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Assigning coordinate system

From command line type: ADESETCRDSYS

Select your coordinate system

Adding Raster Files

Ensure an appropriate coordinate system is set for your drawing

Set the appropriate insertion scale.
    From command line: UNITS
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Connect to your imagery

From command line: MAPWSPACE

From Task Pane, Display Manager tab, select Data

Select **Connect to Data**

Select **Add Raster Image or Surface Connection**
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Create your connection name. (i.e. Leon2012SID)

- For single image, select and browse to and select the image to add.
- For multiple images, select and browse to folder.

Select **Connect**

Once the connection is set up you can add images at will.

**Adding WMS Base Maps**

Ensure your DWG has an appropriate coordinate system assigned.

This is the same process as adding individual raster but you select **Add WMS Connection**

Create your connection name. (i.e. FDOTAerial_BaseMap)

Paste the URL of the WMS service

Services with the OGC WMS enabled will have a URL like:

- [http://services.nationalmap.gov/arcgis/services/transportation/MapServer/WMSServer](http://services.nationalmap.gov/arcgis/services/transportation/MapServer/WMSServer)
Click Connect. For public, unsecured services, leave the username and password dialog blank and click login.

Once connected, Add to Map

WMS
WMS_2 (http://dotsco360151:6080/arcgis/services/FL_DOT_Ortho_Imagery/imageServer/WMSServer?version=1.3.0)

Add Data to Map
Available sources in this connection. Select Items to add to the map as layers.

*Note about connecting to WMS services: Firewalls may potential block the port used by the WMS. Other software capable of consuming a WMS (e.g. ESRI products) may use different ports than AutoCAD. Trying to access a WMS when your network uses a proxy server may also cause failure to connect errors. AutoDesk provides this workaround for using proxy servers:
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“Connecting to WMSWFS feature provider through proxy server

Issue:
You want to use the Display Manager or FDO providers for WFS and WMS features. However, your network uses a proxy server.

Solution:
You can add a system variable that will allow connections through the proxy server. Follow these steps:

1. Click Start menu (Windows) > Settings > Control Panel.
2. Double-click System.
3. In the System Properties dialog box, click the Advanced Tab.
4. On the Advanced tab, click the Environment Variables button.
5. On the Environment Variables tab, under the System Variables, click New.
6. In the Variable Name box, enter all_proxy
7. In the Variable Value box, enter one of the following:
   - http://IPAddress:PortNumber
   - IPAddress:PortNumber

Note: You can only apply this workaround if no username and password are required. If username and password are required for your proxy server, you must use the 2013 or newer release of AutoCAD Map 3D (or Civil 3D). In the 2013 and newer releases, proxy server credentials can be entered directly into the Data Connect > Add WMS Connection interface (after expanding "Show proxy settings").” -AutoDesk

Adding a Service using the ArcGIS for AutoCAD plugin

This free plugin extends AutoCAD’s coordinate system capabilities and provides basic GIS functionality and easy access to published GIS services. It works with AutoCAD and does not require additional ESRI software. Additional information is available through ESRI’s website: http://www.esri.com/software/arcgis/arcgis-for-autocad . Older versions of the plugin are accessible here (requires an ESRI login): http://www.esri.com/apps/products/download/index.cfm?

With ArcGIS for AutoCAD installed, open ArcGISForAutoCAD.exe
On the main toolbar, activate the ArcGIS ribbon and then click Add Service. Choose to Assign a coordinate system when prompted.
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In the Add GIS Service dialog, choose either a pre-existing connection or New Server Connection

For New Server Connections, enter the URL of the server

Once connected, add service layers at will