BigLever Software Integration Solutions for Open Source

BigLever's industry-standard Gears Product Line Engineering (PLE) Lifecycle Framework™ enables the integration of tools, assets and processes across the entire systems and software development lifecycle – from requirements to design, implementation, testing, maintenance and evolution.

BigLever Software™ provides enhanced integration solutions that utilize Gears concepts and constructs to extend third party tools and ensure consistent PLE capabilities directly from the framework. BigLever's Bridge solutions make third party tools "product line aware" by incorporating standardized variation point mechanisms and enabling the execution of PLE operations – such as product configuration, variation point editing and variation impact analysis – directly from within third party tools.

BigLever offers the following integration solutions for Open Source tools:
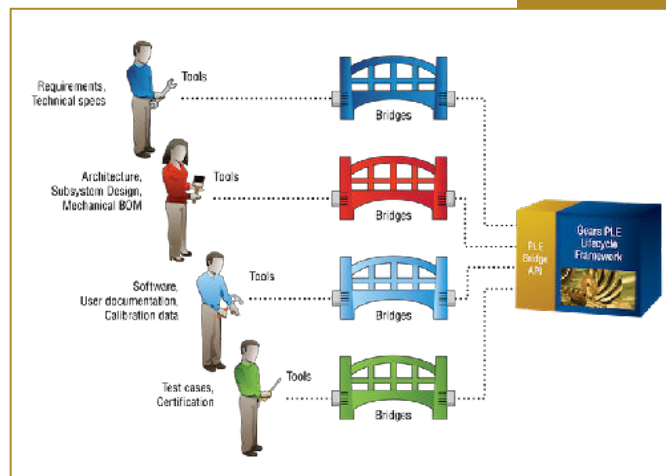
Eclipse/Gears Bridge™: Enables developers to access and utilize the Gears PLE Lifecycle Framework directly from the Eclipse user interface and menus. Key capabilities of the Bridge include:

- Allows users to employ the Gears feature model, from within the Eclipse tool, to express the feature diversity for all the products in a product line portfolio – including optional and varying feature choices.

- Provides access to the Gears variation point mechanism that can be uniformly applied to product line assets – such as source code, test cases, and so forth – to manage feature-based variations in all lifecycle stages.

- Enables the Gears product configurator to be actuated from within Eclipse. With the Gears configurator, users can automatically assemble and configure assets and their variation points – based on feature selections made in the feature model – to produce all of the products in the product line portfolio, with the push of a single button.

BigLever also offers Bridge Connector solutions for the *Gears Universal Configuration Management Bridge™*, including the *Subversion/Gears Connector™* and *CVS/Gears Connector™*. These solutions provide the seamless integration of time-based configuration management (CM) and feature-based variation management for product line assets in the Gears Framework.