

Understanding Requirement Status Roll-Up - DRAFT

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 - Test: TDAI-47
 - Test Status Maps to Requirement Status

Requirement Status is based off of the Requirement's Fix Version

The Fix Version of the Requirement drives which Version the Requirement Status Roll-Up shows:

 Requirements / REQ-1

DEMO_001: This is demonstration requirement one

Edit

Add comment

Assign

More

In Progress

Admin

Details

Type: Requirement

Priority: Highest

Affects Version/s: None

Component/s: None

Labels: Demo

Classification: Unclassified (U)

Requirement Status:

vX_RunForRecord - NOTRUN

vX_DryRun - NOTRUN

Requirement ID: DEMO_001

Resolution: Unresolved

Fix Version/s:

vX_RunForRecord x vX_DryRun x

Req-1 has vX_RunForRecord and vX_DryRun listed in the Fix Version field so both of those have Requirement Statuses per version shown. There might be Test Executions or other Fix Versions that could roll up for that Requirement but the Requirement Status will only show the roll up for the versions identified in the Fix Version field. However, all Tests along with their TestRun Status are still shown in the Test Coverage section of the Requirements and you can use the filters to scope them by Version, Test Plan or Environment.



Requirements / REQ-1

DEMO_001: This is demonstration requirement one

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Details

Type: Requirement Resolution: Unresolved
Priority: Highest Fix Version/s: vX_RunForRecord
Affects Version/s: None
Component/s: None
Labels: Demo
Classification: Unclassified (U)
Requirement Status: vX_RunForRecord - NOTRUN
Requirement ID: DEMO_001

Test Coverage

[Add Tests](#) [Execute](#) [...](#)

TEST COVERAGE FOR THE FOLLOWING ANALYSIS SCOPE

Scope: Version; Version: None - latest execution; Environment: All Environments

NOT RUN

Filter(s)



Show 10 entries

Columns

P	Status	Resolution	Key	Summary	Test Execution Status	Test Plan Status	Test Set Status	TestRunStatus	Fix Version/s	Test R
☐	OPEN	Unresolved	TDAL-15	XRAY-3 Verification Procedure				TODO		
☐	IN PROGRESS	Unresolved	TDAL-21	Example Test				EXECUTING		
☐	IN PROGRESS	Unresolved	TDAL-47	Xray Test Demo 1				PASS		

Showing 1 to 3 of 3 entries

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This REQ-1 example is linked to 3 tests: TDAI-15, TDAI-21 and TDAI-47. Xray evaluates each linked Test's coverage separately for every listed version then combines the results into one Requirement Status per version. It looks at the Test Runs that belong to the Test Execution that carries that Fix Version.

Roll Up Rules

Test Status to Requirement Status Mapping

Tests Statuses and the Requirement Status they map to are:

Name	Description	Final	Color	Requirement Status
PASS	The test run/iteration has passed	☒		OK
TODO	The test run/iteration has not started	☐		NOTRUN
EXECUTING	The test run/iteration is currently being executed	☐		NOTRUN
FAIL	The test run/iteration has failed	☒		NOK
ABORTED	The test run/iteration was aborted	☒		NOTRUN
BLOCKED	The test cannot be completed at this time.	☐		OK
N/A		☐		OK

Final statuses have precedence over non-final statuses. The Test Issue Status is calculated based on the latest Test Run with a final status.

Test Status Roll Up Rules

The Test Status Roll Up looks at:

- Test Runs with Final Status (Pass, Fail, Aborted).
 - If there are multiple Test Runs some with Final statuses and some with Non-Final statuses, the Non-Final Test Runs (TODO, Executing, Blocked, N/A) are ignored entirely no matter how recent they are.
- Among the final-status runs, the one with the most recent Finished On date is selected for the Roll Up.
- If there are no final-status runs, then the one with the most recent created date is selected for the Roll Up.

Requirement Status Roll Up Rules

	All the tests associated with the issue (e.g. requirement) are PASSED
	At least one test associated with the issue is FAILED
	At least one test associated with the issue is TODO , ABORTED or EXECUTING and there are no tests with status FAILED
	At least one test associated with the issue is UNKNOWN and there are no Tests with status FAILED
	The issue has no tests associated to it

Drilling Into Requirements

In our example REQ-1 has 2 associated Fix Versions and is linked to some Tests TDAI-15, TDAI-21 and TDAI-47

Fix Versions

Fix Version	Requirement Status	Determined from Tests
vX_RunForRecord	NOTRUN	TDAI-47 (PASSED) and TDAI-21 (NOT RUN)
vX_DryRun	NOTRUN	TDAI-47 (No idea why this is being included) and TDAI-21 (TODO NOT RUN)

Fix Version Scope: vX_RunForRecord

Test	Selected status
TDAI-15	TODO
TDAI-21	EXECUTING
TDAI-47	PASS

No FAIL present, but not all three are PASS **NOTRUN**

Test Coverage

Add Tests

Execute

TEST COVERAGE FOR THE FOLLOWING ANALYSIS SCOPE

Scope: Version; Version: vX_RunForRecord; Environment: All Environments

NOT RUN

Filter(s)

Show 10 entries

Columns

P	Status	Resolution	Key	Summary	Test Execution Status	Test Plan Status	Test Set Status	TestRunStatus	Fix Version/s	Test R
☐	OPEN	Unresolved	TDAI-15	XRAY-3 Verification Procedure				TODO		
☐	IN PROGRESS	Unresolved	TDAI-21	Example Test				EXECUTING		10
☐	IN PROGRESS	Unresolved	TDAI-47	Xray Test Demo 1				PASS		10

Showing 1 to 3 of 3 entries

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Last

Fix Version Scope: vX_DryRun

Test	Selected status
TDAI-15	not covered (no Test Run carries this version)
TDAI-21	TODO
TDAI-47	not covered (no Test Run carries this version)

No FAIL present, nothing reaches PASS **NOTRUN**

▼ Test Coverage

Add Tests ▼

Execute ▼

...

TEST COVERAGE FOR THE FOLLOWING ANALYSIS SCOPE

Scope: Version; Version: vX_DryRun; Environment: All Environments ▼

NOT RUN

Filter(s)

▼

Show 10 entries

Columns ▼

P	Status	Resolution	Key	Summary	Test Execution Status	Test Plan Status	Test Set Status	TestRunStatus	Fix Version/s	Test R
☐	OPEN	Unresolved	TDAI-15	XRAY-3 Verification Procedure				TODO		
☐	IN PROGRESS	Unresolved	TDAI-21	Example Test				EXECUTING		⌵
☐	IN PROGRESS	Unresolved	TDAI-47	Xray Test Demo 1				PASS		

Showing 1 to 3 of 3 entries

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Test Run Roll Up Example Data

TDAI-15 Test Runs:

Key	Fix Version/s	Revision	Test Version	Executed By	Created	Started	Finished	Defects	Test Plan	Test Execution Status	Status	
TDAI-26			v1	Rich Williams	31/May/24	28/Jul/25 5:00 PM	29/Jul/25 9:36 AM		None		PASS	▶
TDAI-7	2.7.0, vX_RunForRecord	Rev A	v1		14/May/24				None		TODO	▶

Showing 1 to 2 of 2 entries

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vX_RunForRecord Applicable Data:

- TDAI-7 with Test Run Status of TODO

TDAI-21 Test Runs:

Key	Fix Version/s	Revision	Test Version	Executed By	Created	Started	Finished	Defects	Test Plan	Test Execution Status	Status	
TDAI-7	2.7.0, vX_RunForRecord	Rev A	v1		14/May/24	30/Jul/25 10:05 AM			None		TODO	▶
TDAI-97	vX_RunForRecord		v1	Kira Graf	29/Apr/25	29/Apr/25 2:54 PM		TDAI-24 (Step #1)	TDAI-6		EXECUTING	▶
TDAI-41	vX_DryRun		v1	Rich Williams	26/Jun/24	29/Jul/24 10:21 AM		TDAI-51 (Step #3) TDAI-24 (Step #1)	None		TODO	▶
TDAI-23	vX_DryRun		v1	Rich Williams	23/May/24	23/May/24 12:35 PM			None		EXECUTING	▶

vX_RunForRecord Applicable Data:

- TDAI-7 with Test Run Status of TODO

- TDAl-97 with Test Run Status of Executing

vX_DryRun Applicable Data:

- TDAl-41 with Test Run Status of TODO
- TDAl-23 with Test Run Status of Executing

TDAl-47 Test Runs:

Key	Fix Version/s	Revision	Test Version	Executed By	Created	Started	Finished	Defects	Test Plan	Test Execution Status	Status
TDAl-58	vX_RunForRecord	v1		Kira Graf	01/May/24	01/May/24 8:40 AM	Yesterday 1:58 PM		None		PASS

Showing 1 to 1 of 1 entries

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vX_RunForRecord Applicable Data:

- TDAl-58 with Test Run Status of Pass

Fix Version scope: vX_RunForRecord:

Tests:

Test: TDAl-15

Test Execution	Fix Version	Status	Final	Created	Finished	Maps to Requirement Status for vX_RunForRecord
TDAl-26	(none)	PASS	Final	—	29/Jul/25	—
TDAl-7	2.7.0, vX_RunForRecord	TODO	Non-final	14/May/24	—	NOTRUN

Test Status Roll Up Rules:

Test Runs with Final Status (Pass, Fail, Aborted):	None within version scope
Final Status Run with most Recent Finish:	None within version scope
Most Recent Created Date:	TDAl-7 (TODO)
Final Test Roll Up Status for TDAl-15 vX_RunForRecord:	TODO

Test: TDAl-21

Test Execution	Fix Version	Status	Final	Created	Finished	Maps to Requirement Status vX_RunForRecord
TDAl-7	2.7.0, vX_RunForRecord	TODO	Non-final	14/May/24	—	NOTRUN
TDAl-97	vX_RunForRecord	EXECUTING	Non-final	29/Apr/25	—	NOTRUN
TDAl-41	vX_DryRun	TODO	Non-final	29/Jul/24	—	—
TDAU-23	vX_DryRun	EXECUTING	Non-final	23/May/24	—	—

Test Status Roll Up Rules:

Test Runs with Final Status (Pass, Fail, Aborted):	None within version scope
Final Status Run with most Recent Finish:	None within version scope
Most Recent Created Date:	TDAI-97 (EXECUTING)
Final Test Roll Up Status for TDAI-21 vX_RunForRecord:	EXECUTING

Test: TDAI-47

Test Execution	Fix Version	Status	Final	Created	Finished	Maps to Requirement Status vX_RunForRecord
TDAI-58	vX_RunForRecord	PASS	Final	01/May/24	04/Aug/25	PASS

Test Status Roll Up Rules:

Test Runs with Final Status (Pass, Fail, Aborted):	TDAI-58
Final Status Run with most Recent Finish:	N/A - There is only one
Most Recent Created Date:	N/A - Final status takes precedence
Final Test Roll Up Status for TDAI-47 vX_RunForRecord:	PASS

Test Status Maps to Requirement Status

Test Execution	Test Status Roll Up	Maps to Requirement Status
TDAI-15	TODO	TODO
TDAI-21	EXECUTING	EXECUTING
TDAI-47	PASS	PASS

Requirement Status Calculation

Requirement Status	Rule	Reason
OK	All tests executions associated with the Requirement are Passed	No - TDAI-7 and TDAI-97 are not Passed, even though TDAI-58 is
NOK	At least one test associated with the Requirement Failed	No - No test executions failed
NOTRUN	At least one test associated with the Requirement is TODO, Aborted or Executing and there are no tests with status Failed	Yes - TDAI-7 is TODO and TDAI-97 is Executing
UNKNOWN	At least one test associated with the issue is Unknown and there are no Tests with status FAILED	No - No tests are Unknown
UNCOVERED	The Requirement has no tests associated with it	No - 3 Tests are associated with the Requirement

NOTRUN is selected for version vX_RunForRecord

Fix Version scope: vX_DryRun

Tests:

Test TDAI-15

Test Execution	Fix Version	Status	Final	Created	Finished	Maps to Requirement Status for vX_RunForRecord
TDAI-26	(none)	PASS	Final	—	29/Jul/25	—
TDAI-7	2.7.0, vX_RunForRecord	TODO	Non-final	14/May/24	—	NOTRUN

Test Status Roll Up Rules:

Test Runs with Final Status (Pass, Fail, Aborted):	None within version scope
Final Status Run with most Recent Finish:	None within version scope
Most Recent Created Date:	None within version scope
Final Test Roll Up Status for TDAI-15 vX_DryRun:	Not counted for vX_DryRun

Test: TDAI-21

Test Execution	Fix Version	Status	Final	Created	Finished	Maps to Requirement Status vX_RunForRecord
TDAI-7	2.7.0, vX_RunForRecord	TODO	Non-final	14/May/24	—	NOTRUN
TDAI-97	vX_RunForRecord	EXECUTING	Non-final	29/Apr/25	—	NOTRUN
TDAI-41	vX_DryRun	TODO	Non-final	29/Jul/24	—	—
TDAU-23	vX_DryRun	EXECUTING	Non-final	23/May/24	—	—

Test Status Roll Up Rules:

Test Runs with Final Status (Pass, Fail, Aborted):	None within version scope
Final Status Run with most Recent Finish:	None within version scope
Most Recent Created Date:	TDAI-41 (TODO)
Final Test Roll Up Status for TDAI-21 vX_DryRun:	TODO

Test: TDAI-47

Test Execution	Fix Version	Status	Final	Created	Finished	Maps to Requirement Status vX_RunForRecord
TDAI-58	vX_RunForRecord	PASS	Final	01/May/24	04/Aug/25	PASS

Test Status Roll Up Rules:

Test Runs with Final Status (Pass, Fail, Aborted):	None within version scope
Final Status Run with most Recent Finish:	None within version scope
Most Recent Created Date:	None within version scope
Final Test Roll Up Status for TDAI-21 vX_DryRun:	Not counted for vX_DryRun

Test Status Maps to Requirement Status

Test Execution	Test Status Roll Up	Maps to Requirement Status
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TDAI-15	Not Counted	
TDAI-21	TODO	
TDAI-47	Not Counted	

Requirement Status Calculation

Requirement Status	Rule	Reason
OK	All tests executions associated with the Requirement are Passed	No - TDAI-7 and TDAI-97 are not Passed, even though TDAI-58 is
NOK	At least one test associated with the Requirement Failed	No - No test executions failed
NOTRUN	At least one test associated with the Requirement is TODO, Aborted or Executing and there are no tests with status Failed	Yes - TDAI-7 is TODO and TDAI-97 is Executing
UNKNOWN	At least one test associated with the issue is Unknown and there are no Tests with status FAILED	No - No tests are Unknown
UNCOVERED	The Requirement has no tests associated with it	No - 3 Tests are associated with the Requirement

NOTRUN is selected for version vX_RunForRecord