

## DWG to SDF 3 Sample

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This utility copies and converts classified DWG objects to SDF 3 file format.

To install the files.

1. Copy the files *DwgtoSdf.arx* and *CreateSdfForSample.dll* to the Autodesk Map 3D 2007 root folder.

To copy classified objects from the current DWG file to an SDF 3 file.

1. In Autodesk Map 3D 2007, open a classified DWG file.  
Note: The DWG must have a coordinate system assigned to it.
2. At the command prompt, enter **arx**
3. Select load.
4. Navigate to the ***DwgtoSdf.arx*** file and click Open.
5. At the command prompt, enter **dwgtosdf3**  
The Create New Sdf File dialog box opens.
6. Enter a name for the SDF file you want to create.
7. Optional: enter a schema name (default is Schema1).
8. Optional: for Tolerance, enter values for xy and z. The tolerances are in distance units that depend on the coordinate system in use. Points falling within these tolerances will be treated as the same point.
9. Click Save.  
The SDF file is created.
10. Optional: To test the results, open a new DWG and use the Data>Add Data command in Display Manager to connect to the SDF file. You should see the feature classes listed in the Data Connect dialog box.

## Notes

The sample uses a special .dll to export a feature of Map 3D which is not in the API. This code does the actual creation based on the parameters passed to it.

There are several known issues in this code. The workarounds are left as an exercise for the user.

- 1) XReferences in the DWG will cause the utility to stop working without warning.
- 2) The following entity types are not supported:

- AcDb3dSolid (all solids)
- AcDbAttributeDefinition
- AcDbEllipse
- AcDbFcf
- AcDbHatch
- AcDbLeader
- AcDbMline
- AcDbMText
- AcDbPolyFaceMesh
- AcDbPolygonMesh
- AcDbRasterImage
- AcDbRay
- AcDbRegion
- AcDbDimension (all types)
- AcDbShape
- AcDbSpline
- AcDbTrace
- AcDbWipeout
- AcDbXline

If your drawings contain these items and you need to convert them to SDF 3, you must transfer the data to a supported object.

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