

WHAT'S NEW IN INTEGRITY LIFECYCLE MANAGER 12.0



ptc

August 2018



AGENDA

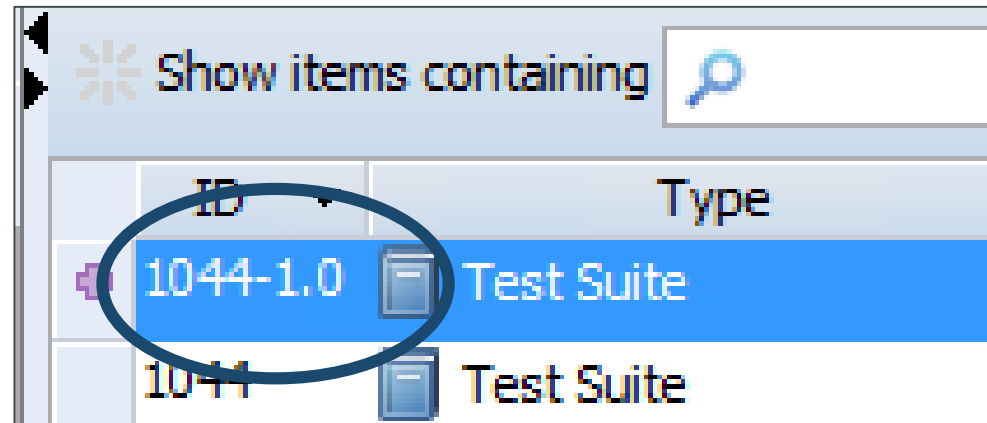
1. Test Versioning
2. Software Configuration Management
3. Product Architecture & Platform

TEST VERSIONING

TEST VERSIONING

Test Management Versioning with;

- Test Suite & Test Case Versioning
- Adding Versioned Test Suites & Cases to Test Sessions
- Recording the verdict of Versioned Test Cases in the Test Editor



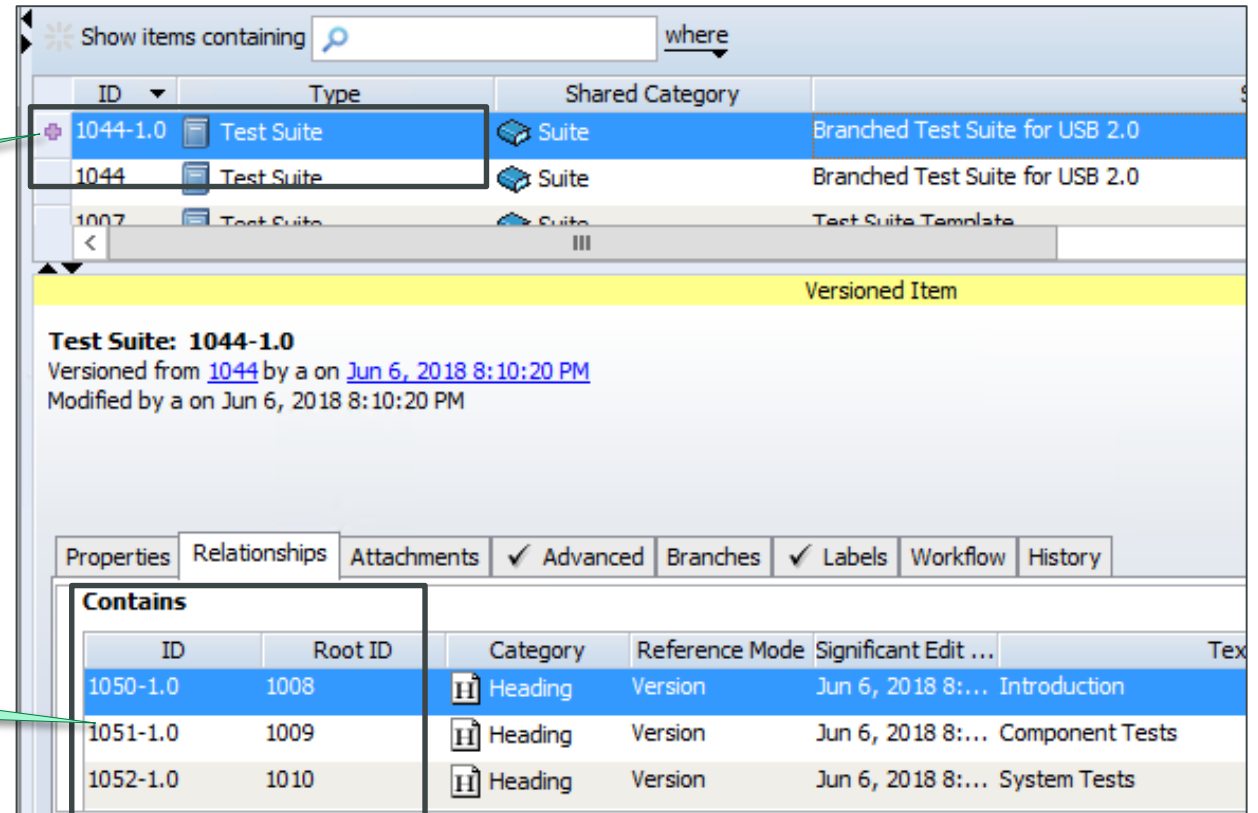
Note: Test Document versioning already provided in previous release

TEST SUITE & CASE VERSIONING

- End to End traceability between versioned requirements & test cases

Version ID for a Test Suite

Version IDs for Test Cases



The screenshot displays a software interface for managing test suites. At the top, there is a search bar labeled "Show items containing" with a "where" dropdown. Below this is a table listing test suites:

ID	Type	Shared Category	
1044-1.0	Test Suite	Suite	Branched Test Suite for USB 2.0
1044	Test Suite	Suite	Branched Test Suite for USB 2.0
1007	Test Suite	Suite	Test Suite Template

Below the table, a section titled "Versioned Item" shows details for the selected test suite:

Test Suite: 1044-1.0
Versioned from [1044](#) by a on [Jun 6, 2018 8:10:20 PM](#)
Modified by a on Jun 6, 2018 8:10:20 PM

At the bottom, there are tabs for "Properties", "Relationships", "Attachments", "Advanced", "Branches", "Labels", "Workflow", and "History". The "Relationships" tab is active, showing a "Contains" table:

ID	Root ID	Category	Reference Mode	Significant Edit ...	Text
1050-1.0	1008	Heading	Version	Jun 6, 2018 8:...	Introduction
1051-1.0	1009	Heading	Version	Jun 6, 2018 8:...	Component Tests
1052-1.0	1010	Heading	Version	Jun 6, 2018 8:...	System Tests

ADDING VERSIONED TEST SUITES & CASES TO TEST SESSIONS

- Versioned test suites & cases can now be added to test sessions

Test Session

Summary Branched Test Suite for USB 2.0

Project

Test Objective

State where

Assigned User

Details

Effort

Planned Start Date

Task Phase

Tests As Of

ID	Type	Summary
1044-1.0	Test Suite	Branched Test Suite for USB 2.0
980-0.1	Test Case	Watch

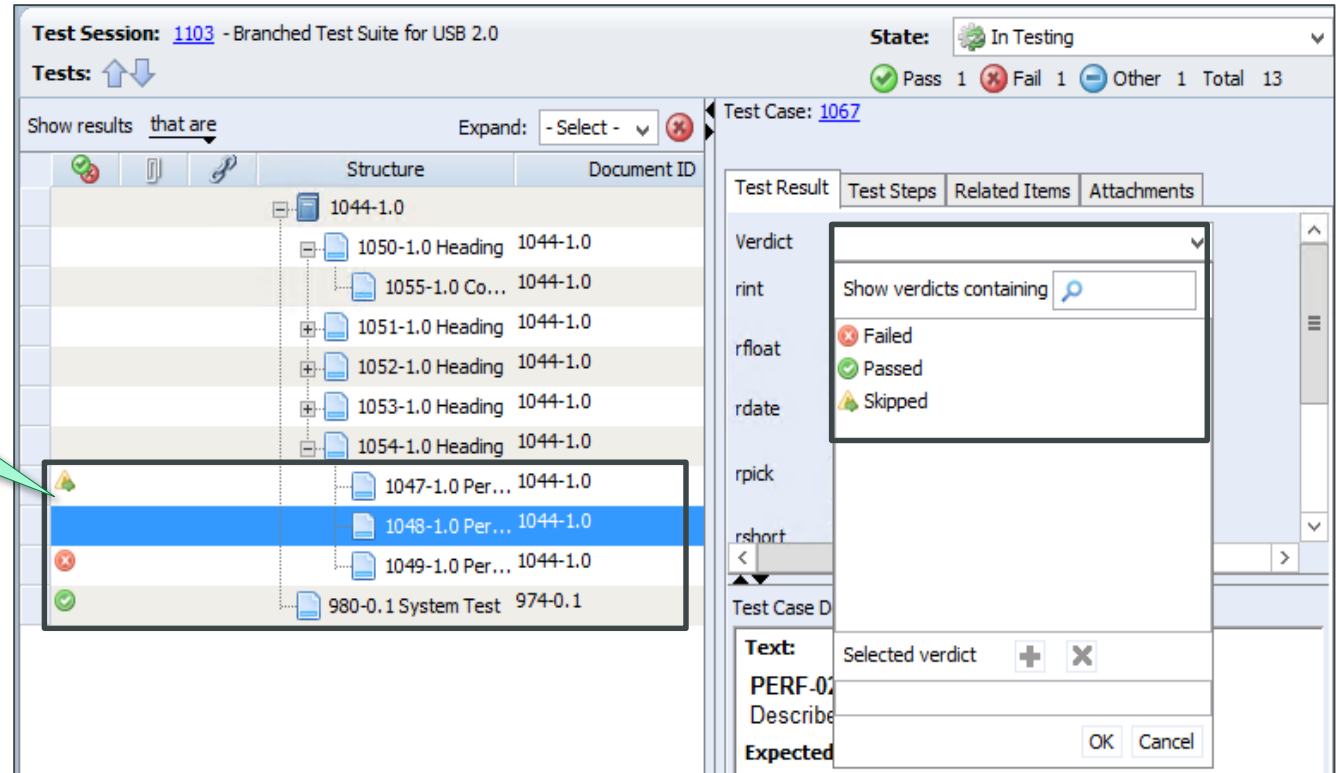
Versioned Test Suite & Test Cases

Find & Add the Versioned Test Suite & Test Cases

RECORDING VERDICTS OF VERSIONED TEST CASES

- You can now view the Versioned content in the Test Result Editor
- View the Versioned context of the test case
- Mark & Save verdicts against the versioned content

Versioned Test Suite & Test Cases with marked Verdicts



The screenshot displays the Test Result Editor interface. The main window shows a test session titled "Test Session: 1103 - Branched Test Suite for USB 2.0". The state is "In Testing" with a summary of results: 1 Pass, 1 Fail, 1 Other, and a Total of 13. The test case being viewed is "Test Case: 1067".

The central pane shows a tree view of the test suite structure with columns for "Structure" and "Document ID". The following table represents the visible data in this pane:

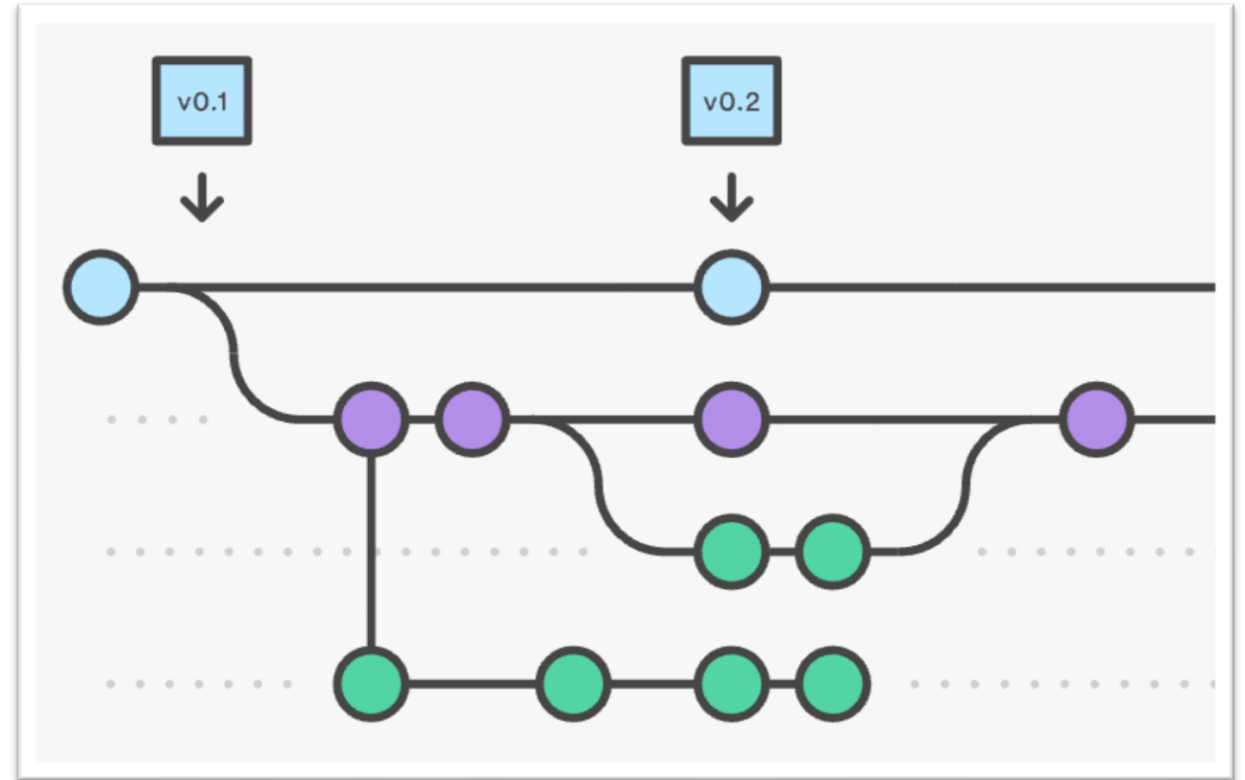
Structure	Document ID
1044-1.0	
1050-1.0 Heading	1044-1.0
1055-1.0 Co...	1044-1.0
1051-1.0 Heading	1044-1.0
1052-1.0 Heading	1044-1.0
1053-1.0 Heading	1044-1.0
1054-1.0 Heading	1044-1.0
1047-1.0 Per...	1044-1.0
1048-1.0 Per...	1044-1.0
1049-1.0 Per...	1044-1.0
980-0.1 System Test	974-0.1

A dialog box is open for selecting a verdict. It contains a search field "Show verdicts containing" and a list of verdict options: "Failed" (marked with a red X), "Passed" (marked with a green checkmark), and "Skipped" (marked with a yellow triangle). Below the dialog, there is a "Text:" field with "Selected verdict" and buttons for "+" and "X". At the bottom of the dialog are "OK" and "Cancel" buttons.

SOFTWARE CONFIGURATION MANAGEMENT

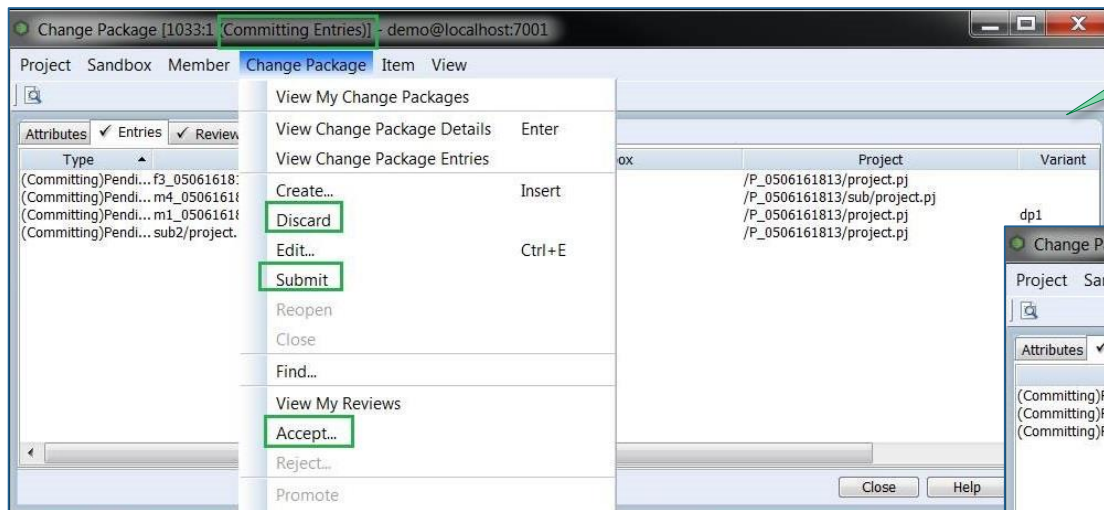
SOFTWARE CONFIGURATION MANAGEMENT

- Change Package Transactional Integrity
- New statistics in Source

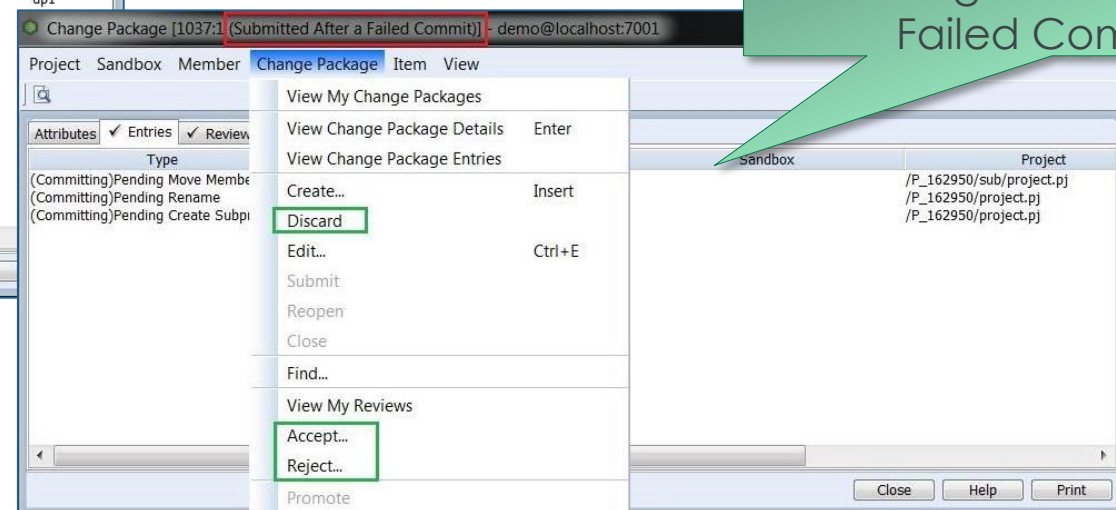


CHANGE PACKAGE TRANSACTION INTEGRITY

- New intermediate states to indicate Partial Failure
 - Committing Entries, Commit Failed & Entries in Sync
- Failure Recovery while in Partial Commit Failed State
 - Re-submit or Discard Change Package
 - Discard Change Package entries



Available operations for Change Package in "Committing Entries" state



Available operations for Change Package in "Submitted after Failed Commit" state

NEW SOURCE STATISTICS

- Gain insights into usage patterns

- Sample statistics from Bulk Data Cache

UserInitiatedCleanup	BDC DiskSize after	1	0	0	0	0	(Bytes)	count/tot/avg/max/min/unit
UserInitiatedCleanup	BDC DiskSize before	1	40	40	40	40	(Bytes)	count/tot/avg/max/min/unit
UserInitiatedCleanup	BDC MemorySize after	1	0	0	0	0	(Bytes)	count/tot/avg/max/min/unit
UserInitiatedCleanup	BDC MemorySize before	1	1644	1644	1644	1644	(Bytes)	count/tot/avg/max/min/unit
UserInitiatedCleanup	Removed Bulkdata	1	6	6	6	6	(bulkdata)	count/tot/avg/max/min/unit
UserInitiatedCleanup	memoryTriggeredCollection	1						count/unit

- Sample statistics from Metadata Cache

UserInitiatedCleanup	Metadata Size after	1	0	0	0	0	(Bytes)	count/tot/avg/max/min/unit
UserInitiatedCleanup	Metadata Size before	1	9200	9200	9200	9200	(Bytes)	count/tot/avg/max/min/unit
UserInitiatedCleanup	Removed Metadata	1	21	21	21	21	(objects)	count/tot/avg/max/min/unit

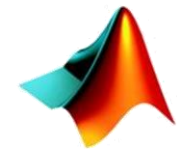
- Sample statistic of user specific requests

administrator	- ACLResolver - acquire - metadata	3	8	2	4	1	(ms)	count/tot/avg/max/min/unit
administrator	- ACLResolver - total - metadata	4	8	2	4	0	(ms)	count/tot/avg/max/min/unit
spanchal	- ACLResolver - acquire - bulk	1	4	4	4	4	(ms)	count/tot/avg/max/min/unit
spanchal	- ACLResolver - acquire - metadata	1	2	2	2	2	(ms)	count/tot/avg/max/min/unit
spanchal	- ACLResolver - total - bulk	1	4	4	4	4	(ms)	count/tot/avg/max/min/unit
spanchal	- ACLResolver - total - metadata	2	2	1	2	0	(ms)	count/tot/avg/max/min/unit
spanchal	- Bulkdata - Prime Local	1	0	0	0	0	(Kb)	count/tot/avg/max/min/unit
spanchal	- Bulkdata - Prime Remote	1	40	40	40	40	(Kb)	count/tot/avg/max/min/unit
spanchal	- Metadata - All Requests	3						count/unit
spanchal	- Metadata - Misses	2						count/unit
spanchal	- Metadata - Priming	3						count/unit

PRODUCT ARCHITECTURE AND PLATFORM

ARCHITECTURE AND PLATFORM

- Contemporary Architecture
 - Tomcat is the new Integrity Lifecycle Manager web server
- Integrity Lifecycle Manager Server Operating System Updates
 - Microsoft Windows Server 2016
 - Red Hat Enterprise Linux 7.4
- Microsoft Visual Studio 2017
 - Install multiple flavors of Visual Studio 2017 to use with single client
- Integrity Lifecycle Manager integration with Matlab v1.3
 - Matlab 2016b and 2017a
- Java Runtime Environment
 - Integrity Lifecycle Manager Installer now checks for preinstalled JRE



MATLAB



SUMMARY

- Version Specific Execution
 - End-to-End Traceability between Versioned Requirements & Versioned Tests
- Enhanced Transactionality of CP based operations
 - Reduced recovery time and improved Change Package operations
- New statistics in Source
 - Gain insights about usage pattern to improve source cache management
- Server Technology
 - Tomcat is secure, modern, enterprise-wide preferred web server technology

This is a significant new release of Integrity Lifecycle Manager that demonstrates our commitment towards building a strong core with best-in-class server technology, productivity enhancements in Software Configuration Management and adds value to Validation & Traceability



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