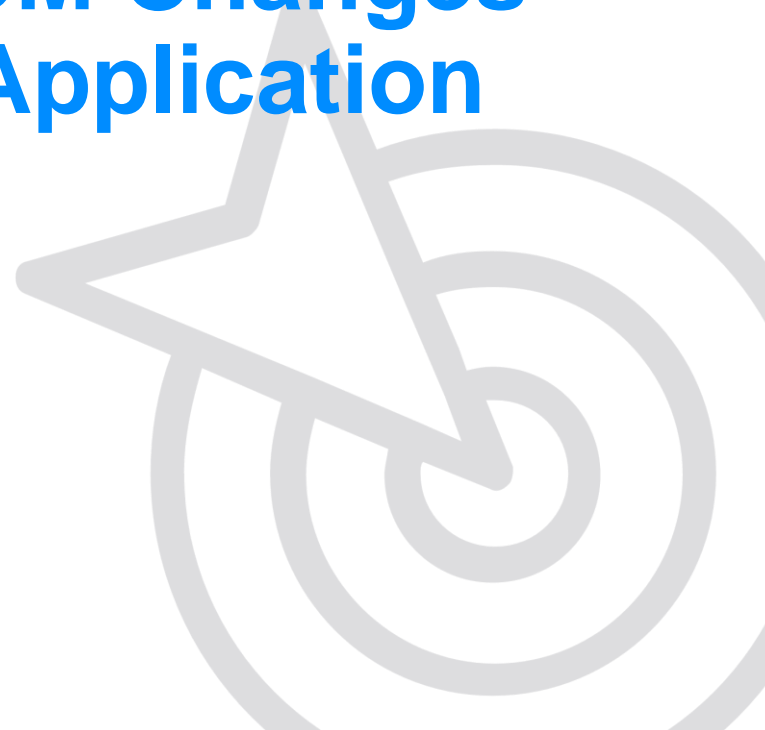




Tracing CA Endevor SCM Changes in Agile Tools with CA Application Lifecycle Conductor

May 2018



Agenda

- 1 CHANGESET TRACEABILITY DEFINED
- 2 ENABLING CHANGESET TRACEABILITY WITH CA ENDEVOR SCM
- 3 CONSIDERATIONS FOR CA ENDEVOR SCM



Changeset Traceability Defined



Changeset Traceability Defined

- What is a Changeset?
- Agile PPM tools
- CA Agile Central
- Jira Software Server

User Story S61787: Prevent unnecessary Preference requests from G...

Actions

TRY NEW VERSION

Details for S61787

Children (0)

Predecessors (0)

Successors (0)

Tasks (0)

Defects (0)

Test Cases (0)

Test Run (0)

Chart (0)

Changesets (3)

Discussion (2)

Revisions (17)

Changesets

NAME	MESSAGE	AUTHOR	TIMESTAMP	CHANGES	BUILDS
appsdk:d509e0ea0e15695384661b3d29...	Merge pull request #255		02/26/2014 02:48:21 PM	M - rui/src/state /AppScopedStorageProvider.js M - rui/test/coffeescripts/rui/state /AppScopedStorageProviderSpec.coffee	
appsdk:ba6700105d7a6f66b407d9ac76b...	S61787: Prevent unnecessary Preference requests from GridBoard and GridBoardFilter button		02/26/2014 02:11:30 PM	M - rui/src/state /AppScopedStorageProvider.js M - rui/test/coffeescripts/rui/state /AppScopedStorageProviderSpec.coffee	appsdk #1532 - Success
appsdk:ba6700105d7a6f66b407d9ac76b...	S61787: Prevent unnecessary Preference requests from GridBoard and GridBoardFilter button		02/26/2014 02:11:30 PM	M - rui/src/state /AppScopedStorageProvider.js M - rui/test/coffeescripts/rui/state /AppScopedStorageProviderSpec.coffee	

Changeset Traceability Defined

- Point SCM-to-Agile integrations or Integration solutions like CA ALC “listen” for check-ins to the SCM system and determine what the changes are for, and write links to the changes and change metadata in the container provided by the Agile PPM tool

Why Trace Changesets?

- Developers can easily understand what changes were made to fix a problem or implement a requirement using SCM and compare tools
- Mean-time-to-resolve.
- Auditors can easily see why any given change was made
- Overall Productivity

Why Trace Changesets?

- Capturing changeset metadata unlocks a good deal of useful reporting in the Agile PPM tool

BUILD TRACEABILITY					
Build Definition		Builds			
Default Build Definition					
ID	Name	State	Changeset	Changeset Message	Release
DE17	Login 404 Issue	In-Progress	4	DE17 fixed	
DE20	Production Defect in accessing shopping cart	Accepted	2	DE20 closed	Release 2 (5,6,7)
S50	Patch #1 - Mauna Loa	Accepted	6	S50 completed	Release 2 (5,6,7)
DE19	Recurring 'No Address' Warning	In-Progress	1	DE19 fixed	
DE21	State drop down doesn't contain any items	Defined	3	DE21 open	

board



Build Health by Iteration
Build Traceability
Source Code Check-In

General
Hierarchies
Iteration Management

Report on build success and daily build statistics if you have integrated Rally with your build system.



Get the source code for this app on Github.

Add This App

SOURCE CODE CHECK-IN

BuildHealthReportRepo SCM Check-in

Revision: 1000
Message: DE28 Fixed

No affected files

ChangesReportRepo SCM Check-in

Revision: 1003
Message: DE18 Fixed

Files Affected By Revision 1003

M /branches/common/scm-changeset/scm/lib/scm_config_reader.rb

ChangesReportRepo SCM Check-in

Revision: 1002
Message: DE18 Fixed

Files Affected By Revision 1002

M /branches/common/scm-changeset/scm/lib/scm_connector.rb

M /branches/common/scm-changeset/scm/lib/scm_config_reader.rb

ChangesReportRepo SCM Check-in

Revision: 1001
Message: DE18 Fixed

Files Affected By Revision 1001

A /branches/common/scm-changeset/scm/lib/config.xml

A /branches/common/scm-changeset/scm/lib/config_test.rb

M /branches/common/scm-changeset/scm/lib/scm_config_reader.rb

M /branches/common/scm-changeset/scm/lib/scm_connector.rb

M /branches/common/scm-changeset/scm/lib/scm_connector.rb

M /branches/common/scm-changeset/scm/lib/subversion/svn2rally.rb

M /branches/common/scm-changeset/scm/lib/rally_connection_helper.rb

M /trunk/common/build-integration/pom.xml



Enabling Changeset Traceability with CA Endevor SCM



Enabling Changeset Traceability with CA Endevor SCM

- CA Mainframe Webhook Server has been equipped to send element level events to a webhook consumer
- CA Application Lifecycle Conductor has new out-of-the-box workflows to consume those webhooks for Agile PPM tools like CA Agile Central or Atlassian JIRA
- Customers only need to turn on Element logging and point the webhook server to process the events via ALC

Mainframe Webhook Server



 CA Mainframe Webhooks Server
Configuration

Mainframe Webhooks





Application	Description	API Key	Notify	Last Modified	Active
 Endevor (Element Actions)	Tracing CA Endevor SCM Changes in Agile Tools ...		pesar01@ca.com	2018-05-30 10:38 AM +0200	
 Endevor (Element Actions)	Visualizing and Tracking CA Endevor® SCM with ...		pesar01@ca.com	2018-05-30 10:22 AM +0200	

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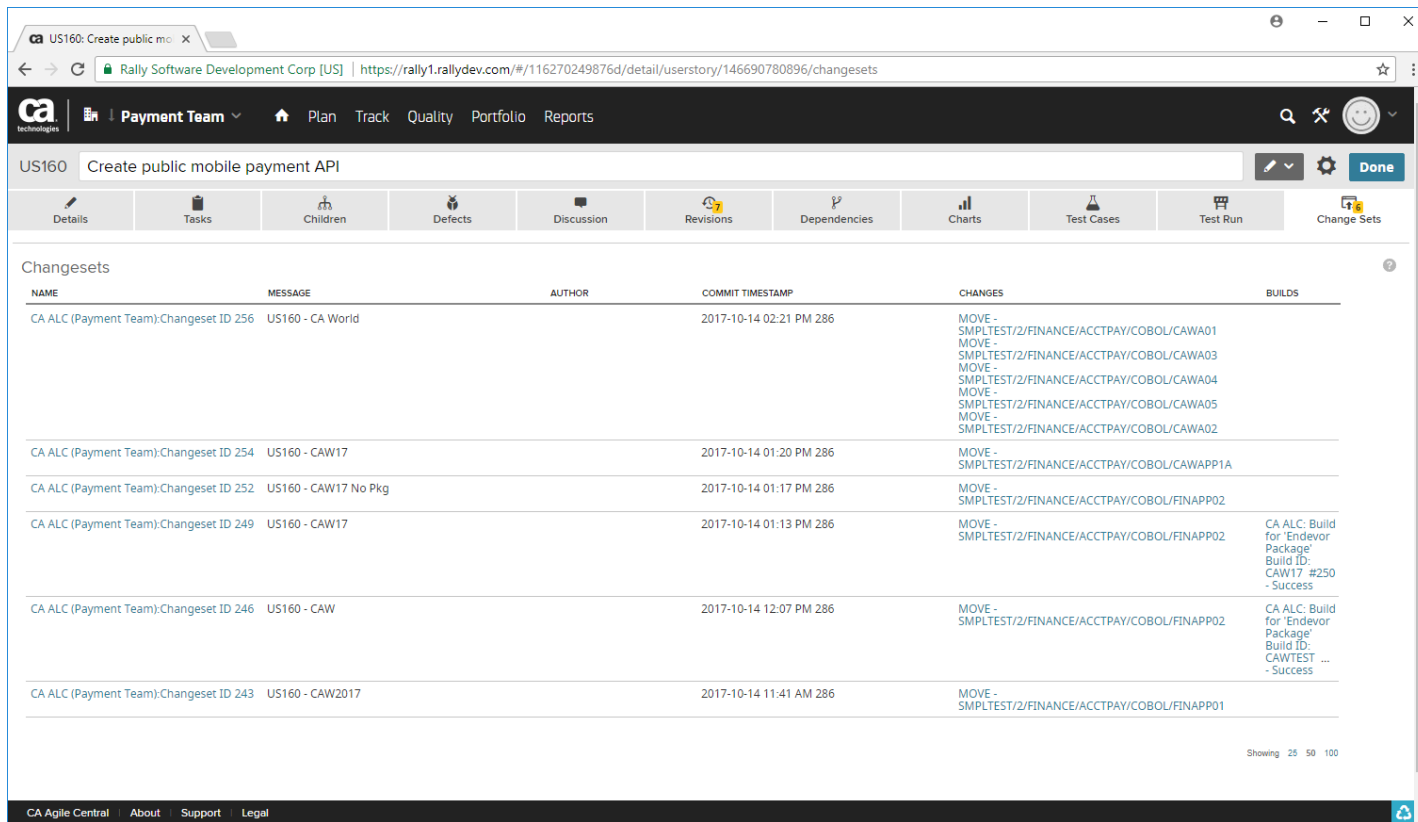
CA ALC Endeavor Webhook Processor

The screenshot displays the CA ALC Web Client interface. The browser address bar shows the URL `alc-cat01:8080/webclient`. The interface includes a menu bar (File, Edit, View, Admin, Window, Help) and a toolbar with various icons. The main content area is titled `*Rule Object ID 10000006: Trigger Package Execute in RA/CDE`. On the left, a sidebar shows a tree view with the selected item `1 - Trigger Package Execute in RA/CDE`. The main configuration panel is divided into two sections:

- CA RA/CDE Details**: This section contains several input fields for configuring the webhook:
 - Base URL: `http://alc-cde01:8080/cdd`
 - CA Endeavor Action: `EXECUTE`
 - CA CDE Username: `superuser@ca.com`
 - CA CDE Password: `****`
 - Release ID: `End-to-End DevOps`
 - Phase ID: `Dev`
 - Package Token Name: `packageId`
 - Package Token ID: `0`
- CA Endeavor Package SCL Filters (Separate multiples with '|' character):**: This section contains input fields for filtering packages:
 - Environments: `SMPTEST`
 - Stages: `T`
 - Systems: `FINANCE`
 - Subsystems: `ACCTPAY|ACCTREC`

At the bottom of the configuration panel, there is a checkbox labeled `Write Statements to System Log:` which is checked. A `Show inactive values` checkbox is also present at the bottom left of the configuration area. The `General` tab is selected at the bottom of the interface.

CA Agile Central with Endeavor Changesets



US160: Create public mobile payment API

Changesets

NAME	MESSAGE	AUTHOR	COMMIT TIMESTAMP	CHANGES	BUILDS
CA ALC (Payment Team):Changeset ID 256	US160 - CA World		2017-10-14 02:21 PM 286	MOVE - SMPLTEST/2/FINANCE/ACCTPAY/COBOL/CAWA01 MOVE - SMPLTEST/2/FINANCE/ACCTPAY/COBOL/CAWA03 MOVE - SMPLTEST/2/FINANCE/ACCTPAY/COBOL/CAWA04 MOVE - SMPLTEST/2/FINANCE/ACCTPAY/COBOL/CAWA05 MOVE - SMPLTEST/2/FINANCE/ACCTPAY/COBOL/CAWA02	
CA ALC (Payment Team):Changeset ID 254	US160 - CAW17		2017-10-14 01:20 PM 286	MOVE - SMPLTEST/2/FINANCE/ACCTPAY/COBOL/CAWAPP1A	
CA ALC (Payment Team):Changeset ID 252	US160 - CAW17 No Pkg		2017-10-14 01:17 PM 286	MOVE - SMPLTEST/2/FINANCE/ACCTPAY/COBOL/FINAPP02	
CA ALC (Payment Team):Changeset ID 249	US160 - CAW17		2017-10-14 01:13 PM 286	MOVE - SMPLTEST/2/FINANCE/ACCTPAY/COBOL/FINAPP02	CA ALC: Build for 'Endevor Package' Build ID: CAW17 #250 - Success
CA ALC (Payment Team):Changeset ID 246	US160 - CAW		2017-10-14 12:07 PM 286	MOVE - SMPLTEST/2/FINANCE/ACCTPAY/COBOL/FINAPP02	CA ALC: Build for 'Endevor Package' Build ID: CAWTEST ... - Success
CA ALC (Payment Team):Changeset ID 243	US160 - CAW2017		2017-10-14 11:41 AM 286	MOVE - SMPLTEST/2/FINANCE/ACCTPAY/COBOL/FINAPP01	

Showing 25 50 100

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Traceability Matrix in CA ALC

The screenshot displays the CA ALC Web Client interface. The browser address bar shows the URL `alc-cat01:8080/webclient?itemid=255`. The application title is "US160: Create public mo...". The main menu includes File, Edit, View, Admin, Window, and Help. The toolbar contains various icons for file operations and navigation.

The interface is divided into two main sections. The left section, titled "Record Navigator: Selected Items", shows a tree view of the project structure. The tree is expanded to show the "Relationships" section, which includes "Relationship Type: Build" and "Relationship Type: Changeset". The "Changeset" section is further expanded, showing a list of changesets for CCID 'US160' with comments like 'CAWTEST', 'CAW17', and 'CA World'. The "Remote Records" section is also visible, showing a list of remote records for the selected changeset.

The right section, titled "Changeset Details", displays the details for the selected changeset (Changeset ID 256). The details include:

- Name: Changeset for CCID 'US160' Comment 'CA World'
- Description:
- Requirement ID: US160
- Message: CA World
- Build ID:
- Timestamp: 2017-10-14 17:21:54.00-0400
- Author: CAWE2E
- Source Location: CA Endeavor - TEST REGION

Below the details section is the "System Details" section, which is currently collapsed. At the bottom of the interface, there is a tabbed navigation bar with the following tabs: General, Comments, Attachments, Relationships, Remote Records, and Audit Trail. The "General" tab is currently selected.



Considerations for CA Endevor SCM



Changeset Traceability Considerations for CA Endevor SCM

- Need to determine what determine when a change is considered “ready”
- Demonstration we will see uses MOVE events. We have decided that when an element is ready to MOVE out of the development environment / stage, it should be traced.

Changeset Traceability Considerations for CA Endevor SCM

- Typically, a changeset is an atomic check-in but we don't have those in Endevor
- Instead we group individual changes by CCID and comment
- If the CCID and comment (when specified) are the same, the changes are grouped together as a changeset



Thank You.



Arthur Pessoa

Associate Software Engineer

Arthur.Pessoa@ca.com



@cainc



slideshare.net/CAInc



linkedin.com/in/arthurwpessoa