

Solution Brief

Highlights

- Enables use of Rational 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**

Rational DOORS/BigLever Gears Bridge solution.

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 marketplace-leading 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.



Rational DOORS/ BigLever Gears

Bridge details

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:

info@biglever.com

www.biglever.com

1 512 426-2227



© Copyright IBM Corporation 2009

IBM Corporation
Software Group
Route 100
Somers, NY 10589
U.S.A.

Produced in the United States of America
June 2009
All Rights Reserved

IBM, the IBM logo, ibm.com, Rational, and DOORS are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at ibm.com/legal/copytrade.shtml

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

Other company, product, or service names may be trademarks or service marks of others.

References in this publication to IBM products or services do not imply that IBM intends to make them available in all countries in which IBM operates.

The information contained in this documentation is provided for informational purposes only. While efforts were made to verify the completeness and accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind, express or implied. In addition, this information is based on IBM's current product plans and strategy, which are subject to change by IBM without notice. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, this documentation or any other documentation. Nothing contained in this documentation is intended to, nor shall have the effect of, creating any warranties or representations from IBM (or its suppliers or licensors), or altering the terms and conditions of the applicable license agreement governing the use of IBM software.

IBM customers are responsible for ensuring their own compliance with legal requirements. It is the customer's sole responsibility to obtain advice of competent legal counsel as to the identification and interpretation of any relevant laws and regulatory requirements that may affect the customer's business and any actions the customer may need to take to comply with such laws.

Any material included in this document with regard to third parties is based on information obtained from such parties. No effort has been made to independently verify the accuracy of the information. This document does not constitute an expressed or implied recommendation or endorsement by IBM of any third-party product or service.