

Topocad FDO

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Historik

- År 2003 utvecklades den första adaptern.
 - ISM Adaptern
- År 2005 utvecklades den andra adaptern.
 - ArcGIS Adaptern
- År 2009 utvecklades den tredje adaptern-
 - FDO Adaptern, Topocad 11.3

Varför FDO!

- Open source
- Stöd för många olika databaser, filformat
- OSGeo
- Möjligheter till egen utveckling

Historia FDO innan open source

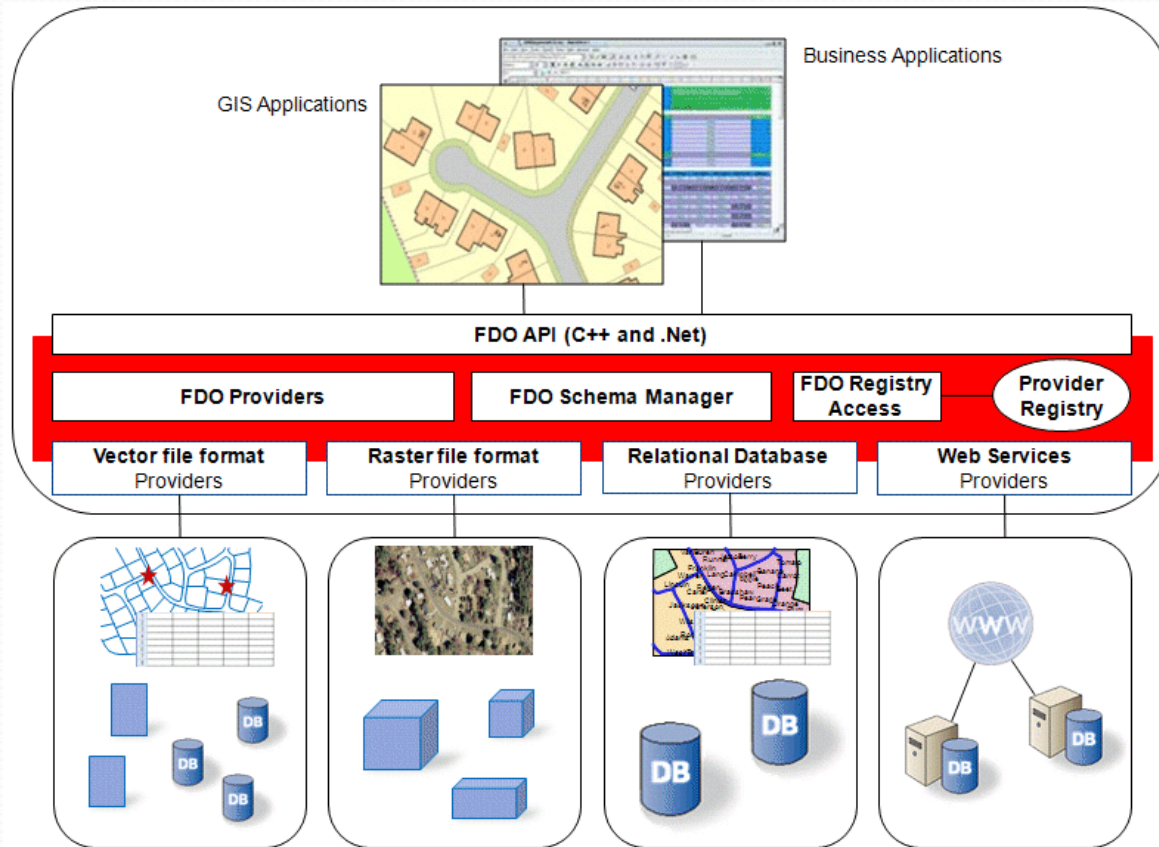
- Utvecklats av Autodesk
 - Version 1.0 av FDO släpptes till Autodesk MAP 3D 2005 på våren 2004.
 - Providers för Oracle, SDF.
 - Version 2.0 av FDO
 - Providers för ArcSDE
 - Version 3.0 av FDO
 - Providers för MySQL, SQL Server, ODBC, SHP, Raster, OGC WFS, OGC WMS

FDO, open source

- 2006 släppte Autodesk MapGuide som open source med FDO version 3.0.
- Providers – SDF, SHP, MySQL, ArcSDE, ODBC, OGC WFS, OGC WMS.
- Anslöt sig till OSGeo (Open Source Geospatial Foundation) www.osgeo.org



FDO

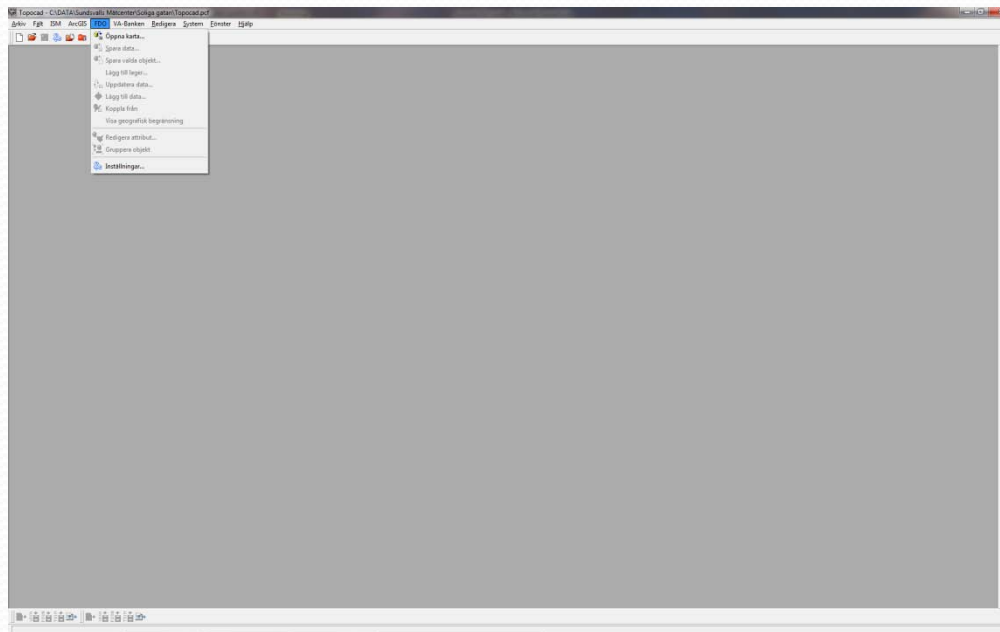


FDO 3.4 Providers

- [OSGeo FDO Provider for ArcSDE](#) Read/write access to feature data in an ESRI ArcSDE-based data store (that is, with an underlying Oracle or SQL Server database). Supports describing schema, and inserting, selecting, updating, and deleting feature data in existing schemas; does not support creating or deleting schemas.
- [OSGeo FDO Provider for MySQL](#) Read/write access to feature data in a MySQL-based data store. Supports spatial data types and spatial query operations. Custom API can gather information, transmit exceptions, list data stores, and create connection objects. MySQL architecture supports various storage engines, characteristics, and capabilities.
- [OSGeo FDO Provider for SDF](#) Read-write access to feature data in an SDF-based data store. Autodesk's geospatial file format, SDF, supports multiple features/attributes, provides high performance for large data sets, and interoperability with other Autodesk products. Supports spatial indexing and is a valid alternative to database storage.
- [OSGeo FDO Provider for SHP](#) Read/write access to existing spatial and attribute data in an ESRI SHP-based data store, which consists of separate shape files for geometry, index, and attributes. Each SHP file and its associated DBF file is treated as a feature class with a single geometry property. This is a valid alternative to database storage but does not support locking.
- [OSGeo FDO Provider for ODBC](#) Read/write to feature data in a ODBC-based data store. Supports XYZ feature objects and can define feature classes for any relational database table with X, Y, and optionally, Z columns; does not support creating or deleting schema. Object locations are stored in separate properties in the object definition.
- [OSGeo FDO Provider for WFS](#) Read-only access to feature data in an OGC WFS-based data store. Supports a client/server environment and retrieves geospatial data encoded in GML from one or more Web Feature Services sites.
- [OSGeo FDO Provider for WMS](#) Read-only to feature data in an OGC WMS-based data store. Web Map Service (WMS) produces maps of spatially referenced data dynamically from geographic information, which are generally rendered in PNG, GIF, or JPEG formats
- [OSGeo FDO Provider for GDAL](#) Read-only to raster data in a GDAL-based data store. GDAL is a open source library for accessing raster geospatial data formats
- [OSGeo FDO Provider for OGR](#) OGR is a open source library. Read and write access is provided to vector data from the OGR library
- [SL-King FDO Provider for Oracle](#) Provides access to Oracle Spatial/Locator data in Oracle Spatial/Locator data in Oracle 10G, Oracle Express Edition (Oracle XE) and Oracle 9i.

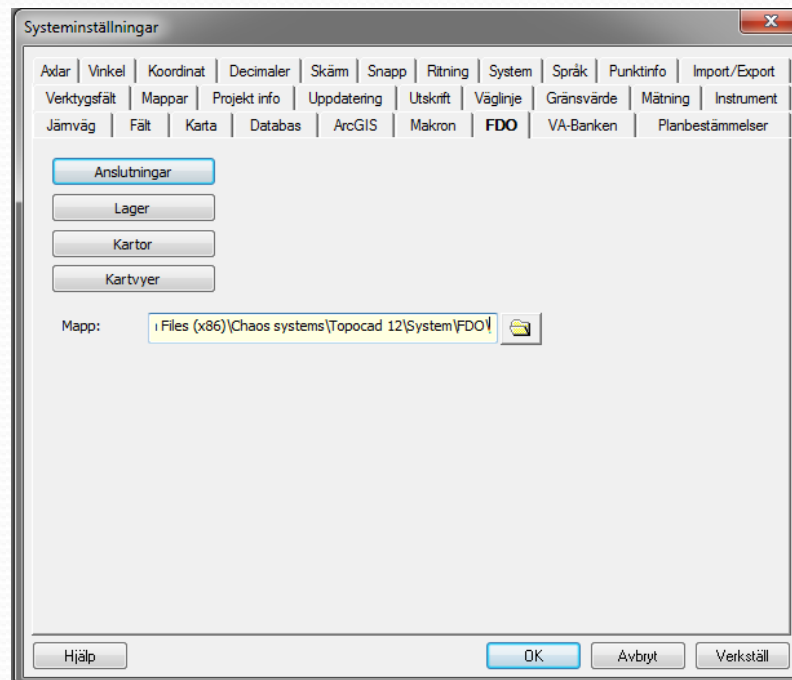
Topocad FDO

- Tilläggsmodul
- Release i Topocad 11.3, juni 2009
- FDO version 3.4



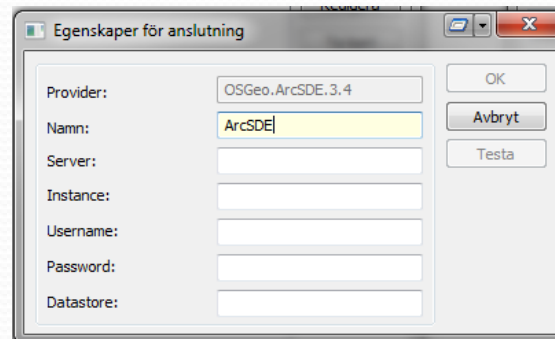
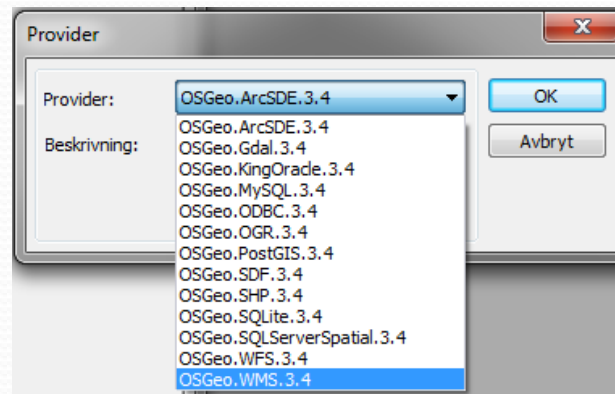
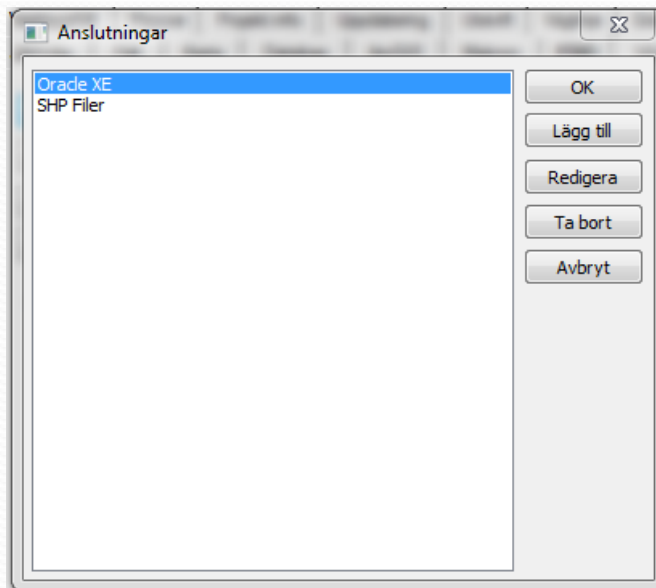
Topocad FDO

- Mapp
 - Mapp där alla inställningar sparas som XML filer
- Anslutningar
- Lager
- Kartor
- Kartvyer



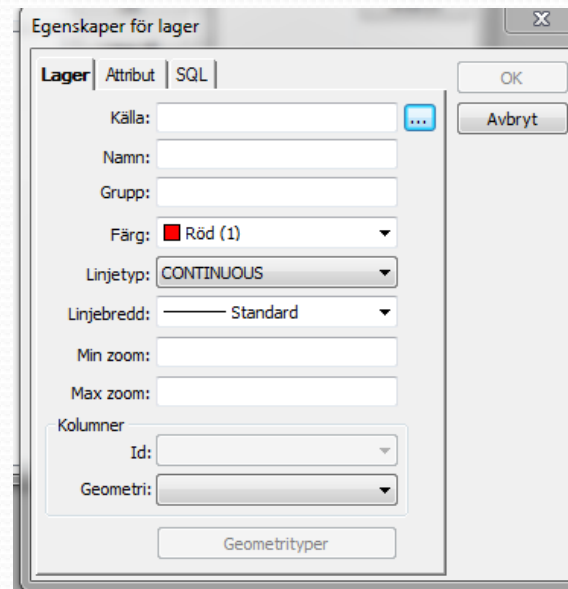
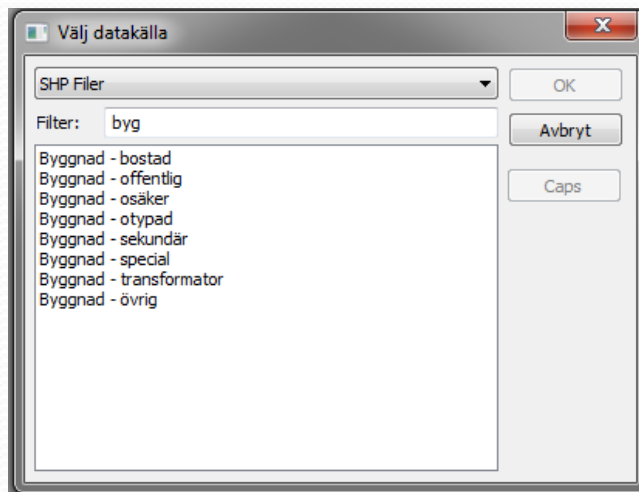
Anslutningar

- Definierar anslutningar mot olika datakällor
- Egenskaper för anslutningen



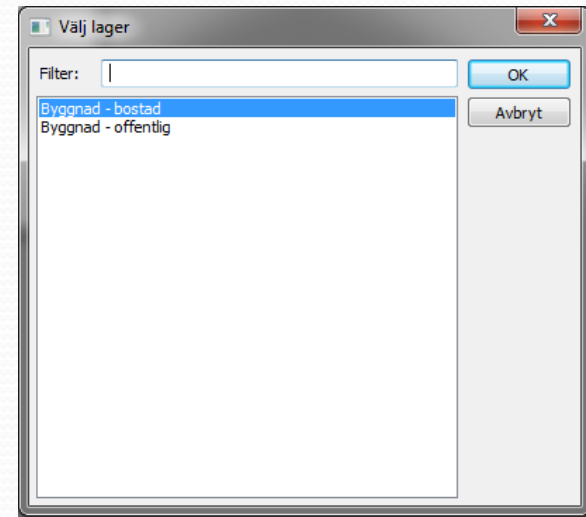
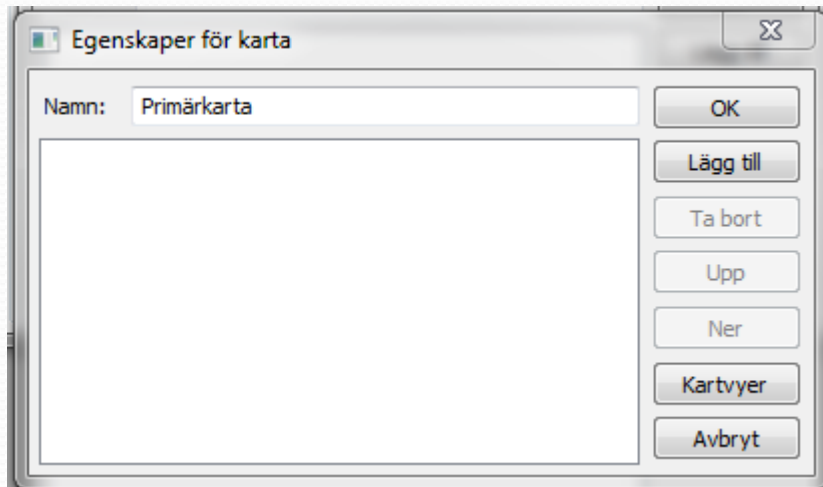
Lager

- Definerar upp lager från olika anslutningar
- Egenskaper för lagret



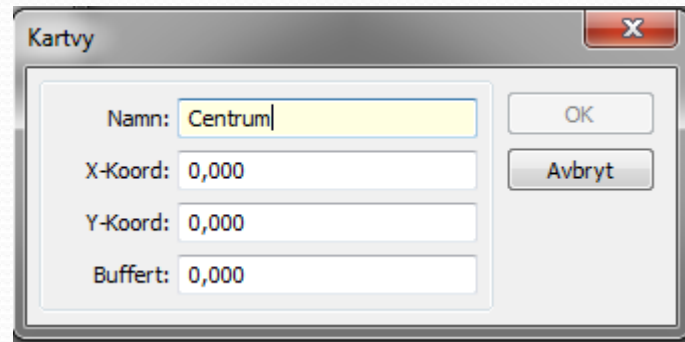
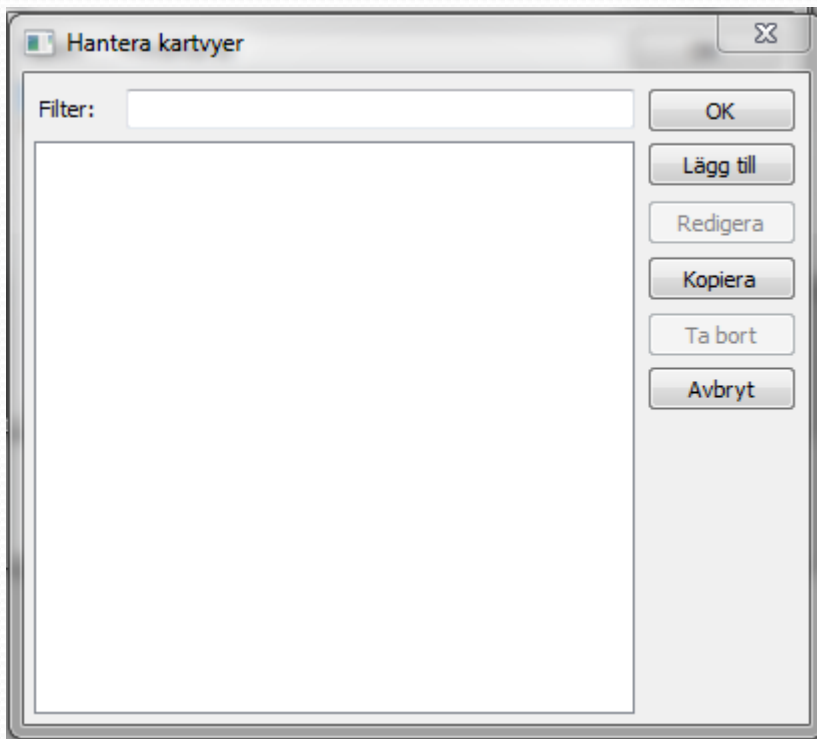
Kartor

- Definiera upp olika kartor
- Definiera vilka lager som ska ingå i kartan



Kartvyer

- Definiera upp olika kartvyer



DEMO