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## Autodesk Products Tip & Tricks

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**Product:** AutoCAD Map 3D 2009-2010  
**Topic:** GIS data from a Google Earth KML file  
**Written by:** Doug Folck, Technical Support Manager  
**Date:** December 10, 2009

The following information applies to the 2009 and 2010 versions of AutoCAD Map 3D, AutoCAD Civil and AutoCAD Civil 3D.

Using open-source Feature Data Object (FDO) technology, AutoCAD Map 3D provides direct access to the leading data formats used in design and GIS and enables the use of AutoCAD software tools for maintaining a broad variety of spatial information. A number of popular FDO providers, produced and supported by Autodesk, are installed with AutoCAD Map 3D. In addition to these, other FDO providers, produced and supported by the [FDO Open Source community](#) and [SL-King Spatial Solutions](#) can be added to further augment AutoCAD Map 3D's capabilities.

This document describes best practices to utilize GIS data in the Google Earth KML format. (A Google Earth KMZ file is simply a zip archive file that contains a single KML file and optional image files. The KML can be extracted from the KMZ with any zip/archive software. Renaming a .KMZ to .ZIP will allow Windows to browse within and extract the KML).

### Adding the SL-King KML FDO provider to AutoCAD Map 3D

The SL-King KML provider allows direct access to Google Earth KML files.

1. Determine and obtain the correct KML FDO provider.
  - a. Specific versions of AutoCAD Map 3D require specific versions of the FDO provider as follows:

AutoCAD version	FDO provider version
2009-2010	3.3
2008	3.2.2

- b. The SL-King KML provider is free to download from the [SL-King web site](#). Choose the correct version and then download the **v0.1.2 Windows 32-bit provider**.
2. **Install the KML provider**
  - a. If open, close AutoCAD Map 3D.
  - b. The downloaded archive file contains two files. Save both files to the **C:\Program Files\AutoCAD Map 3D 2010\FDO\bin** folder. A similar folder structure exists for 2009 and the Civil products, substitute your product's name and look for the **FDO\bin** folder.
  - c. For **AutoCAD Map 3D 2010**. In the **FDO\bin** folder, locate the **providers.xml** file and open it with Notepad. Scroll to the bottom of the file. Immediately before the last line, **</FeatureProviderRegistry>**, paste the following text:

```
<FeatureProvider>
  <Name>King.KML</Name>
  <DisplayName>King Provider for KML</DisplayName>
  <Description>Read/write access to spatial and attribute data in KML file</Description>
  <IsManaged>False</IsManaged>
  <Version>0.1.1.0</Version>
  <FeatureDataObjectsVersion>3.4.0.0</FeatureDataObjectsVersion>
  <LibraryPath>KingKmlProvider.dll</LibraryPath>
</FeatureProvider>
```

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For **AutoCAD Map 3D 2009**. In the **FDO\bin** folder, locate the **providers.xml** file and open it with Notepad. Scroll to the bottom of the file. Immediately before the last line, **</FeatureProviderRegistry>**, paste the following text:

```
<FeatureProvider>
  <Name>King.KML</Name>
  <DisplayName>King Provider for KML</DisplayName>
  <Description>Read/write access to spatial and attribute data in KML file</Description>
  <IsManaged>False</IsManaged>
  <Version>0.1.1.0</Version>
  <FeatureDataObjectsVersion>3.3.0.0</FeatureDataObjectsVersion>
  <LibraryPath>KingKmlProvider.dll</LibraryPath>
</FeatureProvider>
```

Save and close the **providers.xml** file.

The KML Provider is now installed and ready to use.

### Using the SL-King KML FDO provider in AutoCAD Map 3D

1. Open the Data Connect window. You should now see a new provider on the list. Locate and click on **Add KML Connection**.
2. The KML provider does not have a browse function; you will need to enter the full path to the KML File. You must include the drive letter, path and complete file name including the .KML extension.
3. Name the connection anything you like and click Connect. AutoCAD Map 3D will read the contents and display a single data class.
4. Add to Map and style layers as with any FDO data source.

The SL-King KML FDO provider allows read/write access. Features can be edited and the KML source updated.