BigLever Software Integration Solutions for Microsoft

Microsoft

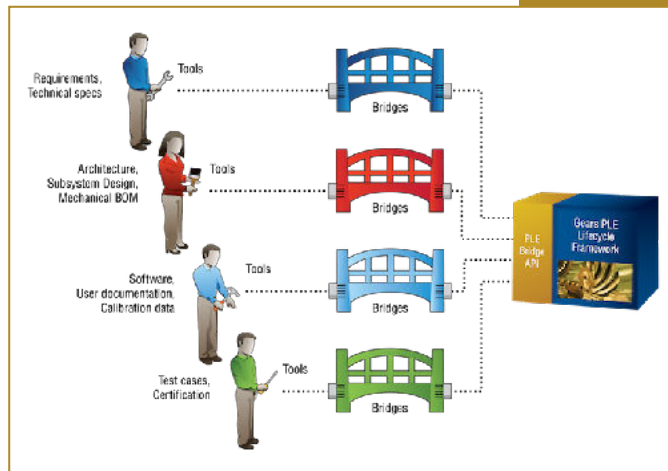*BigLever's industry-standard Gears Product Line Engineering (PLE) Lifecycle Framework™ enables the integration of tools, assets and processes across the entire systems and software development lifecycle – from requirements to design, implementation, testing, maintenance and evolution.*

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 Bridge solution for Microsoft tools:

Visual Studio/Gears Bridge™: Enables Microsoft developers to access and utilize the Gears Framework directly from the Visual Studio user interface and menus:

- Allows the Gears feature model to be viewed within Visual Studio and used to express the feature diversity (optional and varying feature choices) among all the products in a product line portfolio.

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

- Enables the Gears product configurator to be actuated from within Visual Studio to 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, with the push of a single button.

Enhanced Gears capabilities are also provided for enabling the management of product line variations in Excel, Word and PowerPoint documents by automatically producing different flavors of data worksheets, requirements, user guides and manuals, presentations, legal documents and contracts, and so forth.

ABOUT THE BIGLEVER GEARS PLE LIFECYCLE FRAMEWORK

The Product Line Engineering (PLE) Ecosystem is an open community of world-class tool providers – including developers of commercial, open source, customized, integrated or proprietary Application Lifecycle Management (ALM) and Product Lifecycle Management (PLM) tools – established for the benefit of engineering organizations seeking consistent, compatible, fully unified PLE solutions.

BigLever's Gears PLE Lifecycle Framework provides the technology foundation for the ecosystem. Gears delivers the PLE Bridge API, enabling tool makers to create bridges for connecting their tools directly with the framework.

BigLever offers built-in and Bridge integration solutions for engineering tools and integrated development environments across the full lifecycle:

- Requirements Engineering
- Modeling and Design
- Software Development
- Test Case Engineering
- Slideshow Development
- Spreadsheet Development
- Document Engineering
- Configuration Management
- Build Management

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