

# Feature Data Objects (FDO)

The Feature Data Objects API provides a generic, command-based interface to a number of back-end data source technologies for storing, retrieving, updating, and analyzing GIS (Geographic Information System) data.

FDO provides a model for extending its interface to additional data source technologies. The generic API is extensible, and it is possible to add custom commands to a particular provider. A provider is a specific implementation of the FDO API that provides access to data stored in a particular data source technology.

For example, the OSGeo FDO Provider for MySQL provides access to GIS data stored in a MySQL database, and the OSGeo FDO Provider for SHP provides access to GIS data stored in a SHP file. The extent to which a provider implements the FDO API is limited by the native capabilities of the underlying data source technology.

A client application creates a connection to a provider and then uses the connection object to create command objects for FDO actions such as Select. The client uses the command object to set the command parameters with the option of leaving some parameters with default values. Where appropriate such as in the case of Select, execution of the command returns a reader object containing the results of the command.



## Supported Data Sources

- SDF
- SHP
- ArcSDE
- Oracle
- MySQL
- ODBC
- OGR
- GDAL
- WMS
- WFS
- Custom



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