



## **ARIS Export Tools for ArcGIS 9.3 User's Manual**

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**ARIS B.V.**  
**<http://www.aris.nl/>**

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## 1. Introduction

The ARIS Export Tools for ArcGIS facilitate the export of features to files with KML and GeoJSON format.

### 1.1 KML

The 'Export to KML'-tool exports a featureclass or featurelayer to a KML-file. KML (Keyhole Markup Language) is a file format used to display geographic data in Google Earth, Google Maps, Google Maps for mobile and OpenLayers. KML uses a tag-based structure with nested elements and attributes and is based on the XML standard.

Note that this tool generates a KML-file and **not** a KMZ-file.

Advantages of the 'Export to KML'-tool compared to the 'Layer to KML'-tool of ArcGIS are:

- Choose the Geographic Transformation
- Export Attribute Fields
- Export Label Field
- Export selected features

### 1.2 GeoJSON

The 'Export to GeoJSON'-tool exports a featureclass or featurelayer to a GeoJSON-file. GeoJSON is a geographic data interchange format based on JSON (JavaScript Object Notation) and can be used to display geographic data with amongst others OpenLayers, GeoServer and GDAL.

### 1.3 Requirements

The Export Tools for ArcGIS require that ESRI's ArcGIS 9.3 or ArcGIS 9.3.1 be installed. For other versions of ArcGIS see <http://www.aris.nl/download> for availability of ARIS Export Tools versions. A version for ArcGIS 10.0 is already available.

## 2. Installation

Before you can install ARIS Export Tools you should have installed the following:

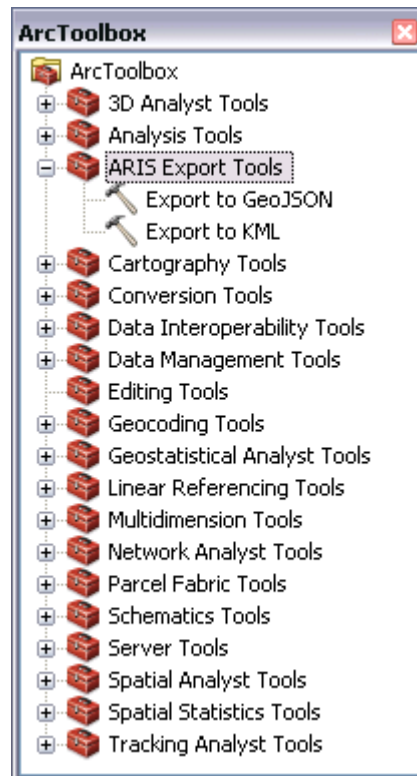
- Microsoft .NET framework 2.0
- ESRI ArcGIS 9.3 or 9.3.1 (ArcView, ArcEditor or ArcInfo)

We refer to ESRI for installation of the software.

Installation of the ARIS Export Tools is accomplished by running ArisExportTools2.msi. The Windows installer will guide you through the installation process. After installation, the following files must be present:

- ARISExportTools.dll
- ARISExportToolsA.dll
- ARISExportToolsA.exe
- ARISExportTools.pdf

Start ArcMap and open **ArcToolbox window**. The toolbox **ARIS Export Tools** should be present in ArcToolbox. If not, right click the ArcToolbox folder and choose **Add toolbox....** Browse to **System Toolboxes** and select **ARIS Export Tools.tbx**. The tool is ready to use now. The tools can also be run from the Catalog window in ArcMap by browsing to Toolboxes | System Toolboxes.



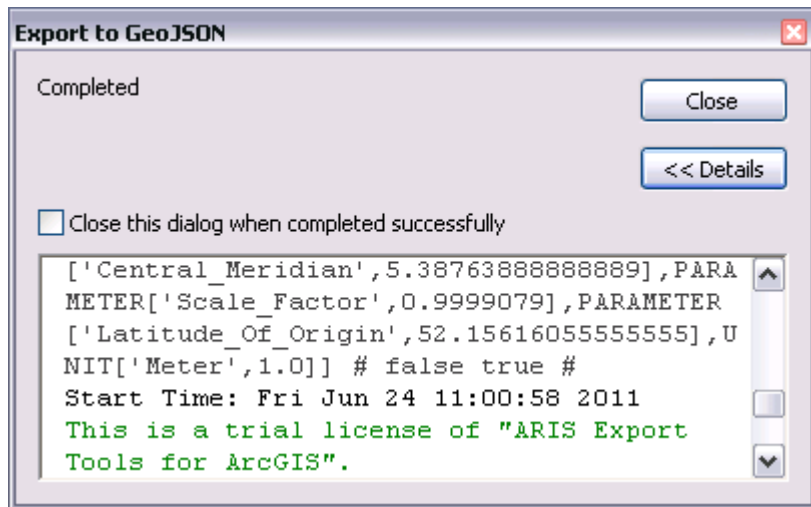
### 3. Registration

The distributed version of the ARIS Export Tools for ArcGIS is an evaluation version. This means it can be used for evaluation purposes for 5 days. After this period, the tool will be locked until a valid license key is entered.

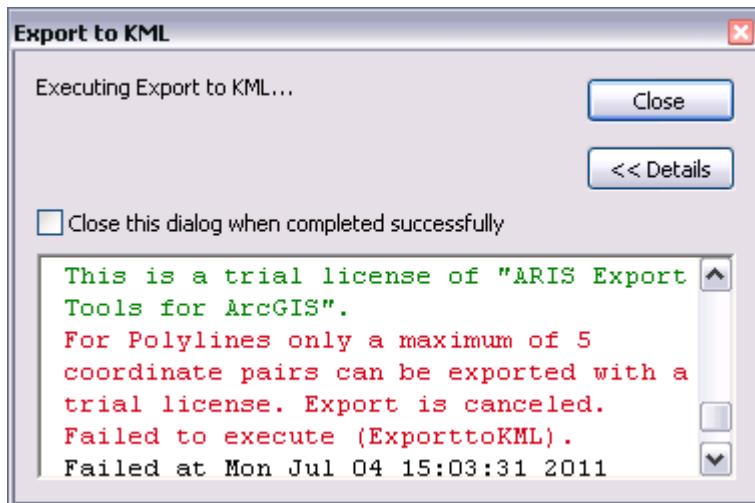
While in evaluation mode, only featureclasses with a maximum number of coordinate pairs can be exported. The export of featureclasses or selected features containing more than the maximum number of coordinate pairs will be cancelled.

The maximum number of coordinate pairs is 3, 5 and 7 for featureclasses with the (multi-)point, polyline and polygon featuretype respectively.

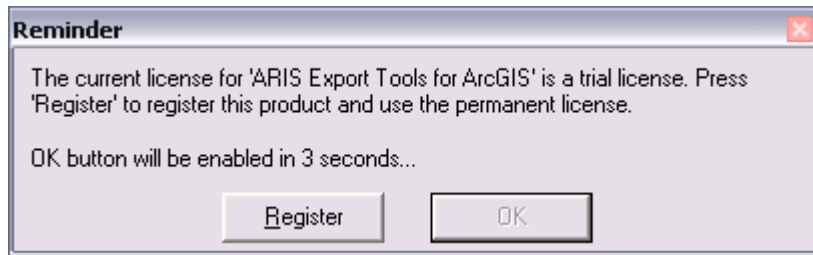
While in evaluation mode, each time you start running one of the Export tools, a reminder message will be shown in the ArcToolbox results view.



When the maximum number of coordinate pairs is exceeded in evaluation mode an error will be shown in the message log and the export will be cancelled.



While in evaluation mode the following form will be shown to be able to register the tool.



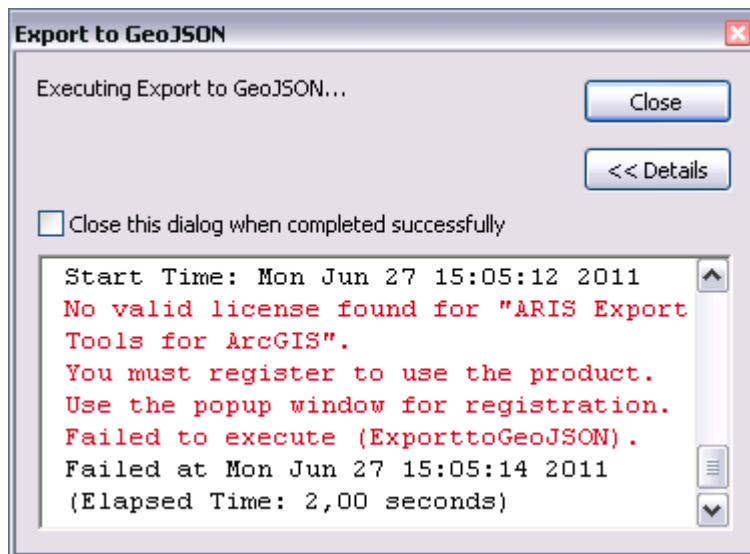
Pressing the **Register** button will take you to the registration form.



If you don't have a registration key, you can press the button **Buy Now!**. This will take you to our online store, where you can purchase the product. Note that you will need the hardware fingerprint of your computer shown in the registration form. After you have completed your purchase, a personal registration key will be sent to you by email. Please store this key in a safe place.

Once you have entered you name and a valid registration key, press **OK**. This key will be stored on your computer. The reminder message will not be shown again.

When your trial license is expired the following message appears in the ArcMap result view and a popup window is shown to register the tool. Execution of the tool is aborted.



The registration forms are also accessible through the ARIS License Checker. For more information and a free download of the ARIS License Checker see <http://www.aris.nl/download>.

## **4. Version History**

### **4.1 Version 1.0**

Version 1.0 is the first release of ARIS Export Tools for ArcGIS and can be used with ArcGIS 9.2 (not released publicly).

### **4.2 Version 2.0**

*ArcGIS 9.3 and 9.3.1 compatibility*

Version 2.0 of the ARIS Export Tools for ArcGIS can be used only with ArcGIS 9.3 and 9.3.1.

### **4.3 Version 2.0.1**

*Installation*

Better check on valid ArcGIS versions in setup.

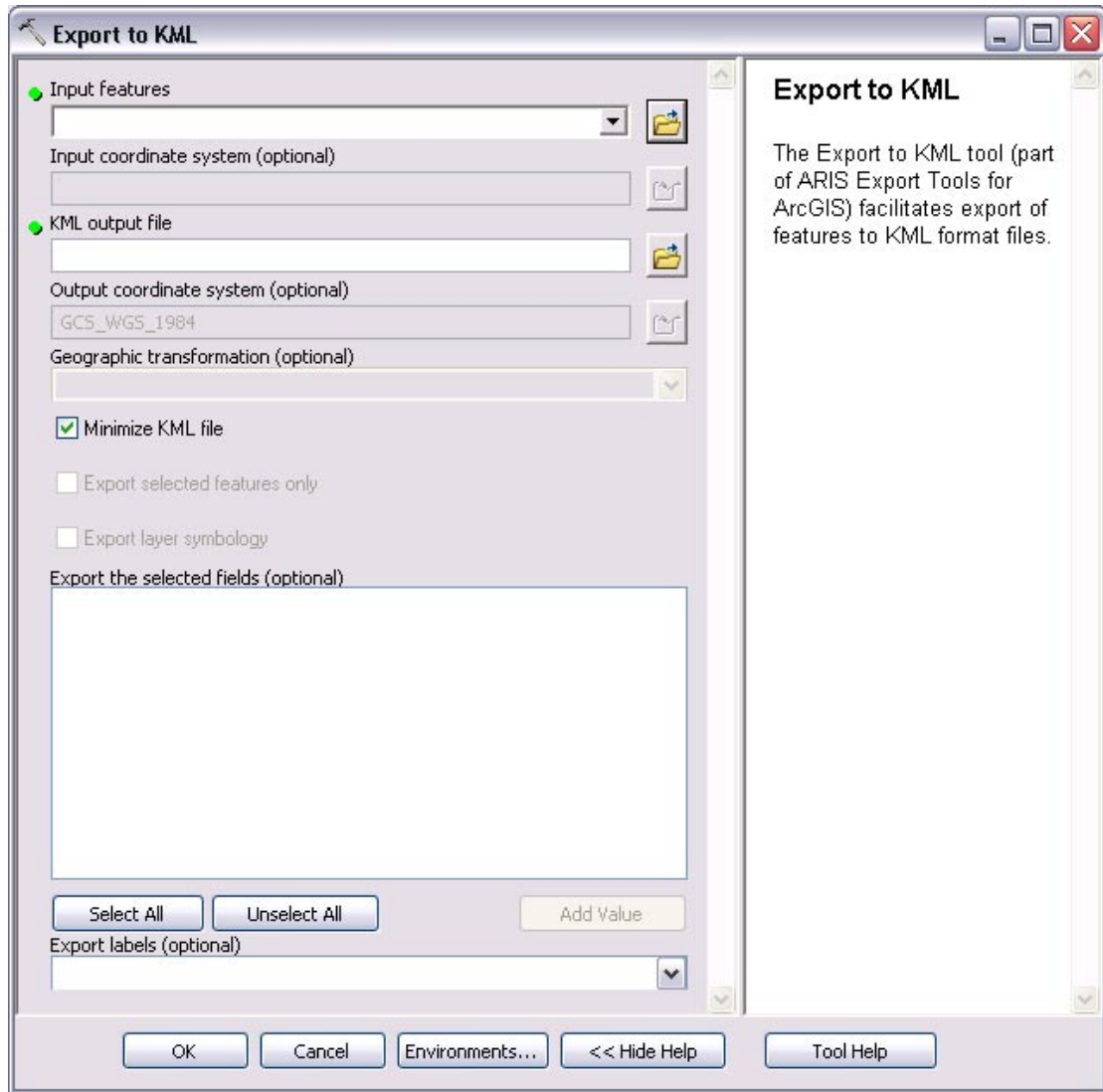
## 5. Using Export Tools in ArcMap

### 5.1 Using Export to KML

The 'Export to KML'-tool exports features of a featurelayer in the map or featureclass on disk to a file with KML-format.

We recommend to run the tool in foreground, because running the tool with background geoprocessing enabled may cause problems.

The user has to provide the input features, the output file and the geographic transformation method. Also a number of options can be chosen.



The following parameters should be provided:

Parameter	Description
Input features	Features from selected layer or feature class will be exported in KML format.
Input Coordinate System	The coordinate system of the Input Features layer. This is determined automatically and can not be changed.
KML Output File	Full path of KML output file to be written. If no extension or another extension than ".kml" is specified, the extension ".kml" will be added to the output file automatically.
Output Coordinate System	Coordinate system of coordinates written to export file. The output coordinate system always is



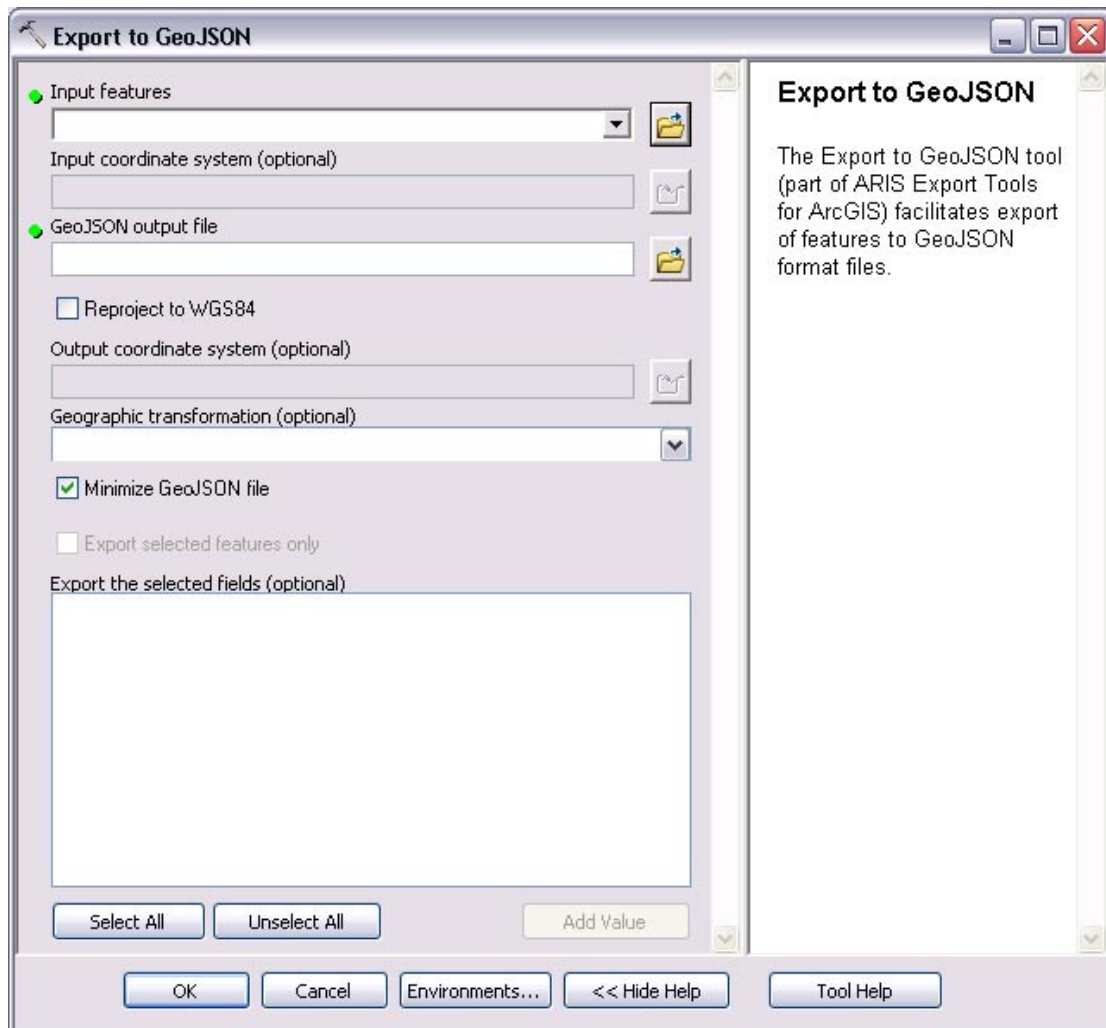
	GCS_WGS_1984, cannot be changed and is only displayed for information.
Geographic transformation	The transformation method to be used to convert the input coordinate system to the output coordinate system.
Minimize KML file	When this option is checked the output KML file is written as one single line, without any unnecessary blanks.
Export selected features only	When this option is checked only features currently selected in the ArcMap project are exported.
Export layer symbology	Use Symbology properties from ArcMap. At this time only color and line thickness will be used for export.
Export the selected fields	The fields of which values are to be exported. Note that by default no fields are checked.
Export labels	The values of the selected field will be attached to the exported features so they can be used for labeling (placemark).

## 5.2 Using Export to GeoJSON

The 'Export to GeoJSON'-tool exports features of a featurelayer in the map or featureclass on disk to a file with GeoJSON-format.

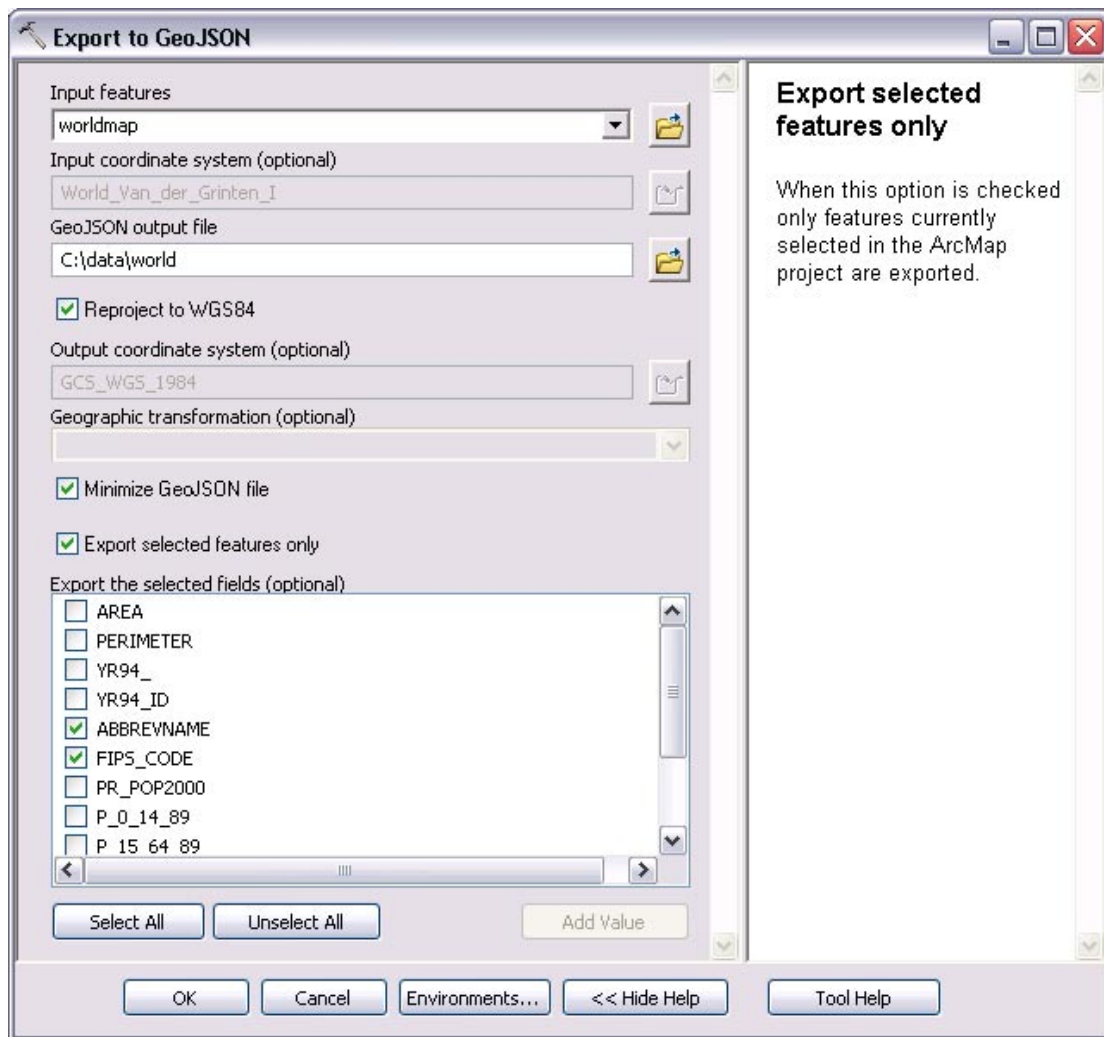
We recommend to run the tool in foreground, because running the tool with background geoprocessing enabled may cause problems.

The user has to provide the input features, the output file and the geographic transformation method. Also a number of options can be chosen.



The following parameters should be provided:

<b>Parameter</b>	<b>Description</b>
Input features	Features from selected layer or featureclass will be exported in GeoJSON format.
Input coordinate system	The coordinate system of the Input Features layer. This is determined automatically and can not be changed.
GeoJSON output File	Full path of GeoJSON output file to be written. If no extension or another extension than ".json" or ".geojson" is specified, the extension ".json" will be added to the output file automatically.
Reproject to WGS84	Option to convert the coordinates from the input coordinate system to GCS_WGS_1984.
Output coordinate system	Coordinate system of coordinates written to export file. The output coordinate system is the same as the input coordinate system, unless the option Reproject to WGS84 is checked. In that case the output coordinate system is GCS_WGS_1984. The output coordinate system can not be changed by the user.
Geographic transformation	The transformation method to be used to convert the input coordinate system to the output coordinate system. This parameter is enabled only when a reprojection is desired and transformation methods are available.
Minimize GeoJSON file	When this option is checked the output GeoJSON file is written as one single line, without any unnecessary blanks.
Export selected features only	When this option is checked only features currently selected in the feature layer are exported.
Export the selected fields	The fields of which values are to be exported. Note that by default no fields are checked.



In the example above only the selected features from the layer "worldmap" are exported to GeoJSON. The input data has a Van Der Grinten coordinate system, but the output will be in WGS84. Also two fields are exported to the properties of each feature in the output GeoJSON file.

### 5.3 Known Issues

Background geoprocessing enabled may cause problems, especially when running the tools several times within one ArcMap-session.

Sometimes the parameter Geographic Transformation is not set required, while it should be. In this case the tool does not check whether Geographic Transformation is filled in and the features will be exported without transformation.

When opening the tool again from the Results Window, the tool dialog opens with populated parameters based on the tool execution. The tool can run again with the unchanged parameters without a problem. However, in this case the dependency between the parameters does not work well, so changing for example, the Reproject-option does not affect the Output Coordinate System (as it should) and can give undesired results.

Rerun the tools from the Results Window may cause the error '*ERROR 000820: The parameters need repair.*' followed by the error '*R6025 - pure virtual function call*' when closing ArcMap'.

## Appendix A. License Agreement

ARIS Software License Agreement for ARIS Export Tools for ArcGIS

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