

LIST Tools ArcMap User Guide:

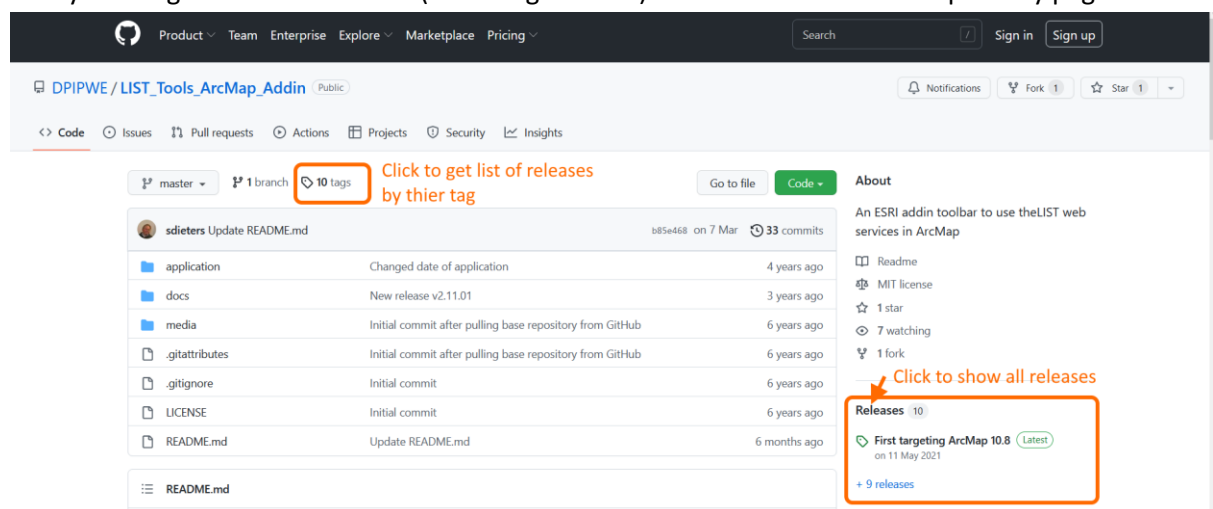
V4.05.05 9 Sep 2022 Targets ArcMap 10.8

This is a detailed guide to loading and running the LIST Tools for ArcMap addin. They are more detailed than the included Help information. These notes concentrate on the normal operation of the tools and should be used in conjunction with the Release Notes which detail, the history, compatibility, known issues and limitations of the tools..

Getting the AddIn

- Navigate to github.com/dpipwe and select LIST_Tools_ArcMap_Addin repository
- Go to the [latest release](#). The ReadMe has the same link.

Also you can go to all the releases (or via tags as well) from the GitHub main repository page:



- Download either of the zip file or compressed tar.zip file. They are in standard zip format.
- Alternatively, you can download the user documentation and esri addin file separately from their respective subdirectories.
- View and Unzip the documents
- The Addin is in the sub folder /application as a DPIPWE_Tools*.esriaddin file while documentation is either in the form of *.md files or pdf files in the docs sub directory.

Naming History

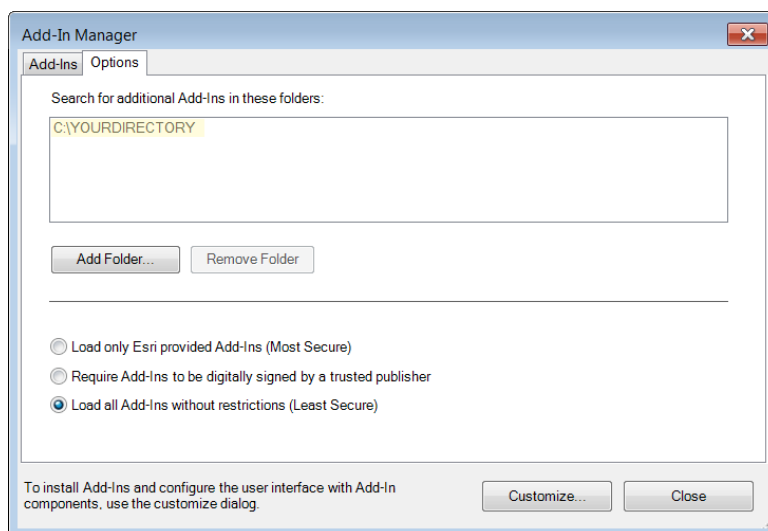
Our organization is part of the State Government of Tasmania, Australia. When this Addin was created our department was called Department of Primary Industry Parks Water Environment (DPIPWE). Because this Addin was initially designed to used only within of our department it was called DPIPWE_tools. This name still appears for the esriaddin file. In Dec 2021 our department was renamed to Natural Resources Environment Tasmania (NRE). Hence links to departmental pages have been updated in our documentation.

The name of this addin was changed to LIST_tools_ArcMap_Addin to convey that it mainly deals with theLIST and to differentiate it from a similar tool designed for Arc GIS Pro called LIST_Tools_Pro_Addin . Both are available github.com/dpipwe account.

Loading the Addin into ArcMap

Place the *.esriaddin file in an accessible directory. This directory can be on a network drive and so available to everybody that has access to that drive. The *.esriAddin file should be at the top level of the directory.

- In ArcMap: go to the **Customize** Menu
 - Add In Manager
 - Options Tab
- Add Folder. When the Add File dialog appears you can either navigate to the folder or paste in its path
- Check **“Load All Add-Ins” without restrictions (least secure)** option. We publish our Addins without a digital signature.
- Save the mxd document



The tool should appear in the list of tools with the ArcMap Add-In Manager. See Version Information section latter in this guide for a screenshot.

Next time ArcMap is started, the tool should be available.

To show the toolbar use the Customize tab:

- Customize > Toolbars > Select “LIST Tools”

More about [ESRI Add-Ins](#) and specifically about [Sharing and installing add-ins](#)

The Tools

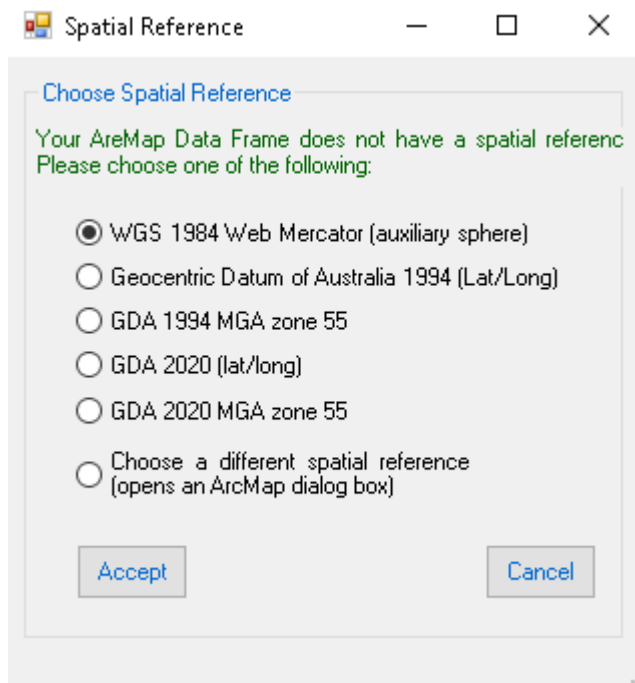
The LIST_Tools_ArcMap addin toolbar:



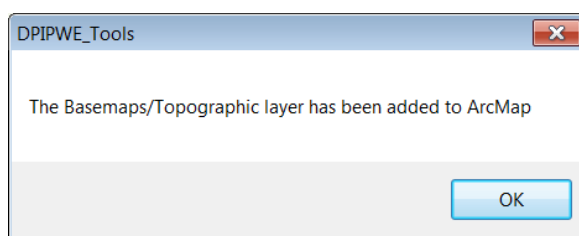
Load LISTMap colour topographic basemap.

This loads a Tasmanian topographic basemap from LIST Map Services. Image Services are no longer available.

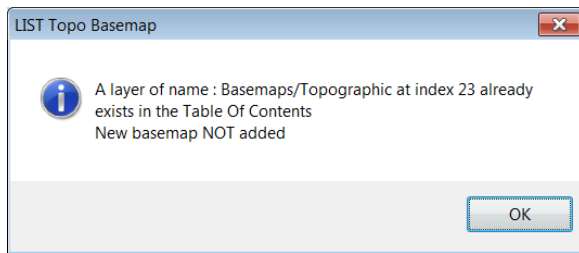
If you are starting with an empty map without a spatial reference a dialog box with a choice of spatial references will be presented. As of Sep 2022 LIST basemaps use the *WGS 1984 Web Mercator* spatial reference. ArcMap will do a transformation on-the-fly if another spatial reference is chosen.



The topographic basemap will be added to the end of ArcMap's Table of Contents, and when the data is fully loaded into ArcMap the following message will be issued. The Table of Contents entry is called Basemaps/Topographic.



If you already have the Topographic basemap loaded the following informational message will be displayed. Another version of the topographic basemap is NOT added.



Load LISTMap Tasmanian ortho-photo basemap.

This data is derived from aerial photography of Tasmania. It is loaded from LIST Map Services. Image Services are no longer available.

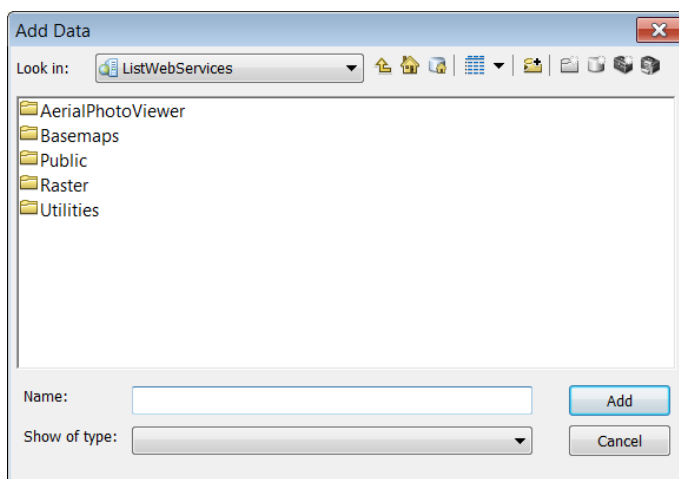
The behavior of this tool is very similar to loading the LIST topographic basemap. If the current map has no or an unknown spatial reference then a dialog giving a choice of spatial references will be presented. As of Sep 2022 LIST basemaps use *WGS 1984 Web Mercator* as the spatial reference.

The ortho-photo mosaic basemap will be added to the end of ArcMap's Table of Contents, and a message will be displayed saying the basemap has been added. The entry is called Basemaps/Orthophoto.

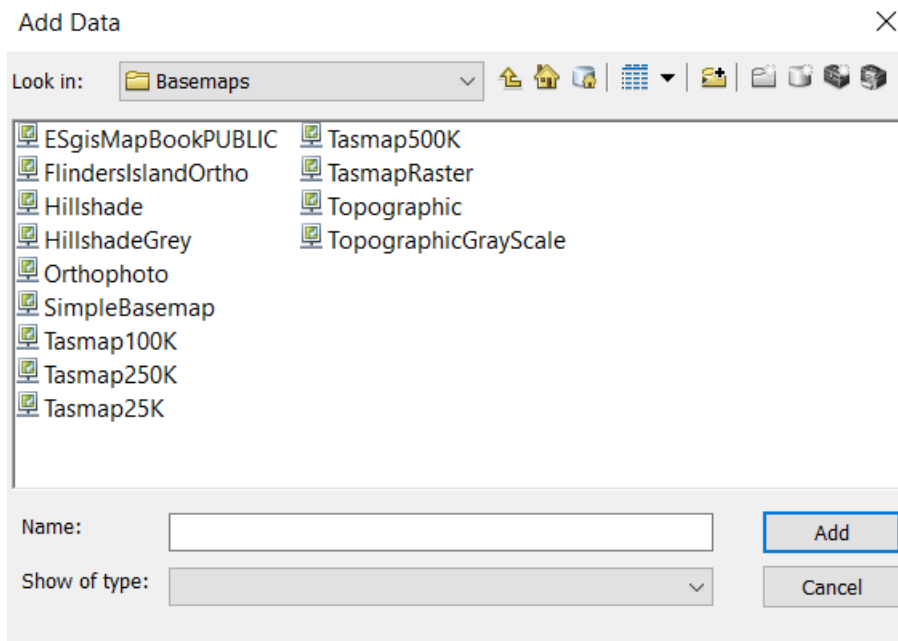
If you already have the ortho-photo basemap loaded a message informational message will be displayed. A new version of the ortho-photo basemap is NOT added.

Create a LIST web services link and catalog entry.

The ArcMap Add Data dialog box will be displayed. If you already have a link to the LIST web-services it will be connected and the Catalog window opened with the entry expanded, otherwise the Add Data dialog will be presented.

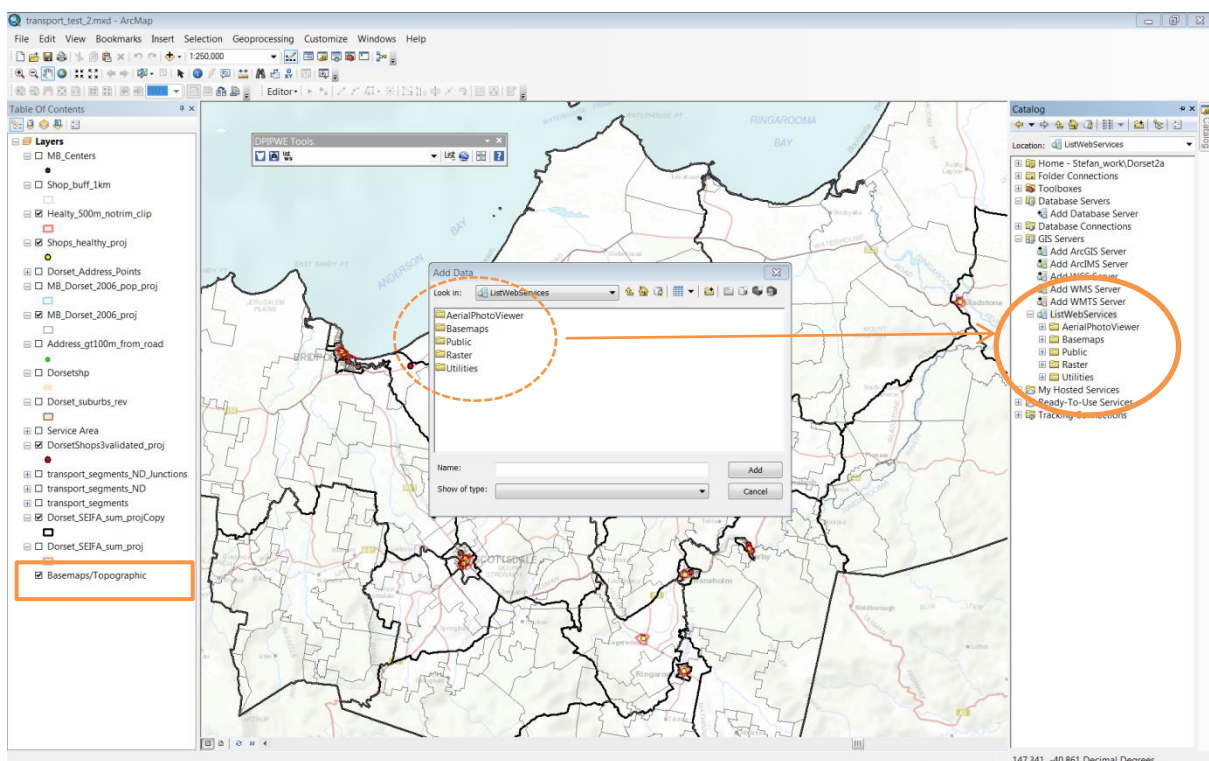


To add another web service layer; navigate to the web service you want e.g. the Hillshade layer from Basemaps. Click Add. Web Service layers are the preferred method of delivering a basemap. They are quicker to load and use less resources. It is possible to add other public data sets.



Basemap layers are added to the bottom of the Table Of Contents (TOC) while other layers are added to the top. When the data have been completely loaded into ArcMap, you will be informed with a message.

Also, a link to ListWebServices is created and expanded within the Catalog window.

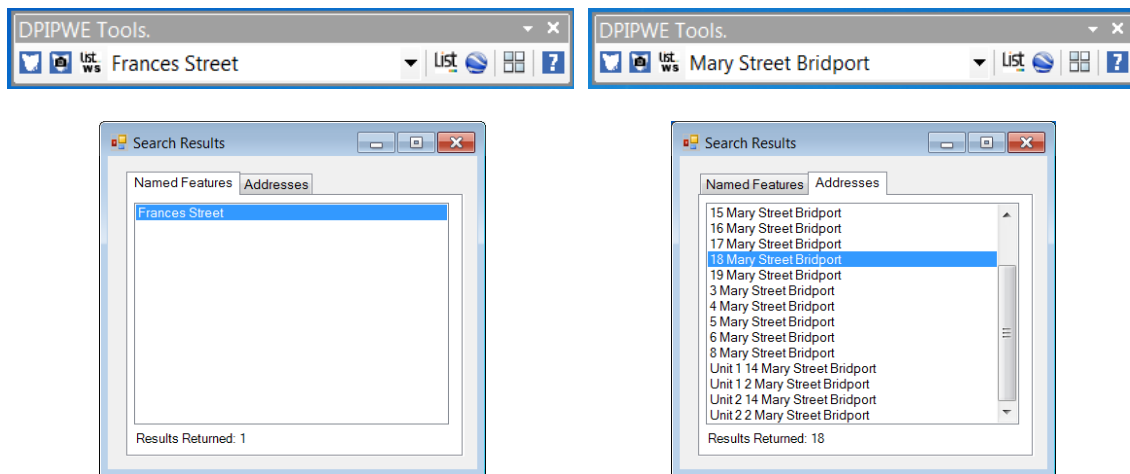


Manual instructions for adding LIST web services are given on the [DPIPWE GitHub account](#).

Search LISTMap for features or addresses.

Simple searches for features or addresses can be performed. It acts like the search function within LISTmap. In general the search is a wildcard match to the named feature string or the address string in our nomenclature databases. You can do an exact search by enclosing your search string in double quotes e.g. "Battery Point". More than one exact search can be made at the same time by enclosing the search list in square braces e.g. ["1", "A1", "A5", "Hobart"]. This is useful for finding named features with short names like "1" for Highway 1, "A1" that returns the Survey Marker near Salamanca market not Highway 1. Also, it lets you limit the number of results: "Hobart" returns only 3 areas called "Hobart" rather than all the addresses within Hobart.

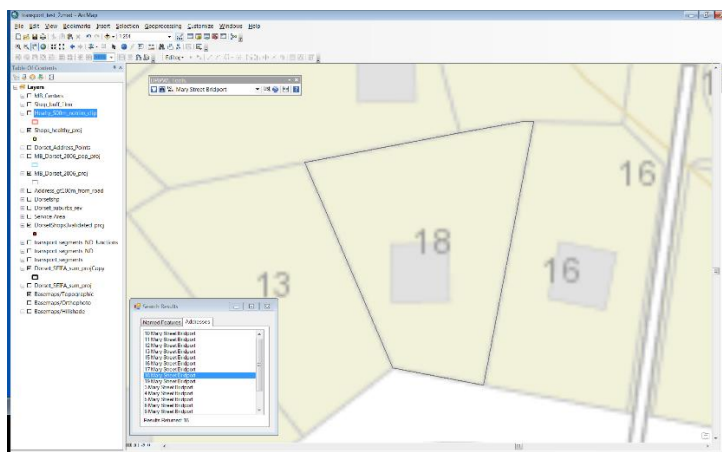
The results are returned in a separate *Search Results* dialog,



If the search is unsuccessful (no features found) or too many features are found a warning message is issued.

If you click on the feature name or address with the Search Results window, ArcMap will zoom to feature, flash it red and highlight (black outline) the feature. The Search Results dialog remains open, so the user can select another feature and again ArcMap will zoom to and highlight that feature.

Closing the Search Dialog box removes the highlight, but ArcMap remains zoomed to the selected feature.



 Display a LISTMap view of the ArcMap extent.

The system default browser is used, with default LISTMap basemap (colour topographic) being displayed. If your browser is not open, a new session will be started.

 Open a Google Earth view of the ArcMap extent.

Opens your system's default installation of Google Earth and displays a view matching the extent shown by ArcMap. This view is continuously updated as the ArcMap view is changed. Clicking the button again switches off this slaving of Google Earth to ArcMap. This behavior is different from that with previous releases of DPIPWE Tools.

On the first use, it is determined if Google Earth is the default application for using kml/kmz files. If not your system is searched for an installation of Google Earth and it is run instead of whatever the default application is for kml/kmz files.

In 2019 a new version of Google Earth Viewer was implemented. It now uses KML files to store and manage the view in Google Earth. These are stored in:

Users\USERNAME\AppData\Local\GoogleView.

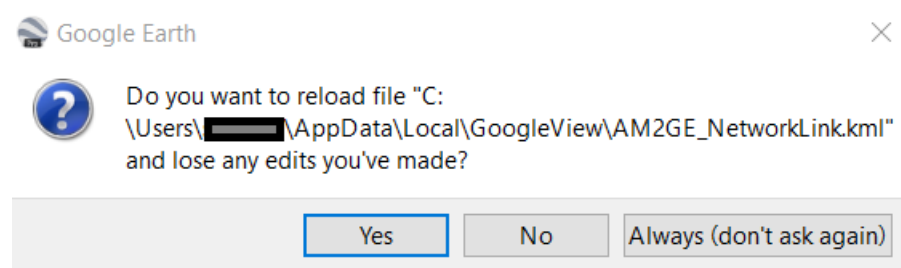
This methodology has been tested with a wide variety of Google Earth installations. The code is based upon the work of [Chris Stayte](#). Our Google Earth Viewer is no longer restricted to **v7.1.2.2041** of Google Earth and Google Earth Pro or earlier. So far if we were able to install Google Earth successfully the Google Earth Viewer of DPIPWE Tools was able to use it.

To fix slow/jerky transitions between scenes of Google Earth:

Set the Zoom / Fly-to rate in Google Earth:

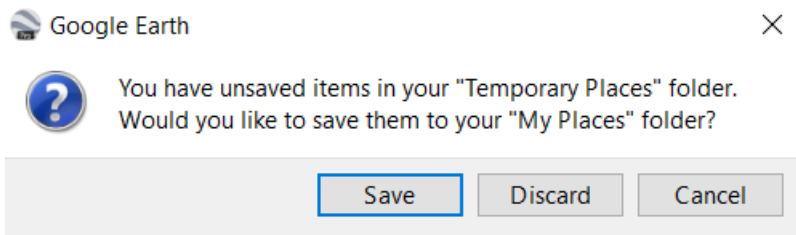
- Tools > Option> Navigation Tab >
- Adjust Fly_To_Speed to maximum of 5. Fixes slow or jerky transitions between locations. The default is slow.
- Check "Do not automatically tilt while zooming"
- Apply

When you stop synchronization Google Earth will respond with the following dialog:



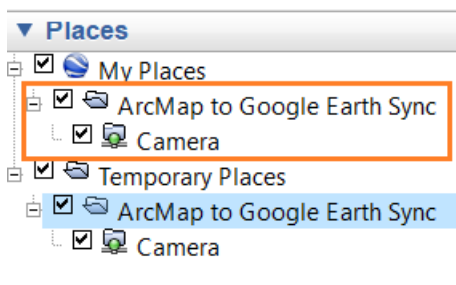
Answer either **Yes** or Always (don't ask again).

When you shut down Google Earth, it will display the following dialog:



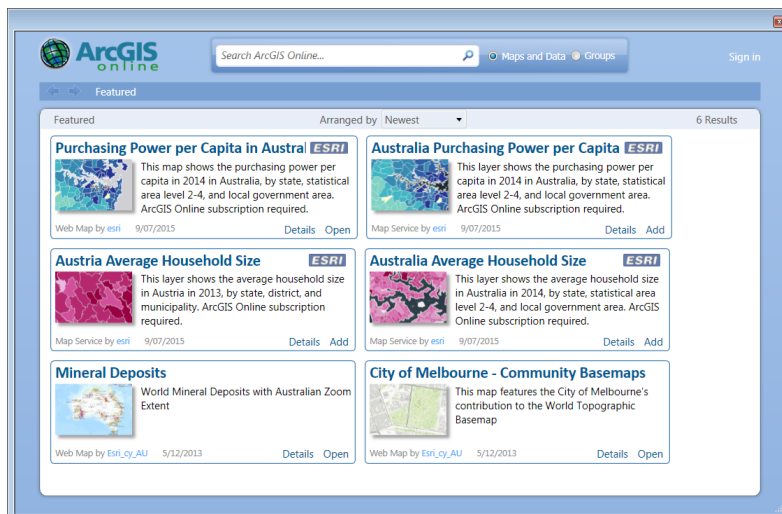
Answer with **Discard**.


This will keep the list your “Temporary Places” and “My Places” clean. If you have trouble like Google Earth flickering, always going back to another place, check for and delete entries like “ArcMap to Google Earth”




Creates a link to ArcGIS Online.

From here you can search for maps, data or groups, or sign in for more content.



If the  button is **greyed out and inactive**, then the ArcGIS Connection has probably been disabled.

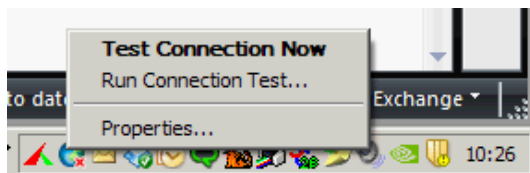
If there is a  globe icon on the taskbar, a mouse over will show the current status of your ArcGIS connection.

To enable the ArcGIS connection:

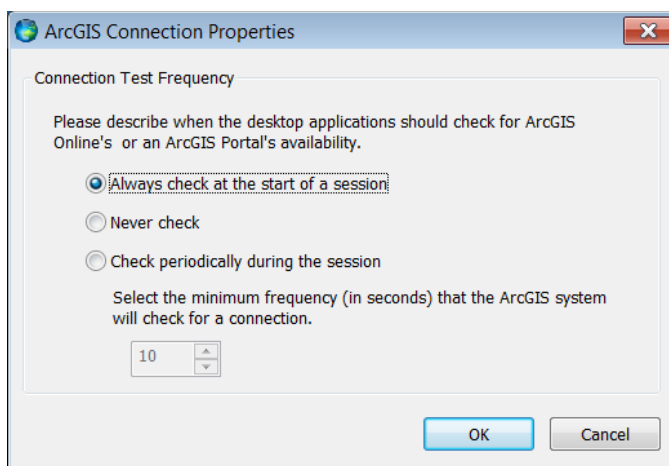
- Left click “Show hidden icons” (little up arrow) on the taskbar.
- Select Customize
- Find the ArcGIS connection and from the drop down list select “Show Icons and Notifications”

The globe icon will appear on the taskbar next time you start ArcMap.

Also ArcMap may not be set to make an ArcGIS connection. To check this, right click the globe icon and the following pop-up dialog will appear:



Select properties. You may have “Never Check enabled”. From ArcGIS 10.2 onward it is generally best to use “Always check at the start of a session”



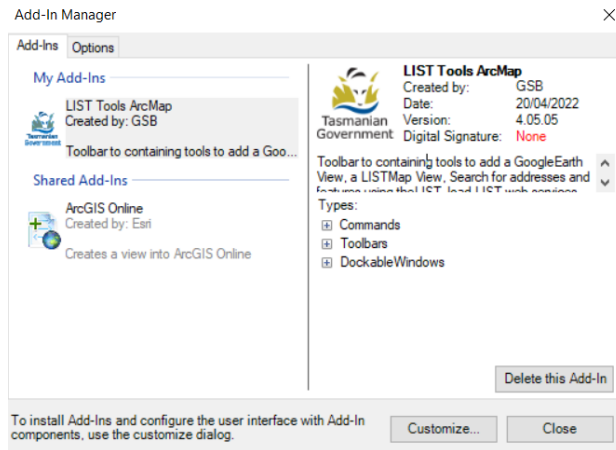
Display Help information.

A dockable window is launched. It can be docked to the ArcMap window, where it can be pinned and unpinned to the side, or floated elsewhere. Initially it appears outside the ArcMap window. The version number is written at the top of a help window, and abbreviated help is given below. A copy of this help is included with each GitHub release as the Help.me file.

See the “*New dockable window controls make it easy to arrange and organize your display*” section of [What's new in Arcmap basics](#)

Version Information

1. The ArcMap Add-In Manager (Customize -- > Add-In Manager) should show LIST Tools ArcMap addin with information about its version, creation date, author, and a description, e.g. :



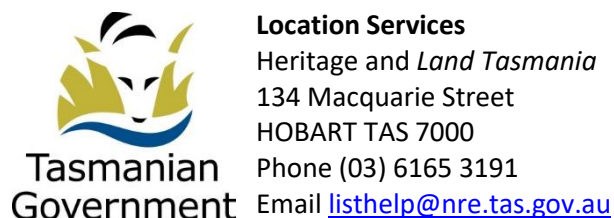
2. Clicking the help button shows the version number at the top of the help window. This is straight from the application and can be relied upon. You may need to use the outer vertical scroll bar to see the version number at the top of the help dock-pane.

Support

These tools are provided "as-is". The majority of the development work has been undertaken by the GIS Systems and Development section of the Land Tasmania. For information about compatibility, know issues ... see the Release Notes for the latest release.

If you are seeking assistance you can email <mailto:gissd@dpiwwe.tas.gov.au> but please be aware that the tools have been developed primarily for internal DPIWWE staff, and hence our ability to provide support to external users is limited.

Contact



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