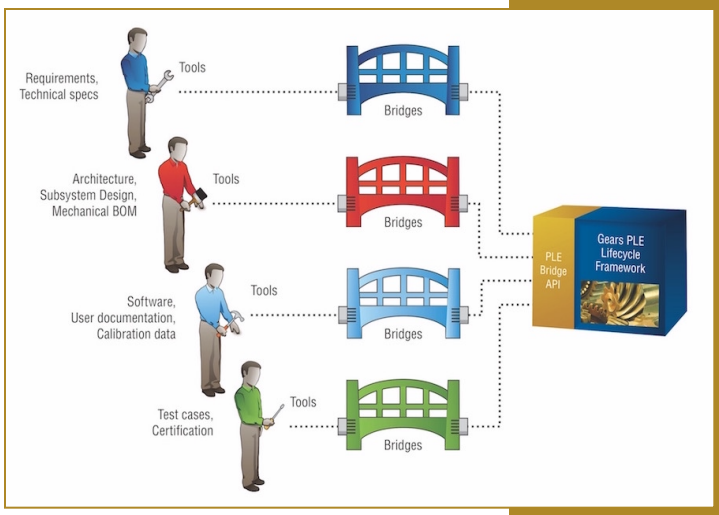
BigLever Software Integration Solutions for IBM Rational®

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.

Business Partner IBM

Ready for Rational software

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 solutions for IBM Rational tools:

- *DOORS/Gears Bridge™* and *DOORS Next Generation/ 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's integration products also include Bridge Connectors for the *Gears Universal Configuration Management Bridge™*:

- *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.

THE PLE ECOSYSTEM AND BIGLEVER BRIDGE SOLUTIONS

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
- BOM & Mechanical Engineering
- Test Case Engineering
- Slideshow Development
- Spreadsheet Development
- Document Engineering
- Configuration Management
- Build Management

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