

TEST SPECIFICATION FOR HIGHSTAGE PART MODULE VALIDATION

Title

Test Report *for* Highstage Part Module
- Test Report for SW10055-10

Document ID

TR13437-1

Reviewed by

SJ

Approved by

PRO

Authors

IAM

Reviewed date

2022-08-09

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Test Report:	TR13437-1				
Project number:	VALIDATION				
Author:	IAM				
Date:	2022-08-15				
Review by:	SJ				
Review date:	2022-08-09				
<i>This test report is based on the following test specification:</i>					
Test specification:	TS12614				
Approval:					
Date	CET	Initials	Name	Justification	
2022-08-15	09:40:05	PRO	Per Reidar Orke	Author	
<p style="text-align: center;"><i>By signing this document, I hereby declare that I have reviewed the content relevant to me and I approve the document</i></p>					

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Purpose of this validation

The purpose of this validation is to validate base functionality of the Highstage Part module. It is validated in a stand-alone mode without any reference to the QMS system it will be a part of at each customer, and the customizations it will be equipped with. Therefore, each customer using Part module as part of a certified QMS must validate the module again in their environment.

Customers are free to use this document as a template for their own validation protocols.

Conclusion of validation

Validation completed.

All test cases passed the validation process.

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Scope

The scope of this document is twofold (*TS and TR*). As *TS (Test Specification)* the document serves as a specification of tests to be performed. As *TR (Test Report)* the document serves as a template for logging the actual test results. Before the validation is performed, *TS* is cloned to a *TR*. The *TR* document serves as the report, where all the result from the test is recorded. The *TR* is placed in the "VALIDATION" workspace.

Terms and Definitions

- Meta-data:** Attributes of a part controlled by Highstage, e.g. author, workspace etc.
- PAC:** Point and Click with the mouse
- [XXXXX]:** Text inside a closed set of brackets represents the state a part is in, E.g. [Working] or [Approved]
- Document:** A Document is an item created in Highstage (made available from the Document Module).
- Part** A Part is an item created in Highstage (made available from the Part Module).
- File** A computer file as a collection of data stored in one unit, identified by a filename. (*Microsoft office- and text files etc.*)

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IAM		2022-08-09	2022-08-15

Features

This test specification for validating the *Part* module in Highstage concerns features and functionality that are associated exclusively with the *Part* module of the Highstage system.

- Unintended/unauthorized deletion/alteration
 - Files directly on the file server
 - Approved or previous version through Highstage
- Links in, out and between parts in Highstage
 - Newest issue, newest draft, new part dialog
 - Between parts
 - From part out
- Part generation and templates
 - Part types
 - Special characters
 - Unique part ID
 - Validation of fields with predefined selections, e.g. workspace name
 - Verify field limits, e.g. max. number of authors
 - Meta-data on template
- Part handling
 - Review / approval
 - Minor changes
 - Event log
 - Revision list
 - Obsolete and re-activation
- Assembly list
- Tree view
- Export

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Test approach

The tests are manual performed by one user with normal access rights (FT: First tester= your personal username). In test cases requiring one or more users, the following test users are included:

- First tester (HSADMIN)
- Second tester (VALTEST1),
- Third tester (VALTEST2)
- Fourth tester (VALTEST3).

All tests are executed using a standard workstation. For each test, please note which test profile have been used together with the used browser and OS like: 'First Tester using Microsoft Edge 1' please note it like 'FT/ME1'.

If a test pass, write PASS. If a test fails write FAIL and note the behavior or reason.

User explanations:

Username	Specification	Description
(FT) / HSADMIN	First Tester	Admin profile
VALTEST1	Seconds tester	Test profile
VALTEST2	Third tester	Test profile
VALTEST3	Fourth tester	Test profile

Browser explanations:

Abbreviation	Browser
MEx	Microsoft Edge where 103.0.1264.77 is the version number
FFx	Firefox where 103.0.1 is the version number
CHx	Google Chrome where 104.0.5112.81 is the version number

Other Abbreviations:

Abbreviation	Browser
...	Means a button on the screen with three dots
PAC	Point and Click with the mouse
HS	Refer to the web application Highstage

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Test cases

The following test cases are the complete list of specifications for the preliminary requirements, inputs, executional conditions, procedures and expected results for the validation of the *Part* module in Highstage.

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Test Case 0: Preparation			
Function: Review test parts from previous execution of this test if applicable			
Description: <ol style="list-style-type: none"> Environment for this specific test (version/revision): SW10055-10N A description of input data: Test files from previous run of this test might be available Initialising: None 			
Step	Specification	Expected	Pass/Fail
0.1	Note the version of Highstage. The version is found in the system menu under [Setup]	SW10055-10N	PASS
0.2	Review test files from previous execution of this test by using the Highstage Change feature. The files will be located under workspace ' Validation '. The Search function can be used to find the listed test parts in HS	Parts status: TestPart1 [Approved] authored by VALTEST1 TestPart2 in [Working] authored by VALTEST1 TestPart3 in [Review] authored by VALTEST1 TestPart4 in [Working] authored by VALTEST1 TestPart5 in [Working] authored by FT TestPart6 in [Approved] authored by FT TestPart7 in [Approved] authored by FT	PASS PASS PASS PASS PASS PASS PASS

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Test Case 1: Deletion/alteration			
Function: Verified that files in associated Part folders in Highstage are adequately protected against unintended deletion or alternation i.e.: Only files stored on Parts in “Working” state can be deleted or changed, and it can only be done by the author(s).			
Description: <ol style="list-style-type: none"> Environment for this specific test (version/revision). Highstage version: SW10055-10N A description of input data: Test parts in Approved and Review state must exist Test parts in Working state must exist both with the tester as author and with another author. Initialising: None 			
Step	Specification	Expected	Pass/Fail
1.1	Click folder icon to open TestPart2, owner VALTEST1. File in create! As FT user, edit and save approved file for which you are <i>not</i> author from it’s directory on the Highstage server. Use the VALTESTx user to generate part. Logon as VALTESTx and make Part. Using TestPart2, Owned by VALTEST1, Status Approved	Not possible to save the changed file in the same directory. Folder is read only.	PASS
1.2	Delete file on approved Part for which you are <i>not</i> author from its directory on the Highstage server. Using TestPart1, Owned by VALTEST1, Status: Approved	Deletion prohibited. Deletion denied	PASS
1.3	Open, edit and save draft file on Part (in review state) for which you are <i>not</i> author from its directory on the Highstage server Using TestPart3, Owned by VALTEST1, Status: Review	Not possible to save the changed file in the same directory. Saving denied	PASS
1.4	Delete draft file on Part (in review state) for which you are <i>not</i> author from its directory on the Highstage server Using TestPart3, Owned by VALTEST1, Status: Review	Deletion prohibited. Deletion denied	PASS

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1.5	Open, edit and save file on working Part for which you are <i>not</i> author from its directory on the Highstage server Using TestPart4, Owned by VALTEST1, Status: Working	Not possible to save the changed file in the same directory. Saving denied	PASS
1.6	Delete file on working Part for which you are <i>not</i> author from its directory on the Highstage server Using TestPart2, Owned by VALTEST1, Status, Working	Deletion prohibited. Deletion denied	PASS
1.7	Open, edit and save file on working Part (in working state) for which you <i>are</i> author from its directory on the Highstage server. Using TestPart5, Owned by FT, Status Working	Changes can be saved in the same file. Changes saved	PASS
1.8	Delete file on working part for which you <i>are</i> author from its directory on the Highstage server	file is deleted	PASS
1.9	Open, edit and save file on approved part from its folder in Highstage Using TestPart6, Owned by FT, Status APPROVED	Not possible to save the changed file in the same directory. Saving denied	PASS
1.10	Delete file on approved part from its folder in Highstage Using TestPart6, Owned by FT, Status: APPROVED	Deletion prohibited. Deletion denied	PASS
1.11	Open, edit and save file on part in Review state from its folder in Highstage Using TestPart7, Owned by FT, Status: REVIEW	Not possible to save the changed file in the same directory. Saving denied	PASS
1.12	Delete file on Part in review state (not draft files) from its folder in Highstage Using TestPart7, Owned by FT, Status: REVIEW	Deletion prohibited. Deletion denied	PASS

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Test Case 2: Links in, out and between parts in Highstage			
Function: Verify that links can be made in, out and between Parts in Highstage, referring to specific issue, newest draft/working copy, or newest approved version. Verify also that the new Part dialog can be linked to from outside Highstage selecting a specific Part type.			
Description: 1. Environment for this specific test (version/revision). Highstage version: SW10055-10N 2. A description of input data: Test Part (#1) with approved version 1, a newer draft version 2a and an even newer version 2b in Working mode Test Part (#2) with only a version 1a in working mode. 3. Initialising: None			
Step	Specification	Expected	Pass/Fail
2.1	Create a record of the link to newest approved version of testpart #1 from the browser. Remove revision prefix from the URI to the site.	Newest approved version (1) of the part should be shown.	PASS
2.2	Create a record of the link to newest draft version of testpart #1 and PAC it. Remove revisions from link, add &latest=1 to the URI. and browse the resource.	Newest draft version (2b) opened	PASS
2.3	Create a record of the link to newest approved version of testpart #2 and access it with the browser.	No part found since testpart #2 has not been approved yet	PASS
2.4	Create a record of the link to newest draft version of testpart #2 access it with the browser.	Newest draft version (1a) opened	PASS
2.5	Click on [Parts] -> [New] add &itemtype=TP to the URL, and press enter. Copy the URL and make a record of it. Paste the URL into a browser request it.	The site to create a new part is shown on the screen when accessing it with the browser, Type is already filled with the property (GD).	PASS
2.6	Copy the link to newest approved version of testpart #2 add &approved=1 to the URI and save it into testpart. Save the part and reopen testpart #2. PAC the link	Newest approved version (1) opens in the browser	PASS

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2.7	In testpart. #2 create a link to newest draft version of testpart #1, using the URI concatenated with &latest=1 . save the part and reopen testpart #2 then PAC the link	Newest draft version (1) opened	PASS
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Test Case 3: Part creation			
Function: <ul style="list-style-type: none"> • Document generation and templates <ul style="list-style-type: none"> ○ Part types ○ Special characters ○ Unique part ID ○ Validation of fields with predefined selections, e.g., workspace name 			
Description: <ol style="list-style-type: none"> 1. Environment for this specific test (version/revision). Highstage version: Highstage Part Module - Test Report for SW10055-10N 2. A description of input data: None 3. Initialising: None 			
Step	Specification	Expected	Pass/Fail
3.1	Press [Parts] -> [New]	The "Create new part" menu is shown	PASS
3.2	Press the [...] button left to the input field "Type"	You get the list of part types you have used previously. (Resent types)	PASS
3.3	Press [Type] in the dialog box	You get the full list of part types	PASS
3.4	Press the [...] button left to the input field "Workspace"	You get the list of workspaces you have used previously. (Resent workspaces)	PASS
3.5	Press [Workspaces] tab on the "Workspace" line	You get the full list of workspaces	PASS
3.6	Write "!#x%&/()=?@£\$" as part type, ",-;:_*^'"" as workspace, "test" as description and press "Create"	An error message is shown	PASS
3.7	Write "GP" as part type, VALIDATION as workspace, !"#x%&/()=?@£\$ as description and press "Create" Note part number	A new part is created and the part page for it is shown	PASS
3.8	Click the input field belonging to "Workspace"	A dialog box is shown, with a warning regarding moving files is shown	PASS
3.9	Press [Workspace] on the workspace line	A list of all workspaces is shown, together with the warning	PASS

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3.10	Select workspace TEST, and press [OK]	Workspace now shown as TEST	PASS
3.11	Change workspace back to VALIDATION	Part folder now exist under workspace VALIDATION and not under workspace TEST	PASS
3.12	Write false user eg. "BBB" in Author	An error message is shown	PASS
3.13	Press "...", add Second tester, Third tester, Fourth tester as Authors and click on 'Review'	No error message is shown	PASS
3.14	Change and write "BBB" in 'ReviewBy' and click on Approve	An error message is shown	PASS
3.15	Press "...", add Second tester, Third tester and Fourth tester as Approvers and click on Approve	No error message is shown	PASS
3.16	Change and write "BBB" in 'ApproveBy' and click on 'Review'	An error message is shown	PASS
3.17	Press "...", add Second tester, Third tester and Fourth tester to 'ApproveBy' and click on 'Review' And click 'OK'	No error message is shown	PASS
3.18	Write something in the alias field, press edit and open	Field on the frontpage are updated with relevant data	PASS (Field is updated)
3.19	Write the name of your second tester (VALTEST2) in the Review and Approve fields, remove the person from the Author list and press 'Review'	Status is changed to review	PASS
3.20	Press the event log	The entries of the log equal the steps performed in this test case	PASS
3.21	Press [Parts] -> [Search] in the revision filter choose [Latest revisions] in the drop-down box.	The search page is shown with parts in various states	PASS
3.22	Enter the number of the part you created in the Item field and press "enter"	The part you created is shown and no other parts are shown	PASS

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Test Case 4: Part handling			
Function: <ul style="list-style-type: none"> ○ Review / approval ○ Eventlog ○ Revision list ○ Obsolete and re-activation 			
Description: <ol style="list-style-type: none"> 1. Environment for this specific test (version/revision). Highstage version: SW10055-10N 2. A description of input data: Test Case 5 output is input for this test case 3. Initialising: None 			
Step	Specification	Expected	Pass/Fail
4.1	VALTEST2: Press [Parts] -> [My reviews and approvals]	The part is shown in the "My reviews and Approvals"	PASS
4.2	VALTEST2: Open the test part created in test case 5	The part is in review state and waits for VALTEST2	PASS
4.3	VALTEST2: Reject the review with a comment	VALTEST2 is asked to enter ID and password. The part is shown as rejected	PASS
4.4	VALTEST1: Update the part page	The part is shown as rejected	PASS
4.5	VALTEST1: Press change	Status is changed to Working	PASS
4.6	VALTEST1: Open the part, make some changes, close part and press review	The part is in review state and waits for second tester	PASS
4.7	VALTEST2: Accept the review with a comment	VALTEST2 is asked to enter ID and password. The part is shown as reviewed and ready for approval	PASS
4.8	VALTEST2: Approve the part	VALTEST2 is asked to enter ID, password, and a justification. The part is shown as in approval	PASS

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4.9	VALTEST2: Approve part on behalf of FT, VALTEST1 and VALTEST3;	VALTEST2 is asked to enter ID, password, and a justification The part is shown as approved	PASS
4.10	FT (First tester): Press Change	The part is in Working state ready to be edited	PASS
4.11	Edit the part, Clear reviewer, enter FT as approver, enter a change note and press approve.	The part is in approval state	PASS
4.12	Approve the part	The part is shown approved in a new version	PASS
4.13	Open 'Advanced' section, Press 'Minor Change'	The part revision would not change after 'Minor Change' Note that the minor edition is shown as [.x] are shown after the part number.	PASS
4.14	In the 'Parts->Search'	See that the minor edition is shown as [.x] after the Item number	PASS
4.15	Open the 'Advanced' section.	There is no 'Minor Change'	PASS
4.16	Press 'Approval'	The part is in approval state. The Minor edition is shown as [.x] after the item number	PASS
4.17	Press 'Change'	The part revision is increased with one. Part in Working state	PASS
4.18	Press 'Approval'	The part is in approval state.	PASS
4.19	Press 'Obsolete' under the Advanced tab	The part is shown as obsolete in the status field	PASS
4.20	Press search and search for the part number	The part is not shown	PASS
4.21	In the Revision filter choose [All revisions] and search again	The part is not found	PASS
4.22	In the Revision filter choose [Obsolete] and search again	The part is found	PASS

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4.23	Open the part page, under [Advanced] press the input field [obsolete] and unclick the [Obsolete] check box, write a reason in the note, and press [OK]	FT is asked to enter ID , password and Note The part is shown as approved	PASS
4.24	In the Revision filter choose [List all revisions]	The correct revision story is shown	PASS
4.25	Press [Eventlog]	The entries of the log equals the steps performed in this test case	PASS

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Test Case 5: Part assemblies (Reference structure)			
Function: Verify that <i>Part Assemblies (reference structures)</i> can be created and managed by assigning quantities (<i>qty</i>) and positions (<i>pos</i>) to each individual reference. Also verify that part assemblies can be displayed in <i>Tree views</i> with correct structures and structural information.			
Description: 1. Environment for this specific test (version/revision). Highstage version: SW10055-10N 2. A description of input data: None. 3. Initialising: None			
Step	Specification	Expected	Pass/Fail
5.1	Create four (4) new test Parts with the following unique descriptions: <ul style="list-style-type: none"> • TESTPRODUCT • TESTCOMPONENT1 • TESTCOMPONENT2 • TESTCOMPONENT3 	Four (4) Parts are created.	PASS
5.2	Save a .docx (word) file in each of the associated Part folders for TESTPRODUCT, TESTCOMPONENT1, TESTCOMPONENT2 and TESTCOMPONENT3.	A .docx file will be in the associated [FOLDER] for TESTPRODUCT, TESTCOMPONENT1, TESTCOMPONENT2 and TESTCOMPONENT4.	PASS
5.3	Copy TESTCOMPONENT1 and TESTCOMPONENT2 as references and paste them as references to TESTPRODUCT. Copy TESTCOMPONENT3 as a reference and paste it as a reference to TESTCOMPONENT1.	TESTCOMPONENT1 and TESTCOMPONENT2 are added as (child) references to TESTPRODUCT. TESTCOMPONENT3 are added as a (child) reference to TESTCOMPONENT1.	PASS
5.4	Navigate to the Part TESTPRODUCT. In the [,qty] field on the reference to TESTCOMPONENT1, write "ABC%&x" and press [Enter].	An error message will be shown.	PASS
5.5	In the [,qty] field on the reference to TESTCOMPONENT1, write "10" and press [Enter].	The [,qty] on the reference to TESTCOMPONENT1 will be submitted as 10.	PASS

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5.6	In the [,pos] field on the reference to TESTCOMPONENT1, write "A1" and press [Enter].	The [,pos] on the reference to TESTCOMPONENT1 will be submitted as 1A.	PASS
5.7	In the [,qty] field on the reference to TESTCOMPONENT2, write "25.7" and press [Enter].	The [,qty] on the reference to TESTCOMPONENT2 will be submitted as 25.7.	PASS
5.8	In the [,pos] field on the reference to TESTCOMPONENT2, write "B2" and press [Enter].	The [,pos] on the reference to TESTCOMPONENT2 will be submitted as B2.	PASS
5.9	In the [,qty] field on the reference to TESTCOMPONENT3, write "37" and press [Enter].	The [,qty] on the reference to TESTCOMPONENT3 will be submitted as 37.	PASS
5.10	In the [,pos] field on the reference to TESTCOMPONENT3, write "C3" and press [Enter].	The [,pos] on the reference to TESTCOMPONENT3 will be submitted as C3.	PASS

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Test Case 6: Tree view (Part assembly overview)			
Function: Verify that <i>Part Assemblies (reference structures)</i> can be displayed using <i>Tree view</i> capabilities.			
Description: <ol style="list-style-type: none"> 1. Environment for this specific test (version/revision). Highstage version: SW10055-10N 2. A description of input data: Test files from previous test case. 3. Initialising: None 			
Step	Specification	Expected	Pass/Fail
6.1	Navigate to the Part TESTPRODUCT, navigate to [Reference] and select [Tree-View]	A new browser tab opens displaying the flattened reference structure of TESTPRODUCT.	PASS
6.2	Close the browser tab with the <i>Tree-view</i> , modify the [.QTY] and [.POS] values of the existing references and select [Tree-view].	A new browser tab opens displaying the flattened reference structure of TESTPRODUCT with all the updated changes.	PASS

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Test Case 7: Export (Part assemblies and files)						
Function: Verify that <i>Part Assemblies (reference structures)</i> can be exported including the files in their associated folders.						
Description: 1. Environment for this specific test (version/revision). Highstage version: SW10055-10N 2. A description of input data: Test files from previous test case. 3. Initialising: None						
Step	Specification	Expected	Pass/Fail			
7.1	Access the Part TESTPRODUCT and select [Advanced] > [Export] (<i>As user with AdvancedUser level</i>).	The user is navigated to an [Export] view where all Parts and their associated files in the assembly structure are automatically selected for Export.	PASS			
7.2	Select [Export] and confirm by clicking [OK].	A .ZIP folder will be generated and placed directly in the folder associated with the part TESTPRODUCT.	PASS			
7.3	Inspect the .ZIP folder contents in the folder associated with the TESTPRODUCT part.	The .ZIP folder must contain the following: <ul style="list-style-type: none"> .HTML file with correct information about the part assembly structure. .XLSX file with correct information about the part assembly structure. Folder for each referenced Part containing the selected file(s) associated with each individual part. 	<table border="1"> <tr> <td>PASS</td> </tr> <tr> <td>PASS</td> </tr> <tr> <td>PASS</td> </tr> </table>	PASS	PASS	PASS
PASS						
PASS						
PASS						

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Test Case 8: Revision control and modifications (Part assemblies)			
Function: <ul style="list-style-type: none"> Verify that <i>Part Assembly (reference structures)</i> properties can only be modified whilst the Parts are in [Working] (<i>as non-administrators</i>). Verify that parts having any number of referenced parts (<i>with any status (review(freeze/approval/approved))</i>) can be set to status 'freeze'. Verify that referenced parts ('children') must be reviewed/approved before current parts can be reviewed/approved. Verify the enabling or disabling of 'lock' on referenced parts to determine whether references are locked to current revisions or updated automatically to latest approved versions of referenced parts. 			
Description: <ol style="list-style-type: none"> Environment for this specific test (version/revision). Highstage version: Highstage Part Module - Test Report for SW10055-10N A description of input data: Test files from previous test case. Initialising: None 			
Step	Specification	Expected	Pass/Fail
8.1	Access TESTPRODUCT and "FREEZE" the Part.	<ul style="list-style-type: none"> TESTPRODUCT is set to "FREEZE" even though referenced Parts are still in "Working". 	PASS
		<ul style="list-style-type: none"> TESTPRODUCT is set to status FREEZE and [.qty] and [.pos] on referenced parts can no longer be edited. 	PASS
8.2	Add FT as reviewer in the "Reviewer" field and add FT as an approver in the "Approver" field on TESTPRODUCT, TESTCOMPONENT1, TESTCOMPONENT2 and TESTCOMPONENT3.	FT is asses as Reviewer and Approver on the Part TESTPRODUCT, TESTCOMPONENT1, TESTCOMPONENT and TESTCOMPONENT3.	PASS
8.3	Step TESTPRODUCT to "Review".	An error message is shown – prompting referenced parts to have same review/approval status.	PASS

Title

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- Test Report for SW10055-10

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Reviewed by

SJ

Approved by

PRO

Authors

IAM

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Approved date

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8.4	Step TESTCOMPONENT1 to "Review"	An error message is shown – prompting referenced parts to have same review/approval status.	PASS
8.5	Step TESTCOMPONENT3 to "Review"	No error message is shown and TESTCOMPONENT has status "Review".	PASS
8.6	Step TESTCOMONENT1 and TESTCOMPONENT2 to "Review".	No error message is shown and TESTCOMPONENT1 and TESTCOMPONENT2 has status "Review".	PASS
8.7	Step TESTPRODUCT to "Review".	No error message is shown and TESTPRODUCT has status "Review".	PASS
8.8	Navigate to TESTPRODUCT and click "Accept".	An error message is shown – prompting referenced parts to have same review/approval status.	PASS
8.9	Navigate to TESTCOMPONENT2 and click "Accept" <i>(fill out authentication if required)</i> .	No error message is shown and TESTCOMPONENT2 has status "Approval".	PASS
8.10	Click "Approve" <i>(fill out authentication if required)</i> .	No error message is shown and TESTCOMPONENT2 has status "Approved".	PASS
8.11	Click "Change".	TESTCOMPONENT2 has status "Working" in a new version.	PASS
8.12	Navigate to TESTPRODUCT and scroll down to referenced parts.	Reference to TESTCOMPONENT2 has status "Approved [Working]" – and referenced the pre-existing approved version of TESTCOMPONENT2.	PASS
8.13	Click "Change" on TESTPRODUCT and uncheck ". lock" on the referenced TESTCOMPONENT2.	TESTPRODUCT has status "Working" and ". lock" on the referenced TESTCOMPONENT2 is unchecked.	PASS
8.14	Click "Freeze" on TESTPRODUCT.	TESTPRODUCT has status "Freeze".	PASS

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8.15	Navigate to TESTCOMPONENT2 and follow review/approval procedures until TESTCOMPONENT2 has status "Approved".	Navigating to TESTPRODUCT will show that the reference to TESTCOMPONENT2 has been automatically updated to the latest version of TESTCOMPONENT2 with status "Approved".	PASS
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