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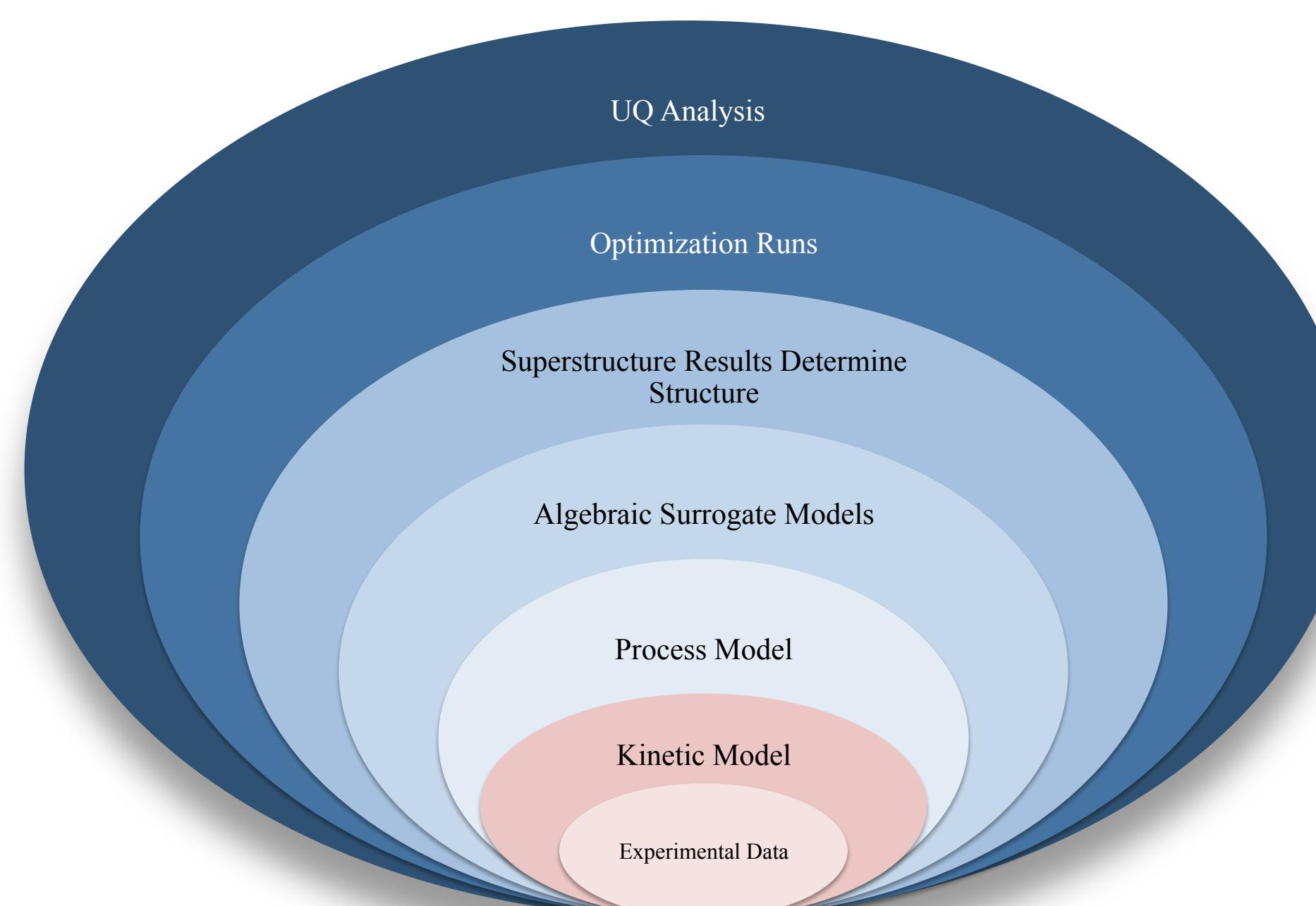
Overview

Each tool in the CCSI toolset requires and generates data. The data management system organizes and stores this data. It provides a common place for access to data and provenance information generated by the CCSI Toolset. It also enables easy interchange of data between tools through standardized file formats and file description information.

The DMF is the common base that ties together all the CCSI tools by tracking the data dependencies from experimental data to basic models ultimately to optimization & UQ studies.

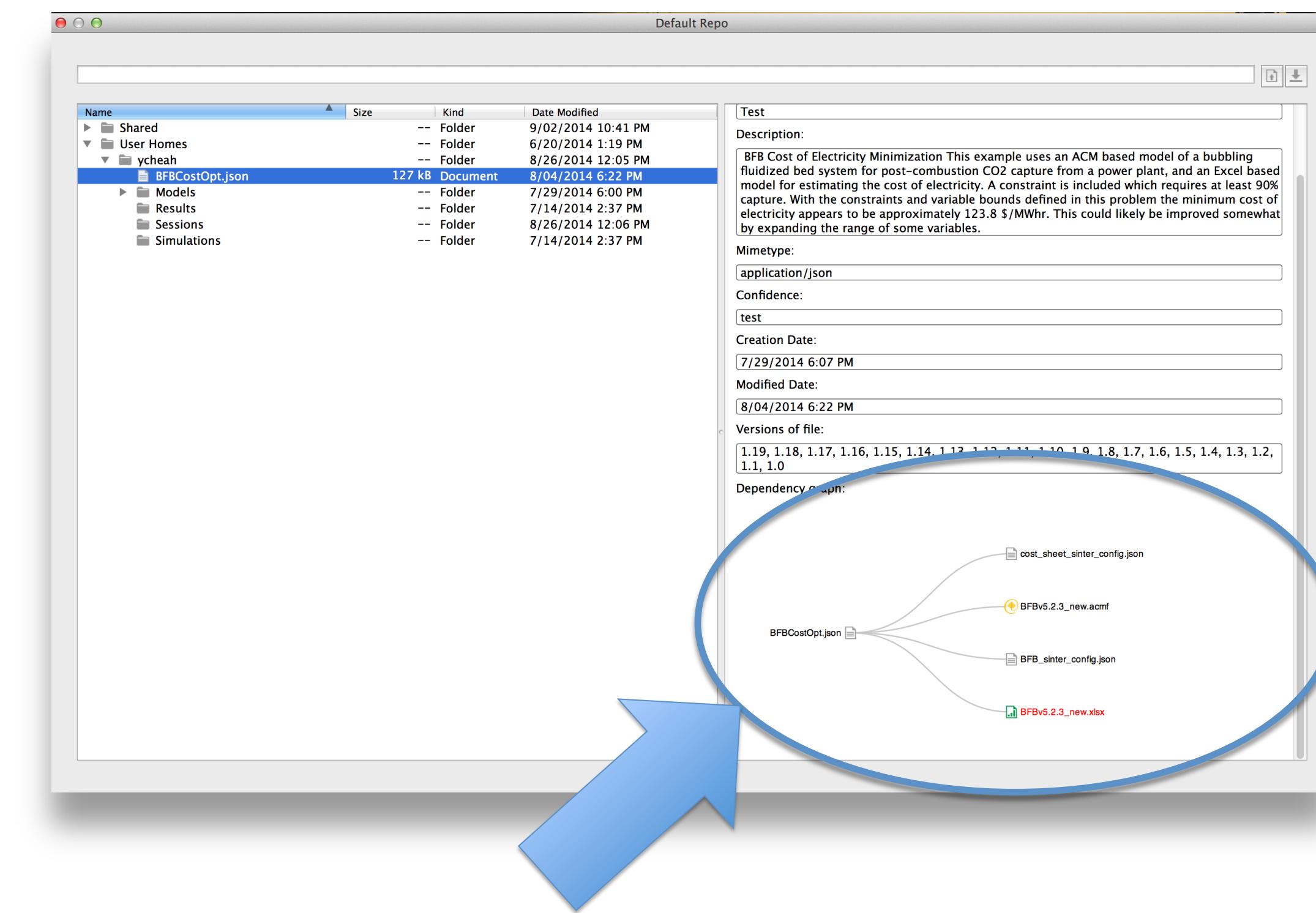
Fundamental Features

- Centralized archiving and sharing files for the whole range of CCSI activities
- Saves and tracks multiple versions of each file
- Stores descriptions and other metadata about each file.
- Provides a search interface to help find data in the data management system

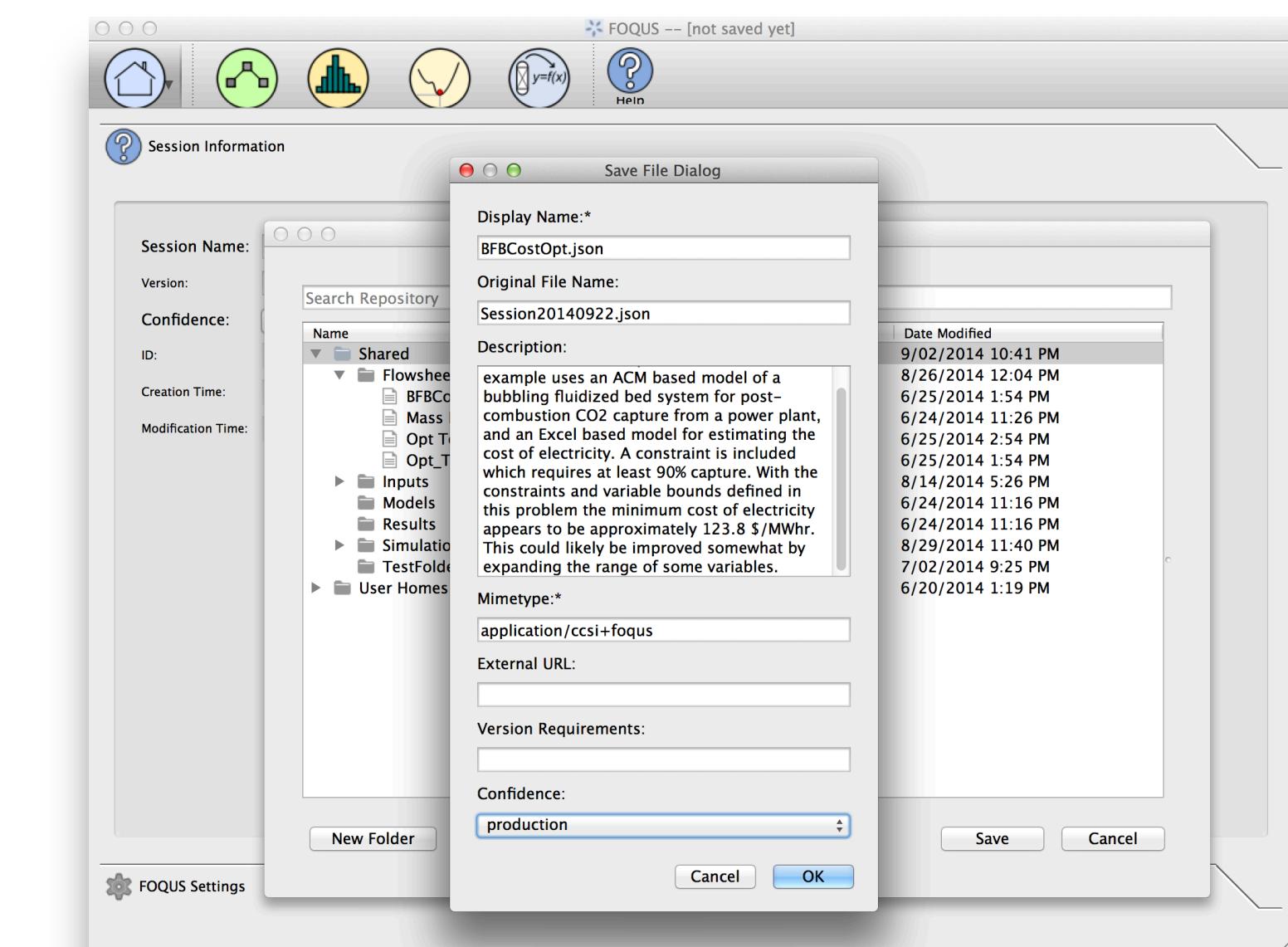


The DMF manages information from every phase and Level of a CCSI investigation from experimental data to Optimization and UQ.

Provenance Tracking

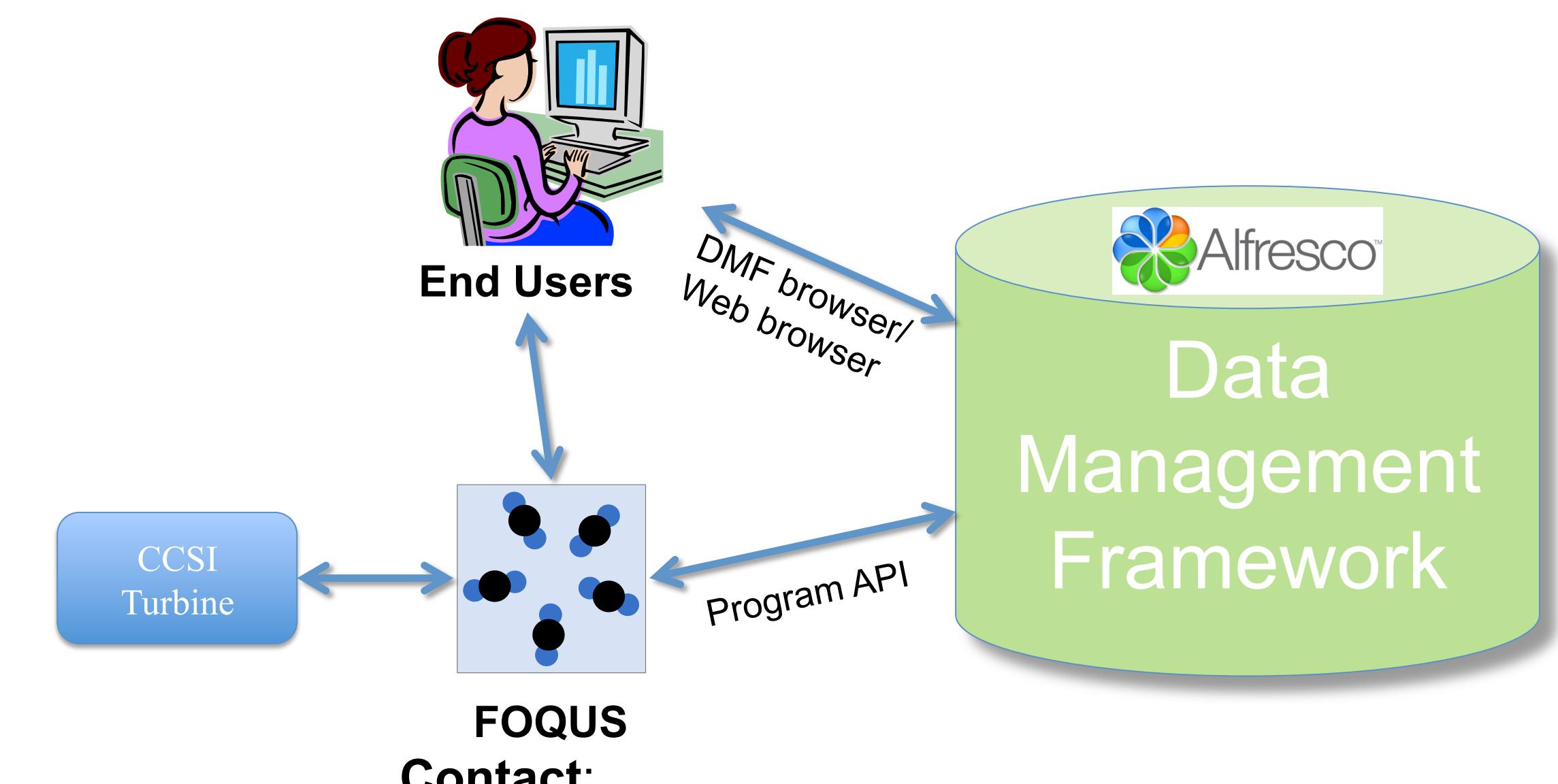


DMF provenance graph shows the relationships between archived files. Red is used to highlight dependencies that have a newer revision than the one used by the current file.

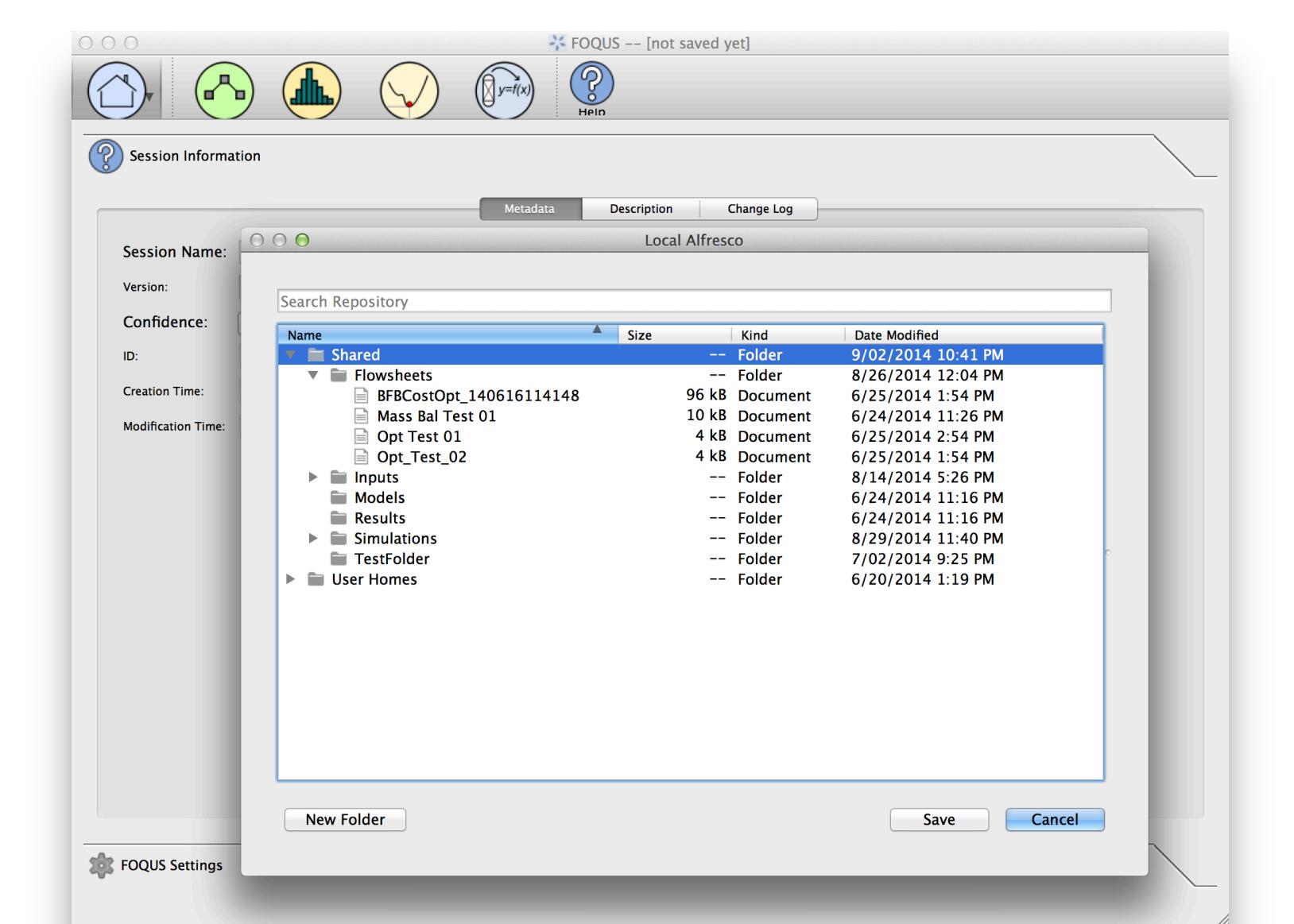


The DMF maintains extra information for each stored File, and this metadata can be viewed and edited From the FOQUS file browser.

Architecture



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FOQUS can save session and simulation files to the DMF or local file system.

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