



BigLever Software Integration Solutions for IBM Rational®

ABOUT THE BIGLEVER GEARS PLE LIFECYCLE FRAMEWORK

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.

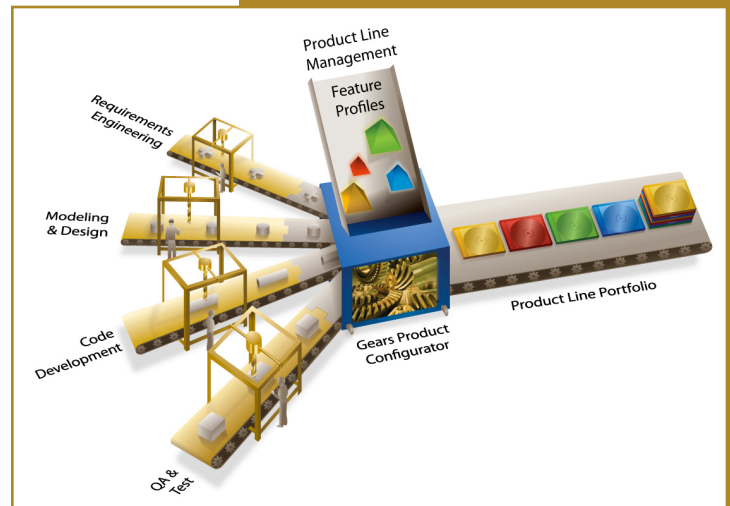
BigLever Software™ provides enhanced integration solutions that utilize Gears concepts and constructs to extend third party tools and ensure consistent PLE capabilities directly from the framework. BigLever's Bridge solutions make third party tools "product line aware" by incorporating standardized variation 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.

The Gears PLE Lifecycle Framework is agnostic and extends rather than replaces your existing systems and software engineering toolset. Gears is compatible off-the-shelf with many of the industry standards in programming languages and compilers, IDEs, requirements management, change and configuration management, build systems, quality management, model driven development, word processors and documentation.

BigLever offers the following Ready for Rational validated integration solutions for the IBM Rational toolset:



- **DOORS/Gears Bridge™:** Enables product line diversity to be encapsulated by converting DOORS requirements into Gears variation points. Requirements can be automatically configured based on Gears feature profiles, in synchrony with other assets across all lifecycle stages.
- **Rhapsody/Gears Bridge™:** Enables the management of product line diversity in a single, consolidated MDD model. Model behaviors for different products can be automatically configured by making feature choices in a Gears feature profile. Provides PLE extensions for SysML and UML.
- **Rational Quality Manager/Gears Bridge™:** Allows test case diversity to be defined based on product line features and test plans to be managed as product line assets in the development lifecycle.



BigLever Bridge products also include:

- Microsoft: *Visual Studio/Gears Bridge™*
- Serena: *Dimension RM/Gears Bridge™*, *Dimensions CM/Gears Connector™*
- Open Source: *Eclipse/Gears Bridge™*, *Subversion/Gears Connector™*, *CVS/Gears Connector™*
- Perforce: *Perforce/Gears Connector™*

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BigLever's integration products also include Bridge Connectors for the *Gears Universal Configuration Management Bridge™*. Connector solutions provide the seamless integration of time-based configuration management (CM) and feature-based variation management for product line assets in the Gears PLE Lifecycle Framework, enabling the automated execution of associated CM operations as the product line evolves. BigLever's CM Bridge Connectors for Rational tools include:

- *ClearCase/Gears Connector™*
- *Synergy/Gears Connector™*
- *Rational Team Concert/Gears Connector™*

In addition to Bridge solutions, BigLever and IBM Rational offer methodology integrations for IBM's Focal Point and Rational Publishing Engine products.