Variant Management Sample Application for Grammer AG

Release Notes

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Table of Contents

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Document Conventions

The following table highlights the document conventions used in the document:

Table 1:   Document Conventions

Convention	Description
Bold	Emphasizes the names of menu items, dialog boxes, dialog box elements, and commands. Example: Click **OK**.
`Code`	Code examples appear in `courier` font. It may represent text you type or data you read.
`Yellow highlight`	Code highlighted in yellow draws attention to the code that is being indicated in the content.
`Yellow highlight with red text`	Red text highlighted in yellow indicates the code parameter that needs to be changed or replaced.
Italics	Reference to other documents.
Note:	Notes contain additional useful information.
Warning	Warnings contain important information. Pay special attention to information highlighted this way.
Successive menu choices	Successive menu choices may appear with a greater than sign (-->) between the items that you select consecutively. Example: Navigate to **File** --> **Save** --> **OK**.

1 Release History

Version	Date	Comments
	02-11-2021	VM Sample Application for Grammer AG

2 Enhancements, Bug Fixes, and Known Issues

2.1 VM Sample Application for Grammer AG

2.1.1 Enhancements in VM Sample Application for Grammer AG

VM Sample Application on Aras Innovator 12.0 SP12

- Allows Grammer AG to install the VM Sample Application on Aras Innovator 12.0 SP12.

Relationships for Managing Features and Options in Rules and Usage Conditions

- Relationships have been introduced to manage Features and Options used in Rules and Usage Conditions. This leverages standard Aras Innovator functionality and provides traceability regarding where Features and Options are used. This also allows for the detection and prevention of the deletion of Features and Options if they are used in Rules and Usage Conditions and provides users with visibility to dependencies such as where-used/references.

- A server method, called vm_generateDictionaryItemRels, is provided to create relationships to Features and Options for existing Rules and Usage Conditions. The method is run using the "Run Server Method" action from the Method form, or from the main grid context menu.

CUI Location for Usage Condition Table Editor Toolbar

- A CUI location is now defined for a toolbar above the Usage Condition Table Editor. Users now have the possibility to add a toolbar above the Usage Condition Table Editor for extended functionalities.

CUI Location for Usage Condition Table Editor Context Menu

- A CUI location is now defined for a context menu in the Usage Condition Table Editor. Users now have the possibility to add a context menu in the Usage Condition Table Editor for extended functionalities.

Assign Assets Directly in Usage Condition Table Editor

- Allows users to assign, replace or remove Assets directly in the Usage Condition Table Editor using existing Assets.

Public API Extensions

- Provides mechanisms to reload the Usage Condition Table Editor using an onClick event and update a row in the Usage Condition Table Editor through the context menu.

Performance Improvements

- Provides a modified onGet method for Expressions. This improves the performance of Breakdown Structure resolution. This is a temporary workaround which emulates the Breakdown Structure resolution performance improvement introduced with the release of Aras Innovator 12.0 SP14.

2.1.2 Issues Fixed in VM Sample Application for Grammer AG

Issue #	Description
F-003754	A version of the VM Sample Application has been provided which includes changes requested for Grammer AG on 12.0 SP12.
F-003820	Relationships have been introduced to manage Features and Options used in Rules and Usage Conditions. This leverages standard Aras Innovator functionality and provides traceability regarding where Features and Options are used. This also allows for the detection and prevention of the deletion of Features and Options if they are used in Rules and Usage Conditions and provides users with visibility o dependencies such as where-used/references. A server method is provided to create relationships to Features and Options for existing Rules and Usage Conditions. The method is run using the "Run Server Method" action from the Method form, or from the main grid context menu.
I-026857	The VM Sample Application has been upgraded to allow installation on Aras Innovator 12.0 SP12.
I-026860, 027364	Provides a modified onGet method for Expressions. This improves the performance of Breakdown Structure resolution. This is a temporary workaround which emulates the Breakdown Structure resolution performance improvement introduced with the release of Aras Innovator 12.0 SP14.
I-026865	A CUI location is now defined for a toolbar above the Usage Condition Table Editor.
I-026866	Allows users to assign, replace or remove Assets directly in the Usage Condition Table Editor using existing Assets.
I-026867	A mechanism has been provided to reload the Usage Condition Table Editor using an onClick event.
I-026869	A CUI location is now defined for a context menu in the Usage Condition Table Editor.
I-026870	A mechanism has been provided to update a row in the Usage Condition Table Editor through the context menu.
I-027604	The scrollbar in the Validate tab of Variability Items now displays when expanding relevant Features in the Validate Selection area.

2.1.3 Known Issues in VM Sample Application for Grammer AG

Issue #	Description	Workaround
I-016626	Selecting "Save" or "Done" after making an edit in the Assets tab on a Variable Component with the Usage Conditions window open creates a new generation of the Variable Component. After the second generation, any subsequent edits are applied to the previous generation of the Variable Component.	After selecting "Save" or "Done", close and reopen the Variable Component.
I-029149	Rules are not deleted when they are not referenced by any Variability Item, leading to orphaned Rules with relationships to Features and Options.	Expose vm_Rule in the TOC to delete the orphaned Rule manually.
I-012447	Table Rule Editor creates incorrect Rules if the same Option is used in multiple Features.	Use the text rule editor to create the Rule.
I-029199	Features can be removed from Variability Items even if they are used in Rules associated with the immediate or parent Variability Items.	Perform an impact analysis before removing relevant Feature from Variability Item.
I-029200	Variability Items can be removed from the Variability Structure even though relevant Features from that Variability Item is used in Rules in that parent Variability Items.	Perform an impact analysis before removing a Variability Item from a Variability Structure.

2.1.4 Additional Notes

- Noted in Section 2.1.1., the VM Sample Application for Grammar contains a temporary workaround which emulates the Breakdown Structure resolution performance improvement introduced with the release of Aras Innovator 12.0 SP14. Upon upgrading to Aras Innovator 12.0 SP14 or above, this temporary workaround will no longer be needed because the performance fix will be part of a standard Aras Innovator 12.0 SP14.

- Currently, there is no available public API to create new rows in the Aras grid component used by the Usage Conditions Table Editor.

- Variability Item, Rules, and Usage Conditions are non-versionable, and is subject to change in the standard Variant Management application.

- The current implementation does not have context to include a Program/Customer/Model level scope.