



Push to ArcGIS

Push SPSS data to ArcGIS online for powerful Geospatial Analytics



Product: IBM® SPSS® Modeler

Extension type: Export



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Description

Map your IBM SPSS data in Esri® ArcGIS Online. Export, transfer, load, your data for map visualization and deeper geospatial analytics. This node relies on the Requests API.

Requirements

- SPSS Modeler v16.0 or later
- R: <http://www.r-project.org/>
- SPSS Modeler 'R Essentials' plugin: <https://developer.ibm.com/predictiveanalytics/downloads>
- Esri ArcGIS Online subscription: <http://www.arcgis.com/>

Installation

Close SPSS Modeler. Save the .cfe file in the CDB folder of the IBM SPSS Modeler installation directory for Windows and Linux. The copy should reside in that same folder and not in a sub-folder.

For example, for Windows 7 the default location is "C:\ProgramData\IBM\SPSS\Modeler\16\CDB".

Restart SPSS Modeler: the node will now appear in the Field Ops palette.

R Packages used

The R packages will be installed the first time the node is used as long as an Internet connection is available.

- 'plyr' author : Hadley Wickham <http://cran.r-project.org/web/packages/plyr/plyr.pdf>
- 'RCurl' author : Duncan Temple Lang <http://cran.r-project.org/web/packages/RCurl/RCurl.pdf>
- 'RJSONIO' author : Duncan Temple Lang <http://cran.r-project.org/web/packages/RJSONIO/RJSONIO.pdf>



User Interface

- Double click on the node to get to the options. There are the following fields:
 - Latitude: field with the latitude information on your dataset.
 - Longitude: field with the longitude information on your dataset.
 - Username: ArcGIS Online username.
 - Password: ArcGIS Online password.
 - Item Name: name of the items in ArcGIS Online
 - Tags: name of the tag, for example 'SPSS'

Publish Esri

Model Options | Data Options | Console Output | Output | Annotations

Latitude: (none) [dropdown icon]

Longitude: (none) [dropdown icon]

Username:: <username>

Password:: *****

Item Name:: ItemName

Tags:: SPSS

OK Run Cancel Apply Reset



Example

This example will demonstrate how to open a data set on IBM SPSS Modeler and push all the data to ArcGIS Online. The following files are available for testing. *Crime_Small.sav* located in the *Github repository*.

User Interface

- Add a 'Statistics File' and load the *Crime_Small.sav* file. This is a small dataset with crime data containing three fields; latitude, longitude and CrimeStat.
- Connect this file to the new "Publish Esri" node that is placed in the "Export" tab.
- Double click on 'Publish Esri' node to change the options.
- Select the Latitude and Longitude field from your dataset
- Insert your username, password of ArcGIS Online and set a name for your Item and a Tag name.



The screenshot shows the 'Publish Esri' dialog box with the following fields and options:

- Model Options** (selected tab):
 - Latitude:** Latitude (selected from a dropdown menu)
 - Longitude:** Longitude (selected from a dropdown menu)
 - Username::** aruizga
 - Password::** *****
 - Item Name::** SPSS_DEMO_ESRI
 - Tags::** SPSS
- Data Options** (tab)
- Console Output** (tab)
- Output** (tab)
- Annotations** (tab)

Buttons at the bottom: OK, Run, Cancel, Apply, Reset.

- Once the process is done a message will appear with the status. To push the data to ArcGIS Online can take some time depending on the size of the dataset.
- Log into your ArcGIS Online and go to 'My Content'



Sign in to . **esri**

Username

Password

☐ Keep me signed in

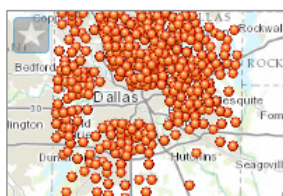
SIGN IN

[Forgot username or password?](#)

- Now there will be two new elements. One is the csv file and the second is the feature layer.

	SPSS_DEMO_ESRI		Feature Layer	Mar 20, 2015	Not Shared
	SPSS_DEMO_ESRI		CSV	Mar 20, 2015	Not Shared

- If your data have latitude and longitude, the points will be displayed in the feature layer.



Feature Layer (Hosted) by aruizga

Source: [Feature Service](#)

Last Modified: March 20, 2015

★★★★★ (0 ratings, 8 views)



Facebook



Twitter

OPEN ▾



SHARE



EDIT



DELETE



PUBLISH



MOVE ▾



USAGE



EXPORT ▾

Description

Layers

SPSS_DEMO_ESRI

Properties

Shared with	The item is not shared.	
Tags	SPSS	
Credits		
Size	2 MB	
Delete Protection	Disabled	
Extent	Left: -97.03	Right: -96.53
	Top: 32.98	Bottom: 32.55
Editing	Editors can add, update, and delete features.	
Export Data	Disabled	
Sync	Disabled	
Track Edits	Disabled	

Comments (0)



Your data is now [a feature layer](#) on ArcGIS Online. You can now use the power of the Esri ArcGIS platform in the cloud or on premises to do more advanced Geospatial analytics and visualization with your data

Important links

Learn

- Learn more about [SPSS software](#).
- Visit [developerWorks Business analytics](#) for more technical analytics resources for developers.
- [The Comprehensive R Archive Network](#) is the main site for the R project and each R package. The help pages and manuals that are associated with `optimx`, `nlmrt`, and `Rcgmin` are detailed. Numerous references are provided.
- Read "[Do I need to learn R?](#)" (Catherine Dalzell, developerWorks, September 2013) to learn why R is a valuable tool for data analytics that was expressly designed to reflect the way that statisticians think and work.
- "[Calling R from SPSS](#)" describes how to use R code inside IBM SPSS Modeler 16.
- Explore [ArcGIS Online](#) mapping to discover how to visualize and geospatially analyze your IBM SPSS data, set up an account, and explore Esri's global map, demographic, and business library.
- Read "[Create new nodes for IBM SPSS Modeler 16 using R](#)" to learn how to create new extensions easily.

Get products and technologies

- Download the [R plug-in for SPSS](#) plugin.
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- Obtain a [free Esri ArcGIS Online](#) trial subscription

Discuss

- Visit the [IBM SPSS Community](#) to share tips and experiences with other IBM SPSS developers.
- Follow [developerWorks on Twitter](#) to be among the first to hear about new resources.
- For creative ways to display and tell stories about your IBM SPSS map data, visit [Storymaps.arcgis.com](#)