**F-001540**

**"VM: Breakdown Structure resolution for selected options"**



Aras Corporation

© 2002 Aras Corporation. All rights reserved

Aras Corporation

Heritage Place

439 South Union Street

Lawrence, MA 01843

Phone: 978-794-7643

Fax: 978-794-9826

E-mail: info@aras-corp.com

Website: http://www.aras-corp.com

Notice of Rights

All rights reserved. Aras Corporation (Aras) owns this document. No part of this document may be reproduced or transmitted in any form by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Innovator and other Aras product names and logos are trademarks of Aras Corporation.

Notice of Liability

The information contained in this document is distributed on an “As Is” basis, without warranty. While every precaution has been taken in the preparation of this document, Aras shall have no liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the information contained in this document or by the software or hardware products described in it.

|  |  |  |
| --- | --- | --- |
| NAME | Description of update | Date Updated |
| **Olena Zaporozhets** | Initial creation | 11/7/2019 |
| **Kseniya Gavrilenko** | Add Acceptance tests for I-011516 "Resolving structure in resolution sidebar tab of breakdown item" | 11/29/2019 |
| **Olena Zaporozhets** | Add Acceptance tests for I-017482 "Permissions for methods related to res. and validate selection" | 03/31/2020 |
| **Olena Zaporozhets** | Update documentation | 11/12/2020 |
| **Olena Zaporozhets** | Update documentation (“Create OnGet handler for vm\_expression’ case was deleted as not actual) | 2/09/2021 |

Table of Contents

[1 Send Us Your Comments 5](#_Toc63798665)

[2 Overview 6](#_Toc63798666)

[3 Functional Tests 7](#_Toc63798667)

[3.1 Resolving structure in resolution sidebar tab of breakdown item 7](#_Toc63798668)

[3.2 Any user can resolve breakdown structure and can validate selection (user from World) 9](#_Toc63798669)

[3.3 Any user can resolve breakdown structure and can validate selection (user from All Employees) 9](#_Toc63798670)

# Send Us Your Comments

Aras Corporation welcomes your comments and suggestions on the quality and usefulness of this document. Your input is an important part of the information used for future revisions.

* Did you find any errors?
* Is the information clearly presented?
* Do you need more information? If so, where and what level of detail?
* Are the examples correct? Do you need more examples?
* What features did you like most?

If you find any errors or have any other suggestions for improvement, please indicate the document title, and the chapter, section, and page number (if available).

You can send comments to us in the following ways:

* FAX:   
  978-794-9826  
  Attn: Aras Support

Or,

* Postal service:  
  Aras Corporation  
  Heritage Place  
  439 South Union Street  
  Lawrence, MA 01843

Or,

* Email:   
  support@aras-corp.com   
  Subject Line: Innovator Documentation

If you would like a reply, please give your name, address, telephone number, and (optionally) electronic mail address.

If you have usage issues with the software, please contact your local Aras Account Executive.

# Overview

This Document represents a test case suite for testing F-001540 "VM: Breakdown Structure resolution for selected options".

List of user stories which are described in the test suite, acceptance tests and lists of covered checks:

**I-011515 "Create OnGet handler for vm\_expression"**

**Acceptance Criteria:**

* OnGet server event is implemented for vm\_expression ItemType.
* OnGet server event allows to resolve expressions when request is coming from QB engine or from regular GetItem (AML request). Resolution is only performed when resolution target scope and builder method are specified.

**I-011516 "Resolving structure in resolution sidebar tab of breakdown item"**

**Acceptance Criteria:**

* Verify that user can resolve Structure for selected options by clicking on "Resolve" button in resolution sidebar tab in Breakdown item.
* Verify that resolved structure contains all fixed content if it exists (no matter what the selected options selected).
* IF a Component has Parts and/or Documents whose usage condition meet the criteria (selected options), THEN those parts and documents will be displayed in the resolved structure, and the component will not be displayed.
* IF a Component doesn't contain Parts and/or Documents THEN the Component row will be displayed in the resolved structure.
* IF a Component has no Parts and/or Documents whose usage condition meet the criteria (selected options), then the Component row will be displayed in the resolved structure.
* The next columns in following sequence are displayed in resolved structure: "Code / ItemNumber", "Name", "Revision", "State".

**I-017482 Permissions for methods related to res. and validate selection**

**Acceptance Criteria:**

* Verify that any user can resolve breakdown structure.

Steps highlighted in grey: Check this test case only once while validation!!!

Steps highlighted in yellow are covered with component tests.

Steps highlighted in green are covered with selenium tests.

Steps highlighted in blue are covered with integration tests.

Steps highlighted in orange are covered with unit tests.

# Functional Tests

## Resolving structure in resolution sidebar tab of breakdown item

|  |  |
| --- | --- |
| **Test#:** | F-001540-02 |
| **Purpose:** | To test the Resolving of structure in resolution sidebar tab of breakdown item |
| **Original requirements:** | [I-011516 "Resolving structure in resolution sidebar tab of breakdown item"](https://myinnovator.com/?StartItem=sa_Issue:EE6673DB09334E448C11A5714F329343) |
| **Execute** | Yes |
| **Setup** | Load Sample Data |
| ***Verify that user can resolve Structure for selected options by clicking on "Resolve" button in resolution sidebar tab in Breakdown item.***  ***Verify that resolved structure contains all fixed content if it exists (no matter what the selected options selected).***  ***IF a Component has Parts and/or Documents whose usage condition meet the criteria (selected options), THEN those parts and documents will be displayed in the resolved structure, and the component will not be displayed.***  ***IF a Component doesn't contain Parts and/or Documents THEN the Component row will be displayed in the resolved structure.***   * 1. Go to **Variant Management -> Breakdown items** -> **Search**   2. Open ***Shifter***-> Edit   3. Go to **Content** tab   4. Click Add Components -> Pick **FR-6576** Part and **UM** Document   5. Click New Component -> select Variable Component -> OK -> Type   Code: Component01  Name: **test**   * 1. Click Done -> Close **test** Component   2. Click **Save** for ***Shifter*** item   3. Go to **Resolution** tab on sidebar for ***Shifter***Breakdown item   4. Choose ***Drop Bar*** for ***Handlebar Type*** feature   5. Click **Resolve**      * + 1. Confirm that Structure is displayed in right splitter pane and SHF-5876 Part which meet selected option are resolved in structure.     2. Confirm that **C023 *Shifter*** Component is not displayed in resolved structure     3. Confirm that Fixed Content – **FR-6576** Part and **UM** Document are resolved in structure no matter which options are selected     4. Confirm that **Component01 test** Component is displayed in structure (it does not have child items)   ***IF a Component has no Parts and/or Documents whose usage condition meet the criteria (selected options), then the Component row will be displayed in the resolved structure.***   * 1. Choose ***9-Speed***for***Speed*** feature   2. Click **Resolve**      * + 1. Confirm that there is **C023 *Shifter*** Component in resolved structure and that it has no child items   ***The next columns in following sequence are displayed in resolved structure: "Number", "Revision", "State".***  ***There is "Name" column in resolved Breakdown Structure in resolution sidebar tab of breakdown item.***  ***The next columns in following sequence are displayed in resolved structure: "Number", "Name", "Revision", "State"***   * + 1. Confirm that there are 4 columns in resolved structure: Number, Name, Revision, State   ***"Number" column should contain -/+ functionality and:***  ***- Icon + Code of Breakdown item.***  ***- Icon + keyed\_name of Part or Document.***  ***- Icon + Code of Component item.***   * + 1. Confirm that for Breakdown item Icon and Code (B023) are displayed in **Number** column     2. Confirm that for Parts and Documents Icon and keyed\_name (FR-6576 and UM) are displayed in **Number** column     3. Confirm that for Component Icon and Code (C023) are displayed in **Number** column   ***"Name" column should contain:***  ***- Name of Breakdown item.***  ***- Name of Part or Document.***  ***- Name of Component item.***   * + 1. Confirm that for Breakdown item “Shifter” is displayed in **Name** column     2. Confirm that for FR-6576 Part “Glossy Black 42 cm Aluminum Alloy Frame” is displayed in Name column and for UM Document “User’s Manual” is displayed in **Name** column     3. Confirm that for Component01 “test” is displayed in **Name** column | |
| **Cleanup** | Logout |

## Any user can resolve breakdown structure and can validate selection (user from World)

|  |  |  |
| --- | --- | --- |
| **Test#:** | | F-001540-03 |
| **Purpose:** | | To test that any user can resolve breakdown structure |
| **Original requirements:** | | [I-017482 "Permissions for methods related to res. and validate selection"](https://myinnovator.com/?StartItem=sa_Issue:B6345F948C594F17B676571801DB88FA) |
| **Execute** | | Yes |
| **Setup** | | * Load Sample Data * Apply Permissions.xml as root in the nash   or  create user (with W\_user name and “1’ as password)   * Login as W\_user (password: 1) |
| ***Verify that any user can resolve breakdown structure.***   * 1. Go to **Variant Management -> Breakdown items** -> **Search**   2. Open ***Shifter***   3. Go to **Resolution** tab on sidebar for ***Shifter***Breakdown item   4. Choose ***Drop Bar*** for ***Handlebar Type*** feature   5. Click **Resolve**      1. Confirm that user with World permission can resolve breakdown structure (user can see parts and documents as empty rows)   6. Choose ***9-Speed***for***Speed*** feature   7. Click **Resolve**      1. Confirm that user with World permission can resolve breakdown structure (user can see parts and documents as empty rows. | | |
| **Cleanup** | Logout | |

## Any user can resolve breakdown structure and can validate selection (user from All Employees)

|  |  |  |
| --- | --- | --- |
| **Test#:** | | F-001540-04 |
| **Purpose:** | | To test that any user can resolve breakdown structure |
| **Original requirements:** | | [I-017482 "Permissions for methods related to res. and validate selection"](https://myinnovator.com/?StartItem=sa_Issue:B6345F948C594F17B676571801DB88FA) |
| **Execute** | | Yes |
| **Setup** | | * Load Sample Data * Apply Permissions.xml as root in the nash   or  create user (with E\_user name and “1’ as password)  add this user to “All Employees” Identity   * Login as E\_user (password: 1) |
| ***Verify that any user can resolve breakdown structure.***   * 1. Go to **Variant Management -> Breakdown items** -> **Search**   2. Open ***Shifter***   3. Go to **Resolution** tab on sidebar for ***Shifter***Breakdown item   4. Choose ***Drop Bar*** for ***Handlebar Type*** feature   5. Click **Resolve**      1. Confirm that user with All Employees permission can resolve breakdown structure   6. Choose ***9-Speed***for***Speed*** feature   7. Click **Resolve**      1. Confirm that user with All Employees permission can resolve breakdown structure. | | |
| **Cleanup** | Logout | |