



Solution Brief

Rational DOORS/BigLever Gears Bridge solution.

Highlights

- DOORS modules in a Gears production line
- Allows conversion of Rational
 DOORS requirements into
 BigLever Gears variation points
- Enables logic editing for Rational DOORS module variation points
- Facilitates running the Gears actuator from within Rational DOORS software
- Supports product impact analysis of requirements changes via Gears membership

The growth of software product line (SPL) engineering is challenging today's development organizations to reliably define and manage requirements. Companies are looking to integrate first-class product line engineering and requirements engineering tools and methods.

Now, with the integration of IBM Rational® DOORS® requirements management software and the Gears SPL engineering tool and lifecycle framework from BigLever, your organization has a simple and elegant solution for managing requirements across your entire product line portfolio.

Integrated requirements management and SPL capabilities

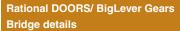
The Rational DOORS/BigLever Gears Bridge solution integrates a marketplaceleading requirements management tool from IBM into the Gears SPL lifecycle framework, enabling you to easily leverage the benefits of requirements management throughout your product line development lifecycle.

With the Rational DOORS/BigLever Gears Bridge solution, you can use Rational DOORS modules as first-class reusable assets in the Gears SPL development lifecycle, and you can use Gears constructs as first-class software engineering mechanisms for managing product requirement diversity in your product line—all within the context of the SPL framework.

- Use SPL mechanisms to manage requirement diversity for a comprehensive product line portfolio from a single, consolidated set of requirements.
- Automatically configure requirements for individual products based on Gears feature profiles, in synchrony with other assets in all lifecycle stages.







Variation point type

- · Optional requirements
- Alternate requirements
- · Text substitution refinements

Product version

- Rational DOORS Version 7.1-9.X+
- BigLever Gears Version 5.5+

Operating system

- Microsoft® Windows®
- Convert Rational DOORS requirements into Gears variation points to encapsulate SPL diversity.
- Use one or more Rational DOORS modules in a larger collection of reusable core assets for the development lifecycle of a Gears SPL portfolio.
- Perform integrated SPL operations directly from Rational DOORS menus.

Bridge plug-in extensions

The Rational DOORS/BigLever Gears Bridge solution takes the form of a dual plug-in that provides the following extensions to each product.

Gears plug-in extensions

On the Gears side, the solution enables you to include Rational DOORS modules as another form of core asset within a Gears SPL. You can use the Gears product configurator to automatically configure Rational DOORS requirements based on your feature profile selections made within Gears.

Using Rational DOORS modules as first-class SPL core assets, you can automatically configure different instantiations of product requirements without having to clone-and-own.

Rational DOORS plug-in extensions

On the Rational DOORS side, the solution allows virtually any requirement within a Rational DOORS module to be converted into a first-class Gears variation point. As a result, the diversity of requirements needed to describe the different products within the portfolio can be managed as variation points within the Rational DOORS module.

This enables you to express the feature diversity in requirements without the need for low-level attribute scripting or one-size-fits-all requirements collections.

The extensive strategic benefits offered by the Rational DOORS and BigLever Gears synergy allow you to dramatically optimize your product line scalability while improving productivity and driving down product defect rates—all with faster time to market.

For more information

To learn more about the Rational DOORS/BigLever Gears Bridge solution, contact BigLever Software at:

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