

FRAMES 2.X—Science to Solutions Multimodel Operating System

Pacific Northwest National Laboratory

FRAMES 2.x features quality from the inside out. Automated testing, streamlined coding, and online documentation make this multiple-model operating system easy to use and reliable.

For More Information Contact:

<http://mepas.pnl.gov/FRAMESV1/>

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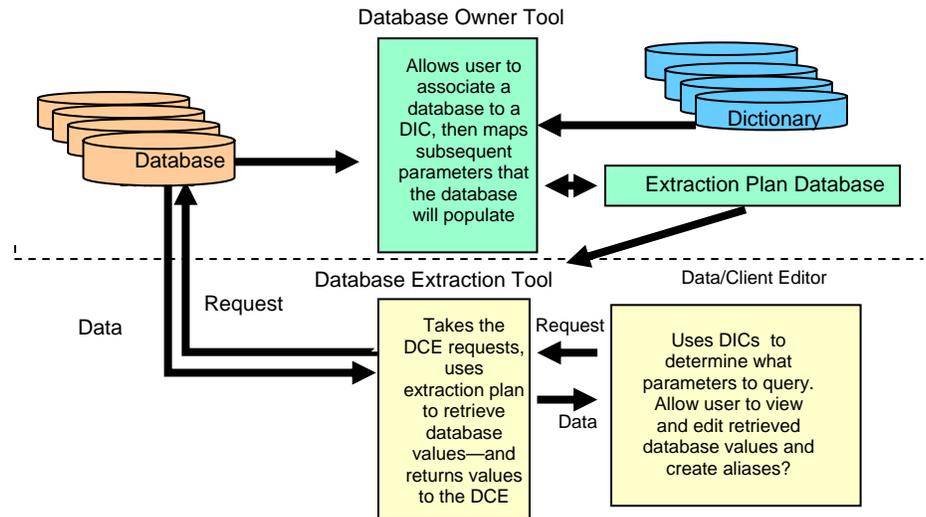
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Today's complex problems require analysts to expand their modeling environment. Analyses, ranging from financial to environmental, require a flexible system for new and older (legacy) models that produce results to support informed decision-making.

FRAMES 2.x is a flexible, multiple-model operating system that capitalizes on a user's existing models and tools. It features tools to incorporate models that integrate across scientific disciplines, allowing for tailored solutions to specific activities. It also provides a mechanism to relay meaningful information to business and technical managers, allowing analysts to expand modeling options across disciplines and into related market areas.

A Wide Range of Tools for a Wide Range of Applications

FRAMES includes tools to assist model developers as well as analysts. **Decision analysis** tools visualize results and analyze sensitivity and uncertainty. **Data management** tools enable a database owner to fully understand the analyst's needs and then map database schema and develop extraction plans. Analysts use these plans to run models faster.



Model interaction tools allow users to build or import dictionaries of data, define units, build or import modules, set up domains, and define connection schemes. To help module developers integrate models into FRAMES, the system comes with the following:

- **(Units) Conversion Editor** – Choose from a set of existing units or add new ones
- **Dictionary Editor** – Learn the formatting and content necessary for a well-formed dictionary specification
- **Domain Editor** – Design or enhance a set of module options and create or edit multiple domains to meet specific needs
- **Module (Description File) Editor** – Create the module file, including linkage schemes, executable names, and references, to allow a model to function within FRAMES
- **Dataset Editor** – Populate datasets to test that the module fully functions in the system before deploying it with other modules.

