Ged2Reg

G2RModel

SGL - SimpleGedcomLib

DocxAdapterLib

OdtAdapterLib

WpdInterfaceLib

SOL - SimpleOdtLib

*OpenXML*

This diagram does not show all dependencies, but it does convey some key points about the architecture of Ged2Reg and its libraries. Note that, to avoid license conflicts and other dependencies, third party libraries are not used for the document file formats. For docx files, the OpenXML system libraries are used. For odt files, an internal implementation of the file format is included in the project (SOL library); it is not a complete implementation, as it is limited to the features needed by Ged2Reg. The component projects include

* Ged2Reg – Winforms application that provides the UI and control logic.
* G2RModel – library that provides a richer model of data from a GEDCOM file, and contains the reporting logic, to generate text from the selected data; also manages settings, inluding intialization and persistence.
* SGL (SimpleGedcomLib) – reads and parses a GEDCOM file and builds a low-level object model linking related tags such as families to spouses and children, sources to citations, etc.
* WpdInterfaceLib – provides an abstraction over word processing document (WPD) formats primarily for use by the model library; defines interfaces for document factory methods and documents.
* DocxAdapterLib – fully encapsulates (hides) all details of the docx file format needed in this application.
* OdtAdapterLib – fully encapsulates (hides) all details of the odt file format needed in this application.
* CommonClassesLib (not shown) – provides a few template classes that are used in the UI, model, and other layers.