**F-001232 "Defining breakdown items and structures"**



Aras Corporation

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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

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| --- | --- | --- |
| NAME | Description of update | Date Updated |
| **Kseniya Gavrilenko** | Initial creation. | 08/14/2019 |
| **Olena Zaporozhets** | Update according new functionality | 09/11/2019 |
| **Olena Zaporozhets** | Update according new functionality | 09/26/2019 |
| **Olena Zaporozhets** | Update according of I-010447 "VM: Icons for Feature, Option, Variability Item and Component" | 11/05/2019 |
| **Olena Zaporozhets** | Update according of I-014036 "Component and Breakdown Item need to be versionable" | 01/21/2020 |

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  Lawrence, MA 01843

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# Overview

This Document represents a test case suite for testing Variants Management Sample application specifically variability Items and structures.

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

**I-008706 "Create and manage Breakdown item"**

**Acceptance Criteria:**

* Verify that user can create Breakdown item from Variant Management section in navigation panel.
* There is Name property with Length 128 in Breakdown item and it is required.
* There is Code property with Length = 16 in Breakdown item, it is required and unique.
* There is Description property in Breakdown item.
* Keyed name of Breakdown item is Code+Name.

**I-008707 "Create Breakdown Structure tab"**

**Acceptance Criteria:**

* There is Breakdown Structure relationship tab in Breakdown Item.
* Verify that "Create Item" and "Select Items" are enabled in Breakdown Structure tab.
* User can enter value to the sort order field for Breakdown item in Breakdown Structure relationship tab.

**I-008708 "Create components tab in Breakdown item"**

**Acceptance Criteria:**

* There is Components relationship tab in Breakdown Item.
* Verify that user can add components to components tab.
* Verify that user can pick components to components tab.
* Verify that user can view components in components tab.
* Verify that user can remove components from components tab.

**I-009627 "Rename Breakdown Structure rel.tab"**

**Acceptance Criteria:**

* There is Breakdown Items relationship tab in breakdown item.

**I-009064 "Create Breakdown structure tab"**

**Acceptance Criteria:**

* GIVEN multi-level structure with Breakdown items, components and assets; WHEN user goes to Breakdown Structure tab THEN multi-level structure is displayed with all Breakdown items, components and assets.
* Verify that structure is displayed in accordance with sort order of items.
* User can expand and collapse each node of multi-level structure.

**I-010058 "VM:Search grid has all items from DB (for VI,BdI and Components)"**

* Search grid does not download all items from DB.

Turn on Auto search.

Set Default page size to 25.

**I****-014036 "Component and Breakdown Item need to be versionable**"

**Acceptance Criteria:**

* Variable Component and Breakdown Item ItemType are versionable with "Automatic" discipline.
* Relationships of Variable Component and Breakdown Item ItemTypes should have Behavior - Float.
* Revision column is displayed for Breakdown Items in main grid.
* Revision column is displayed in Breakdown Item tab of Breakdown Item.

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

## Create and manage Breakdown item

|  |  |
| --- | --- |
| **Test#:** | F-001232-01 |
| **Purpose:** | To test the сreating and managing Breakdown items |
| **Original requirements:** | [I-008706 "Create and manage Breakdown item"](https://myinnovator.com/?StartItem=sa_Issue:554B3A84EAA840AC980AB4D3FE57DA58) |
| **Execute** | Yes |
| **Setup** |  |
| * 1. Login into Innovator as **admin**   ***Verify that user can create Breakdown item from Variant Management section in navigation panel.***   * 1. Go to **Variants Management>>Breakdown items** in navigation panel and choose **Create New Breakdown Item**      1. Confirm that the form for creating Breakdown item is opened   ***There is Code property with Length = 16 in Breakdown item, it is required and unique***  ***There is Name property with Length 128 in Breakdown item and it is required.***  ***There is Description property in Breakdown item.***   * + 1. Confirm that there are Code, Name and Description properties in the opened from   1. Try to **Save** item      1. Confirm that you’ve got an error message “The "Code" field is required. You must provide a value for this field before saving.”   2. Enter *Code*:01   3. **Save** item      1. Confirm that you’ve got an error message “The "Name" field is required. You must provide a value for this field before saving.”   4. Enter *Name*: TestBreakdownItem1   5. **Save** Item      1. Confirm that it is successfully saved   6. Enter *Description*: Test item   7. Click **Done** item and **Close**   ***The Code property is unique***   * 1. Go to **Variants Management>>Breakdown items** in navigation panel and choose **Create New Breakdown Item**   2. Enter   *Code*:01  *Name*: TestBreakdownItem2   * 1. Click **Save**      1. Confirm that there is an error message “Breakdown Item (vm\_BreakdownItem) with Code '01' already exists.”   2. Delete item   ***Keyed name of Breakdown item is Code+Name.***   * 1. Search for TestBreakdownItem1 and open it      1. Confirm that the opened tab is called “01 TestBreakdownItem1” (keyed\_name)   2. Close item | |
| **Cleanup** | 1. Logout |

## Create Breakdown Items tab

|  |  |
| --- | --- |
| **Test#:** | F-001232-02 |
| **Purpose:** | To test the Breakdown Items tab |
| **Original requirements:** | [I-008707 "Create Breakdown Structure tab"](https://myinnovator.com/?StartItem=sa_Issue:4E8D6A9F580D4E5185D832BA07B8C871)  [I-014036 "Component and Breakdown Item need to be versionable"](https://myinnovator.com/?StartItem=sa_Issue:57D74690499C4BEBAE74431001ACD9C6) |
| **Execute** | Yes |
| **Setup** |  |
| * 1. Login into Innovator as **admin**   ***There is Breakdown Items relationship tab in Breakdown Item.***   * 1. Go to **Variants Management>>Breakdown items** in navigation panel and choose **Search Breakdown Items**   2. Run Search in main grid and Open TestBreakdownItem1      1. Confirm that there is **Breakdown Items** tab   ***Revision column is displayed in Breakdown Item tab of Breakdown Item.***   * + 1. Confirm that Revision column is displayed in Breakdown Item tab of Breakdown Item   ***Verify that "Create Item" and "Select Items" are enabled in Breakdown Items tab.***   * 1. Click **Edit** and go to **Breakdown Items** tab      1. Confirm that **Add Breakdown Items** and **New Breakdown Item**are enabled in Breakdown Items tab   ***User can enter value to the sort order field for Breakdown item in Breakdown Items relationship tab.***   * 1. Click **New Breakdown Item**   2. Enter:   *Code*:02  *Name*: TestBreakdownItem2  *Sequence*: 256   * 1. **Done** item and Close | |
| **Cleanup** | 1. Logout |

## Create Variable Components tab in Breakdown item

|  |  |
| --- | --- |
| **Test#:** | F-001232-03 |
| **Purpose:** | To test the Variable Components tab in Breakdown items |
| **Original requirements:** | [I-008708 "Create Variable Components tab in Breakdown item"](https://myinnovator.com/?StartItem=sa_Issue:BF5107EAEF7B4278A78A28BDAFC8A99D)  [I-014036 "Component and Breakdown Item need to be versionable"](https://myinnovator.com/?StartItem=sa_Issue:57D74690499C4BEBAE74431001ACD9C6) |
| **Execute** | Yes |
| **Setup** | Load sample Data |
| * 1. Login into Innovator as **admin**   ***Search grid does not download all Breakdown items from DB. Default page size to 25.***   * 1. Go to **Variant Management -**> **Breakdown items** -> Click on **loupe**      1. Confirm that list from 25 Breakdown items was download automatically      2. Confirm that Default page size is set to 25 items   ***Revision column is displayed for Breakdown Items in main grid.***   * + 1. Confirm that Revision column is displayed for Breakdown Items in main grid.   ***There is Contents relationship tab in Breakdown Item.***   * 1. Open TestBreakdownItem1      1. Confirm that there is **Contents** tab   ***Verify that user can add components to Contents tab.***   * 1. Click **Edit** and go to **Contents tab**      1. Confirm that is icon near Assets title      * 1. Click **New Asset**   2. Select Variability Component in dialog -> OK   3. Type in the opening Component tab:   *Code*:0001  *Name*: TestComponent1  *Description*: Test   * 1. **Save** item -> Close it   ***Verify that user can pick components to components tab.***   * 1. Click **Add Assets** in **Assets tab**   2. Choose Shifter Component (\**Shifter\* in search in Name column)* from opened dialog      1. Confirm that it was successfully added in relationship grid   ***Verify that user can view components in components tab.***   * 1. Confirm that the next information is displayed for added component “Shifter “   2. Choose *Shifter* in relationship grid and **RMB**/**Open**      1. Confirm that item can be successfully viewed   3. Close the tab with the opened component   ***Verify that user can remove components from components tab.***   * 1. Return to **Assets tab** (relationship grid)   2. Highlight *Shifter* item   3. Click **Delete Asset (I-013151)**   4. **Save** item      1. Confirm that *Shifter* is removed from relationship grid   5. **Done** and Close item | |

## Create Breakdown Structure tab

|  |  |
| --- | --- |
| **Test#:** | F-001232-04 |
| **Purpose:** | To test the Breakdown Structure tab |
| **Original requirements:** | [I-009064 "Create Breakdown structure tab"](https://myinnovator.com/?StartItem=sa_Issue:702A4D3ECEFB40478253AF7565B2C3C7)  [I-011877 "Auto-expand for Var.Item and Breakdown Structures tab"](https://myinnovator.com/?StartItem=sa_Issue:80D24425AE8C4BC0AD9DB180E2BC1292) |
| **Execute** | Yes |
| **Setup** | Load Sample Data |
| ***Verify that "Auto Grow On Refresh" is checked for TGV related to Breakdown Structure tab in Breakdown item.***  ***Verify that "Auto Grow On Refresh" is checked for TGV related to Resolved Breakdown Structure.***  ***- Corresponding TGV is vm\_breakdownStructureResolution.***  ***- For this TGV, the default Grow Depth is 5.***   * 1. Go to Administration -> Configuration -> Tree Grid Views   2. Open vm\_breakdownStructure      1. Confirm that "Auto Grow On Refresh" is checked for TGV related to Breakdown Structure tab in Breakdown item.      2. Confirm that default Grow Depth is 5.   3. Open vm\_breakdownStructureResolution      1. Confirm that "Auto Grow On Refresh" is checked for TGV related to Resolved Breakdown Structure.      2. Confirm that default Grow Depth is 5.   ***GIVEN multi-level structure with Breakdown items, components and assets; WHEN user goes to Breakdown Structure tab THEN multi-level structure is displayed with all Breakdown items, components and assets.***   * 1. Go to **Variants Management -> Breakdown items** in navigation panel and choose **Search Breakdown Items**   2. Run Search in main grid and Open *Bicycle*   3. Go to ***Breakdown Structure tab***      1. Confirm that there is "Item" column in Breakdown Structure tab      2. Confirm that Breakdown Structureexpands automatically      3. Confirm that default Grow Depth is 5      4. Confirm that multi-level structure is displayed with all Breakdown items, components and assets      5. Confirm that there are icons for Components in Breakdown Structure tab of Breakdown Item     ***Verify that structure is displayed in accordance with sort order of items.***   * + 1. Confirm that structure is displayed in accordance with sort order of items   ***User can expand and collapse each node of multi-level structure.***   * 1. Collapse each node in multi-level structure      1. Confirm that user can collapse and expand each node in multi-level structure   2. Expand each node in multi-level structure      1. Confirm that user can expand each node in multi-level structure | |

## Versioning of Breakdown Item

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| --- | --- |
| **Test#:** | F-001232-05 |
| **Purpose:** | To test the versioning of Breakdown Item |
| **Original requirements:** | [I-014036 "Component and Breakdown Item need to be versionable"](https://myinnovator.com/?StartItem=sa_Issue:57D74690499C4BEBAE74431001ACD9C6) |
| **Execute** | Yes |
| **Setup** |  |
| * 1. Login into Innovator as **admin**   ***Breakdown Item ItemType is versionable with "Automatic" discipline.***   * 1. Return to Search Grid of **ItemType**   2. Search and open **vm\_BreakdownItems** ItemType      1. Confirm that Versionable check-box is check      2. Confirm that Discipline is Automatic   \*picture\*   * 1. Close **Breakdown Items** ItemType   ***Relationships of Variable Component and Breakdown Item ItemTypes should have Behavior - Float.***   * 1. Go to **Administration** -> **RelationshipType**   2. Search and open **vm\_BreakdownStructure**      1. Confirm that Behavior is float   3. Close **vm\_BreakdownStructure**   4. Return to Search Grid of Relationship Type   5. Search and open **vm\_BreakdownItemComponent**      1. Confirm that Behavior is float   6. Close **vm\_BreakdownItemComponent** | |