**F-001054**

**"VM Sample App: Defining a variability 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. Acceptance tests for I-006784 "Create and maintain variability items and variability structure" | 07/04/2019 |
| **Olena Zaporozhets** | Update test cases | 08/13/2019 |
| **Olena Zaporozhets** | Update test cases according to F-001236 "Defining variability item and structures" | 08/15/2019 |
| **Olena Zaporozhets** | Add Acceptance tests for I-008467 "Add features and options to Variability Structure tab" | 09/4/2019 |
| **Olena Zaporozhets** | Add case about deleting of VI if it is used in VI structure | 02/12/2021 |

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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:

***F-001054 "VM Sample App: Defining a variability items and structures"***

**I-006784 "Create and maintain variability items and variability structure"**

**Acceptance Criteria:**

* Verify that user can create Variability Item from Variants Management - Variability Item in navigation panel.
* There is Name property with Length 128 in Variability Item and it is required.
* There is Variability Structure relationship tab in Variability Item.
* Verify that "Create Item" and "Select Items" are enabled in Variability Structure tab.

**I-006785 "Create UI for Variability item form"**

**Acceptance Criteria:**

* There is Name property with Length 128 on Variability Item form and it is required.
* There is Side Bar on Variability Item form.
* When user create or open Variability Item THEN Variability Item form is displayed in Variability Item tab on SideBar.
* Variability Item tab is displayed as the first tab on side bar.
* When user hovers over Variability Item tab on SideBar THEN "Form of Variability Item 'Name of Variability Item'" tooltip is displayed.
* There is Variability Structure relationship tab on Variability Item form.
* There is Variability Item Structure relationship tab on Variability Item form.
* GIVEN multi-level Variability Item Structure; WHEN user goes to Variability Item Structure tab THEN multi-level Variability Item Structure is displayed.
* Verify that user can expand and collapse each node in multi-level structure.

***F-001236 "Defining variability item and structures"***

**I-009015 "Rename Features tab to Relevant Features tab in Variability item"**

**Acceptance Criteria:**

* There is Relevant Features tab in Variability item.

**I-009013 "Swap Features tab with variability item structure tab"**

**Acceptance Criteria:**

* There is the following sequence of tabs in variability item: "Variability Structure", "Variability Item Structure" and "Relevant Features".

**I-009518 Rename relationship tabs in variability item**

**Acceptance Criteria:**

* There are "Variability Items", "Variability Structure" and "Relevant Features" relationship tabs in Variability item.

**I-009007 Add code+description property to Variability item**

**Acceptance Criteria:**

* There is Code property with Length = 16 on Varaibility item, it is required and unique.
* There is Description property on Variability item.
* Keyed name of Variability item is Code+Name.

**I-009009 Sort order property for Variability Structure**

**Acceptance Criteria:**

* User can enter value to the sort order field for Variability item in Variability Structure relationship tab.

**I-009012 Sort order property for Features tab in Variability item**

**Acceptance Criteria:**

* User can enter value to the sort order field for Features in Features relationship tab.

**I-008467 "Add features and options to Variability Structure tab"**

**Acceptance Criteria:**

* GIVEN multi-level structure with Variability items, features and options; WHEN user goes to Variability Structure rel.tab THEN multi-level structure is displayed with all Variability items, features and option.
* Verify that structure is displayed in accordance with sort order of items.
* User can expand and collapse each node of multi-level structure.
* GIVEN variability item has relevant features; WHEN user goes to Variability Structure tab THEN these features with options are displayed at the beginning of multi-level structure.
* If variability item has relevant features, need to display these features in Variability Item structure

**I-008686 "Implement variant tree sidebar in var.item"** *– all cases are in the “VM\_Sample\_Smoke\_Test.doc”*

**Acceptance Criteria:**

* Variant tree tab is displayed on the sidebar.
* Verify that Variant tree tab works the same as Variant tree tab from CS sample app considering changes which we did in VM sample.
* In the Display Setting, verify that the Options under Features are listed per sort order.
* In Variant Tree, verify that the options are displayed per sort order.

**I-008687 "Remove "print" menu option from variant tree sidebar"**

**Acceptance Criteria:**

* There is no "Print" menu option in Variant tree sidebar tab.
* There is no "Print" menu option in exported HTML.

**I-010648 "Display root item in Variability Str and Breakdown str"**

**Acceptance Criteria:**

* root Variability item is displayed as first element in structure in Variability structure tab.

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

## UI of Variability Item form

|  |  |
| --- | --- |
| **Test#:** | F-001054-01 |
| **Purpose:** | To test of UI of Variability Item form |
| **Original requirements:** | [I-006784 "Create and maintain variability items and variability structure"](https://myinnovator.com/?StartItem=sa_Issue:2280D0F19EB84C239EB5C220A8B65104)  [I-006785 "Create UI for Variability item form"](https://myinnovator.com/?StartItem=sa_Issue:3ACC77AFEF1344F19BE9BDEF7417C9BD) |
| **Execute** | Yes |
| **Setup** | * Apply AML VM\_Structure.xml as admin * Login into Innovator as **admin** |
| * 1. Go to **Variant Management** -> **Variability Items** in navigation panel -> choose **Create New Variability Item**      1. Confirm that user can create Variability Item from Variants Management - Variability Item in navigation panel      2. Confirm that there is Side Bar on Variability Item form      3. Confirm that Variability Item form is displayed in Variability Item tab on Side Bar      4. Confirm that Variability Items tab is displayed as the first tab on side bar      5. Confirm that there is Variability Items relationship tab on Variability Item form      6. Confirm that there is Variability Structure relationship tab on Variability Item form      7. Confirm that there is Relevant Features tab in Variability item      8. Confirm that there is the following sequence of tabs in variability item: "Variability Items", "Variability Structure" and "Relevant Features"   2. Click **Save**      1. Confirm that “The “Code” field is required. You must provide a value for this field before saving”   3. Click **OK**   4. Type Code: ***0001***      1. Confirm that code is added   5. Type ***Description***: There is Description property for Variability item   6. Click **Save** in toolbar of Item      1. Confirm that “The “Name” field is required. You must provide a value for this field before saving”   7. Click **OK**   8. Type Name: ***TestVariabilityItem1***   9. Click **Save**      1. Confirm that Variability Item was saved successfully      2. Confirm that tab of this Variability Item has “*0001 TestVariabilityItem1*” label   10. Hover over Variability Item tab on Side bar       1. Confirm that “Form of Variability Item ‘0001 TestVariabilityItem1’” tooltip is displayed   11. Click **Done** -> Close item | |

## Code property of Variability Item is unique

|  |  |
| --- | --- |
| **Test#:** | F-001054-02 |
| **Purpose:** | To test that Code property of Variability Item is unique |
| **Original requirements:** | [I-006784 "Create and maintain variability items and variability structure"](https://myinnovator.com/?StartItem=sa_Issue:2280D0F19EB84C239EB5C220A8B65104) |
| **Execute** | Yes |
| **Setup** |  |
| * 1. Go to **Variant Management** -> **Variability Items** in navigation panel -> choose **Create New Variability Item**   2. Type:   Code: ***0001***  Name: newname   * 1. Click **Save** in toolbar of Variability Item      1. Confirm that error message “Variability Item (vm\_VariabilityItem) with Code ’0001’ already exists”   2. Click **OK**   3. Click **Delete** for this Variability item -> OK | |

## max Length of Code and Name property

|  |  |
| --- | --- |
| **Test#:** | F-001054-03 |
| **Purpose:** | To test of max Length of Code and Name property |
| **Original requirements:** | [I-006784 "Create and maintain variability items and variability structure"](https://myinnovator.com/?StartItem=sa_Issue:2280D0F19EB84C239EB5C220A8B65104)  [I-006785 "Create UI for Variability item form"](https://myinnovator.com/?StartItem=sa_Issue:3ACC77AFEF1344F19BE9BDEF7417C9BD) |
| **Execute** | Yes |
| **Setup** |  |
| * 1. Go to **Variant Management** -> **Variability Items** in navigation panel -> choose **Create New Variability Item**   2. Type Code: ABC1234567890D6F      1. Confirm that Code with Length = 16 is added   3. Type Name:   VariabilityItem\_0123456789\_!@#$%^&\*()+~ -=[]’\,./ {}|<>?\_ABCDIFGHIJKLMNOPQRSTUVWXYZ\_adcdifjhijklmnopqastuvwxyz\_7VariabilityItemN   * + 1. Confirm that Name with Length = 128 is added   1. Click **Save**      1. Confirm that Variability item was saved successfully   2. Click **Done** -> close Variability item   3. Go to **Variant Management** -> **Variability Items** in navigation panel -> **RMB** -> **Search Variability Items** -> see Search grid      1. Confirm that the Variability item has correct Name and Code | |

## Create and maintain variability structure

|  |  |
| --- | --- |
| **Test#:** | F-001054-04 |
| **Purpose:** | To test of Variability structure creating in Variability Item |
| **Original requirements:** | [I-006784 "Create and maintain variability items and variability structure"](https://myinnovator.com/?StartItem=sa_Issue:2280D0F19EB84C239EB5C220A8B65104)  [I-006785 "Create UI for Variability item form"](https://myinnovator.com/?StartItem=sa_Issue:3ACC77AFEF1344F19BE9BDEF7417C9BD)  [I-011877 "Auto-expand for Var.Item and Breakdown Structures tab"](https://myinnovator.com/?StartItem=sa_Issue:80D24425AE8C4BC0AD9DB180E2BC1292) |
| **Execute** | Yes |
| **Setup** |  |
| * 1. Go to Administration -> Configuration -> Tree Grid Views   2. Open vm\_variabilityStructure      1. Confirm that "Auto Grow On Refresh" is checked for TGV related to Variability Structure tab in Variability item.      2. Confirm that default Grow Depth is 5.   3. Go to **Variant Management** -> **Variability Items** in navigation panel -> choose **Create New Variability Item**   4. Type   Code: *0003*  Name: *TestVariabilityItem3*   * 1. Go to ***Variability Items*** *tab*      1. Confirm that **New Variability Item**and**Add Variability Items** buttons are enabled   2. Click **New Variability Item**   3. Type   Code: *0002*  Name: *TestVariabilityItem2*   * 1. Click **Add Variability Items**   2. Choose TestVI1 from **Search dialog**   3. **Save** item   4. Go to **Variability Structure** relationship tab      1. Confirm that there are "Code" and "Item" columns are displayed in Variability Structure tab      2. Confirm that cells of "Code" column display Code related to items in Variability Structure tab      3. Confirm that Variability Structure expands automatically      4. Confirm that default Grow Depth is 5      5. Confirm that TestVariabilityItem3 is displayed as root item      6. Confirm that multi-level structure is displayed with all Variability items, features and option      7. Confirm that structure is displayed in accordance with sort order of items   5. Click - for TestVI1 item      1. Confirm that the node was collapsed   6. Click + for TestVI1 item      1. Confirm that the node was expanded      2. Confirm that if variability item has relevant features then these features with options are displayed at the beginning of multi-level structure      3. Confirm that if variability item has relevant features then these features are displayed in Variability Item structure | |
| **Cleanup** | Logout |

## Sort order property for Variability Items

|  |  |
| --- | --- |
| **Test#:** | F-001054-05 |
| **Purpose:** | To test that user can enter value to the sort order field for Variability item in Variability Items relationship tab |
| **Original requirements:** |  |
| **Execute** | Yes |
| **Setup** |  |
| * 1. Go to **Variant Management** -> **Variability Items** in navigation panel -> **RMB** -> **Search Variability Items** -> Open *TestVariabilityItem3* -> Edit   2. Go to ***Variability Items*** *tab*   3. Change values in sort order fields for *TestVI1* and *TestVariabilityItem2 items*      1. Confirm that sort order field can be entered and changed   4. Click **Save**      1. Confirm that new values are saved      2. Confirm that order of Variability Items changes according new values   5. Go to ***Variability Structure*** *tab*      1. Confirm that order of Variability Items changes according new values | |

## Sort order property for Features tab in Variability item

|  |  |
| --- | --- |
| **Test#:** | F-001054-06 |
| **Purpose:** | To test that user can enter value to the sort order field for Features in Features relationship tab |
| **Original requirements:** |  |
| **Execute** | Yes |
| **Setup** |  |
| * 1. Go to **Relevant Features tab** in *TestVariabilityItem3* -> Edit   2. Click **New Feature**   3. Type   Code: *F22*  Name: *Feature22*   * 1. Click **Add Features**   2. Choose TestFeature1 from **Search dialog**   3. **Save** item   4. Enter values in sort order fields for *F22* and *TestFeature1* items      1. Confirm that “Sequence” field can be entered and changed   5. Click **Save**      1. Confirm that new values are saved      2. Confirm that order of Features changes according new values   6. Click **Done** and Close item | |

## Deleting of Variability Item if it used in Variability Item Structure

|  |  |
| --- | --- |
| **Test #** | **VM-1-002** |
| Purpose: | To test create and edit Variability Items  Variability Item - a node in configurable structure. |
| Test Setup | Pass Test Setup from 4.1 |
| 1. Login to Innovator as **admin** 2. Create Variability Item    1. Go to **Variant Management** section in Navigation panel -> **Variability Items** -> **Create New Variability Item**:    2. Type   Code: **TVI05**  Name: **TestVI5**   * 1. Click **Done** -> Close the Item  1. Go to **Variant Management** section in Navigation panel -> **Variability Items** -> **Search Variability Items**    1. Confirm that TestVI1, TestVI2, TestVI3 and TestVI5 are displayed in main grid 2. Edit Variability Item    1. Select **TestVI3** from main grid -> **RMB** –> **Open** -> **Edit**    2. Go to **Variability Items** on Relationship Tab    3. Click **Add Variability Items**  -> select **TestVI5** -> **OK**       1. Confirm that **TestVI5** appeared in **Variability Items** Tab    4. **Done** -> Close **TestVI3** item 3. Delete Generic Item    1. Go to **Variability Items** tab    2. Select **TestVI4** in main grid –> **RMB** –> More -> **Delete -> Delete**    3. Click **OK** in appeared dialog       1. Confirm that Error dialog appeared with “vm\_VariabilityItem cannot be deleted. It is used in vm\_VariabilityItemStructure related\_id…” text      * 1. Click **OK** in Error dialog   2. Go **Variability Items** tab -> Select **TestVI3** -> Open it -> **Edit**   3. Go to **Variability** **Items** tab for TestVI3   4. Select **TestVI5** -> Click **Delete Variability Structure**   5. Click **Save** for **TestVI3**      1. Confirm that TestVI5 was removed   6. **Done** -> close the Item   7. Click on **Search**  in **Variability Items** tab   8. Select **TestVI5** in main grid -> **RMB** –> **Delete All Versions**   9. Click **OK** in appeared dialog      1. Confirm that TestVI5 was removed successfully. | |