Introduction:

For enterprise architecture with clustered environment, it really becomes a challenge to define signatures for business transactions in CEM.

With the legacy approach of manually recording the transactions becomes **very time consuming** and **difficult to maintain the changes** with the next releases. So to overcome this problem, we can leverage the use of already created scripts of LoadRunner which could be imported using CEM utility and define a transaction in few steps.

Requirements:

We need the below items to generate, execute and define business transaction.

- 1. CEM Script Recorder Utility
- 2. CEM Port enabled for accepting imported script
- 3. LR script generated Extended Logs

Steps in Details:

Now we will see actions in detail.

- Install or download the 'CEM Script Recorder Utility' from CEM console under 'Tools' tab.
 Tips: If you don't have admin right on your local system to install the utility, just unzip the installer (for say using WinZip) and you can find the executable under directory '...\ScriptRecorderInstall\wily\cem\scriptrecorder\bin'
- 2. Generate the Extended logs from the LoadRunner script using the below steps -
 - During the Run Time settings, select the 'Extended Log Advanced Tracer' option as in the below snapshot. You can also select others in order to get Post parameters if any. Tips: Though it is recommended not to enable 'Parameter Substitution' or 'Data returned by server'; but I checked with all the options and it is working.

n-time Settings General - Run Logic - Pacing - Log - Think Time - Additional attributes - Miscellaneous - Network - Speed Simulation - Browser	General: Log	2
Browser Emulation Internet Protocol Proxy Preferences Download Filters ContentCheck Data Format Extension Configuration Chain Configuration	Hint Move the mouse over any item to see its description.	
	Use Defaults OK Cancel	Help

3. In the VuGen, since script would be including components of multiple clicks, you need to pick the URL\component specific to one click.

So for e.g. below is one of the high level flow which script is executing -Landing Page \rightarrow SignOn \rightarrow Searching Customer \rightarrow Clicking Details Tab \rightarrow Ending Session \rightarrow Log Off

Now this flow consists of more than one click as well as URL's. So to define business transaction for 'Clicking Details Tab' click, you need to know the specific URL as an identifiable component.

Below is the snapshot of the VuGen window where you can note down the line number for that particular Web URL in script. [Highlighted in Red]

So when your extended logs are generated, look for URL in the "Action.c(Line Number)". Here "Action.c" depends on what you have defined in the left panel highlighted in green in below snapshot.

The above activity will help to identify components in case your application is having Dynamic URL's.



4. Once the Extended logs (in .txt format) are generated, enable the EM port 8081 by editing *emjetty-config.xml* file.

Tips: For clustered wily environment, this change is required at CEM Stats aggregator collector.

Now run the Script recorder to import the script using the below syntax :

 ...\ScriptRecorderInstall\wily\cem\scriptrecorder\bin>scriptrecorder.exe -file

 Directory\TraceFile.txt -server CEM_Collector:8081

Tips: For standalone wily installation, instead of CEM_Collector, use EM server name.

6. The above script will bring the session under 'Recording Session' Tab as shown below.

System	Security Setup Administration Tools	5 CEM	_						
Recording Sessions									
Overview Business Applications Business Services		Specifications	User Groups	Correlational SLAs	Recording Sessions	Transaction Discovery			
Recording Sessions									
List of all recording sessions, sorted by date and time.									
New Stop Delete									
	Session Name	Date and Time	Author	Status					
	dp6215025-May-2015 03:22	May 25, 2015 3:22 Al	M dp62150	Stopped					
	vs0810525-May-2015 01:42	May 25, 2015 1:42 Al	M vs08105	Stopped					
	dp6215011-May-2015 03:31	May 21, 2015 5:11 Al	M dp62150	Stopped					
	SAO_SavingsSubmit_finalStep@Mar 5, 2015 2:45 AM	Mar 5, 2015 2:46 AM	cemadmin	Stopped					

7. Now out of all components, make that URL as an "identifying" and others in "included". Further promote and follow the next steps as mentioned in CA documents.

Abbreviations:

- CEM Customer Experience Manager
- LR Load Runner
- EM Enterprise Manager

Online Discussion References: https://communities.ca.com/message/241792291#241792291

https://communities.ca.com/message/241729696#241729696

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