pure::variants

Release 4.0

Updates Your Product Line

Your Guide To pure::variants 4.0

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  - New Connectors And Connector Overview: MagicDraw (Technical Preview), MS Office 2016
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Highlights

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pure::variants Update Transformations

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pure::variants Update Transformations: Product Line and Variant Coevolution Support

Before pure::variants 4.0, changing variants assets produced by pure::variants required several additional steps to be executed in order to ensure that these changes survive the next variant transformation.

With the new pure::variants Update Transformation Support pure::variants takes care of that challenge for you. Providing variant update support for most of its variant transformation modules enables unprecedented coevolution of your product line assets and the derived variants. Give variants back the freedom to change while benefitting from the continuous evolution of the reusable assets in the product line!

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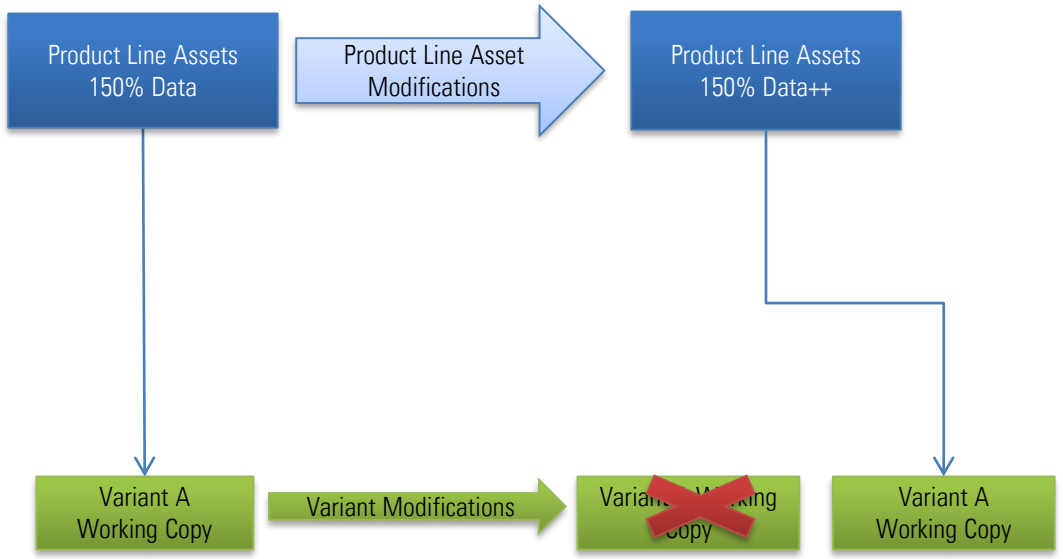
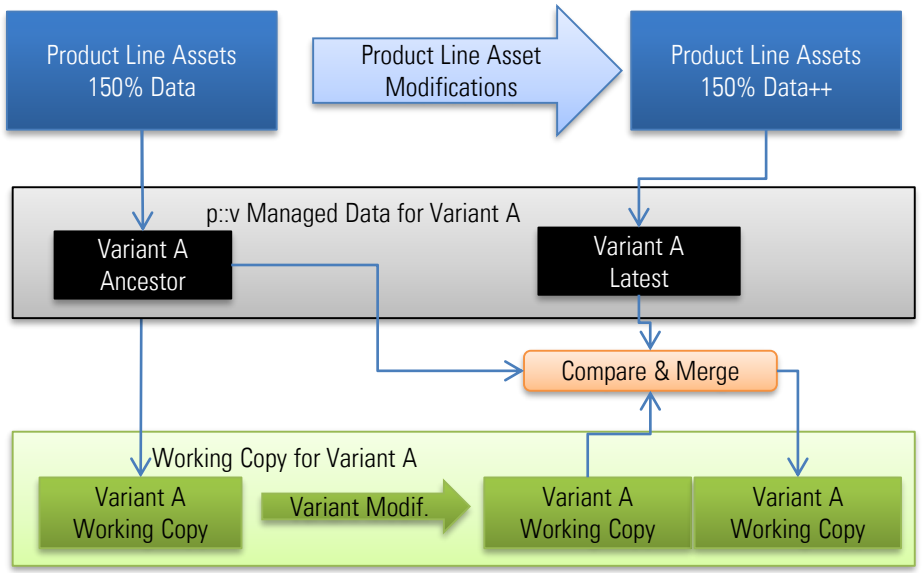
pure::variants Update Transformations: Product Line and Variant Coevolution Support

Without pure::variants Update



With pure::variants Update



pure::variants Update Transformations automatically manage the required data for keeping product line and variants in sync. Bringing together the changes is as easy (or as difficult) as merging two independent streams of changes in single product developments.

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pure::variants Update Transformations: Product Line and Variant Coevolution Support

- Transformations providing support for Variant Update Workflows
  - Most pure::variants transformations, which generate files, such as the Standard Transformation, model transformations such as MagicDraw, and many more.
  - Global Configuration enabled tools such as DOORS Next Generation, Rhapsody (Design Manager): Update used Jazz Streams and Change Sets
  - DOORS 9.x: Our Connector provides special support in order to provide Compare and Merge
- The user guide and the Connector manuals contain more information how to enable and use the pure::variants Update Transformations.
- Transformation Modules which do not provide Update Support will indicate this in the Transformation Configuration.

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Variability and Variant Analysis

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pure::variants Variability and Variant Analysis

Once the number of variants grows, it becomes necessary to be in control of unintended variants and variability. With hundreds or thousands of features refactoring the variability based on knowledge gained from the selection patterns in variants can become difficult, as there is a huge amount of data to be analyzed in order to identify the selection patterns.

pure::variants now provides dedicated Variability and Variant Analysis functions in order to help you. You may use these functions to identify if there are similar or even the same configurations in variants, to find variants with a given selection pattern and to identify the selection patterns.

The results can be visualized in pure::variants or exported as reports for later analysis or tracking.

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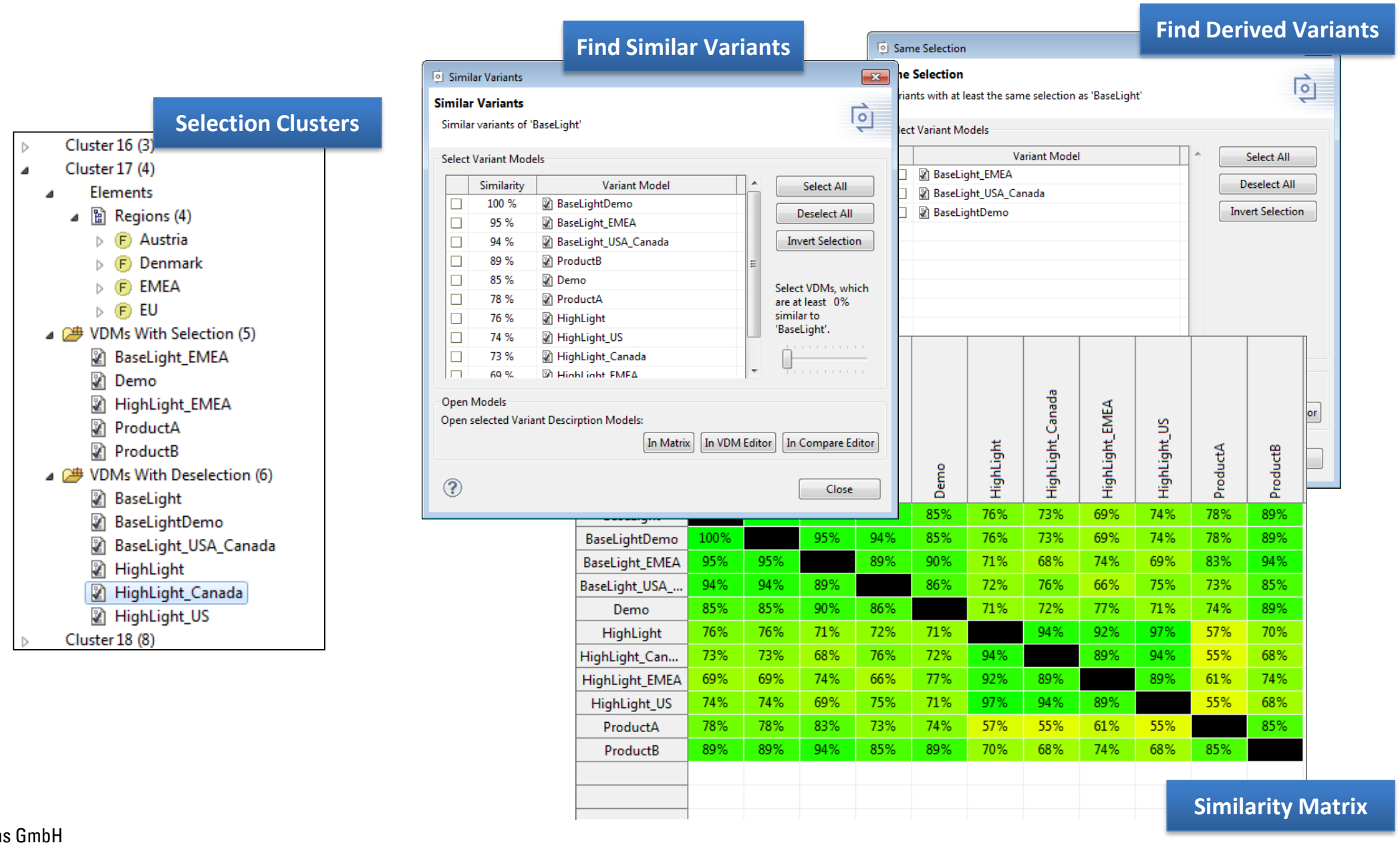
pure::variants Variability and Variant Analysis



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Custom Tool Integration Kit

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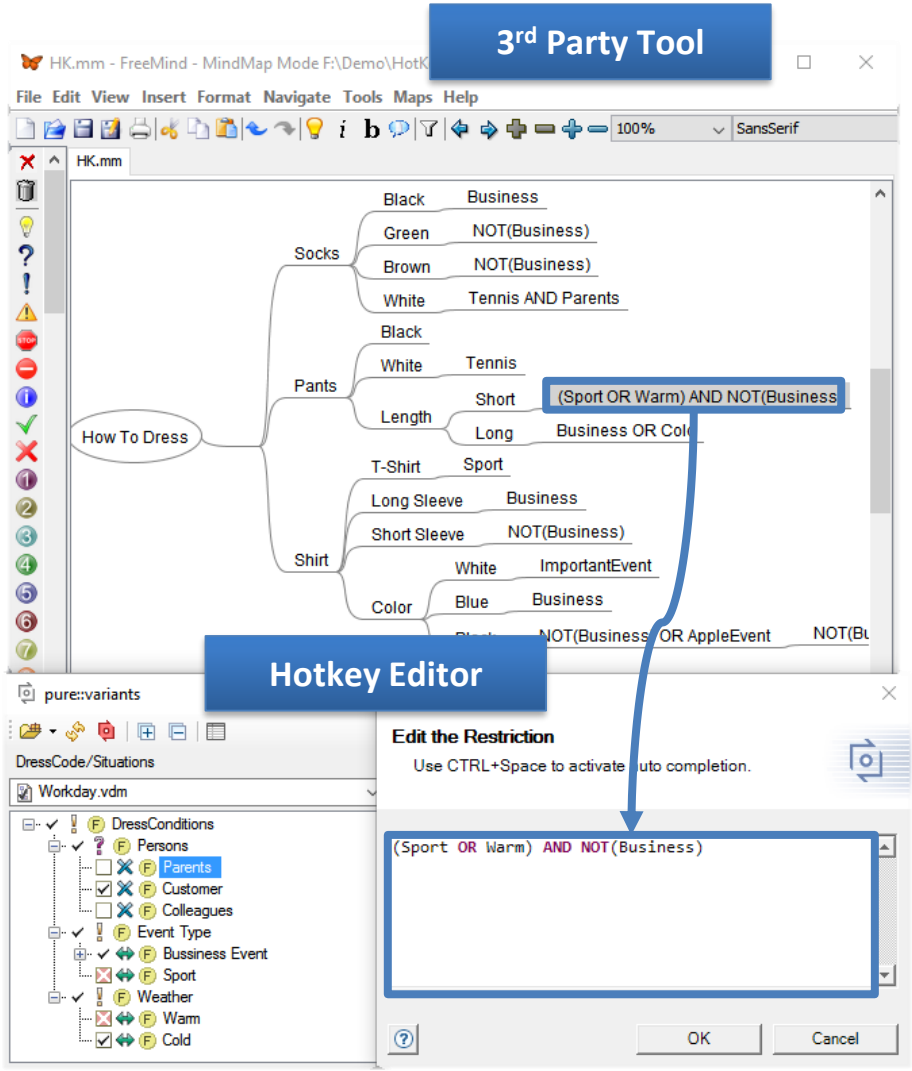
pure::variants Custom Tool Integration Kit

pure::variants has been providing easy-to-use ways to integrate pure::variants into your environment such as custom transformations, e.g. using JavaScript.

The new pure::variants Custom Tool Integration Kit takes this one step further. The included Hotkey Editor enables you to add pure::variants rules to virtually every data you want to annotate with the full comfort of the pure::variants Rule Editor known from our pure::variants Connectors.



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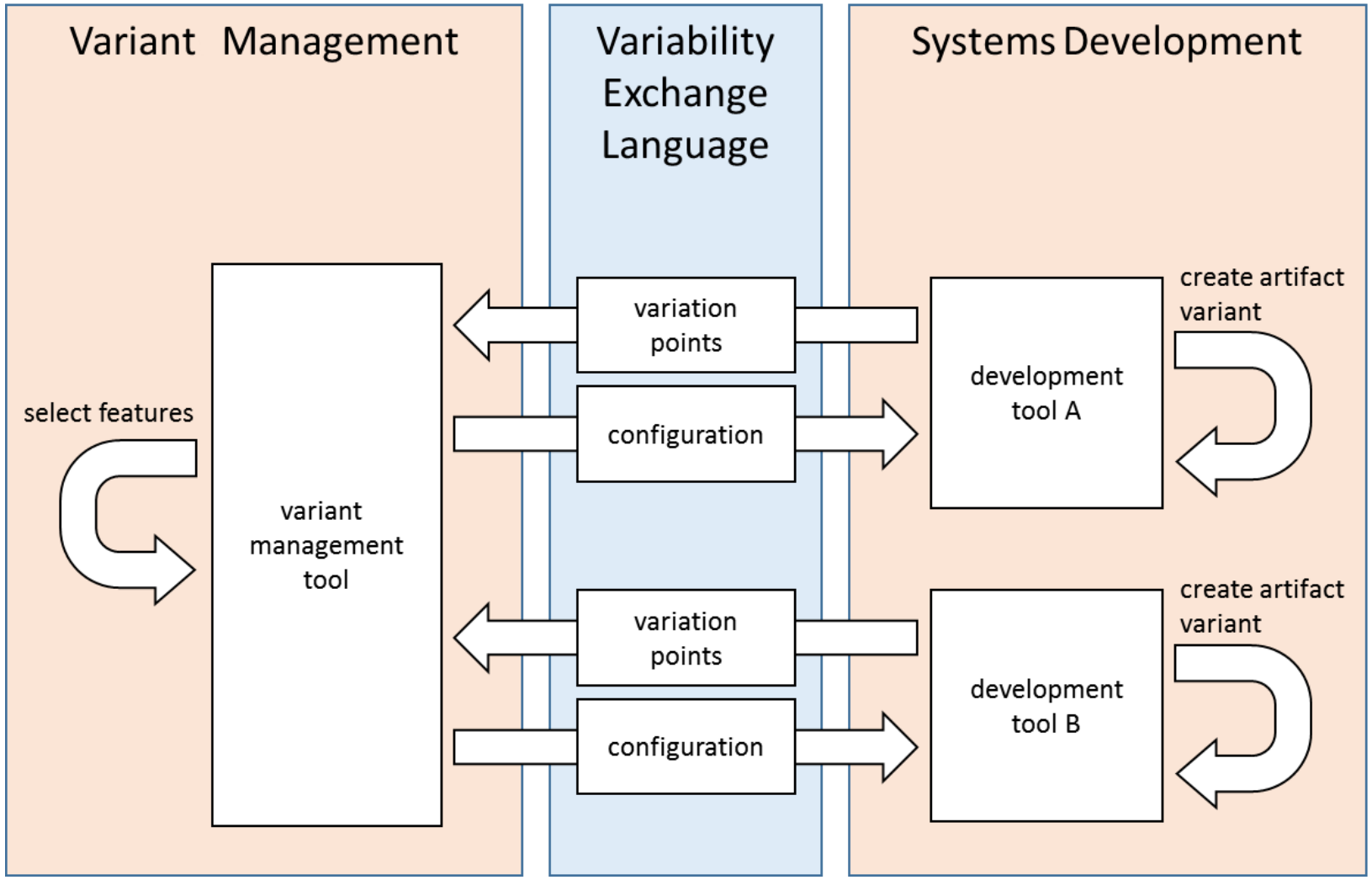
pure::variants Custom Tool Integration Kit
Variability Exchange Language

In addition the new support for the Variability Exchange Language* (VEL) makes it super-easy to interface your tool specific variation point concept with pure::variants logic just by passing VEL data to pure::variants and getting a VEL configuration back.



*see http://www.variability-exchange-language.org/

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pure::variants Connectors

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In-Tool Editor Improvements

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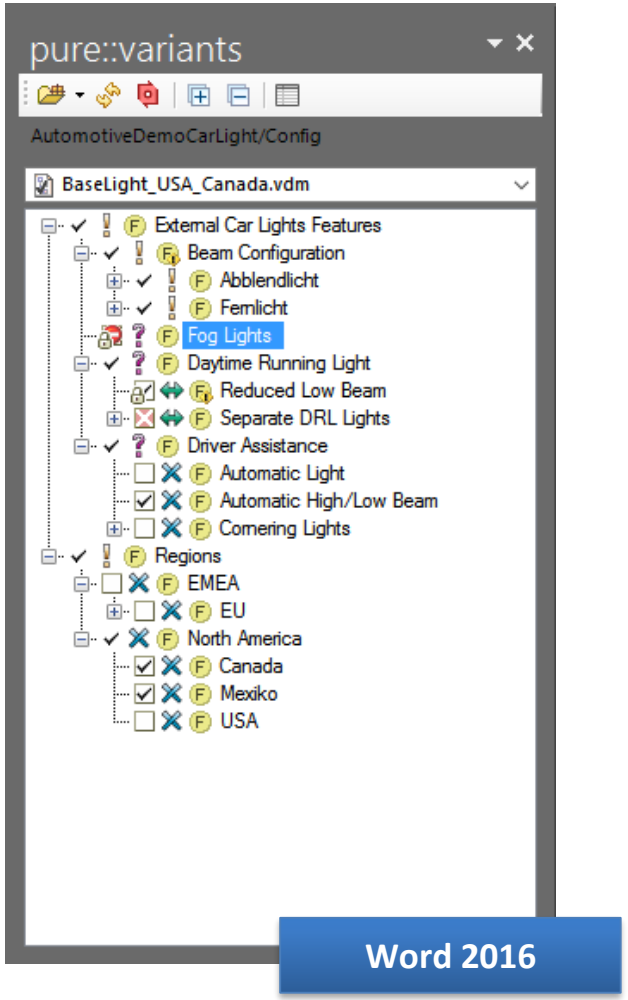
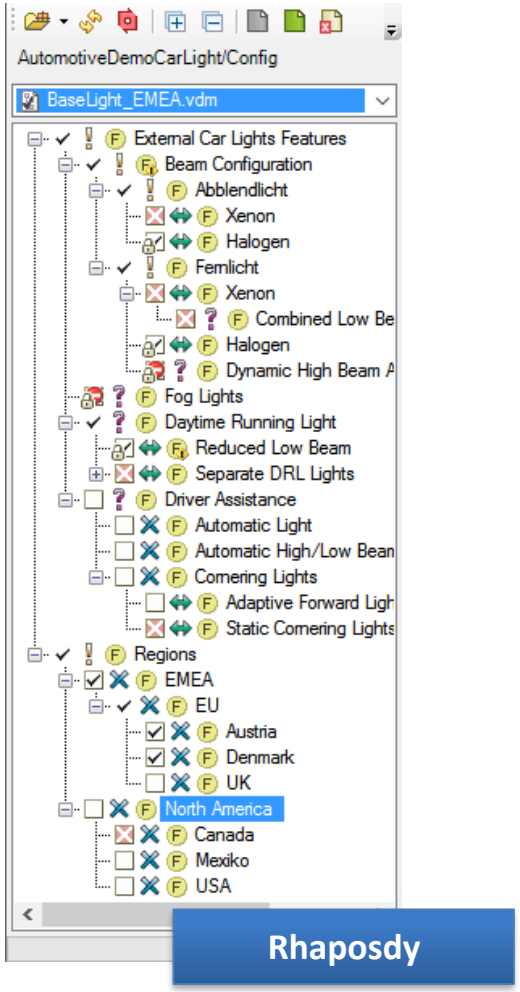
pure::variants In-Tool Editor Improvements
Live Connections Simplify Workflows

An often requested improvement now simplifies your editing workflows in 3rd party tools. All pure::variants Connectors providing In-Tool Editors are now using Live Connections with pure::variants. This means, every change to a variant is immediately visible in all connected tool integrations. The new UI also integrates a simplified variant selection from all variants of a configuration space.





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Global Configuration Support

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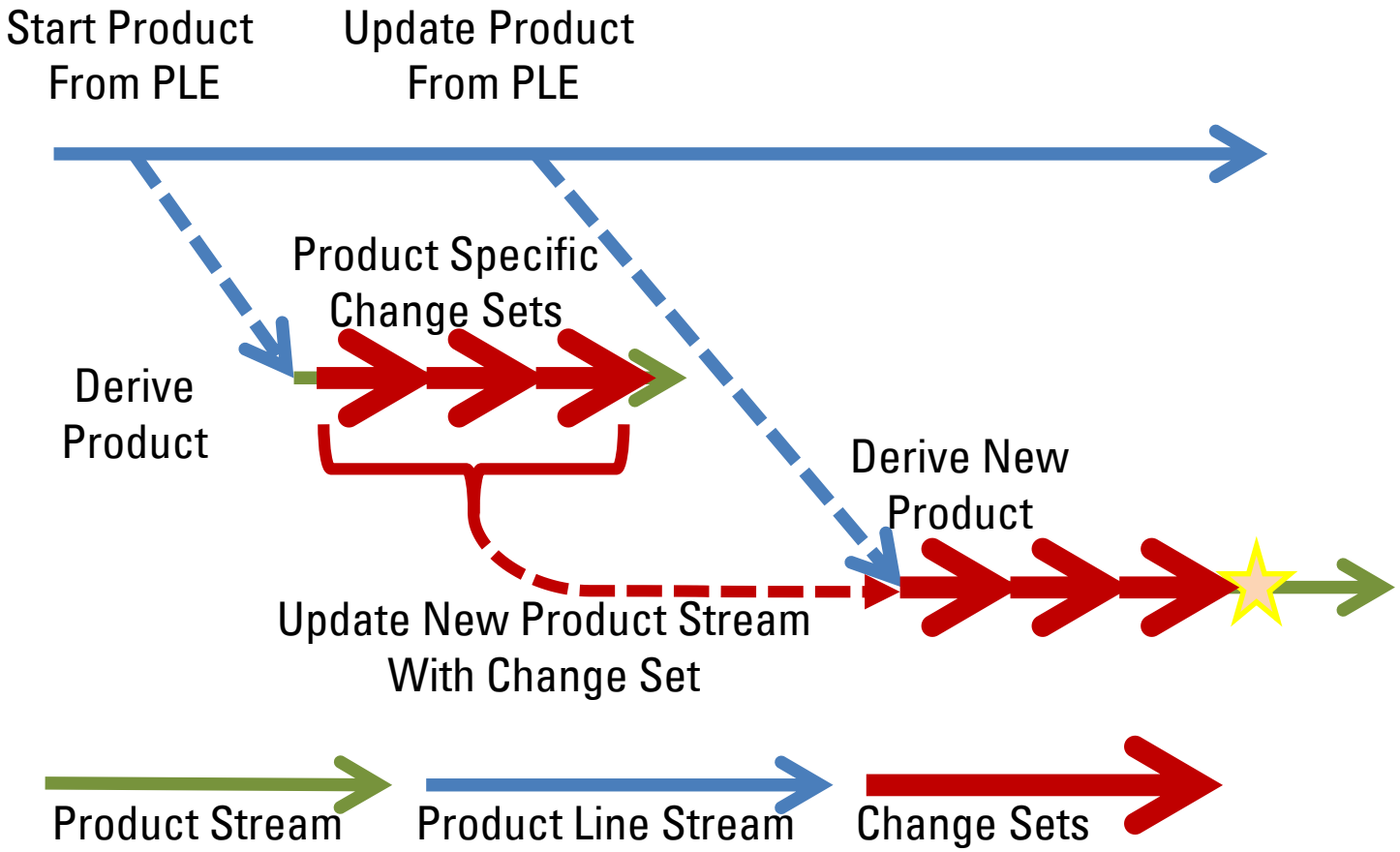
pure::variants Connectors for IBM Jazz-based Tools
Global Configuration Support: Streams and Change Sets

All pure::variants Connectors for IBM tools based on the Jazz Platform now support Global Configuration concepts like Product Variant representation as Streams and updating Variants by using Change Sets.

Supported tools include Doors Next Generation, Rational Quality Manager, and Rhapsody Design Manager.



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New Connectors

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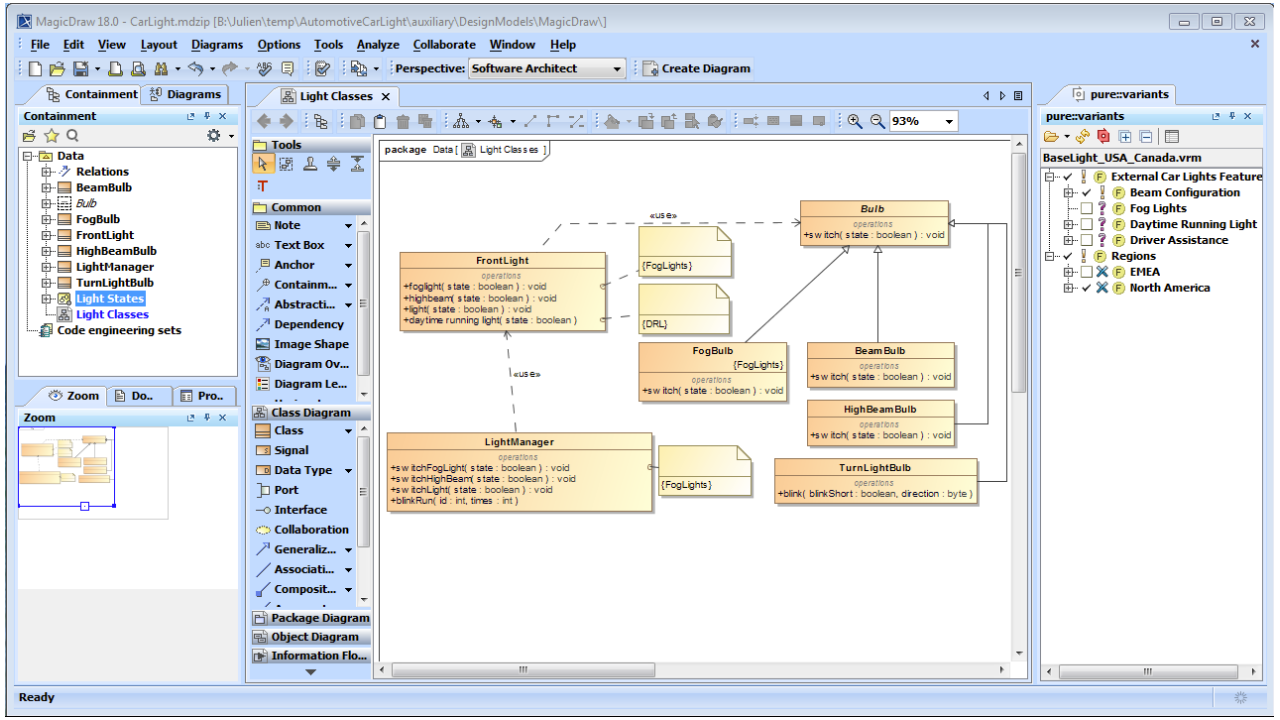
pure::variants Connector for MagicDraw
Technical Preview



New in our list of available pure::variants Connectors is the Connector for NoMagic's MagicDraw Modeling Tool. It provides the familiar In-Tool Editor and offers both structural and parametric variability concepts.

Please note that this is a technical preview only. It works with MagicDraw 18.x and requires in addition to our Connector also a special MagicDraw component, available on request.

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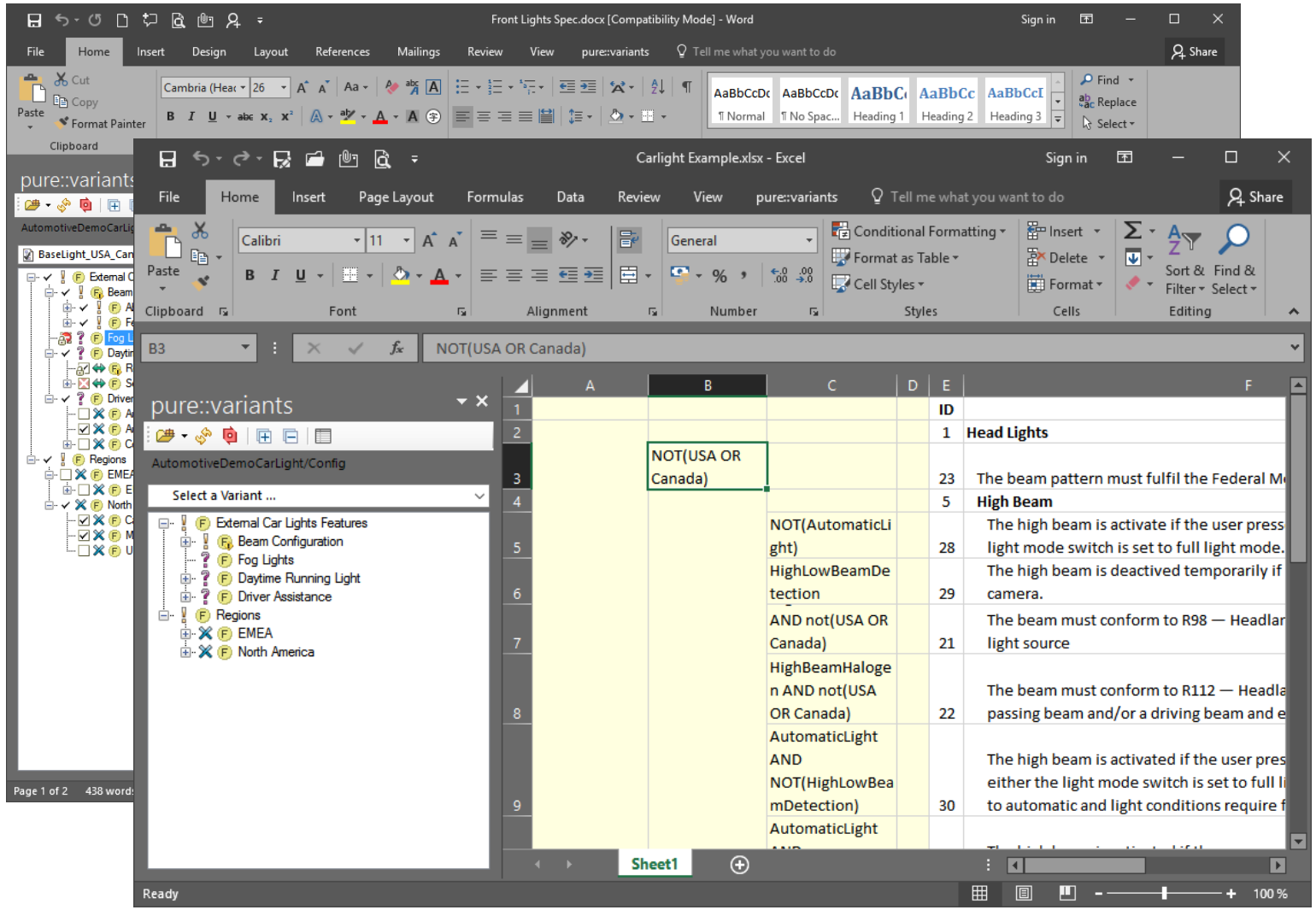
pure::variants Connector for Microsoft Office
Support For Office 2016



Now officially supported are Microsoft Word and Excel 2016, growing the list of supported Microsoft Office Suites to Office 2007, 2010, 2013, and 2016.

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Connector Overview

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pure::variants Standard Connectors Overview

AUTOSAR / ARTOP	IBM Rational DOORS	IBM Rational DOORS Next Generation	IBM Rational Rhapsody
NoMagic MagicDraw (Preview)	Source Code Management	Version Control Systems	Sparx Systems Enterprise Architect
Microsoft Word	Microsoft Excel	EMF Feature Mapping	PTC Integrity
IBM Rational Quality Manager (Preview)	HP Quality Center / ALM (Preview)	BIRT	Mathworks Simulink

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Technical And License Changes

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Technical Requirements And License Changes

- Java Version: Support for Java 7+8
- 32/64bit Support:
  - Full use of 64bit on Windows and Linux
  - 32bit supported on 32bit Machines
- Eclipse
  - Eclipse 3.8.2 included in Installer
  - Minimum Version: Eclipse 3.6
- Recommended Minimal Hardware: Multicore CPU, 2GHz, 2GB RAM
- USB Dongle Users:
  - CodeMeter 6.10 required
- License Version Change
  - pure::variants 4.0 requires new license files, old licenses will not be accepted.
  - New 4.0 licenses can be used with pure::variants 3.2

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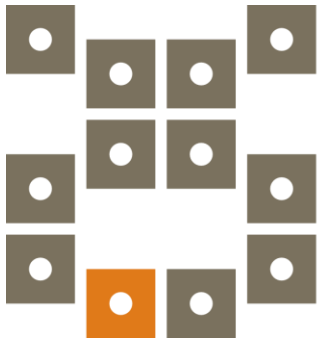

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