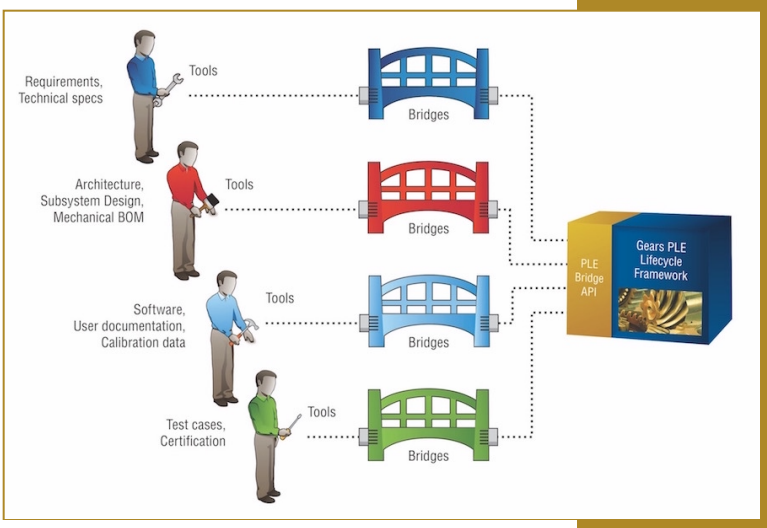
BigLever Software Integration Solution for No Magic®

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 No Magic tools:

No Magic MagicDraw/BigLever Software Gears Bridge™: Enables engineering organizations to utilize MagicDraw models as shared assets within their Gears production lines, and Gears PLE constructs as first-class systems and software engineering mechanisms for managing product line diversity in MagicDraw models. More specifically, the Bridge allows users to:

- Use PLE mechanisms to manage the diversity for a full product line in a single, consolidated Model Based Engineering (MBE) model, as a highly scalable alternative to cloned copies or one-size-fits-all UML and SysML models.
- Automatically configure MagicDraw models for different products by making feature choices in a Gears feature profile.
- Convert MagicDraw model elements and properties into Gears variation points to encapsulate the PLE diversity for that model element or property, without extending or complicating UML and SysML models.
- Use one or more MagicDraw models – either packages or projects – in a larger collection of shared assets across the full engineering lifecycle for a product line portfolio.
- Perform integrated PLE operations – such as product configuration, variation point editing and variation impact analysis – directly from MagicDraw menus.

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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