Integrating CA DevTest 10.2 with CA Agile Central

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Introduction

- What is CA Agile Central (formerly called Rally)?
 - A collaborative platform for agile software development
 - Provides a hub for teams to collaboratively plan, prioritize, and track work on a synchronized cadence
 - Measure productivity, predictability, quality, and responsiveness with real-time performance metrics
- Why use Agile Central with DevTest?
 - Provides end-to-end workflow and status updates from planning, execution, and testing
 - Automatically sync test run results by build # from DevTest Portal to Agile Central
 - Pass/Fail status, link to test results report, and tester name synched to Agile Central
 - Test Results now contained within Test Cases which are linked to User Stories and Features



Demo Steps

- 1. Generate CA Agile Central API key
- 2. Create Test Case in Agile Central
- 3. Create Test Case in DevTest Workstation
- 4. Run Test Case in DevTest Portal
- 5. View the test result in DevTest Portal
- 6. View the test result in Agile Central
 - If the test fails, a defect is automatically created and attached to the respective test case



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1. Create Agile Central API Key

- Log in to CA Agile Central account page:
 - https://rally1.rallydev.com/login/accounts/index.html#/apps
- Click the API Keys tab
- Select "Create New API Key"
- Enter a name for the key and select "Full Access" checkbox
- Click "Create"
- Copy/Paste the API Key for later reference

NOTE: Ensure the project with the test is the default project for your profile

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2. Set the API Key Property

- Navigate to the DevTest installation directory
- Open the *site.properties* file
- Locate the line with the following property:
 - rally.api.key=
- Uncomment the line and enter the API Key you created after the "=" sign
- Save the file and start DevTest



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3. Add the CA Agile Central Report Generator

- The CA Agile Center report generator publishes DevTest test results to the CA Agile Central server
- You must add the CA Agile Central Report Generator to your staging document
 - The staging document *must contain at least one other report generator type*, such as Default Report Generator
 - NOTE: Do not replace the Default Report Generator with the CA Agile Central Report Generator
- In DevTest Workstation, click on a Staging Document and then the Report tab.
- Click the "+" sign to add a new Report Generator, then change the Report Generator Type to "CA Agile Central Report Generator"
- In the Parameters section of the report generator, after "Build Number Launch State Key", enter "BUILD_NUM" to identify the test case
- The property BUILD_NUM can now be used in search from the reporting portal so you have a consistent naming convention in both DevTest and Agile Central



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4. Create Test Case in CA Agile Central

- In Agile Central, Click on "Quality", then select "Test Cases"
- Click on "Actions", then select "New Test Case"
- Enter a name for the test case and any other required information

NOTE: The name of the test case in DevTest must match the name of the test case in CA Agile Central

- Set the "Method" field to "Automated"
- Click on the test case you just created
- Copy the number at the end of the URL string for later use. That is the *<TEST_CASE_ID>*.
 - https://rally1.rallydev.com/#/43892440438d/detail/testcase/198449798264
 - NOTE: The Test Case ID is assumed to be the prefix of the DevTest test name delimited by "-", "_", or " " (for example, TC46540-UpdateRallyToPassed)
- Use Agile Central to manage the test cases. The test cases show the build number and whether the tests passed or failed.



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5. Create a Test Case in DevTest

Create a new test case in DevTest Workstation

- NOTE: The name of the test case in DevTest must match the name of the test case in CA Agile Central (example: TC46540-UpdateRallyToPassed)

The test case requires the following fields:

- REST call
- Test Case Name
- Test Case ID
- Build Number
- Date/Time
- Pass/Fail Verdict
- CA Agile Central API Key
- For Defect also: Name, State, Description











6. Run the Test

- In DevTest Portal, select a test case and click "Run" (if using config file in Workstation)
 - Otherwise, to specify a build number at runtime, select "Run with Options"
 - Click "Additional Properties" and add a new property called "BUILD_NUM" Set the value to the build number you are running the test against



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6. View Test Case Results

- View test cases status and results in DevTest Portal
- View test case status and report in Agile Central
- If the test fails in our example, a Defect will be created automatically and attached to the test case (or user story or task)



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| | | 1 POST /slm/webservice/v2.0/defect/create HTTP/1.1 2 Pragma: no-cache 3 Cache-Control: no-cache 4 zsessionid: _wtCH6nsrSrSPVhF2nPvDuiRhCx1N0yBvD70sLXCP4 5 lisaFrameRemotEP: 10.151.17.141 6 lisaFrameRbot: true 7 lisaFrameDi 1768b220-c090-11e6-a824-0050569c1e3f 8 Content-Type: application/json 9 { | 1 {"CreateResult": {" rallyAPIMajor": "2", " rallyAPIMinor": "0", "rerors": [], "Warnings": [], "Object": {" rallyAPIMajor": "2", " rallyAPIMinor": "0", " ref"; "https://rally1.rallydev.com/slm/webservice/v2.0/defect/80802669328", "refObjectUUID": "fe80ef1e-f461-49C7-b29e-c4118180af8e", "objectVersion": "1, " refObjectName": "Defect attached to testcase using API", "CreationDate": "2016-12-1217:25:18.2712", "CreatedAt": "just now", "ObjectID": 80802669328, "objectUUID": "fe80ef1e-f461-49C7-b29e-c4118180af8e", "VersionId": 1", "Subscription": {" rallyAPIMajor": "2", " rallyAPIMajor": "0", " ref": "https://rally1.rallydev.com/slm/webservice/v2.0/subscription/384103989", " ref0bjectUUID": "S281359c-630c401e-90bf-49216ae17b2d", " ref0bjectName": "CA Technologies", " type": "Subscription". "Worksnace": {" rallyAPIMajor": "2", " rallyAPIMinor": "0", " ref": | • |
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| Views: All Defects | | | |
| ID A Name Requirement Severity Priority State | Target Build Fixed In Submitted By Owner | NAME * | |
| # All V All V All V | Type to Filter V Type to Filter | V Filter Defect attached | to testcase using API |
| DE276903 Cannot undo merge US218677: Merge Tasks 3 - 3 - Non - Critical 2 - 2 - High Attention Submitted | Daniel Mazzei | 🔁 🖻 🔲 STATUS | |
| DE276904 Error merging more than two tasks US218677: Merge Tasks 3 - 3 - Non - Critical Submitted | Daniel Mazzei | Ready | Blocked |
| DE1049108 Defect attached to testcase using API Submitted | | | |
| DE1049135 Defect attached to testcase using API Submitted | | COLOR | |
| DE1049137 Defect attached to testrase using API Submitted | | | |
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Daniel Mazzei

Engineering Services Architect Daniel.Mazzei@ca.com

