Oracle® Application Testing Suite

Release Notes

Release 13.3.0.1

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July 2023

Release Notes

This document includes updated information for Oracle Application Testing Suite version 13.3.0.1. The information in this document is more up-to-date than that in the manuals. Many of the issues outlined in this document will be corrected in upcoming releases. If you have any questions or problems, please contact our support group at https://www.oracle.com/support/.

Contents

This document has the following sections:

New Features and Updates in this Release

This version includes maintenance improvements to the existing features as well as new features outlined below.

Oracle Application Testing Suite 13.3.0.1 July 2023 CPU - New Features and Updates

- **New Oracle Universal Installer for Oracle Application Testing Suite** - The Next Generation Oracle Universal Installer uses 64-bit JDK and fixes some of the known installation issues.

> **Note:**
>
> - The Oracle ATS product from the old installer needs to be removed before using the New Installer. However, database can be reused by selecting the *Existing DB configuration*.
> - If you are selecting the "*Existing DB configuration*" while configuring the database, then Master Password selected will not be having any impact and the login password for OLT, OTM and Admin server will still be having the old passwords.

- Changes to launch MS Edge browser with an additional parameter to prevent browser restart during load test record.
- Record and Playback support for Save as dialog in Chrome.
- Bug fix in the `closeAllBrowsers` API. The method now supports forceful termination of Microsoft Edge browser instance along with previously supported termination of Chrome and Firefox instances.
- Openscript record and playback browser support for `Chrome v113` and `Edge v113`.
- Bug fix in FormsAutomationEnabler.bat Command line tool:
  - `FormsAutomationEnabler.bat -enableForms true`, enables the latest installed versions of 32-bit and 64-bit JRE.
  - `FormsAutomationEnabler.bat -enableForms true -jre all`, enables all the installed JREs.

System Requirements

Oracle Application Testing Suite has the following system requirements:

Oracle Functional Testing/OpenScript

Oracle Functional Testing's OpenScript scripting platform has the following system requirements:

- Operating System (64-bit versions only): Windows 10, Windows 11, Windows Server 2016, Windows Server 2019, Windows Server 2022.
- Memory: Minimum 1 GB
- System: 64-bit processor, 2.6 GHz or faster
- Disk Space: 4 GB minimum
- Browsers: Firefox (64-bit ESR) 102.x; Chrome; Microsoft Edge.
- Oracle E-Business Suite: Oracle E-Business Suite Release 12 (Forms 10g) running on Java SE Runtime Environment 8.

Oracle Load Testing

Oracle Load Testing has the following system requirements:

- Operating System (64-bit versions): Windows 10, Windows 11, Windows Server 2016, Windows Server 2019, Windows Server 2022, Oracle Enterprise Linux 5.x, 6.x, 7.x. Windows Server 2016, Windows Server 2019, Windows Server 2022 are supported systems for functional test-type scripts during load tests.
- Memory: Minimum 2 GB.
- System: 64-bit processor, 2.6 GHz or faster.
- Disk Space: 10 GB minimum free (at least 3 GB free on the system drive).
- Browsers: Firefox (64-bit ESR) 102.x, Chrome, Microsoft Edge.
- Database: Oracle EE 11*g*, EE 12*c*, XE 11*g*, 18*c*, 19*c*, 21*c*.
- Application Server: Oracle Fusion Middleware 12.2.1.4.0.
- Oracle Load Testing Agent also supported on Linux 64-bit, in addition to Windows 64-bit operating systems listed above.

> **Note:**
>
> These are minimum requirements only and actual requirements for the Oracle Load Testing Server will vary depending on the size and configuration of your load test. If you are running larger load tests, of greater than 1000 Virtual Users, you should consider deploying Oracle Load Testing on a faster server class machine with additional RAM recommended.

> **Note:**
>
> Oracle recommends running the Oracle Load Testing Server and Agents on separate systems for production load testing. The amount of memory required on the Oracle Load Testing Agent systems may increase based on the number of Virtual Users that will be assigned to run on each Agent. For more information, visit the QA/Testing Technology Center on Oracle Technology Network or contact your Oracle representative.

Oracle Test Manager

Oracle Test Manager has the following system requirements:

- Operating System (64-bit versions): Windows 10, Windows 11, Windows Server 2016, Windows Server 2019, Windows Server 2022, Oracle Enterprise Linux 5.x, 6.x, 7.x.
- Memory: Minimum 2 GB.
- System: 64-bit processor, 2.6 GHz or faster.
- Disk Space: 10 GB minimum free (at least 3 GB free on the system drive).

- Browsers: Firefox (64-bit ESR) 102.x, Chrome, Microsoft Edge.
- Database: Oracle EE 11*g*, EE 12*c*, XE 11*g*, 18*c*, 19*c*, 21*c*.
- Application Server: Oracle Fusion Middleware 12.2.1.4.0.

> **Note:**
>
> These are minimum requirements only and actual requirements for Oracle Test Manager will vary depending on the quantity of test assets stored and number of concurrent users accessing the application. If you have a large quantity of test cases, requirements or issues stored and/or are deploying Oracle Test Manager for a team greater than 10 users, you should consider deploying Oracle Test Manager on a faster server class machine with additional RAM recommended.

Additional Notes

The following are additional notes about system requirements:

- The Oracle database must be downloaded and installed separately before the ATS download and install.
- System memory requirements do not take into account other processes that may be running and using memory on your system, reducing free uncommitted memory available.
- When installed on the same machine, Oracle Load Testing and Oracle Test Manager will run on the same server and use shared system resources. Oracle Functional Test/OpenScript is a separate application that has its own memory and CPU requirements.
- Oracle Load Testing allows you to distribute your Virtual Users to run from remote Agent machines. Users must install the Agent-Only Remote Agent install component on their Agent machines to enable this functionality.
- When recording and playing back EBS/Forms functional test scripts, all JRE Plug-in security dialogs are automatically suppressed. Unsigned, self-signed and other security vulnerable applications can be automatically allowed to run.

Installing the Oracle Application Testing Suite

See the *Oracle Application Testing Suite Installation Guide*.

Manual Browser Configuration

This section lists the manual configuration which would enhance the overall usability of the application. All the configurations listed are optional.

1. **Google Chrome Policies**
   - **AutoOpenFileTypes**:

This policy sets a list of file types that should be automatically opened on download..

```
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Google\Chrome\AutoOpenFileTypes
```

Create a new String with key in numerical order starting from 1 and value of the extension, which needs to be auto opened. `Eg. jnlp`.

- **AutoOpenAllowedForURLs**
  A list of URLs to which `AutoOpenFileTypes` will apply to.

```
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Google\Chrome\AutoOpenAllowedForURLs
```

- **PopupsAllowedForUrls**
  Setting the policy lets you set a list of URL patterns that specify the sites that can open pop-ups.

```
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Google\Chrome\PopupsAllowedForUrls
```

- **SafeBrowsingAllowlistDomains**
  Setting the policy to Enabled means Safe Browsing will trust the domains you designate. It won't check them for dangerous resources such as phishing, malware, or unwanted software.

```
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Google\Chrome\SafeBrowsingAllowlistDomains
```

> **Note:**
>
> For more details of Google Chrome policies, refer to the Google Chrome Official Documentation

2. **Microsoft Edge Policies**

   - **AutoOpenFileTypes**
     This policy sets a list of file types that should be automatically opened on download. You can use the `AutoOpenAllowedForURLs` policy to restrict the URLs for which these file types will be automatically opened on.

```
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Edge\AutoOpenFileTypes
```

   - **AutoOpenAllowedForURLs**
     A list of URLs to which `AutoOpenFileTypes` will apply to.

```
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Edge\AutoOpenAllowedForURLs
```

- **PopupsAllowedForUrls**
  Define a list of sites, based on URL patterns, that can open pop-up windows.

  ```
  HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Edge\PopupsAllowedForUrls
  ```

- **SmartScreenAllowListDomains**
  Configure the list of Microsoft Defender SmartScreen trusted domains. This means: Microsoft Defender SmartScreen won't check for potentially malicious resources like phishing software and other malware if the source URLs match these domains.

  ```
  HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Edge\SmartScreenAllowListDomains
  ```

- **ExemptFileTypeDownloadWarnings**
  You can enable this policy to create a dictionary of file type extensions with a corresponding list of domains that will be exempted from file type extension-based download warnings.

  ```
  HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Edge\ExemptFileTypeDownloadWarnings
  ```

> **Note:**
>
> For more details on Microsoft Edge policies, refer to the Microsoft Edge Official Documentation

Tutorial and Documentation for the Oracle Application Testing Suite

The Oracle Application Testing Suite includes product documentation in Adobe Acrobat .PDF format and online help for each application and utility. The documentation includes electronic versions of the Getting Started Guide, OpenScript User's Guide, Oracle Load Testing User's Guide, Oracle Test Manager User's Guide and Release Notes. The PDF files are installed to the <*installDir*>/docs directory.

You need the Adobe® Acrobat® Reader to open and view the documents. You can download the reader from the Adobe web site at `https://get.adobe.com/reader/`.

All of the components of the Oracle Application Testing Suite include comprehensive online Help. You can access the online help using the Help menu options inside of each product.

Known Problems, Limitations and Workarounds

This section lists known issues and workaround solutions for the components in the Oracle Application Testing Suite.

> **Note:**
>
> On Windows systems with UAC enabled, it is necessary to run commands from an elevated command line in order to restart services. If you try to run it from the **Start** menu, you will see the following errors in the cmd window:
>
> ```
> System error 5 has occurred.
> Access is denied.
> ```
>
> Run `services.msc` from the command line and restart the services from there. Windows systems with UAC enabled require administrator privileges to run commands from an elevated command line in order to stop and restart services.

Oracle Application Testing Suite

The following are known issues and workaround solutions for Oracle Application Testing Suite.

- After launching the installer (setup.bat in Windows or setup.sh in Linux), there will be a 2-3 min delay before the installation wizard is seen. This delay is mainly due to the background operation being performed by installer.
- **Problem**: After you install, you can't login to Oracle Load Testing, Oracle Test Manager, Oracle Administrator, etc.

  Resolution: During install, you will be prompted for a Master password to use in the various OATS products where passwords may be required. It's important that you remember or write down this password as it will be needed to login to these applications (username will typically be "default" or "administrator"). If you don't remember the password, you will have to re-run the installer and establish a new default password. The passwords can be changed and new user accounts added through the Administrator after install.

Oracle Load Testing

The following are known issues and workaround solutions for Oracle Load Testing.

- **Problem**: Some Virtual Users continue running after reaching the specified Test Goal in the Autopilot using **After a delay of** setting set to (00:00:00).

  Resolution: Increase the **After a delay of** (hh:mm:ss) setting to greater than zero. For example, 00:00:01.
- **Problem**: Data Transmission Interruption when loading many graphs or when trying to create graphs from very large data sets using Internet Explorer.

  Resolution: Reduce the Data Granularity in the **Advanced** tab of the graph options. Set the **Max. Data Points** to a lower value. For example, from 100 to 50.

- **Problem**: Siebel Functional Test script playback halts on Auto Fix dialog box waiting for user interaction causing script failure.

  Resolution: Verify the correct version of Java is installed. Workaround is to disable the "Auto fix" dialog box from appearing in the Seibel application, as follows:

  1. Log into the Siebel application.
  2. Site Map (globe icon in the upper right corner).
  3. Select **Administration** then **Server Configuration**.
  4. Select **Component Definitions**.
  5. Select **Query** (for the top grid).
  6. Search for `SCCObjMgr*` in the **Alias** field (assuming the Siebel application is CallCenter).
  7. Select **Query** in the bottom grid.
  8. Search for the `EnableClientHealthCheck` parameter.
  9. Set value to FALSE.
  10. Restart the Siebel service.
- **Problem**: Database ServerStats not working on non-US systems.

  Resolution: In <installdir>\DataCollector\properties, save a backup of the `jagent_service.properties` file.

  Open the `jagent_service.properties` file and find the line:

  ```
  JHP.commandline = -Xmx1024M -Dsun.java2d.noddraw=true -cp "${JHP.classpath}"
  -Dsun.net.inetaddr.ttl="0" oracle.oats.dc.fw.jhp.JHPmain ${JHP.server} -
  logsize 2000000 -logparts 2 "${JHP.installDir}\\DataCollector\\properties
  agents.properties"
  ```

  and change it to:

  ```
  JHP.commandline = -Xmx1024M -Duser.language=en -Duser.country=US -
  Dsun.java2d.noddraw=true -cp "${JHP.classpath}" -Dsun.net.inetaddr.ttl="0"
  oracle.oats.dc.fw.jhp.JHPmain ${JHP.server} -logsize 2000000 -logparts 2 "$
  {JHP.installDir}\\DataCollector\\properties agents.properties"
  ```

  Save the file and restart the agent starter service.
- **Problem**: Data Collector being forced to authenticate as Guest, no matter what credentials are used causing the error Logon failure: unknown user name or bad password.

  Resolution: Change the machine's local security policy to "Classic" to be able to discover Perfmon counters using the local account (Administrator). See the following for additional information:

  http://msdn.microsoft.com/en-us/library/ek2256kk.aspx
- **Problem**: If a Data Collector process (olt-dc-java-agent.exe) was running and you restart the Oracle Load Testing server and attempt to do something with ServerStats on the server (start a metric, for instance), it will start a second Data

Collector process that will not function properly because of the lock established by the first process.

Resolution: To address this, end the Data Collector process(es) manually, delete the lock file(s) (*$installDir*\DataCollector\bin*.pid), then repeat the ServerStats task attempted previously.

- **Problem**: If your script fails to playback successfully in Oracle Load Testing due to Windows authentication or other user permissions related issues with your application, this may be due to the login authentication of the Oracle Load Testing Agent Service. The Oracle Load Testing Agent Service which runs all the Virtual Users on a given Agent system will by default be installed to run under the Local System account. This may cause issues for certain applications if they block access to this account.

  Resolution: To address this, open the Oracle Load Testing Agent Service in the Services panel and change the login to run under a specific user with appropriate application permissions.

- When using the SNMP data source, new SNMP MIBs that users specify are uploaded to the Oracle Load Testing Server by default and can be accessed only through the Local Oracle Load Testing Data Collector running on that Server. Remote Oracle Load Testing Data Collectors cannot access these MIBs and users need to copy those over manually.

- **Problem**: When bringing up Oracle Load Testing (or Oracle Test Manager) you get the following error reported by the browser: "Unable to connect" or "Can't establish a connection to the server at localhost:8088."

  Resolution: This error indicates that the OATS Application Service is not running. Start (or restart) the OATS Application Service on the server machine where you installed OATS server. You will also want to make sure that the Oracle Database services are also running (this would be OracleServiceXE and OracleXETNSListener if you used the Oracle XE database).

- **Problem**: When bringing up OLT (or OTM) you get the following error reported by the browser: "Error 404--Not Found"

  Resolution: This error indicates that the OATS Application Service is unable to connect to the Oracle Database. You will also want to make sure that the Oracle Database services are also running and start/restart them if necessary (this would be OracleServiceXE and OracleXETNSListener if you used the Oracle XE database). Then restart the OATS Application Service.

- The remote ServerStats Data Collector requires the Agent-Only installation for the Remote Agent installed on the remote Data Collector machine.

Oracle Test Manager

The following are known issues and workaround solutions for Oracle Test Manager.

- Adding/editing test steps to a test case will not sync the changes with uncompleted Test Set Runs created before upgrading to 12.5.0.1. The Test Set Runs created after upgrading to 12.5.0.1, which are not completed, will reflect new changes made to test steps.

- Remote execution of JUnit tests or execution of JUnit tests is not supported on Linux. Support for this is planned for a future release.
- The icons in the Tree View for Test Plans, Requirements, Tests, and Issues are automatically assigned and cannot currently be configured by the Administrator.
- After configuring a new database in the Oracle Test Manager Database Configuration dialog, users must restart the Oracle Application Testing Suite Application Service in order for that database to appear in the Database dropdown list on the Oracle Test Manager login page.
- **Problem**: A warning message appears indicating there are duplicate custom field names when logging into the Administrator (http://hostname:8088/admin) to upgrade the OTM database.

  Resolution: The field name(s) listed in the warning message must be renamed before the upgrade can be completed. The field name(s) listed in the warning message will be different depending on each user's situation. Perform the following steps to rename the fields listed in the warning message:

  1. Make a note the duplicate field names in the message and click **OK** to dismiss the warning message.
  2. Connect to the OTM schema and execute the following SQL statement to find the `customfieldid`. In the example below, the query looks for the `customfieldid` for 'Cycle'. You will need to replace 'Cycle' with the actual field name that your upgrade is warning about. The query should return multiple results. Note the `customfieldid` for one of the results because it will be used in step 3.

     ```
     SQL> select customfieldid from "Custom_Field" where name = 'Cycle';
     ```

  3. The `update` statement below will change the custom field name for the referenced `customfieldid`.
     - Replace the name with another name that makes sense but is not a duplicate (i.e. 'Cycle1').
     - Replace the `customfieldid` with the value obtained from step 2.

     ```
     SQL> update "Custom_Field" set name='Cycle1' where customfieldid=32;
     1 row updated.
     ```

  4. Commit the change to save it.

     ```
     SQL> commit;
     Commit complete.
     ```

  5. Go to http://hostname:8088/admin and log into the OTM database again to upgrade it.
- **Problem**: Unable to delete Test Results for a Test executed in a Test Set after the Test Set has been deleted from the Test Execution tab (the Test Run appears in the Run History section of the Test on the Tests tab but the Run does not appear in the Delete Results list).

  Resolution: Delete the Test Results from the Run History section of the Test Set on the Test Execution tab before deleting the Test Set. If you delete the Test Set before deleting the Test Results from the Run History section of the Test Execution tab, the Test Results will still appear in the Run History section of the Tests tab.

However, the Test Result from the Test Set run cannot be deleted from the Run History on the Tests tab.

- **Problem**: Any chart report with the "Version" field as first field will not show any data in the data-view.

  Resolution: Do not use the "Version" field as first field.

- **Problem**: Unable to move tree nodes up beyond **Previous** indicator or down beyond **Next** indicator in the tree view. Move operation results in a "Move Operation Failed. Please ensure the node selection is valid." warning message.

  Resolution: Increase the number of displayed nodes in the user options. Select **Options** from the **Tools** menu, select **Tree Preferences** and increase the **Maximum Number of Displayed Nodes** value.

- **Problem**: Goto does not work for Tree grouped by "Run By" or "Las Run Status". This issue may occur after upgrade from Oracle Application Testing Suite pre-9.3x.

  Resolution: Perform the following updates against the Oracle Test Manager database:

  1. Stop ATS service.
  2. Open a command prompt.
  3. Type `sqlplus <schemaname>/<password><@service>`.
  4. When connected to the schema, paste following queries:

     ```
     UPDATE "Special_Field" SET SpecialFieldId=23, label = 'Last Run By'
     WHERE AttachedToTypes=8 and Name='runbyuser';

     UPDATE "Special_Field" SET SpecialFieldId=24 WHERE AttachedToTypes=8 and
     Name='duration';

     UPDATE "Special_Field" SET SpecialFieldId=25, Type=7 WHERE
     AttachedToTypes=8 and Name='rundate';

     commit;
     ```

  5. Type `quit` to exit from sqlplus.
  6. Type `exit` to close the command window.
  7. Start the ATS service.

- **Problem**: Exceptions occur or application hangs when attempting to export extremely large projects (projects exceeding 11,000 test cases).

  Resolution: For large databases, change Stuck Thread Max Time parameter (default value is 600, i.e. 10 min.) for the server using the following steps:

  1. Close all OATS applications.
  2. Open a browser and go to `http://localhost:8088/console/` (or `http://<server>:8088/console/`).
  3. Log into WebLogic Server (username "oats", password defined during OATS installation).
  4. Expand the **Environment** tree under **Domain Structure** (left pane).

5. Select **Servers**.
6. Click the AdminServer(admin) link under Servers (right pane).
7. Click the **Tuning** tab.
8. Change the value for parameter "Stuck Thread Max Time" to a larger appropriate value.
9. Click **Save** then restart the application server.

- **Problem**: Oracle Test Manager fails to playback certain OpenScript scripts completely.

  Resolution: The following additional steps are required in order to run the following types of OpenScript scripts from Oracle Test Manager:

  – Siebel Functional
  – Oracle Forms Functional
  – Web Functional scripts that rely on system input events, such as key press or mouse click
  – Web Functional scripts that display modal dialog windows

  It is necessary to run these scripts using an interactive desktop of a named Windows user account that is always logged in. See also "Command-Line Script Execution" for additional information.

  1. For Siebel and Oracle Forms, the named user's account must have visited the Siebel or Oracle Forms site at least once to ensure that all necessary ActiveX controls and plug-ins are installed in the named user's browser.
  2. On the Oracle Test Manager agent machine that will run the scripts, stop the "Oracle ATS Agent" service.
  3. On the Oracle Test Manager agent machine, login as the named Windows user account that will run the scripts. From a command prompt, run the following:

     > **Note:**
     >
     > For Windows systems, the command must be run using the elevated command line. From the Start menu, expand the Accessories, right click on the Command Prompt menu option and select **Run as administrator** from the shortcut menu.

     Windows:

     ```
     $installDir\agentmanager\bin\agentmanager.cmd
     ```

     Linux:

     ```
     $installDir\agentmanager\bin\agentmanager.sh
     ```

This command starts a Java executable running the agentmanager, it will not "run" the service. All output is logged to the agentmanager.log and the logs of individual agents.

If you get the following error then the 'Oracle ATS Agent' service has not been stopped.

```
java.lang.InterruptedException
 at java.lang.Object.wait(Native Method)
 at
oracle.oats.empstart.PortListener.getContRequest(PortListener.java:276)
 at
oracle.oats.empstart.EmpStartMain.parseRequests(EmpStartMain.java:1240)
 at oracle.oats.empstart.EmpStartMain.<init>(EmpStartMain.java:515)
 at oracle.oats.empstart.EmpStartMain.main(EmpStartMain.java:421)
```

Stop the 'Oracle ATS Agent' service and run the command again.

4. The named user account must remain logged into the system at all times that scripts will be run.

- **Problem**: When bringing up Oracle Load Testing (or Oracle Test Manager) you get the following error reported by the browser: "Unable to connect" or "Can't establish a connection to the server at localhost:8088."

  Resolution: This error indicates that the OATS Application Service is not running. Start (or restart) the OATS Application Service on the server machine where you installed OATS server.

  You will also want to make sure that the Oracle Database services are also running (this would be OracleServiceXE and OracleXETNSListener if you used the Oracle XE database).

- **Problem**: When bringing up Oracle Load Testing (or Oracle Test Manager) you get the following error reported by the browser: "Error 404--Not Found"

  Resolution: This error indicates that the OATS Application Service is unable to connect to the Oracle Database. You will also want to make sure that the Oracle Database services are also running and start/restart them if necessary (this would be OracleServiceXE and OracleXETNSListener if you used the Oracle XE database). Then restart the OATS Application Service. See the above note about stopping and restarting services on Windows systems.

Oracle Functional Testing - OpenScript

The following are known issues and workaround solutions for Oracle OpenScript.

- **Problem**: EBS/Forms and OpenScript both hang during recording.

  Resolution: Use of a network drive for storing scripts can cause the application to hang while recording EBS/Forms load scripts due to the volume of data being recorded and stored to the network location instead of a local disk. OpenScript writes all of the headers and content to the remote network drive that the application-under-test sends to the browser client. When recording into a remote drive, network limitations may limit the writing speed causing a large volume of data waiting to be written. This can cause an OpenScript out-of-memory error and

application hang. It is recommended to record EBS/Forms load scripts to a local drive or verify network bandwidth.

- **Problem**: OpenScript playback error occurs if the script contains UTF-8 characters. The failure may occur as a Replay Action failed and UTF-8 characters are converted to question mark (?) characters.

  Resolution: Set the OpenScript `-Dfile.encoding=UTF8` startup property as follows:

  1. Close OpenScript.
  2. Right-click the OpenScript startup icon/menu option on the **Start** menu (or Desktop icon, if available).
  3. Select **Properties**.
  4. Add the `-Dfile.encoding=UTF8` property setting to the end of the **Target** string on the **Shortcut** tab. The full **Target** string should be as follows:

     ```
     C:\OracleATS\openScript\OpenScript.exe -configuration
     openscript_configuration -vm C:\OracleATS\openScript\jre\bin\javaw.exe -
     vmargs -Xmx512m -XX:MaxPermSize=256m -Dfile.encoding=UTF8
     ```

  5. Click **OK** to close the OpenScript Properties.
  6. Restart OpenScript using the modified OpenScript Start icon/menu option (or Desktop icon) and playback the script.

- **Problem**: OpenScript captures HTTP requests that are for Google use when using Google Chrome to record HTTP module scripts. Some examples are as follows:

  ```
  www.google.com/searchdomaincheck
  ssl.gstatic.com
  safebrowsing-cache.google.com
  safebrowsing.google.com
  productforums.google.com
  www.googletagmanager.com
  www.youtube.com
  fonts.gstatic.com
  clients4.google.com
  www.youtube-nocookie.com
  ```

  Resolution: Define URL filters for unnecessary URL requests, a follows:

  1. Start OpenScript and open an HTTP module script.
  2. Select **OpenScript Preferences** from the **View** menu.
  3. Expand the OpenScript peferences and select HTTP under the Record preferences.
  4. Open the **URL Filters** tab.
  5. Click **Add**.
  6. Specify a name and URL pattern for each URL you do not want OpenScript to capture. Specify **Match** as **URL** and **Method** as **Wild card**.
  7. Click **OK** to save the filter.
  8. Repeat Steps 5 through 7 for each URL.

9. Click **OK** to save the preferences.

- **Problem**: OpenScript cannot check Float type values retrieved from a database table using == to check whether or not two values are equal.

  Resolution: Use a SQL statement such as "`select to_char(columnname) as columnname from table`" and check the values in OpenScript as String type.

- **Problem**: Login dialog is not recognized by Chrome browser during Web Functional test script playback.

  Resolution: Modify the script's navigation code to use the following URL format for the login navigation for Chrome browser playback (this format is supported by all browsers):

  ```
  String URL = "https://Username:password@WebURL";
  ```

  where *webURL* is the original URL needed for the login navigation.

- **Problem**: Automatic proxy configuration (**Preferences** - **OpenScript** - **Record** - **HTTP Module**) for Firefox may not correctly configure the browser proxy.

  Resolution: To record through Firefox, you should configure the browser proxy settings manually (Default: host=localhost, port=7777).

- **Problem**: Certain systems may have trouble launching the OpenScript Help (**Help** - **Help Contents**).

  Resolution: This can be resolved by configuring the help to open in an external browser window:

  1. From the Tester Perspective, select **View** - **OpenScript Preferences**.
  2. Click the "Clear" icon next to the filter text field in the upper left. Click the Help tree node and check the "Use external browser" box in the Help preferences.
  3. Click **OK** and relaunch OpenScript Help.

- **Problem**: When recording a functional testing script you get the following error: “Cannot connect to browser".

  Resolution: The browser did not come up in the required amount of time when you clicked the Record button. This could be because the machine was busy or the ATS OpenScript browser extensions for Chrome, Edge or Firefox were not loaded properly. You can try increasing the browser “Startup timeout" setting under OpenScript Preferences, General…Browser section. If that does not work, run the OpenScript Diagnosis Tool under OpenScript Help.

- **Problem**: When recording a functional testing script, you do not see any actions added to the script after recording.

  Resolution: The browser extension is not capturing events and sending them to OpenScript during recording. Run the OpenScript Diagnosis Tool under OpenScript Help. The Diagnosis Tool will attempt to correct any browser extension loading problems, and report any failures it encounters. You can also try switching the browser between Chrome, Edge or Firefox to see if that works better.

- **Problem**: When you record a Web load test script, you do not see any navigations added to the script after recording.

Resolution: OpenScript uses an HTTP proxy server between OpenScript and the target application when you record Web load test scripts. If your browser is accessing the Web via a proxy, you may need to chain that proxy through OpenScript's HTTP recording preferences. OpenScript will attempt to chain the proxy automatically for you using the browser's proxy settings. If you do still have problems recording HTTP navigations, check the “HTTP" Record preferences for network interface and proxy settings.

- **Problem**: When recording an Oracle EBS/Forms functional testing or load testing script, the browser appears to hang when loading the Oracle Forms applications and you are not able to continue.

  Resolution: The system you are using to record your script may not have the proper JRE version required to run the Oracle Forms applications. Before you start recording Oracle EBS/Forms functional testing or load testing scripts, step through the EBS/Forms transaction once in the browser stand-alone (i.e. while not recording) to make sure you have the proper JRE installed and confirm that the Forms applications run properly – then try to re-record your script.

Web Functional Test Recording with Firefox Troubleshooting

The following section describes Web Functional Test Recording with Firefox Troubleshooting techniques.

- When using the Firefox browser, you should disable or not install any add-ons into the OpenScript-created Firefox profiles.

Command-Line Script Execution

The following are tips, known issues, and workaround solutions for running OpenScript scripts from the Command-Line Interface (CLI).

- **Problem**: Playback does not recognize objects outside of the visible window area. (Note: this is also applicable to playback of scripts from the OpenScript UI.)

  Resolution: When playing back scripts, make sure the browser window is the same size as when the script was recorded. One way to ensure that the browser is the same size is to record the script with the browser window maximized, then add a `web.window("path").maximize()` method to the script code before playing back the script. Also, make sure the machine used to play back the script is set to the same screen resolution as the machine used to record the script.

- **Problem**: Playback does not recognize recorded keyboard actions.

  Resolution: When recording scripts for command-line execution, use mouse clicks instead of keyboard actions to interact with the application-under-test. For example, when filling in forms, click the mouse on the form fields before entering text rather than using the Tab key. Also, click the Submit button with the mouse rather than pressing the Enter key.

- **Problem**: Playback does not work with Remote Desktop minimized.

  Resolution: Make sure the Remote Desktop is visible/maximized before playback. Alternatively, you can add the `RemoteDesktop_SuppressWhenMinimized` value to

the Registry of the system from which you are running the command-line interface, as follows:

> **Caution:**
>
> The following procedures modify your system Registry. Modifying the system Registry carries risk of causing serious problems that may affect the operation of your operating system software. Use the information provided at your own risk.

1. Close any currently open Remote Desktop connections.
2. Select **Run** from the **Start** menu.
3. Type `regedit` and click **OK**.
4. Expand one of the following Registry keys depending upon the system and which user account you want to use for the command-line execution:
   - for 32-bit current user account:

     ```
     HKEY_CURRENT_USER\Software\Microsoft\Terminal Server Client
     ```

   - for 32-bit all user accounts:

     ```
     HKEY_LOCAL_MACHINE\Software\Microsoft\Terminal Server Client
     ```

   - for 64-bit current user account:

     ```
     HKEY_CURRENT_USER\Software\Wow6432Node\Microsoft\Terminal Server
     Client
     ```

   - for 64-bit all user accounts:

     ```
     HKEY_LOCAL_MACHINE\Software\Wow6432Node\Microsoft\Terminal Server
     Client
     ```

5. Select **New** from the **Edit** menu, then select **DWORD (32-Bit) Value**.
6. Enter `RemoteDesktop_SuppressWhenMinimized` as the name and press Enter.
7. Double-click the `RemoteDesktop_SuppressWhenMinimized` registry entry to open the edit dialog box.
8. Specify `2` in the **Value Data** field and click **OK**.
9. Close the Registry Editor.

- **Problem**: Need to automatically initiate a Remote Desktop connection after a reboot.

  Resolution: You can initiate a Remote Desktop connection after rebooting the test machine using a saved Remote Desktop Protocol (.rdp) file for a Remote Desktop connection.

  To specify and save a Remote Desktop Protocol file:

  1. Select **Accessories** from the **Start** menu, then select **Remote Desktop Connection**.

2. Click the **Options** button.
3. Specify the Logon settings in the **General** tab.
4. If you wish to be able to start the Remote Desktop Connection without being prompted for credentials (user and password), select **Allow me to save credentials**.
5. If you wish to automatically start a program on the Remote Desktop connection, click the **Programs** tab and specify the program to start.
6. Click the **Connect** button.
7. Enter the username and password and click **OK**.
8. Close the Remote Desktop connection.
9. Select **Accessories** from the **Start** menu, then select **Remote Desktop Connection**.
10. Click the **Options** button.
11. Select the **General** tab, if necessary, and click **Save As**.
12. Specify the directory and file name for the .rdp file and click **Save**.
13. If you wish to automatically scale the Remote Desktop when connecting, edit the saved .rdp file in a text editor and add the following setting to the end of the settings:

    ```
    smart sizing:i:1
    ```

14. Schedule the .rdp file to launch automatically after a reboot/restart using Task Scheduler or create a batch file on the test machine using a text editor with the following command:

    ```
    mstsc c:/myRdpFile.rdp
    ```

    where *myRdpFile* is the name you used to save the Remote Desktop connection file.
15. If you use a batch file, schedule the batch file to run using a tool that is capable of launching the batch file automatically after a reboot/restart.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at https://www.oracle.com/corporate/accessibility/.

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