

Siebel Test Automation - Trial Setup

Trial setup to create and run test scripts

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Public

Purpose statement

This document provides sample steps for enabling Siebel Test Automation and minimal setup needed to run Test scripts. It is intended solely to help you with brief set of steps gathered from user documentation to try and evaluate Siebel Test Automation in your development environments. You may use this in conjunction with “Testing Siebel Business Applications” user guide.

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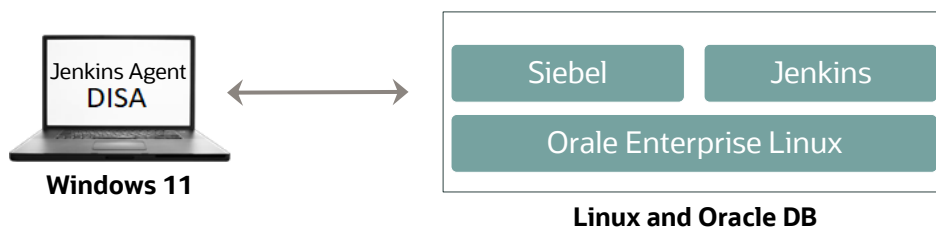
Purpose

This document is intended solely to help you assess the business benefits of adopting Siebel Test Automation and planning for trial or implementation.

Setup HW/VM requirements

1. Siebel server setup: You can use any combination of platform and database, preferably the latest version.
2. DISA setup: Windows 11.
3. Jenkins: Set up Jenkins on same server as Siebel Server or a Windows Server. You can skip this step if a Jenkins is already available.

Example:



Siebel Server Configurations

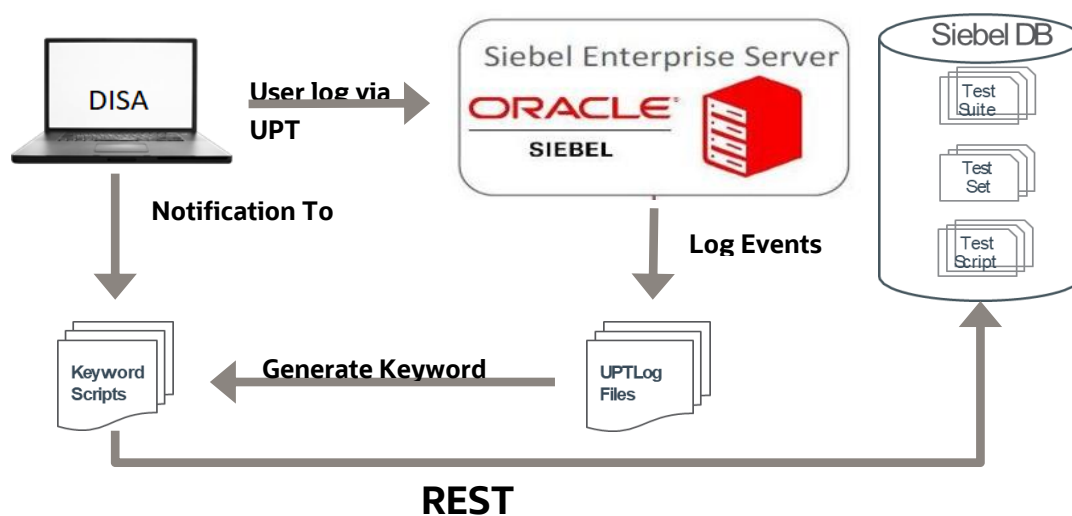
1. Enable the following Component Groups:
 1. EAI: Ensure **Configure EAI HTTP Inbound Transport** is enabled for your EAI component (Siebel Management Console → Active Profile Configuration → Basic Information).
 2. Workflow.
 3. Your application (Callcenter, eAutomotive, Sales, Public Sector, eCommunications, etc.).
2. Login as Siebel Administrator:
 1. Go to **Administration** → **Server Configuration**.
 2. Select **Enterprises** → **Profile Configuration**:
 1. Under **Enterprise Profiles**, select **AutomationSubSys**.
 2. In the **Profile Parameters** applet, set **CONTAINERURL** to <http://localhost:4730/siebel/jbs>.
 1. Pick the Port number as seen in section of
...\\gtwy\\applicationcontainer\\conf\\server.xml <Connector port="4730" protocol="HTTP/1.1".
 3. Select **Servers** → **Components**:
 1. Query your OpenUI application object manager, such as 'Call Center Object Manager (ENU)'.
 2. Scroll down to next applet and select **Parameters**.
 3. Query for **AllowAnonUsers** and set *Value on Restart* to **TRUE**.
 4. Query for **EnableAutomation** and set *Value on Restart* to **TRUE**.
3. Go to **Administration** → **Application**:
 1. Select **System Preferences**:
 1. Set **Enable UPT** to **TRUE**.
 2. Set **Enable UPT Context** to **TRUE**.
 3. Set **UPT Max Record Cache** to 100 (default of 1000 is fine as well).
4. Go to **Administration** → **Runtime Events**:
 1. Select **Action Sets** and query for 'Recording'.
 2. In the applets **Actions and More Info**:
 1. For **Bulk Mode**, uncheck 'Active' and set *Value* to **FALSE**.
 2. For **Unit Mode** and **Input Capture**, check 'Active' and set *Value* to **TRUE** for both.
5. Ensure the Workflow Process named **Testscript Import Workflow** is active. You may refer to Siebel Business Process Framework: Workflow Guide on how to activate Workflows.
6. Shutdown Siebel Server and Gateway Server.

7. Start Gateway Server and Siebel Server.
8. Ensure Siebel server is running, login to application, append 'AutoOn' to "...SWECmd=' in the URL, and check if Camcorder icon is showing up at top right corner among others.

DISA Setup

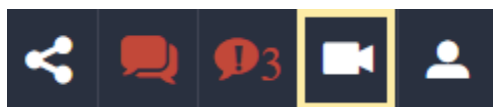
1. Download DISA from support.oracle.com.
2. Start DISA installation:
 1. Choose C:\DISA as the install folder.
 2. Proceed to **Configure DISA** screen:
 1. Leave the port number as **18443**.
 2. In the Whitelist, enter the Siebel Server name (FQDN), for example: machinename.xy.abc.com.
 3. To add more than one Siebel Server URL, separate the names with semicolon (;).
 3. In DISA Certificate page, if a keystore already exists, select **Generate Certificate using Existing Keystore** and complete the certificate.
3. Post-installation - In a Siebel HTTPS environment in which Transport Layer Security (TLS) protocol is enabled using a self-signed certificate, complete the following steps:
 - a. Following is a sample of the command to be run as an administrator at the command prompt:
 - i. `"C:\DISA\jre\bin\keytool.exe" -import -noprompt -trustcacerts -alias <testalias> -file "C:\certname.cer" -keystore "C:\DISA\jre\lib\security\cacerts" -storepass <changeit>`
 - ii. Note: DISA uses its bundled JVM in <DISA_INSTALL_DIR>\jre by default. Identify the JVM and use appropriate path for keystore.
 - iii. Update the following information at the command prompt:
 - <C:\DISA\jre>: Replace with the actual path of JVM
 - <testalias>: Replace the alias name with actual (if one was used before)
 - <C:\certname.cer>: Replace with the actual path of certificate
 - <changeit>: Replace with the trust store password; by default, the password is the string "changeit"
 - b. Restart DISA to make updates to truststore effective.
4. Copy appropriate web driver for your browser:
 1. Go to <https://selenium.dev/downloads/> → "Platforms Supported by Selenium" → Browsers.
 2. Check your browser version and download driver file according.
 3. Place it into the location <DISA Installation Location>\DesktoppIntSiebelAgent\plugins\SiebelTestAutomation\Drivers.
 4. Restart DISA:
 1. In the Task bar, right click the DISA icon and click exit.
 2. Start DISA.

Creating Test Scripts - Record/Playback (Unit Run)



To record a test script:

1. Launch Siebel URL in a browser.
2. In the URL, replace text after ". . ?SWECmd=" with **AutoOn**, and hit Enter. On refresh, the camcorder icon should be visible as below.



3. Click the camcorder icon and click the record button.
4. Start recording by invoking a screen from Sitemap or hamburger menu on the top left corner.
5. Complete a set of actions, for example, creating an Opportunity.
6. Click the camcorder icon again and click the stop button.
7. Click the save icon or the generate button. A confirmation popup appears conveying one script is generated.
8. Click icon with up and down arrow (⌵).
9. In the applet that appears in the right pane, click on file name, and update it with name of your choice, for example: 'Creating Opportunity'.
10. Click the **Play** button. This button will be enabled only on machine where DISA is installed and working properly.
11. A popup appears. Enter the password and hit enter. This will initiate playback of the recorded steps. Selenium will launch a new browser window and start with login.
12. Once the play back is completed:
 1. An html report appears displaying the step wise result for each action.
 2. Close the browser after reviewing.
13. Back to the script, click the **Import** button. A confirmation dialog appears displaying "1 Test Script record is created".
14. Navigate to site map, search for **Test Scripts**, and click the link.
15. In the list applet, search for the name of the script, for example: 'Creating Opportunity'. Review the Test Steps applet.
16. For Opportunity **Name** value (or any other object name) in the script, append a \$ symbol. For example: Opty\$. At run time, the framework replaces \$ with timestamp to make the name unique. Else, the script would fail if the record already existed in Siebel database.

Running Test Scripts in a Batch (Unattended or Lights-out Run)

To perform batch run with Jenkins:

1. Create Test Scripts using above sections.
2. Create one or more Test Sets and add Test Scripts.
3. Create a Master Suite and add the created Test Sets to it.
4. Navigate to **Test Execution** View. In the second applet (Form applet), click '+' to create a new record.
5. Select the Master Suite and select a **Build**.
6. From the Applet menu, select **Save Record**.
7. Observe the new entries automatically added to **Server Credentials** and **User List** applets. These are fetched from the **Launch** Test Steps from each of the Test Scripts in the Master Suite.
8. Select **Application Type** based on the browser you want to use. For example: Select **Desktop_Chrome** for Chrome browser running on Windows desktop. Replace the URL placeholder text with actual URL.
9. In the User List applet, enter Passwords.
10. Click **Schedule Run** button. It will take a minute to process, attach the required files for automation run (Attachments Applet), change status to **Requested** and makes the record read-only.

Batch run via command line (without Jenkins)

To perform batch run through command line without Jenkins:

1. Open Command prompt to run in Administrator mode. After ensuring folder paths are correct, run following command on DISA machine:
 1. `java -jar %DISA_DIR%\DesktopIntSiebelAgent\plugins\SiebelTestAutomation\Framework\KWDPresetup.jar /d <DISA home> /j <User id> /g <password> /r <Siebel Web Server URL> /c <EAI Component> /n <DISA machine name> /p "parallel=<1 or n> reportLevel=<0 or 1 or 2 or 3> runReference=<Run Reference used in Test Execution>"`
 1. *Example: java -jar C:\DISA\DesktopIntSiebelAgent\plugins\SiebelTestAutomation\Framework\KWDPresetup.jar /d C:\DISA /j SADMIN /g ldap /r https://siebelserver.xy.abcd.com:16690/siebel/ /c /app/eai/enu /n machinename.xy.abcd.com*
 2. */p parameters are optional and can be omitted altogether.*
 1. *Default: /p "parallel=1 runReference=<blank>"*
 3. *This will start the batch run on the machine.*
2. Once run is completed, results will be available in **.../TestExecutions/<Run id>/Reports** folder and uploaded to Test Execution record Attachments applet.

Rolling Back Settings and Disabling Automation

Once POC is completed, you may disable test automation in Siebel instance (including recorder icon):

1. Select **Enterprises** → **Profile Configuration** → clear **AutomationSubSys**.
2. **Administration - Server Configuration**: Select **Servers** → **Components** → Specific OM's Parameters (say Callcenter, etc):
 - a. Set **EnableAutomation**=False
 - b. Set **AllowAnonUsers** = False
3. **Administration – Application** → **System Preferences** → Set **Enable UPT** and **Enable UPT Context** to False.
4. Go to **Administration - Runtime Events**
 - a. Select **Action Sets**, query for **Recording**.
 - b. Below, in the applets Actions and More Info:
 - c. Uncheck 'Active' for **Unit Mode** and **Input Capture** and set Value to FALSE for both (This can be based on the choice to enable UPT in production or not, but recording of Test Script needs these settings to be TRUE).

Note: The Siebel Server and Gateway need to be bounced (restarted) after above changes.

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