AD SWAT

DevTest 8.3

How-To

CA CAI

CA Application Test

CA Service Virtualization

Prepared by: Koustubh Warty

Date: August 2015

Table of Contents

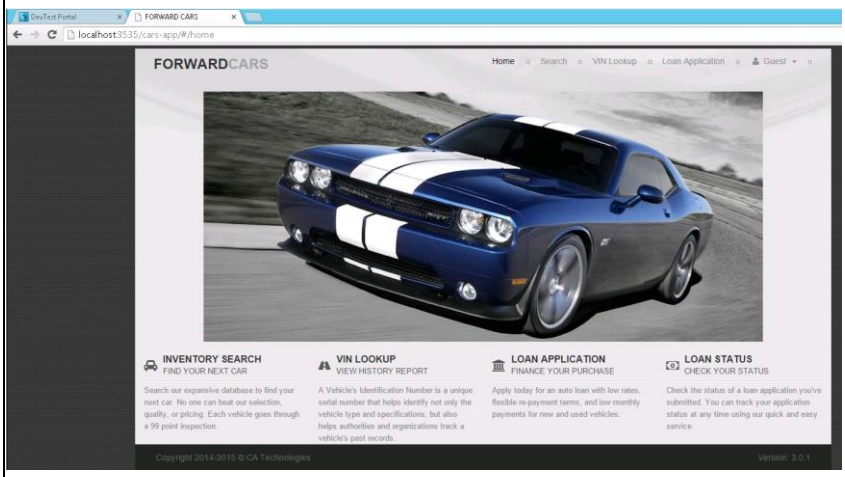
DevTest 8.3 – CA CAI **3**
New feature – Import/Export Recordings 3
New feature – Shelf Frames (Advanced) 9
New feature – Usage Count 13

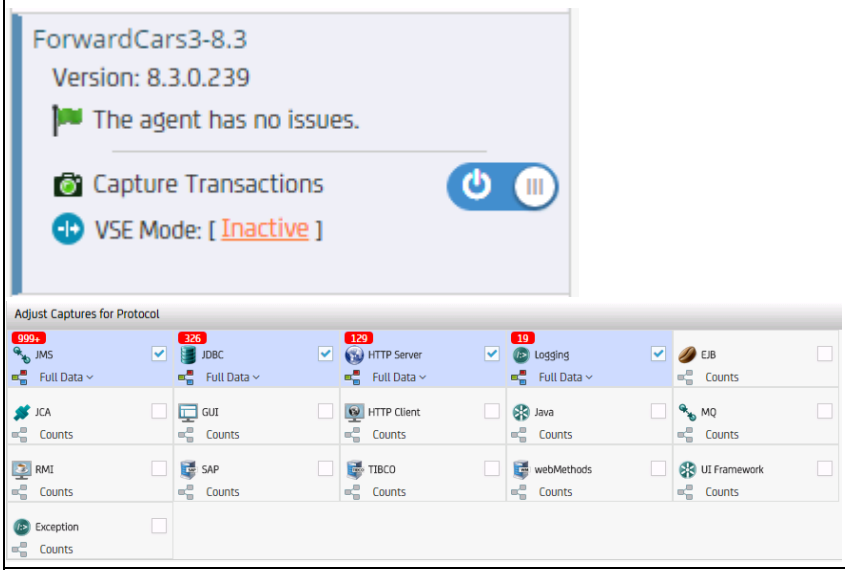
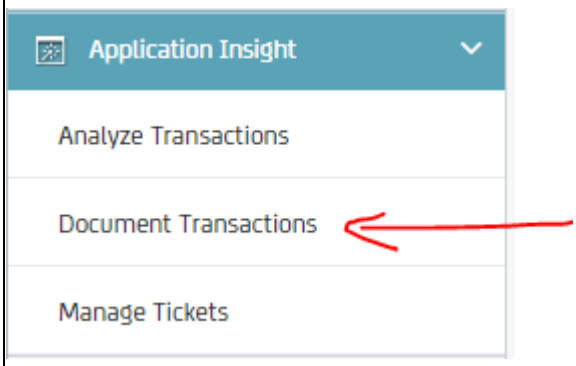
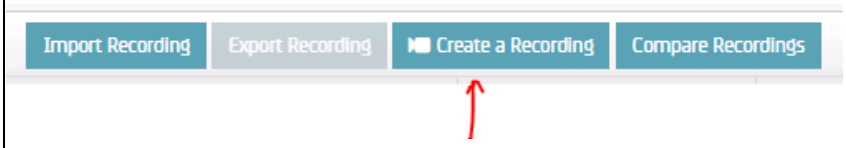
DevTest 8.3 – CA Application Test **15**
New feature – Test Execution time properties 15

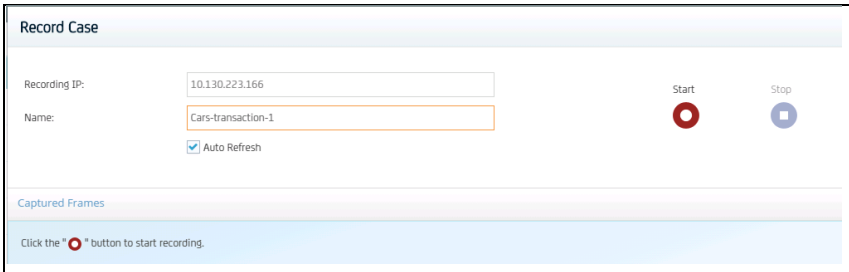
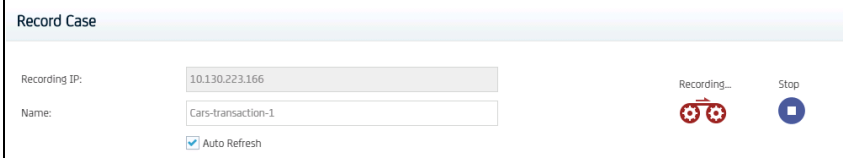
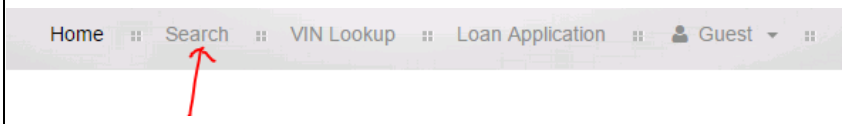
DevTest 8.3 – CA Service Virtualization **20**
New feature – Copybook User Interface 20

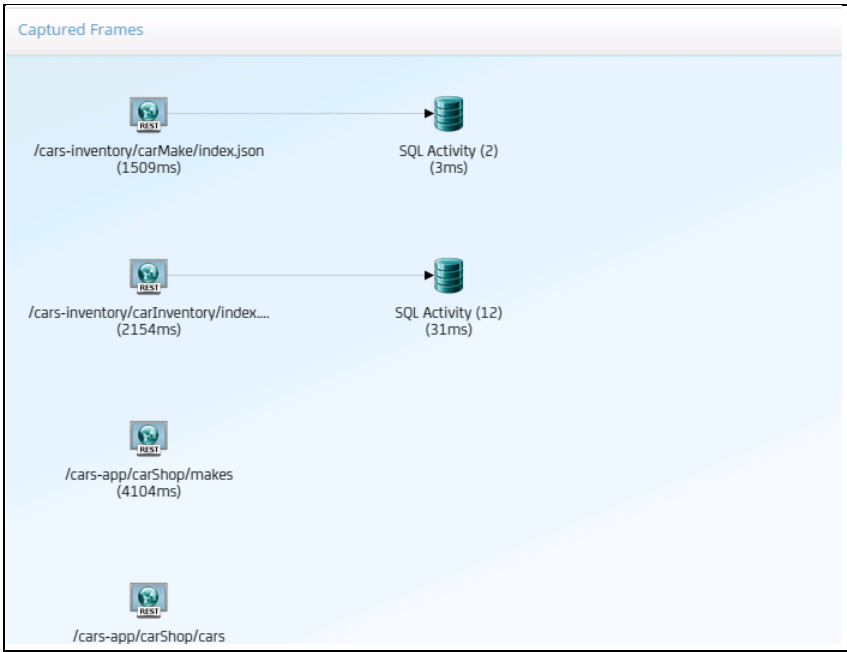
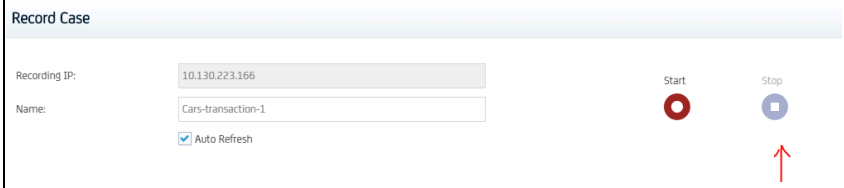
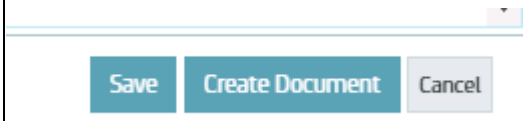
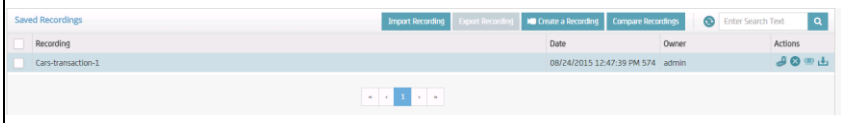
DevTest 8.3 – CA CAI

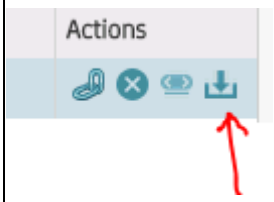
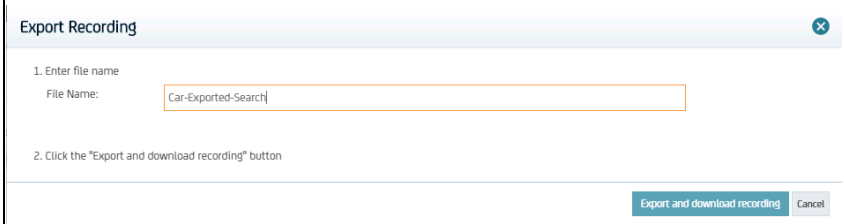
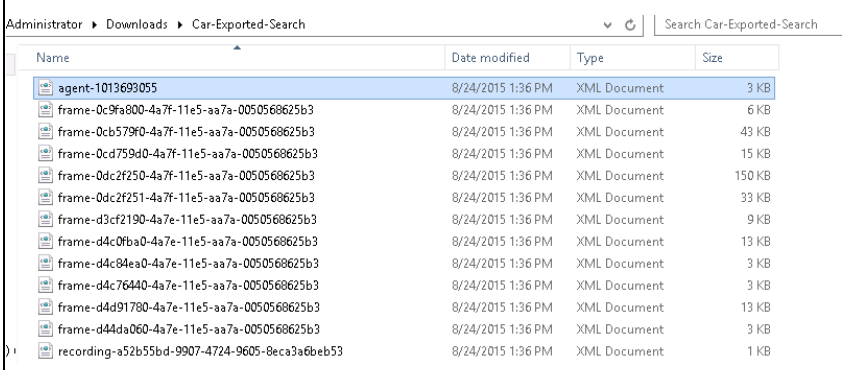
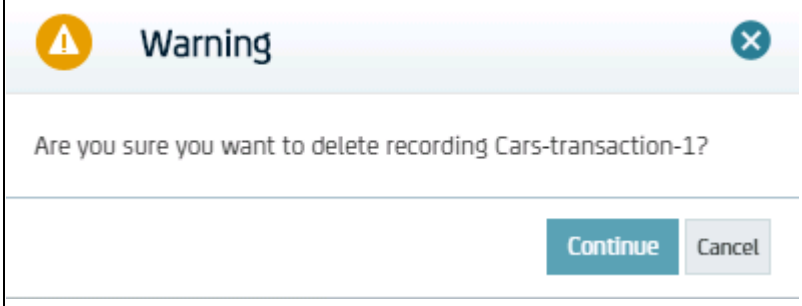
New feature – Import/Export Recordings

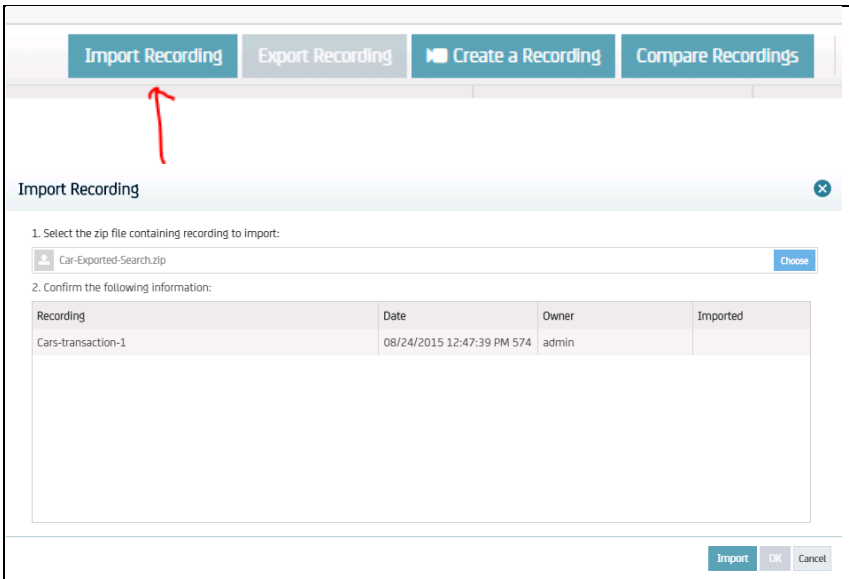
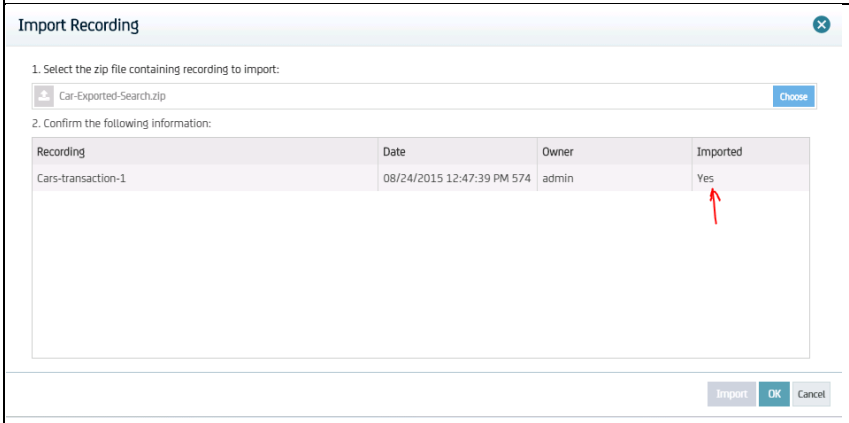
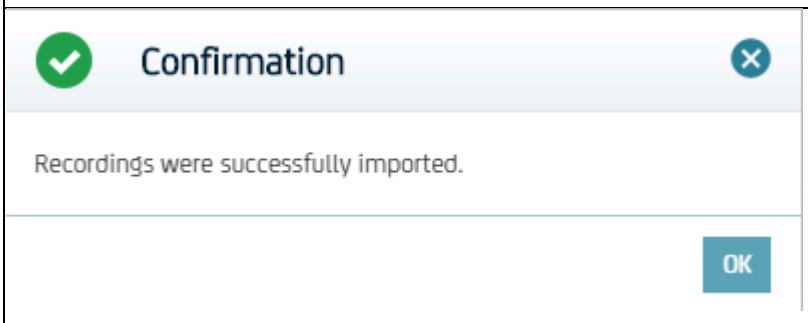
	Starting with DevTest 8.3, we have the ability to import and export recordings created in CAI
	Using an application called Forward Cars that is deployed on Tomcat 7.0.55. Configured this app with the CAI agent. So when using this app, CAI agent will capture the transactions in the Forward Cars app.

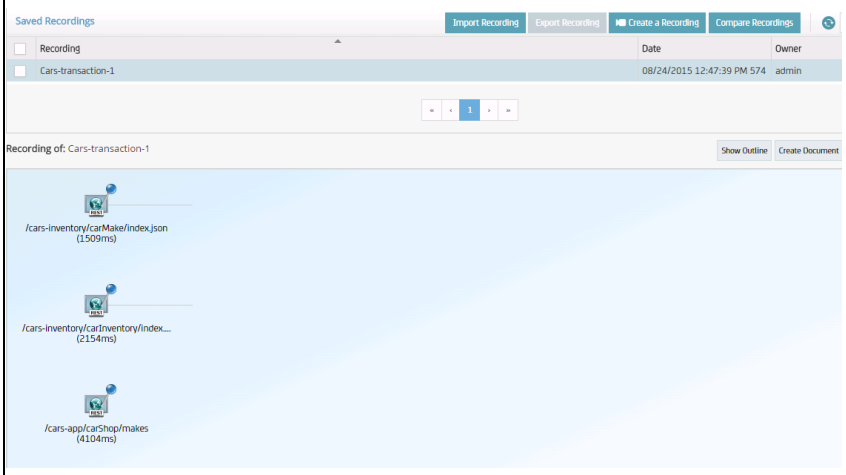
	Verify that the Agent is configured properly to display Full Paths for the following – JMS, JDBC, HTTP Server and Logging
	Logged into the DevTest Portal as admin/admin. Click on Document Transactions under Application Insight.
	Click Create Recordings to enter information for a new recording scenario

	By default the Recording IP shows the local browser address. This should be good for this recording scenario. Enter a name for this recording say 'Cars-transaction-1'
	Click the Start icon to start the recording. Notice the Start icon changes to Recording icon
	Open the browser for your application, in this case the Forward Cars application. Click on the Search link to open the Search Page for various cars

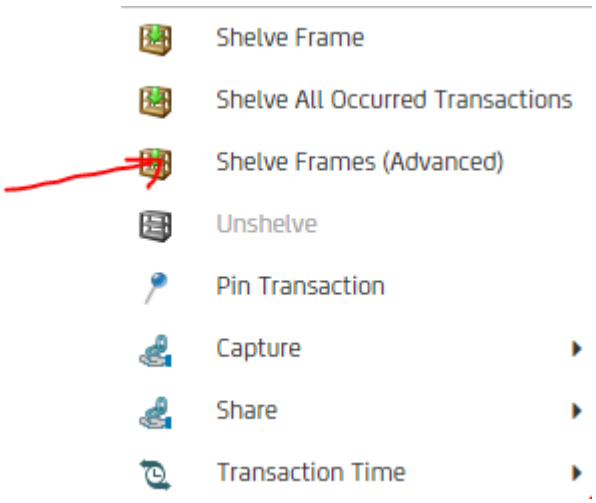
	Various frames will be captured.
	Click on the Stop icon to stop this recording. The Stop icon gets greyed out.
	Click on the Save button to save this recording.
	You will see a new entry in the Saved Recordings as shown.

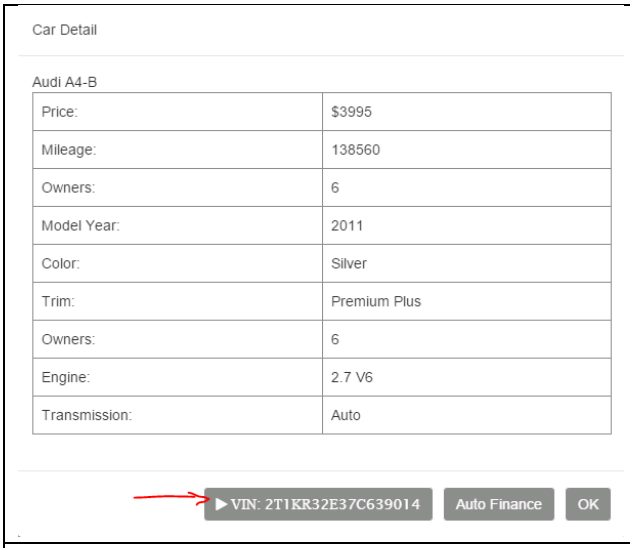
	To export this newly created recording, click on the Export Recording option under Actions as shown
	On the Export Recording popup, enter a name say 'Car-Exported-Search'. Click The Export and download recording button.
	Open the extracted zip to view its contents. There will be a bunch of xml files in there. - An agent file for the agent that captured this data - All the frames that were a part of the recording - Recording config file
	Now let us import this recording. Importing a recording with the same name is not permitted. So let's delete the existing recording 'Cars-transaction-1'. Select Continue to delete the recording

	Now import the same zip file that you exported a few mins back. Click on Import Recording and provide relevant information as required and click Import
	After the import is completed, the Imported column entry will show 'Yes' and the Import button will be greyed out and the OK button will be enabled. Click OK
	Success message is displayed. Click OK to see the imported recording.

	Imported Recording details are displayed

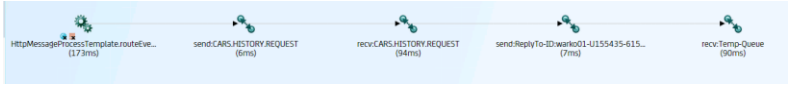
New feature – Shelf Frames (Advanced)

	This new feature lets you shelf the same category of transaction frames from the following options – - by selecting frames from the list - from search results by selecting the frames from the list

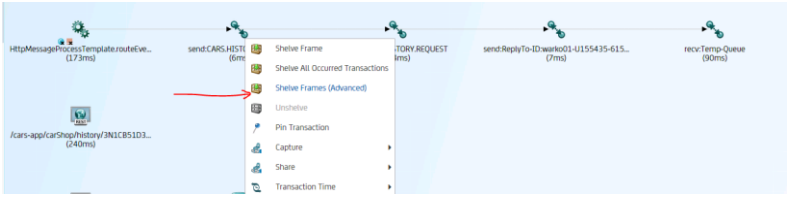


In the Forward Cars UI, click on the Search link to bring up the list of available models/makes. Do a ***couple of searches*** by clicking on the links on the left. Make sure you click on the VIN buttons of those cars to get more information on the car.

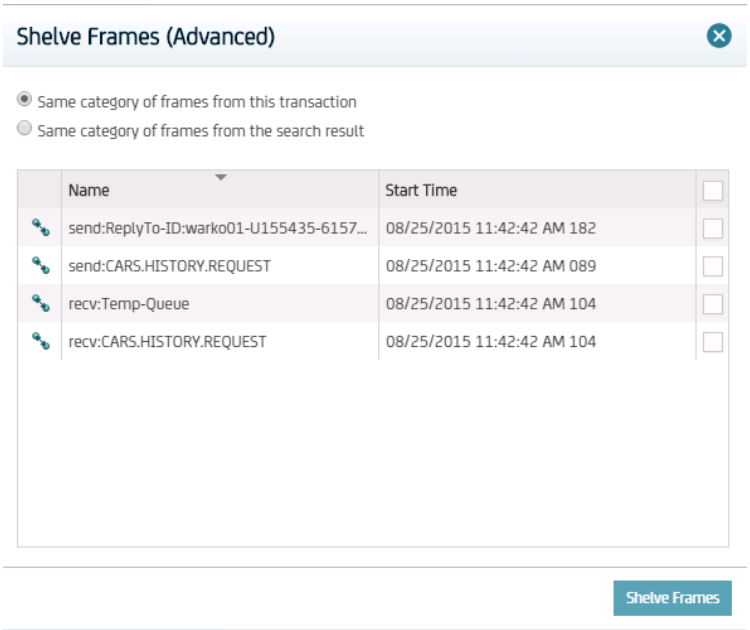
In the DevTest Portal, you should see all those new transactions show up which you performed in the previous step. Make sure you are in the List view as shown



Now let's change the view to Graphical. For our example, let's locate the JMS category frame as shown.

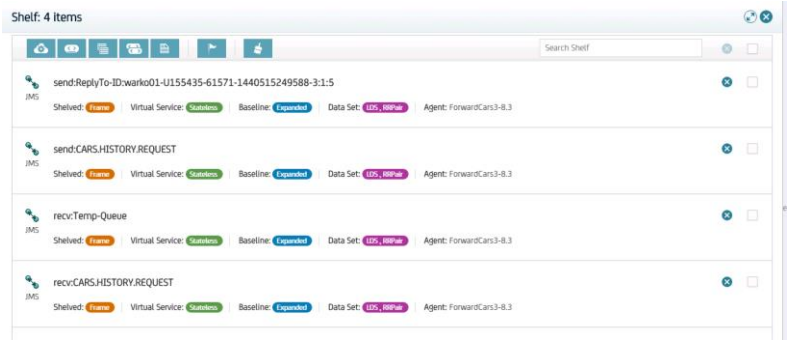


Let's select the JMS category here. Right click on any of the JMS category frame and select 'Shelve Frame (Advanced)'

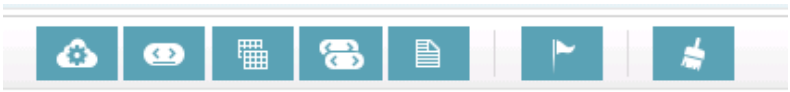


This opens up the config window. As expected you will see all the same category frames for this transaction which is the default option. In this case, the category selected is JMS as shown

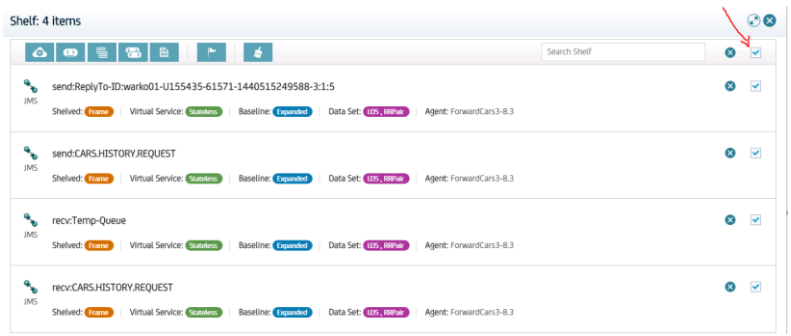
Click on Shelve Frames to add the 4 frames to the shelf.



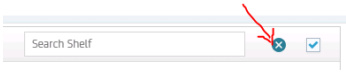
Notice the POI is created for each frame and a look at the shelf will show you the result of the above.



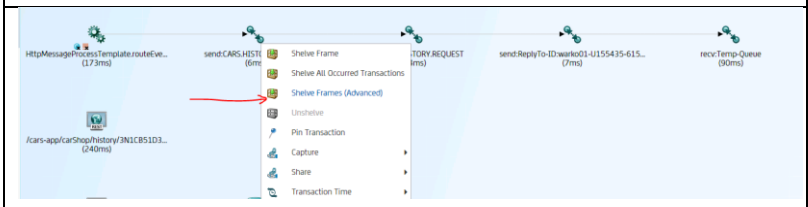
Based on your requirement now you could create the Virtual Service or Tests or RR pairs, etc

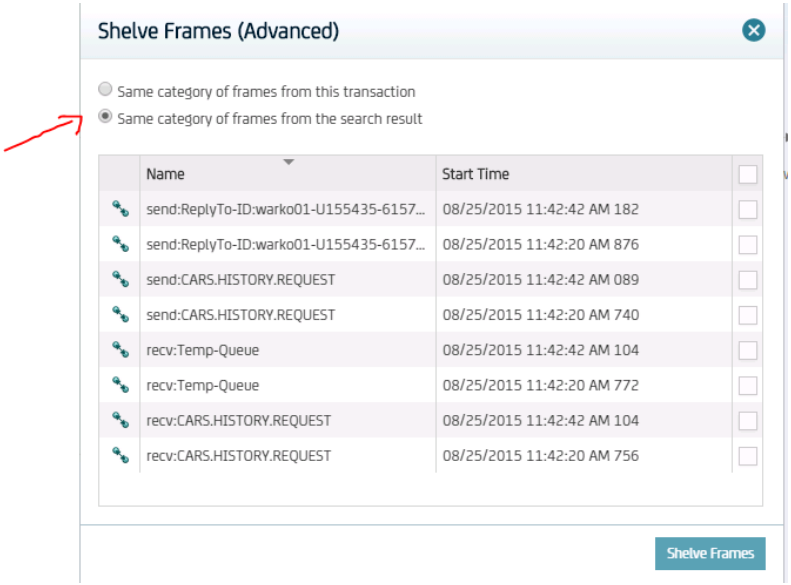


- For now let's remove all the frames from the Shelf. Check the box at the top on the right that selects all the frames for removal. Then click the



to remove the frames. At this time the shelf will be empty.



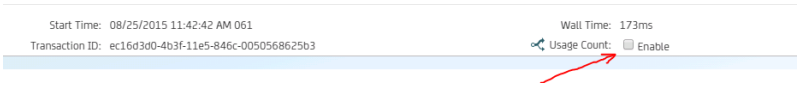
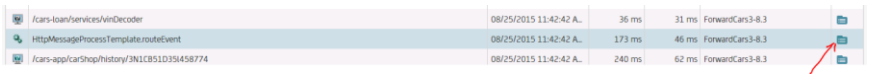
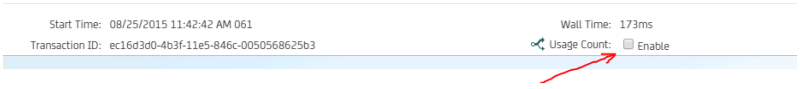
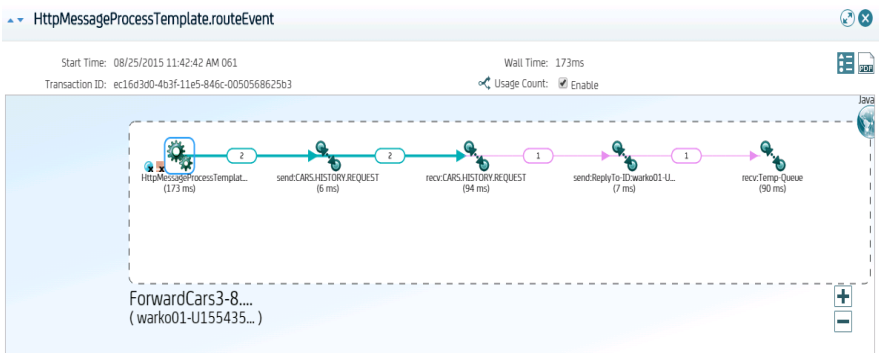


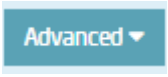
Let's go back to the graphical view and on the same transaction, select the same frame as last time and select the same Shelve Frames (Advanced) option to bring up the configuration page. On this page, select the second option about the Search result.

Changing the selection, changes the results. Instead of 4 frames you will now see multiple frames. This is because this time, based on your search filter, all the JMS category frames are selected.

As before you can click on Shelve Frames to add them to the Shelf and go about creating Virtual Services, Tests, RR pairs, etc.

New feature – Usage Count

	You can view the usage counts for identical and partial transaction paths by selecting the **Enable** checkbox for the **Usage Count** field at the top of the path graph.
	Let us use the same transaction that we used in the previous exercise. Click on for the selected transaction to open the Transaction Detail Page
 	Check the Enable box to display the counts between the frames. You will see the counts between various frames. Let's see how these numbers are calculated and shown The counts are based on the search results. The search results are displayed depending on the Search criteria entered by the user. By default it is 1 day. In this case, that has been

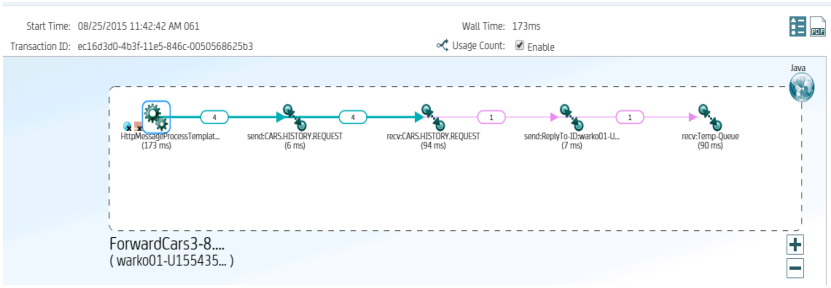
customized to 30 mins in this button 

.

As a result, count =2 means that the 2 frames connected have communicated with each other twice in all the search results within those 30 mins.

Click on Show Legend that appears once the Enable box is checked.

This will show the color coding which shows light color for lowest traffic and the brightest color for highest traffic.



Now let's change the Search filter to 1 day which means all the transactions over the past 1 day will be displayed.

Select the same transaction as before to view its Transaction Detail Page. Enable the count as done previously.

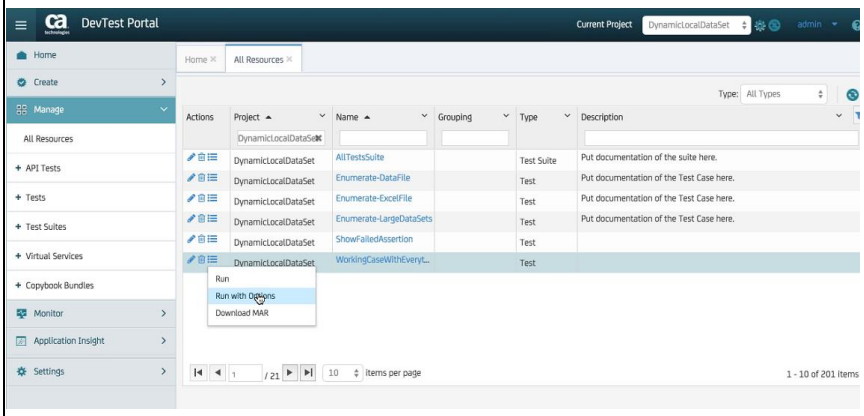
You will notice that the usage count numbers are different this time. The reason being that this time the Search is wider in terms of the transactions. A bigger number this time means that the frames have communicated with each other much more. Notice the color coding for the Usage Count 1 and 4.

DevTest 8.3 – CA Application Test

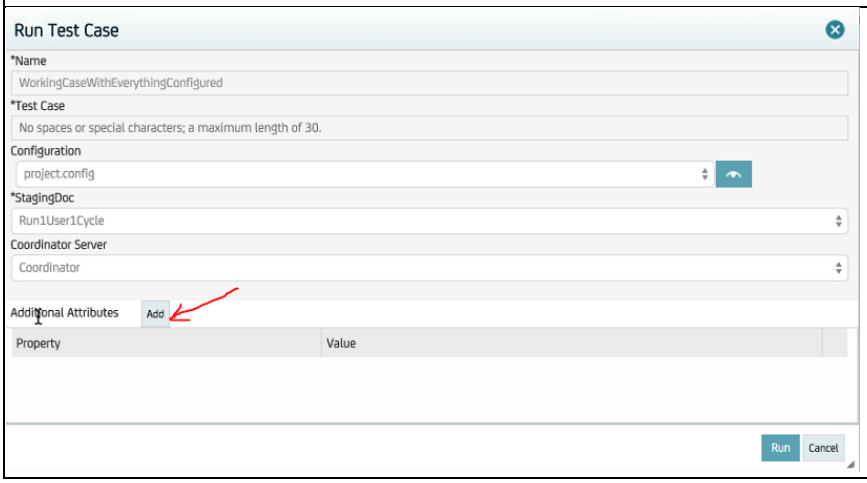
New feature – Test Execution time properties

As a part of 8.3, added a feature that assists in summarization of the execution results of test cases provided you have access to the existing Reporting Console.

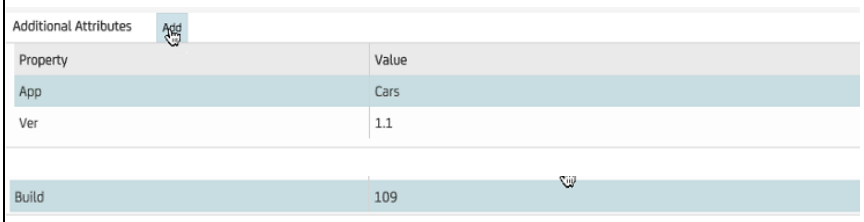
Benefits - Create/run reports results summarized by user defined properties. Filter it based on existing properties or also custom properties is now supported.
Any name value pair can be passed during staging the test. Then from the Reporting Console, you can filter based on the custom properties.
Another thing you can do is to override the existing properties in the configuration files.



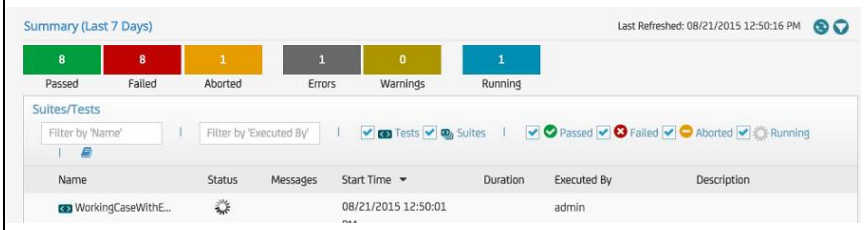
In the DevTest Portal, searched for an existing Test case in the All Resources link. Single click and select Run with Options.



On the Run Test Case screen, click on the Add option to add a new name-value pair.

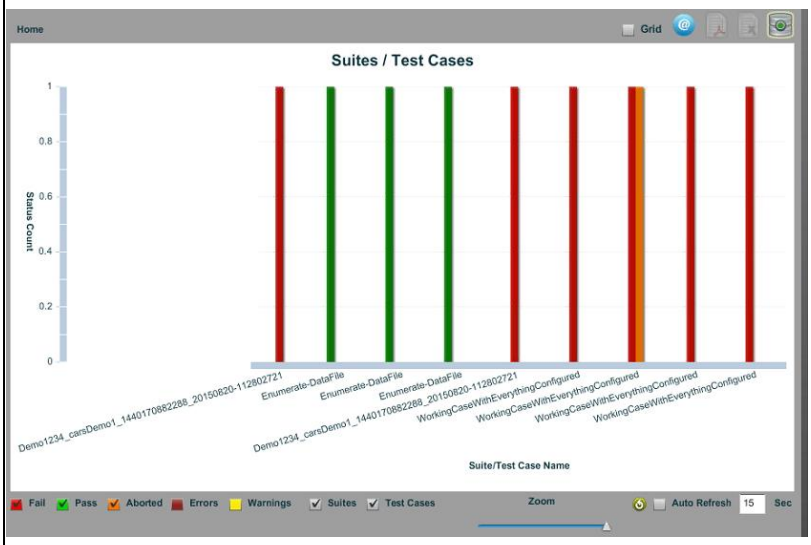


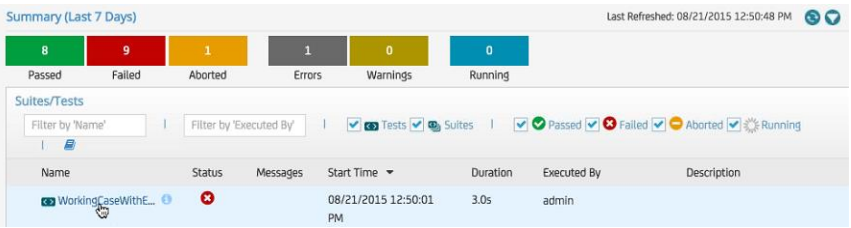
Added 3 new name value pairs as shown. Now click the Run button to run this test case.



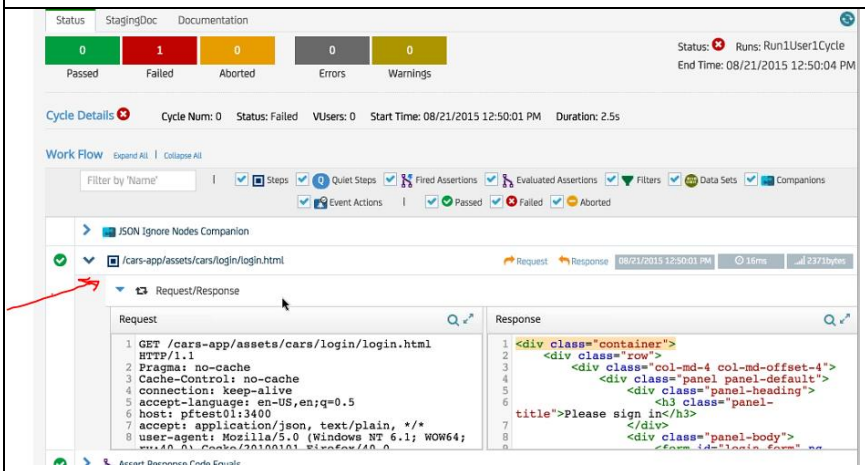
Once the test case completes go to the Reporting Console

You will see the 3 custom name-value properties in the dropdown box of the Filter.

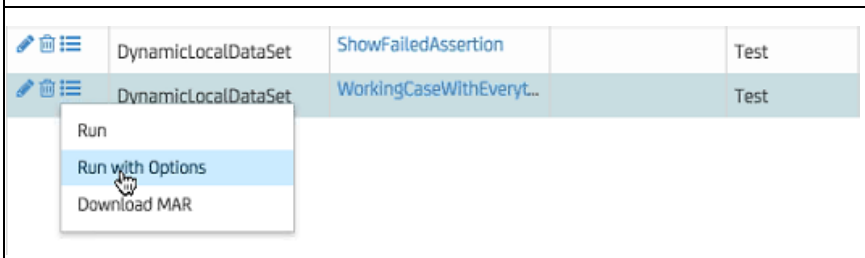
	Select the parameter name App and the default value of Cars. Click the Add button to select this filter.
	You will see the result on the right side with the execution result of the test case that were found based on the filter selected. Similarly you can add the other 2 params as well and filter based on all the 3 params as required.
Now let's look at how you can override an existing property during staging of the test case	



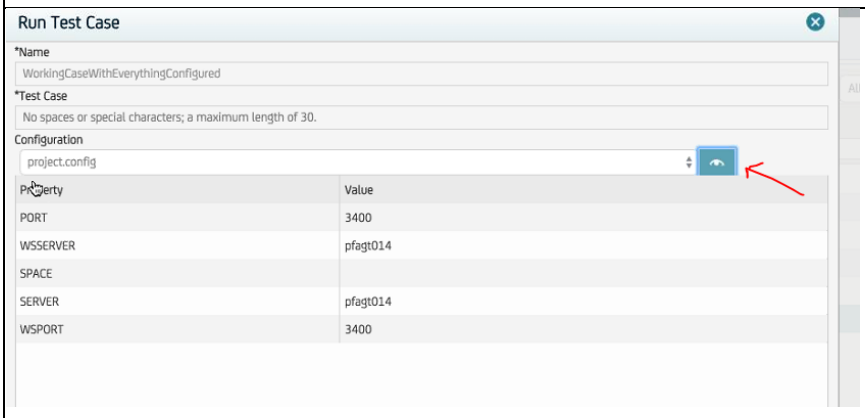
Back in the DevTest Portal's Monitor tab. Click on an existing test case to drill down into the various steps



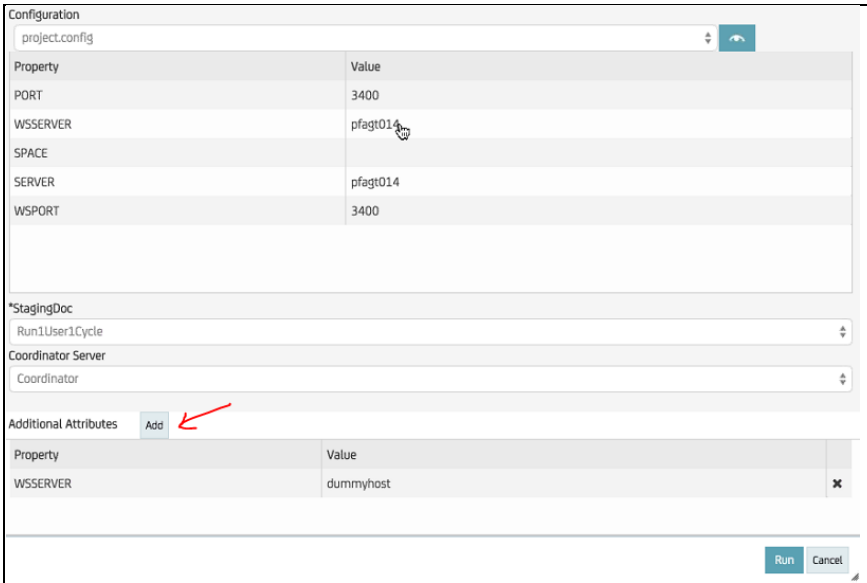
Then select a step that ran against a particular server that was configured in the config file.

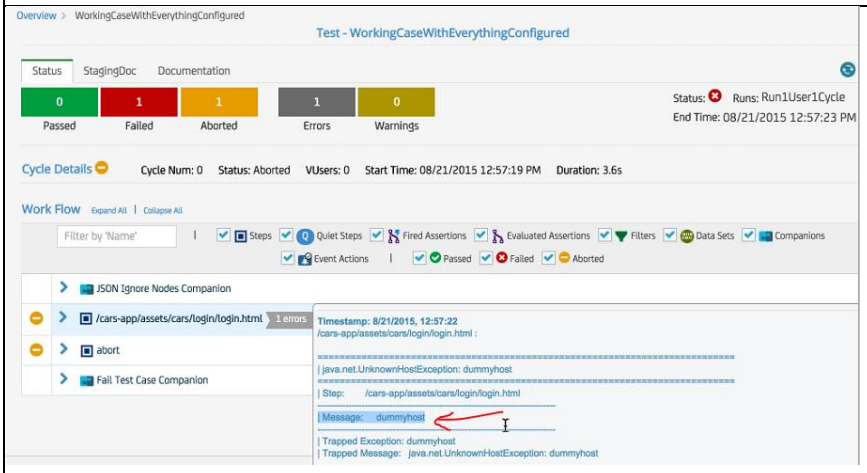


Let's rerun the same test case as before



In the Run Test Case window, click on the icon shown to bring up the list of params in the project.config file. Notice the WSSERVER parameter with an existing value. We will now update this parameter.

<table>
<tr>
<td> 
</td>
<td>Now click on the Add button in the Additional Attributes area and add a property name with the same name as in the project.config for the WSSERVER parameter and provide a value. Notice in this case, we are providing some name to show that the substitution works at runtime.

Click Run.</td>
</tr>
<tr>
<td> 
</td>
<td>Once the test starts running, it would fail at the first occurrence of the WSSERVER with the bad host name.

Note that if you give it the correct name of the host, it should run correctly!</td>
</tr>
</table>

DevTest 8.3 – CA Service Virtualization

New feature – Copybook User Interface

The DevTest Portal has a new capability as a part of 8.3 release for Copybooks. You can now load and edit copybooks, create mapping files and save them for use in a Virtual Service recording.
Some of the features include –

- Direct importing and navigating of copybooks, mapping files and bundles of the copybooks + mapping files in the DevTest Portal
- Ability to "parse" Copybooks to error check prior to use. This includes smart error messages + quick ability to fix the copybook error within our user interface
- Automatic error checking of mapping file entries with the ability to view the code directly for editing as necessary
- Ability to create new "Copybook Bundles" which include the copybook + the mapping files

Here is the link that takes you through the recording -
https://catechnologies.webex.com/catechnologies/lsr.php?RCID=8e004f22d85342478e9be13d0f90d941 s