services > Types**

**of services** or [Geocode services](#) in ArcGIS 10.1 for Server (Linux) Help under **Services > ArcGIS for Server (Linux) > Publishing services > Types of services**.

## ArcGIS Server 10

For information on using the locator with ArcGIS Server Manager, see [About the Find Address task](#) in ArcGIS Server 10 .NET Help under **Creating web applications > ArcGIS Server Manager > Configuring tasks > Find Address task** or [Find Address task](#) in ArcGIS Server 10 Java Help under **Creating web applications > ArcGIS Server Manager > Configuring tasks**.

For information on using geocode services with ArcGIS Server Manager, see [Developing with ArcGIS Server: An overview](#) in ArcGIS Server 10 .NET or [Java](#) Help.

## Developer APIs

To use the World Places Locator, you can create a client application, such as a web application, to consume the service. The ArcGIS Viewer for Flex, ArcGIS Viewer for Silverlight, and the ArcGIS Web APIs for JavaScript, Flex, and Silverlight allow you to build web applications that can consume your geocode service.

The ArcGIS Resources website contains detailed documentation and samples on how to configure web applications to work with the geocode service. For more information, see the following links:

[ArcGIS Viewer for Flex](#)

[ArcGIS Viewer for Silverlight](#)

[ArcGIS API for JavaScript](#)

[ArcGIS API for Flex](#)

[ArcGIS API for Silverlight](#)

# Support

For the latest information on Data Appliance for ArcGIS, see ArcGIS Data Appliance on the [ArcGIS Content Resource Center](#).

## Esri support

For questions regarding the configuration and setup of ArcGIS services and usage, contact the following:

**United States users**—Support will be provided by [Esri Technical Support](#). Use the following contact options:

- **Phone:** 1-888-377-4575
- **E-mail:** [support@esri.com](mailto:support@esri.com)
- **Hours:** Monday through Friday, 5:00 a.m. to 5:00 p.m. Pacific time (excluding Esri holidays)

**International users**—Support will be provided by your [local Esri distributor](#).

## Cutting Edge Networked Storage support

For questions and support regarding the Data Appliance for ArcGIS hardware, contact Cutting Edge Networked Storage using the following options:

- **Phone:** 1-800-257-1666
- **E-mail:** [support@cuttedge.com](mailto:support@cuttedge.com)
- **Web page:** [http://www.cuttedge.com/contact/technical\\_support.html](http://www.cuttedge.com/contact/technical_support.html)
- **Hours:** Mondaythrough Friday, 8:00 a.m. to 5:00 p.m. (Pacific time)

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