



# Tizen Web Protection Test Specification

Document version 1.1.2

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## 1.1 Document History

Version	Date	Reason
1.0.0	11/28/2012	First draft from McAfee
1.0.1	01/26/2013	Add license
1.1.0	13/03/2014	Add testcases for API TWPCheckURL
1.1.1	27/3/2014	Add testcases for API TWPGetVersion
1.1.2	06/24/2014	Add testcases for API TWPGetInfo

## 1.2 References

Ref	Document	Issue	Title
[1]	Tizen Web Protection API Specification	1.0.2	Tizen Web Protection API Specification

## 1.3 Glossary and definitions

API Application Programming Interface

TWP Tizen Web Protection

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## 2 Purpose and Scope

The overall purpose of this document is to describe the conformance test cases for the Tizen Web Protection framework.

This document shall include:

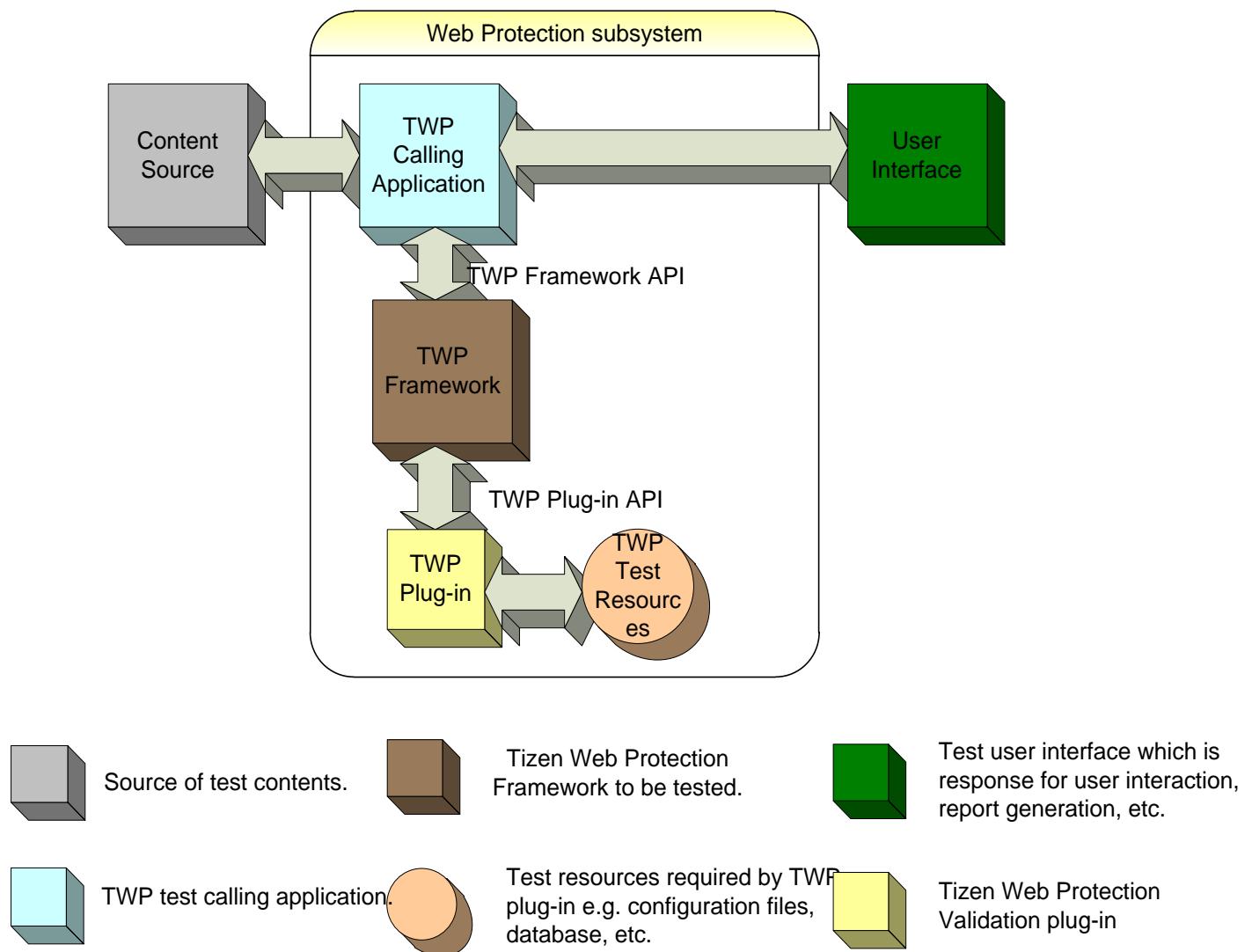
1. Tizen Web Protection Test Configuration
2. Test Case procedures

The scope of this document is the Tizen Web Protection Foundation API functions that are common to all Web Protection implementations. Specific functions of the Web Protection plug-in are not tested. All TWP implementations must include and meet the test cases defined in this document.

TWP validation plug-in

- A security plug-in for Tizen Web Protection Framework validation. Includes the functionalities required for the validation, including scanning, and conforms to the TWP framework API specification.

### 3 Component Description



**Figure 1: Tizen Web Protection Architecture**

The TWP framework (here on will be referenced as “tizen web protection library”, “TWP library”) works (interacts) with the calling application through an interface identified as one of the main elements to be tested in this test specification.

TWP plug-in is the web protection function implementation interfacing the TWP framework via Tizen web protection Framework API functions.

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“TWP Test Resources” is the resource data used by the TWP plug-in for test purposes (e.g. configurations, test URL database, etc.).

For testing purposes, the TWP library can be interchanged with a test tool. Rather than using software to analyze the content from the calling application and return the result of the scanning, a test tool is used to return the desired result matching the input content and the test case under execution. The test tool should also analyze the request from the calling application implementation to check that the process and the implementation is successful in both of the following ways:

1. The input content received from the calling application triggers the lookup process.
2. The result of the lookup APIs must be understood by the calling application which should take an action with the received content:
  - a) Do nothing if the content is correct, or
  - b) Request more information from the TWP library (by the test tool).

This test tool can generate a log file with the result of the performed tests for checking purposes.

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## 4 Test Environment Description

The test environment used is on Tizen platform.

The following requirements apply to all test cases defined in this document:

1. Any resources required by Tizen Web Protection subsystem in runtime should be installed in the test environment.
2. Test samples required by test suite should be installed in the test environment.

## 5 Test Cases Specifications

### 5.1 Test Case TC\_SEC\_WP\_TWPIInitLibrary\_0001

TC_SEC_WP_TWPIInitLibrary_0001	TWP library interface initialization test.
<b><u>API Function(s) covered:</u></b>	<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPAPIInit *pApiInit); int TWPUninitLibrary(TWPLIB_HANDLE hLib);</pre>
<b><u>Test Objectives:</u></b>	This test case verifies that the calling application can correctly initialize the TWP library handle.
<b><u>Test pre-conditions:</u></b>	validation plug-in
<b><u>Test Procedure:</u></b>	<ol style="list-style-type: none"><li>1. Call TWPIInitLibrary () .</li><li>2. Verify the API return value.</li></ol>
<b><u>Test PASS Condition:</u></b>	Step 2 should return valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.
<b><u>Test Clean-up procedure:</u></b>	Call TWPUninitLibrary() with the TWP library handle returned by TWPIInitLibrary () .

### 5.2 Test Case TC\_SEC\_WP\_TWPIInitLibrary\_0002

TC_SEC_WP_TWPIInitLibrary_0002	TWP library interface initialization test.
<b><u>API Function(s) covered:</u></b>	<pre>TWPLIB_HANDLE TWPIInitLibrary(TWPAPIInit *pApiInit);</pre>
<b><u>Test Objectives:</u></b>	This test case verifies that the calling application can get proper error when there is no TWP plugin found in system.
<b><u>Test pre-conditions:</u></b>	Stub functions
<b><u>Test Procedure:</u></b>	<ol style="list-style-type: none"><li>1. Call TWPIInitLibrary () .</li><li>2. Verify it returns INVALID_TWPLIB_HANDLE.</li></ol>

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<b>TC_SEC_WP_TWPIInitLibrary_0002</b>	<b>TWP library interface initialization test.</b>
<b>Test PASS Condition:</b>	Step 2 should return valid INVALID_TWPLIB_HANDLE.
<b>Test Clean-up procedure:</b>	None.

### 5.3 Test Case TC\_SEC\_WP\_TWPIInitLibrary\_0003

<b>TC_SEC_WP_TWPIInitLibrary_0003</b>	<b>TWP library replacement test.</b>
<b>API Function(s) covered:</b>	<pre>TWPLIB_HANDLE TWPIInitLibrary(TWPIInitApi *pApiInit); void TWPUninitLibrary(TWPLIB_HANDLE hLib);</pre>
<b>Test Objectives:</b>	This test case verifies that the calling application can get always get the latest TWP library API call after close/open.
<b>Test pre-conditions:</b>	Stub functions
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. Call TWPIInitLibrary () .</li> <li>2. Verify it returns INVALID_TWPLIB_HANDLE.</li> <li>3. Copy validation plug-in to “/opt/usr/share/sec_plugin”</li> <li>4. Call TWPIInitLibrary () .</li> <li>5. Verify it returns valid TWP library handle.</li> <li>6. Call TWPUninitLibrary () .</li> </ol>
<b>Test PASS Condition:</b>	<p>Step 2 should pass.</p> <p>Step 5 should pass.</p>
<b>Test Clean-up procedure:</b>	None.

### 5.4 Test Case TC\_SEC\_WP\_TWPIInitLibrary\_0004

<b>TC_SEC_WP_TWPIInitLibrary_0004</b>	<b>TWP library replacement test.</b>
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<b>TC_SEC_WP_TWPIInitLibrary_0004</b>	<b>TWP library replacement test.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit); void TWPUninitLibrary (TWPLIB_HANDLE hLib);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get always get the latest TWP library API call after close/open.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPIInitLibrary ()</code>.</li> <li>2. Verify it returns valid TWP library handle.</li> <li>3. Delete validation plug-in from “/opt/usr/share/sec_plugin”</li> <li>4. Call <code>TWPUninitLibrary ()</code>.</li> <li>5. Call <code>TWPIInitLibrary ()</code>.</li> <li>6. Verify it returns <code>INVALID_TWPLIB_HANDLE</code>.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass. Step 6 should pass.	
<b><u>Test Clean-up procedure:</u></b>	
None.	

## 5.5 Test Case TC\_SEC\_WP\_TWPConfigurationCreate\_0001

TC_SEC_WP_TWPConfigurationCreate_0001	TWP configuration interface initialization.
<b><u>API Function(s) covered:</u></b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit); TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                     TWPConfiguration *pConfigure,                                     TWPConfigurationHandle *phConfigure); TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                     TWPConfigurationHandle *phConfigure); void TWPUninitLibrary (TWPLIB_HANDLE hLib);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can create the TWP configuration handle.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"><li>1. Call <code>TWPIInitLibrary ()</code>.</li><li>2. Verify that the API returns valid <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li><li>3. Call <code>TWPConfigurationCreate ()</code>.</li><li>4. Verify that the API returns valid configuration handle rather than <code>NULL</code>.</li><li>5. Call <code>TWPConfigurationDestroy ()</code>.</li><li>6. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li><li>7. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPIInitLibrary ()</code>.</li></ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification. Step 4 should pass verification. Step 6 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.6 Test Case TC\_SEC\_WP\_TWPConfigurationCreate\_0002

<b>TC_SEC_WP_TWPConfigurationCreate_0002</b>	<b>TWP configuration interface initialization.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit); TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);  void TWPUninitLibrary (TWPLIB_HANDLE hLib);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can create the TWP configuration handle.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"><li>1. Call <code>TWPIInitLibrary ()</code>.</li><li>2. Verify that the API returns valid <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li><li>3. Call <code>TWPConfigurationCreate ()</code> with <code>pConfigure=NULL</code>.</li><li>4. Verify that the API returns error.</li><li>5. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPIInitLibrary ()</code>.</li></ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification. Step 4 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.7 Test Case TC\_SEC\_WP\_TWPConfigurationCreate\_0003

<b>TC_SEC_WP_TWPConfigurationCreate_0003</b>	<b>TWP configuration interface initialization.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);</pre>	

<b>TC_SEC_WP_TWPCConfigurationCreate_0003</b>	<b>TWP configuration interface initialization.</b>
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can create the TWP configuration handle.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPConfigurationCreate ()</code>.</li> <li>2. Verify that the API returns error.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.8 Test Case TC\_SEC\_WP\_TWPPolicyCreate\_0001

<b>TC_SEC_WP_TWPPolicyCreate_0001</b>	<b>TWP policy interface initialization.</b>
<b><u>API Function(s) covered:</u></b>	
<pre> TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPPolicyCreate (TWPLIB_HANDLE hLib,                            TWPCategories *pCategories,                            unsigned int uCount,                            TWPPolicyHandle *phPolicy);  TWP_RESULT TWPPolicyDestroy (TWPLIB_HANDLE hLib,                             TWPPolicyHandle *phPolicy);  void TWPUinitLibrary (TWPLIB_HANDLE hLib); </pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can create the TWP policy handle.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPIInitLibrary ()</code>.</li> </ol>	

<b>TC_SEC_WP_TWPPolicyCreate_0001</b>	<b>TWP policy interface initialization.</b>
	<ol style="list-style-type: none"> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPPolicyCreate () with categories.</li> <li>4. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>5. Verify phPolicy has the valid policy handle.</li> <li>6. Call TWPPolicyDestroy () to release phPolicy resource.</li> <li>7. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>8. Call TWPUninitLibrary () with the TWP library handle returned by TWPIInitLibrary ().</li> </ol>
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 5 should pass verification.	
Step 7 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.9 Test Case TC\_SEC\_WP\_TWPPolicyCreate\_0002

<b>TC_SEC_WP_TWPPolicyCreate_0002</b>	<b>TWP policy interface initialization.</b>
<b><u>API Function(s) covered:</u></b>	
<pre> TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPPolicyCreate (TWPLIB_HANDLE hLib,                            TWPCategories *pCategories,                            unsigned int uCount,                            TWPPolicyHandle *phPolicy);  void TWPUninitLibrary (TWPLIB_HANDLE hLib); </pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can create the TWP policy handle.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPIInitLibrary ().</li> </ol>	

<b>TC_SEC_WP_TWPPolicyCreate_0002</b>	<b>TWP policy interface initialization.</b>
	<ol style="list-style-type: none"> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPPolicyCreate () with pCategories=NULL.</li> <li>4. Verify that the API returns error rather than TWP_SUCCESS.</li> <li>5. Call TWPUninitLibrary () with the TWP library handle returned by TWPInitLibrary ().</li> </ol>
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.10 Test Case TC\_SEC\_WP\_TWPPolicyCreate\_0003

<b>TC_SEC_WP_TWPPolicyCreate_0003</b>	<b>TWP policy interface initialization.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWP_RESULT TWPPolicyCreate (TWPLIB_HANDLE hLib,                            TWPCategories *pCategories,                            unsigned int uCount,                            TWPPolicyHandle *phPolicy);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can create the TWP policy handle.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPPolicyCreate ().</li> <li>2. Verify that the API returns error rather than TWP_SUCCESS.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.11 Test Case TC\_SEC\_WP\_TWPLookupUrls\_0001

TC_SEC_WP_TWPLookupUrls_0001	TWP URL lookup interface.
<b><u>API Function(s) covered:</u></b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit); TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                           TWPConfigurationHandle hConfigure,                           TWPRequest *pRequest,                           int iRedirUrlFlag,                           const char **ppUrls,                           unsigned int uCount,                           TWPResponseHandle *phResponse);  TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                    TWPConfigurationHandle *phConfigure);  void TWPUninitLibrary (TWPLIB_HANDLE hLib);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can look up URLs.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"><li>1. Call <code>TWPIInitLibrary ()</code>.</li><li>2. Verify that the API returns valid <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li><li>3. Call <code>TWPConfigurationCreate ()</code>.</li><li>4. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li><li>5. Call <code>TWPLookupUrls ()</code>.</li><li>6. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li><li>7. Verify <code>phResponse</code> has the valid response handle rather than <code>NULL</code>.</li><li>8. Call <code>TWPConfigurationDestroy ()</code>.</li><li>9. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li><li>10. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPIInitLibrary ()</code>.</li></ol>	

<b>TC_SEC_WP_TWPLookupUrls_0001</b>	<b>TWP URL lookup interface.</b>
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 7 should pass verification.	
Step 9 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.12 Test Case TC\_SEC\_WP\_TWPLookupUrls\_0002

<b>TC_SEC_WP_TWPLookupUrls_0002</b>	<b>TWP URL lookup interface.</b>
<b><u>API Function(s) covered:</u></b>	
<pre> TWPLIB_HANDLE TWPIinitLibrary (TWPIinitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                    TWPConfiguration *pConfigure,                                    TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,                            TWPResponseHandle *phResponse);  TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                     TWPConfigurationHandle *phConfigure);  void TWPUninitLibrary (TWPLIB_HANDLE hLib); </pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can look up URLs.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	

<b>TC_SEC_WP_TWPLookupUrls_0002</b>	<b>TWP URL lookup interface.</b>
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPInitLibrary ()</code>.</li> <li>2. Verify that the API returns valid <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li> <li>3. Call <code>TWPConfigurationCreate ()</code>.</li> <li>4. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>5. Call <code>TWPLookupUrls ()</code> with <code>ppUrls=NULL</code>.</li> <li>6. Verify that the API returns error rather than <code>TWP_SUCCESS</code>.</li> <li>7. Call <code>TWPConfigurationDestroy ()</code>.</li> <li>8. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>9. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPInitLibrary ()</code>.</li> </ol>	
<b>Test PASS Condition:</b>	
<p>Step 2 should pass verification.</p> <p>Step 4 should pass verification.</p> <p>Step 6 should pass verification.</p> <p>Step 8 should pass verification.</p>	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.13 Test Case TC\_SEC\_WP\_TWPLookupUrls\_0003

<b>TC_SEC_WP_TWPLookupUrls_0003</b>	<b>TWP URL lookup a-synchronization interface.</b>
<b>API Function(s) covered:</b>	
<pre> TWPLIB_HANDLE TWPInitLibrary (TWPInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                           TWPConfigurationHandle hConfigure,                           TWPRequest *pRequest,                           int iRedirUrlFlag,                           const char **ppUrls, </pre>	

<b>TC_SEC_WP_TWPLookupUrls_0003</b>	<b>TWP URL lookup a-synchronization interface.</b>
	<pre>         unsigned int uCount,         TWPResponseHandle *phResponse);  TWP_RESULT TWPCConfigurationDestroy (TWPLIB_HANDLE hLib,                                      TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPResponseWrite (TWPLIB_HANDLE hLib,                             TWPResponseHandle hResponse,                             const void *pData,                             unsigned uLength);  void TWPUninitLibrary (TWPLIB_HANDLE hLib); </pre>
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can a-synchronized look up URLs.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPInitLibrary () .</li> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPCConfigurationCreate () .</li> <li>4. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>5. Call TWPLookupUrls () with TWPRequest::receivefunc=NULL and known test URL.</li> <li>6. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>7. Call TWPResponseWrite () with uLength=0.</li> <li>8. Verify response data is as expected.</li> <li>9. Call TWPCConfigurationDestroy () .</li> <li>10. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>11. Call TWPUninitLibrary () with the TWP library handle returned by TWPInitLibrary () .</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	

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<b>TC_SEC_WP_TWPLookupUrls_0003</b>	<b>TWP URL lookup a-synchronization interface.</b>
No specific cleanup required.	

## 5.14 Test Case TC\_SEC\_WP\_TWPLookupUrls\_0004

TC_SEC_WP_TWPLookupUrls_0004	TWP URL lookup synchronization interface.
<b><u>API Function(s) covered:</u></b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit); TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                           TWPConfigurationHandle hConfigure,                           TWPRequest *pRequest,                           int iRedirUrlFlag,                           const char **ppUrls,                           unsigned int uCount,                           TWPResponseHandle *phResponse);  TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,                                TWPResponseHandle *phResponse);  TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                    TWPConfigurationHandle *phConfigure);  void TWPUninitLibrary (TWPLIB_HANDLE hLib);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can synchronized look up URLs.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"><li>1. Call TWPIInitLibrary () .</li><li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li><li>3. Call TWPConfigurationCreate () .</li><li>4. Verify that the API returns TWP_SUCCESS rather than error.</li><li>5. Call TWPLookupUrls () with TWPRequest::receivefunc!=NULL and known test URL.</li><li>6. Verify that the API returns TWP_SUCCESS rather than error.</li><li>7. Verify response data is as expected.</li><li>8. Call TWPResponseDestroy () .</li></ol>	

<b>TC_SEC_WP_TWPLookupUrls_0004</b>	<b>TWP URL lookup synchronization interface.</b>
	<p>9. Verify that the API returns TWP_SUCCESS rather than error.</p> <p>10. Call TWPConfigurationDestroy () .</p> <p>11. Verify that the API returns TWP_SUCCESS rather than error.</p> <p>12. Call TWPUninitLibrary () with the TWP library handle returned by TWPInitLibrary () .</p>
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 7 should pass verification.	
Step 9 should pass verification.	
Step 11 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.15 Test Case TC\_SEC\_WP\_TWPLookupUrls\_0005

<b>TC_SEC_WP_TWPLookupUrls_0005</b>	<b>TWP URL lookup interface.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,                            TWPResponseHandle *phResponse);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get proper error with stub library.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPLookupUrls () .</li> <li>2. Verify that the API returns error rather than TWP_SUCCESS.</li> </ol>	

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<b>TC_SEC_WP_TWPLookupUrls_0005</b>	<b>TWP URL lookup interface.</b>
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.16 Test Case TC\_SEC\_WP\_TWPGetUrlRating\_0001

<b>TC_SEC_WP_TWPGetUrlRating_0001</b>	<b>TWP get URL rating interface.</b>
<b>API Function(s) covered:</b>	
<pre> TWPLIB_HANDLE TWPInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,                            TWPResponseHandle *phResponse);  TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,                                TWPResponseHandle *phResponse);  TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                    TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPResponseGetUrlRatingByIndex (TWPLIB_HANDLE hLib,  TWPResponseHandle hResponse,  unsigned int uIndex,  TWPUrlRatingHandle *phRating);  void TWPUninitLibrary (TWPLIB_HANDLE hLib); </pre>	

<b>TC_SEC_WP_TWPGetUrlRating_0001</b>	<b>TWP get URL rating interface.</b>
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get rating from response.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPInitLibrary ()</code>.</li> <li>2. Verify that the API returns valid <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li> <li>3. Call <code>TWPConfigurationCreate ()</code>.</li> <li>4. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>5. Call <code>TWPLookupUrls ()</code> with known test URL.</li> <li>6. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>7. Call <code>TWPResponseGetUrlRatingByIndex ()</code>.</li> <li>8. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>9. Call <code>TWPResponseDestroy ()</code>.</li> <li>10. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>11. Call <code>TWPConfigurationDestroy ()</code>.</li> <li>12. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>13. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPInitLibrary ()</code>.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	
Step 12 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.17 Test Case TC\_SEC\_WP\_TWPGetUrlRating\_0002

<b>TC_SEC_WP_TWPGetUrlRating_0002</b>	<b>TWP get URL rating interface.</b>
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<b>TC_SEC_WP_TWPGGetUrlRating_0002</b>	<b>TWP get URL rating interface.</b>
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**API Function(s) covered:**

```
TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  
TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,  
                                  TWPConfiguration *pConfigure,  
                                  TWPConfigurationHandle *phConfigure);  
TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,  
                           TWPConfigurationHandle hConfigure,  
                           TWPRequest *pRequest,  
                           int iRedirUrlFlag,  
                           const char **ppUrls,  
                           unsigned int uCount,  
                           TWPResponseHandle *phResponse);  
TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,  
                                   TWPConfigurationHandle *phConfigure);  
TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,  
                                         TWPResponseHandle hResponse,  
                                         const char *pUrl,  
                                         unsigned int uUrlLength,  
                                         TWPUrlRatingHandle *phRating);  
TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,  
                           TWPResponseHandle *phResponse);  
void TWPUninitLibrary (TWPLIB_HANDLE hLib);
```

**Test Objectives:**

This test case verifies that the calling application can get rating from response.

**Test pre-conditions:**

validation plug-in.

**Test Procedure:**

1. Call TWPIInitLibrary () .
2. Verify that the API returns valid TWPLIB\_HANDLE instead of INVALID\_TWPLIB\_HANDLE.
3. Call TWPConfigurationCreate () .
4. Verify that the API returns TWP\_SUCCESS rather than error.
5. Call TWPLookupUrls () with known test URL.

<b>TC_SEC_WP_TWPGetUrlRating_0002</b>	<b>TWP get URL rating interface.</b>
	<ol style="list-style-type: none"> <li>6. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>7. Call TWPResponseGetUrlRatingByUrl () .</li> <li>8. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>9. Call TWPResponseDestroy () .</li> <li>10. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>11. Call TWPConfigurationDestroy () .</li> <li>12. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>13. Call TWPUninitLibrary () with the TWP library handle returned by TWPInitLibrary () .</li> </ol>
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	
Step 12 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.18 Test Case TC\_SEC\_WP\_TWPGetUrlRating\_0003

<b>TC_SEC_WP_TWPGetUrlRating_0003</b>	<b>TWP get URL rating interface.</b>
<b><u>API Function(s) covered:</u></b>	
<pre> TWPLIB_HANDLE TWPInitLibrary (TWPInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount, </pre>	

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<b>TC_SEC_WP_TWPGGetUrlRating_0003</b>	<b>TWP get URL rating interface.</b>
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```
        TWPResponseHandle *phResponse);  
  
TWP_RESULT TWPCConfigurationDestroy (TWPLIB_HANDLE hLib,  
                                     TWPConfigurationHandle *phConfigure);  
  
TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,  
                                         TWPResponseHandle hResponse,  
                                         const char *pUrl,  
                                         unsigned int uUrlLength,  
                                         TWPUrlRatingHandle *phRating);  
  
TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,  
                               TWPResponseHandle *phResponse);  
  
void TWPUninitLibrary (TWPLIB_HANDLE hLib);
```

**Test Objectives:**

This test case verifies that the calling application can get rating from response.

**Test pre-conditions:**

validation plug-in.

**Test Procedure:**

1. Call TWPInitLibrary () .
2. Verify that the API returns valid TWPLIB\_HANDLE instead of INVALID\_TWPLIB\_HANDLE.
3. Call TWPCConfigurationCreate () .
4. Verify that the API returns TWP\_SUCCESS rather than error.
5. Call TWPLookupUrls () with known test URL.
6. Verify that the API returns TWP\_SUCCESS rather than error.
7. Call TWPResponseGetUrlRatingByUrl () with pUrl=NULL.
8. Verify that the API returns error rather than TWP\_SUCCESS.
9. Call TWPResponseDestroy () .
10. Verify that the API returns TWP\_SUCCESS rather than error.
11. Call TWPCConfigurationDestroy () .
12. Verify that the API returns TWP\_SUCCESS rather than error.
13. Call TWPUninitLibrary () with the TWP library handle returned by TWPInitLibrary () .

**Test PASS Condition:**

Step 2 should pass verification.

Step 4 should pass verification.

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<b>TC_SEC_WP_TWPGetUrlRating_0003</b>	<b>TWP get URL rating interface.</b>
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	
Step 12 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.19 Test Case TC\_SEC\_WP\_TWPGetUrlRating\_0004

<b>TC_SEC_WP_TWPGetUrlRating_0004</b>	<b>TWP get URL rating interface.</b>
<b><u>API Function(s) covered:</u></b>	
<pre> TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,                            TWPResponseHandle *phResponse);  TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                     TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPResponseGetUrlRatingByIndex (TWPLIB_HANDLE hLib,  TWPResponseHandle hResponse,  unsigned int uIndex,  TWPUrlRatingHandle *phRating);  TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,                                TWPResponseHandle *phResponse);  void TWPUninitLibrary (TWPLIB_HANDLE hLib); </pre>	

<b>TC_SEC_WP_TWPGetUrlRating_0004</b>	<b>TWP get URL rating interface.</b>
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get rating from response.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPInitLibrary ()</code>.</li> <li>2. Verify that the API returns valid <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li> <li>3. Call <code>TWPConfigurationCreate ()</code>.</li> <li>4. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>5. Call <code>TWPLookupUrls ()</code> with known test URL.</li> <li>6. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>7. Call <code>TWPResponseGetUrlRatingByIndex ()</code> with outbound index.</li> <li>8. Verify that the API returns error rather than <code>TWP_SUCCESS</code>.</li> <li>9. Call <code>TWPResponseDestroy ()</code>.</li> <li>10. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>11. Call <code>TWPConfigurationDestroy ()</code>.</li> <li>12. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>13. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPInitLibrary ()</code>.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	
Step 12 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.20 Test Case TC\_SEC\_WP\_TWPGetUrlRating\_0005

<b>TC_SEC_WP_TWPGetUrlRating_0005</b>	<b>TWP get URL rating interface.</b>
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<b>TC_SEC_WP_TWPGetUrlRating_0005</b>	<b>TWP get URL rating interface.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWP_RESULT TWPResponseGetUrlRatingByIndex (TWPLIB_HANDLE hLib,   TWPResponseHandle hResponse,   unsigned int uIndex,   TWPUrlRatingHandle *phRating);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get rating from response.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPResponseGetUrlRatingByIndex ()</code>.</li> <li>2. Verify that the API returns error rather than <code>TWP_SUCCESS</code>.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.21 Test Case TC\_SEC\_WP\_TWPGetUrlRating\_0006

<b>TC_SEC_WP_TWPGetUrlRating_0006</b>	<b>TWP get URL rating interface.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,  TWPResponseHandle hResponse,  const char *pUrl,  unsigned int uUrlLength,  TWPUrlRatingHandle *phRating);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get rating from response.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	

<b>TC_SEC_WP_TWPGetUrlRating_0006</b>	<b>TWP get URL rating interface.</b>
1. Call TWPResponseGetUrlRatingByUrl () . 2. Verify that the API returns error rather than TWP_SUCCESS.	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.22 Test Case TC\_SEC\_WP\_TWPGetUrlRatingsCount\_0001

<b>TC_SEC_WP_TWPGetUrlRatingsCount_0001</b>	<b>TWP get URL rating count.</b>
<b>API Function(s) covered:</b>	
<pre> TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,                            TWPResponseHandle *phResponse);  TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                     TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPResponseGetUrlRatingByIndex (TWPLIB_HANDLE hLib,  TWPResponseHandle hResponse,  unsigned int uIndex,  TWPUrlRatingHandle *phRating);  TWP_RESULT TWPResponseGetUrlRatingsCount (TWPLIB_HANDLE hLib,  TWPResponseHandle hResponse,  unsigned int *puCount); </pre>	

<b>TC_SEC_WP_TWPGetUrlRatingsCount_0001</b>	<b>TWP get URL rating count.</b>
	<pre>TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,                                TWPResponseHandle *phRespone);  void TWPUninitLibrary (TWPLIB_HANDLE hLib);</pre>
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get rating count from rating handle.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPInitLibrary () .</li> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPConfigurationCreate () .</li> <li>4. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>5. Call TWPLookupUrls () with known test URL.</li> <li>6. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>7. Call TWPResponseGetUrlRatingByIndex () .</li> <li>8. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>9. Call TWPResponseGetUrlRatingsCount () .</li> <li>10. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>11. Verify that the puCount contain right rating number.</li> <li>12. Call TWPResponseDestroy () .</li> <li>13. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>14. Call TWPConfigurationDestroy () .</li> <li>15. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>16. Call TWPUninitLibrary () with the TWP library handle returned by TWPInitLibrary () .</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	
Step 11 should pass verification.	
Step 13 should pass verification.	

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<b>TC_SEC_WP_TWPGetUrlRatingsCount_0001</b>	<b>TWP get URL rating count.</b>
Step 15 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.23 Test Case TC\_SEC\_WP\_TWPGetUrlRatingsCount\_0002

<b>TC_SEC_WP_TWPGetUrlRatingsCount_0002</b>	<b>TWP get URL rating count.</b>
<b>API Function(s) covered:</b>	
<pre>TWP_RESULT TWPResponseGetUrlRatingsCount (TWPLIB_HANDLE hLib,  TWPResponseHandle hResponse,  unsigned int *puCount);</pre>	
<b>Test Objectives:</b>	
This test case verifies that the calling application can get error from stub library.	
<b>Test pre-conditions:</b>	
Stub library.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call TWPResponseGetUrlRatingsCount () .</li> <li>2. Verify that the API returns error rather than TWP_SUCCESS.</li> </ol>	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.24 Test Case TC\_SEC\_WP\_TWPGetRedirUrlFor\_0001

<b>TC_SEC_WP_TWPGetRedirUrlFor_0001</b>	<b>TWP get redirection URL.</b>
<b>API Function(s) covered:</b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit); TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                    TWPConfiguration *pConfigure,</pre>	

<b>TC_SEC_WP_TWPGGetRedirUrlFor_0001</b>	<b>TWP get redirection URL.</b>
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```

TWPConfigurationHandle *phConfigure);

TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,
                           TWPConfigurationHandle hConfigure,
                           TWPRequest *pRequest,
                           int iRedirUrlFlag,
                           const char **ppUrls,
                           unsigned int uCount,
                           TWPResponseHandle *phResponse);

TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,
                                    TWPConfigurationHandle *phConfigure);

TWP_RESULT TWPResponseGetUrlRatingByIndex (TWPLIB_HANDLE hLib,
                                            TWPResponseHandle hResponse,
                                            unsigned int uIndex,
                                            TWPUrlRatingHandle *phRating);

TWP_RESULT TWPResponseGetRedirUrlFor (TWPLIB_HANDLE hLib,
                                       TWPResponseHandle hResponse,
                                       TWPUrlRatingHandle hRating,
                                       TWPPolicyHandle hPolicy,
                                       char **ppUrl,
                                       unsigned int *piLength);

TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,
                               TWPResponseHandle *phResponse);

void TWPUinitLibrary (TWPLIB_HANDLE hLib);

```

#### **Test Objectives:**

This test case verifies that the calling application can get redirection URL.

#### **Test pre-conditions:**

validation plug-in.

#### **Test Procedure:**

1. Call `TWPInitLibrary ()`.
2. Verify that the API returns valid `TWPLIB_HANDLE` instead of `INVALID_TWPLIB_HANDLE`.
3. Call `TWPConfigurationCreate ()`.
4. Verify that the API returns `TWP_SUCCESS` rather than error.

<b>TC_SEC_WP_TWPGetRedirUrlFor_0001</b>	<b>TWP get redirection URL.</b>
<p>5. Call <code>TWPLookupUrls</code> () with known test URL.</p> <p>6. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>7. Call <code>TWPResponseGetUrlRatingByIndex</code> ().</p> <p>8. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>9. Call <code>TWPPolicyCreate</code> ().</p> <p>10. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>11. Call <code>TWPResponseGetRedirUrlFor</code> ().</p> <p>12. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>13. Verify that the <code>ppUrl</code> contain right URL.</p> <p>14. Call <code>TWPPolicyDestroy</code> ().</p> <p>15. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>16. Call <code>TWPResponseDestroy</code> ().</p> <p>17. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>18. Call <code>TWPConfigurationDestroy</code> ().</p> <p>19. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>20. Call <code>TWPUninitLibrary</code> () with the TWP library handle returned by <code>TWPInitLibrary</code> ().</p>	

#### **Test PASS Condition:**

Step 2 should pass verification.

Step 4 should pass verification.

Step 6 should pass verification.

Step 8 should pass verification.

Step 10 should pass verification.

Step 11 should pass verification.

Step 13 should pass verification.

Step 15 should pass verification.

Step 17 should pass verification.

Step 19 should pass verification.

#### **Test Clean-up procedure:**

No specific cleanup required.

## **5.25 Test Case TC\_SEC\_WP\_TWPGetRedirUrlFor\_0002**

<b>TC_SEC_WP_TWPGGetRedirUrlFor_0002</b>	<b>TWP get redirection URL.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWP_RESULT TWPResponseGetRedirUrlFor (TWPLIB_HANDLE hLib,                                       TWPResponseHandle hResponse,                                       TWPUrlRatingHandle hRating,                                       TWPPolicyHandle hPolicy,                                       char **ppUrl,                                       unsigned int *piLength);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get error from stub library.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPResponseGetRedirUrlFor ()</code>.</li> <li>2. Verify that the API returns error rather than <code>TWP_SUCCESS</code>.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.26 Test Case TC\_SEC\_WP\_TWPPolicyValidate\_0001

<b>TC_SEC_WP_TWPPolicyValidate_0001</b>	<b>TWP policy validation.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                    TWPConfiguration *pConfigure,                                    TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPPolicyCreate (TWPLIB_HANDLE hLib,                            TWPCategories *pCategories,                            unsigned int uCount,                            TWPPolicyHandle *phPolicy);</pre>	

<b>TC_SEC_WP_TWPPolicyValidate_0001</b>	<b>TWP policy validation.</b>
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```

TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,
                           TWPConfigurationHandle hConfigure,
                           TWPRequest *pRequest,
                           int iRedirUrlFlag,
                           const char **ppUrls,
                           unsigned int uCount,
                           TWPResponseHandle *phResponse);

TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,
                                    TWPConfigurationHandle *phConfigure);

TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,
                                         TWPResponseHandle hResponse,
                                         const char *pUrl,
                                         unsigned int uUrlLength,
                                         TWPUrlRatingHandle *phRating);

TWP_RESULT TWPPolicyValidate (TWPLIB_HANDLE hLib,
                             TWPPolicyHandle hPolicy,
                             TWPURLRatingHandle hRating,
                             Int *piViolated);

TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,
                               TWPResponseHandle *phResponse);

TWP_RESULT TWPPolicyDestroy (TWPLIB_HANDLE hLib,
                            TWPPolicyHandle *phPolicy);

void TWPUinitLibrary (TWPLIB_HANDLE hLib);

```

#### **Test Objectives:**

This test case verifies that the calling application can validate the response and rating against policy.

#### **Test pre-conditions:**

validation plug-in.

#### **Test Procedure:**

1. Call `TWPInitLibrary ()`.
2. Verify that the API returns valid `TWPLIB_HANDLE` instead of `INVALID_TWPLIB_HANDLE`.
3. Call `TWPConfigurationCreate ()`.
4. Verify that the API returns `TWP_SUCCESS` rather than error.

<b>TC_SEC_WP_TWPPolicyValidate_0001</b>	<b>TWP policy validation.</b>
	<p>5. Call <code>TWPLookupUrls ()</code> with known test URL.</p> <p>6. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>7. Call <code>TWPResponseGetUrlRatingByUrl ()</code>.</p> <p>8. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>9. Call <code>TWPPolicyCreate ()</code> with proper test categories.</p> <p>10. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>11. Call <code>TWPPolicyValidate ()</code>.</p> <p>12. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>13. Verify that the <code>pViolated</code> contains 1.</p> <p>14. Call <code>TWPPolicyDestroy ()</code> with proper test categories.</p> <p>15. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>16. Call <code>TWPResponseDestroy ()</code>.</p> <p>17. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>18. Call <code>TWPConfigurationDestroy ()</code>.</p> <p>19. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>20. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPInitLibrary ()</code>.</p>
<b><u>Test PASS Condition:</u></b>	
<p>Step 2 should pass verification.</p> <p>Step 4 should pass verification.</p> <p>Step 6 should pass verification.</p> <p>Step 8 should pass verification.</p> <p>Step 10 should pass verification.</p> <p>Step 12 should pass verification.</p> <p>Step 13 should pass verification.</p> <p>Step 15 should pass verification.</p> <p>Step 17 should pass verification.</p> <p>Step 19 should pass verification.</p>	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.27 Test Case TC\_SEC\_WP\_TWPPolicyValidate\_0002

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<b>TC_SEC_WP_TWPPolicyValidate_0002</b>	<b>TWP policy validation.</b>
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**API Function(s) covered:**

```
TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);

TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,
                                  TWPConfiguration *pConfigure,
                                  TWPConfigurationHandle *phConfigure);

TWP_RESULT TWPPolicyCreate (TWPLIB_HANDLE hLib,
                           TWPCategories *pCategories,
                           unsigned int uCount,
                           TWPPolicyHandle *phPolicy);

TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,
                          TWPConfigurationHandle hConfigure,
                          TWPRequest *pRequest,
                          int iRedirUrlFlag,
                          const char **ppUrls,
                          unsigned int uCount,
                          TWPResponseHandle *phResponse);

TWP_RESULT TWPPolicyValidate (TWPLIB_HANDLE hLib,
                             TWPPolicyHandle hPolicy,
                             TWPRULRatingHandle hRating,
                             Int *piViolated);

TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,
                                   TWPConfigurationHandle *phConfigure);

TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,
                                         TWPResponseHandle hResponse,
                                         const char *pUrl,
                                         unsigned int uUrlLength,
                                         TWPUrlRatingHandle *phRating);

TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,
                             TWPResponseHandle *phResponse);

TWP_RESULT TWPPolicyDestroy (TWPLIB_HANDLE hLib,
                            TWPPolicyHandle *phPolicy);

void TWPUinitLibrary (TWPLIB_HANDLE hLib);
```

<b>TC_SEC_WP_TWPPolicyValidate_0002</b>	<b>TWP policy validation.</b>
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can validate the response and rating against policy.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPInitLibrary ()</code>.</li> <li>2. Verify that the API returns valid <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li> <li>3. Call <code>TWPConfigurationCreate ()</code>.</li> <li>4. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>5. Call <code>TWPLookupUrls ()</code> with known test URL.</li> <li>6. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>7. Call <code>TWPResponseGetUrlRatingByUrl ()</code>.</li> <li>8. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>9. Call <code>TWPPolicyCreate ()</code> with proper test categories.</li> <li>10. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>11. Call <code>TWPPolicyValidate ()</code>.</li> <li>12. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>13. Verify that the <code>piViolated</code> contains 0.</li> <li>14. Call <code>TWPPolicyDestroy ()</code> with proper test categories.</li> <li>15. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>16. Call <code>TWPResponseDestroy ()</code>.</li> <li>17. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>18. Call <code>TWPConfigurationDestroy ()</code>.</li> <li>19. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>20. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPInitLibrary ()</code>.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	
Step 12 should pass verification.	

<b>TC_SEC_WP_TWPPolicyValidate_0002</b>	<b>TWP policy validation.</b>
Step 13 should pass verification.	
Step 15 should pass verification.	
Step 17 should pass verification.	
Step 19 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.28 Test Case TC\_SEC\_WP\_TWPPolicyValidate\_0003

<b>TC_SEC_WP_TWPPolicyValidate_0003</b>	<b>TWP policy validation.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWP_RESULT TWPPolicyValidate (TWPLIB_HANDLE hLib,                                TWPPolicyHandle hPolicy,                                TWPRULRatingHandle hRating,                                Int *piViolated);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can error from stub library.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPPolicyValidate () .</li> <li>2. Verify that the API returns TWP_SUCCESS rather than error.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.29 Test Case TC\_SEC\_WP\_TWPPolicyGetViolations\_0001

<b>TC_SEC_WP_TWPPolicyGetViolations_0001</b>	<b>TWP policy validation.</b>
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<b>TC_SEC_WP_TWPPolicyGetViolations_0001</b>	<b>TWP policy validation.</b>
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**API Function(s) covered:**

```
TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);

TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,
                                  TWPConfiguration *pConfigure,
                                  TWPConfigurationHandle *phConfigure);

TWP_RESULT TWPPolicyCreate (TWPLIB_HANDLE hLib,
                           TWPCategories *pCategories,
                           unsigned int uCount,
                           TWPPolicyHandle *phPolicy);

TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,
                          TWPConfigurationHandle hConfigure,
                          TWPRequest *pRequest,
                          int iRedirUrlFlag,
                          const char **ppUrls,
                          unsigned int uCount,
                          TWPResponseHandle *phResponse);

TWP_RESULT TWPPolicyGetViolations (TWPLIB_HANDLE hLib,
                                   TWPPolicyHandle hPolicy,
                                   TWPURLRatingHandle hRating,
                                   TWPCategories **ppViolated,
                                   unsigned int *puLength);

TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,
                                   TWPConfigurationHandle *phConfigure);

TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,
                                         TWPResponseHandle hResponse,
                                         const char *pUrl,
                                         unsigned int uUrlLength,
                                         TWPUrlRatingHandle *phRating);

TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,
                             TWPResponseHandle *phResponse);

TWP_RESULT TWPPolicyDestroy (TWPLIB_HANDLE hLib,
                            TWPPolicyHandle *phPolicy);

void TWPUinitLibrary (TWPLIB_HANDLE hLib);
```

<b>TC_SEC_WP_TWPPolicyGetViolations_0001</b>	<b>TWP policy validation.</b>
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can validate the response and rating against policy.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPInitLibrary ()</code>.</li> <li>2. Verify that the API returns valid <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li> <li>3. Call <code>TWPConfigurationCreate ()</code>.</li> <li>4. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>5. Call <code>TWPLookupUrls ()</code> with known test URL.</li> <li>6. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>7. Call <code>TWPResponseGetUrlRatingByUrl ()</code>.</li> <li>8. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>9. Call <code>TWPPolicyCreate ()</code> with proper test categories.</li> <li>10. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>11. Call <code>TWPPolicyGetViolations ()</code>.</li> <li>12. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>13. Verify that the <code>ppViolated</code> contains correct categories.</li> <li>14. Verify that the <code>puLength</code> contains correct number.</li> <li>15. Call <code>TWPPolicyDestroy ()</code> with proper test categories.</li> <li>16. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>17. Call <code>TWPResponseDestroy ()</code>.</li> <li>18. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>19. Call <code>TWPConfigurationDestroy ()</code>.</li> <li>20. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>21. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPInitLibrary ()</code>.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	

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<b>TC_SEC_WP_TWPPolicyGetViolations_0001</b>	<b>TWP policy validation.</b>
Step 12 should pass verification.	
Step 13 should pass verification.	
Step 14 should pass verification.	
Step 16 should pass verification.	
Step 18 should pass verification.	
Step 20 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.30 Test Case TC\_SEC\_WP\_TWPPolicyGetViolations\_0002

<b>TC_SEC_WP_TWPPolicyGetViolations_0002</b>	<b>TWP policy validation.</b>
<b><u>API Function(s) covered:</u></b>	
<pre> TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                    TWPConfigure *pConfigure,                                    TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPPolicyCreate (TWPLIB_HANDLE hLib,                            TWPCategories *pCategories,                            unsigned int uCount,                            TWPPolicyHandle *phPolicy);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,                            TWPResponseHandle *phResponse);  TWP_RESULT TWPPolicyGetViolations (TWPLIB_HANDLE hLib,                                    TWPPolicyHandle hPolicy,                                    TWPURLRatingHandle hRating,                                    TWPCategories **ppViolated,                                    unsigned int *puLength); </pre>	

---

<b>TC_SEC_WP_TWPPolicyGetViolations_0002</b>	<b>TWP policy validation.</b>
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```
TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,
                                    TWPConfigurationHandle *phConfigure);

TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,
                                         TWPResponseHandle hResponse,
                                         const char *pUrl,
                                         unsigned int uUrlLength,
                                         TWPUrlRatingHandle *phRating);

TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,
                               TWPResponseHandle *phResponse);

TWP_RESULT TWPPolicyDestroy (TWPLIB_HANDLE hLib,
                            TWPPolicyHandle *phPolicy);

void TWPUinitLibrary (TWPLIB_HANDLE hLib);
```

**Test Objectives:**

This test case verifies that the calling application can validate the response and rating against policy.

**Test pre-conditions:**

validation plug-in.

**Test Procedure:**

1. Call TWPInitLibrary () .
2. Verify that the API returns valid TWPLIB\_HANDLE instead of INVALID\_TWPLIB\_HANDLE.
3. Call TWPConfigurationCreate () .
4. Verify that the API returns TWP\_SUCCESS rather than error.
5. Call TWPLookupUrls () with known test URL.
6. Verify that the API returns TWP\_SUCCESS rather than error.
7. Call TWPResponseGetUrlRatingByUrl () .
8. Verify that the API returns TWP\_SUCCESS rather than error.
9. Call TWPPolicyCreate () with proper test categories.
10. Verify that the API returns TWP\_SUCCESS rather than error.
11. Call TWPPolicyGetViolations () .
12. Verify that the API returns TWP\_SUCCESS rather than error.
13. Verify that the ppViolated does not contain any category.
14. Call TWPPolicyDestroy () with proper test categories.
15. Verify that the API returns TWP\_SUCCESS rather than error.

<b>TC_SEC_WP_TWPPolicyGetViolations_0002</b>	<b>TWP policy validation.</b>
	<p>16. Call <code>TWPResponseDestroy ()</code>.</p> <p>17. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>18. Call <code>TWPConfigurationDestroy ()</code>.</p> <p>19. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>20. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPInitLibrary ()</code>.</p>
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	
Step 12 should pass verification.	
Step 13 should pass verification.	
Step 15 should pass verification.	
Step 17 should pass verification.	
Step 19 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.31 Test Case TC\_SEC\_WP\_TWPPolicyGetViolations\_0003

<b>TC_SEC_WP_TWPPolicyGetViolations_0003</b>	<b>TWP policy validation.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWP_RESULT TWPPolicyGetViolations (TWPLIB_HANDLE hLib,                                     TWPPolicyHandle hPolicy,                                     TWPURLRatingHandle hRating,                                     TWPCategories **ppViolated,                                     unsigned int *puLength);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get error from stub library.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	

<b>TC_SEC_WP_TWPPolicyGetViolations_0003</b>	<b>TWP policy validation.</b>
<b>Test Procedure:</b>	
1. Call TWPPolicyGetViolations () . 2. Verify that the API returns error rather than TWP_SUCCESS.	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.32 Test Case TC\_SEC\_WP\_TWPRatingGetScore\_0001

<b>TC_SEC_WP_TWPRatingGetScore_0001</b>	<b>TWP get URL score.</b>
<b>API Function(s) covered:</b>	
<pre> TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                    TWPConfiguration *pConfigure,                                    TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,                            TWPResponseHandle *phResponse);  TWP_RESULT TWPUrlRatingGetScore (TWPLIB_HANDLE hLib,                                  TWPUrlRatingHandle hRating,                                  int *piScore);  TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                     TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,  TWPResponseHandle hResponse,  const char *pUrl,  int *piScore); </pre>	

<b>TC_SEC_WP_TWPRatingGetScore_0001</b>	<b>TWP get URL score.</b>
<pre> unsigned int uUrlLength, TWPUrlRatingHandle *phRating);  TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib, TWPResponseHandle *phResponse);  void TWPUninitLibrary (TWPLIB_HANDLE hLib); </pre>	
<b>Test Objectives:</b>	
This test case verifies that the calling application can get URL score from their rating.	
<b>Test pre-conditions:</b>	
validation plug-in.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call TWPInitLibrary () .</li> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPConfigurationCreate () .</li> <li>4. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>5. Call TWPLookupUrls () with known test URL.</li> <li>6. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>7. Call TWPResponseGetUrlRatingByUrl () .</li> <li>8. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>9. Call TWPUrlRatingGetScore () .</li> <li>10. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>11. Verify that the piScore contains correct score.</li> <li>12. Call TWPResponseDestroy () .</li> <li>13. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>14. Call TWPConfigurationDestroy () .</li> <li>15. Verify that the API returns TWP_SUCCESS rather than error.</li> <li>16. Call TWPUninitLibrary () with the TWP library handle returned by TWPInitLibrary () .</li> </ol>	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	

<b>TC_SEC_WP_TWPRatingGetScore_0001</b>	<b>TWP get URL score.</b>
Step 11 should pass verification.	
Step 13 should pass verification.	
Step 15 should pass verification.	

**Test Clean-up procedure:**

No specific cleanup required.

### 5.33 Test Case TC\_SEC\_WP\_TWPRatingGetScore\_0002

<b>TC_SEC_WP_TWPRatingGetScore_0002</b>	<b>TWP get URL score.</b>
<b>API Function(s) covered:</b>	
<pre>TWP_RESULT TWPUrlRatingGetScore (TWPLIB_HANDLE hLib,                                   TWPUrlRatingHandle hRating,                                   int *piScore);</pre>	
<b>Test Objectives:</b>	
This test case verifies that the calling application can get error from stub library.	
<b>Test pre-conditions:</b>	
Stub library.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call TWPUrlRatingGetScore () .</li> <li>2. Verify that the API returns error rather than TWP_SUCCESS.</li> </ol>	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

### 5.34 Test Case TC\_SEC\_WP\_TWPRatingGetUrl\_0001

<b>TC_SEC_WP_TWPRatingGetUrl_0001</b>	<b>TWP get URL from rating.</b>
<b>API Function(s) covered:</b>	
<pre>TWPLIB_HANDLE TWPInitLibrary (TWPIInitApi *pApiInit); TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,</pre>	

<b>TC_SEC_WP_TWPRatingGetUrl_0001</b>	<b>TWP get URL from rating.</b>
<pre> TWPConfiguration *pConfigure, TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,                            TWPResponseHandle *phResponse);  TWP_RESULT TWPUrlRatingGetUrl (TWPLIB_HANDLE hLib,                                TWPUrlRatingHandle hRating,                                const char **ppUrl,                                unsigned int *puLength);  TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                     TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,  TWPResponseHandle hResponse,  const char *pUrl,  unsigned int uUrlLength,  TWPUrlRatingHandle *phRating);  TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,                               TWPResponseHandle *phResponse);  void TWPUinitLibrary (TWPLIB_HANDLE hLib); </pre>	

**Test Objectives:**

This test case verifies that the calling application can get URL from their rating.

**Test pre-conditions:**

validation plug-in.

**Test Procedure:**

1. Call `TWPInitLibrary ()`.
2. Verify that the API returns valid `TWPLIB_HANDLE` instead of `INVALID_TWPLIB_HANDLE`.
3. Call `TWPConfigurationCreate ()`.
4. Verify that the API returns `TWP_SUCCESS` rather than error.

<b>TC_SEC_WP_TWPRatingGetUrl_0001</b>	<b>TWP get URL from rating.</b>
<p>5. Call <code>TWPLookupUrls ()</code> with known test URL.</p> <p>6. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>7. Call <code>TWPResponseGetUrlRatingByUrl ()</code>.</p> <p>8. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>9. Call <code>TWPUrlRatingGetUrl ()</code>.</p> <p>10. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>11. Verify that the <code>ppUrl</code> contains correct URL.</p> <p>12. Verify that the <code>puLength</code> contains correct URL length.</p> <p>13. Call <code>TWPResponseDestroy ()</code>.</p> <p>14. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>15. Call <code>TWPConfigurationDestroy ()</code>.</p> <p>16. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>17. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPInitLibrary ()</code>.</p>	

#### **Test PASS Condition:**

Step 2 should pass verification.

Step 4 should pass verification.

Step 6 should pass verification.

Step 8 should pass verification.

Step 10 should pass verification.

Step 11 should pass verification.

Step 12 should pass verification.

Step 14 should pass verification.

Step 16 should pass verification.

#### **Test Clean-up procedure:**

No specific cleanup required.

## **5.35 Test Case TC\_SEC\_WP\_TWPRatingGetUrl\_0002**

<b>TC_SEC_WP_TWPRatingGetUrl_0002</b>	<b>TWP get URL from rating.</b>
<p><b><u>API Function(s) covered:</u></b></p> <pre>TWP_RESULT TWPUrlRatingGetUrl (TWPLIB_HANDLE hLib,                                 TWPUrlRatingHandle hRating,</pre>	

<b>TC_SEC_WP_TWPRatingGetUrl_0002</b>	<b>TWP get URL from rating.</b>
	<pre>const char **ppUrl, unsigned int *puLength);</pre>
<b>Test Objectives:</b>	
This test case verifies that the calling application can get error from stub library.	
<b>Test pre-conditions:</b>	
Stub library.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call TWPUrlRatingGetUrl () .</li> <li>2. Verify that the API returns error rather than TWP_SUCCESS.</li> </ol>	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.36 Test Case TC\_SEC\_WP\_TWPRatingGetDLAUrl\_0001

<b>TC_SEC_WP_TWPRatingGetDLAUrl_0001</b>	<b>TWP get DLA URL from rating.</b>
<b>API Function(s) covered:</b>	
	<pre>TWPLIB_HANDLE TWPInitLibrary (TWPInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                     TWPConfiguration *pConfigure,                                     TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,                            TWPResponseHandle *phResponse);  TWP_RESULT TWPUrlRatingGetDLAUrl (TWPLIB_HANDLE hLib,                                    TWPUrlRatingHandle hRating,</pre>

<b>TC_SEC_WP_TWPRatingGetDLAUrl_0001</b>	<b>TWP get DLA URL from rating.</b>
	<pre>         const char **ppDlaUrl,                     unsigned int *puLength);  TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                     TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,  TWPResponseHandle hResponse,  const char *pUrl,  unsigned int uUrlLength,  TWPUrlRatingHandle *phRating);  TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,                                TWPResponseHandle *phResponse);  void TWPUninitLibrary (TWPLIB_HANDLE hLib); </pre>

#### **Test Objectives:**

This test case verifies that the calling application can get DLA URL from their rating.

#### **Test pre-conditions:**

validation plug-in.

#### **Test Procedure:**

1. Call `TWPInitLibrary ()`.
2. Verify that the API returns valid `TWPLIB_HANDLE` instead of `INVALID_TWPLIB_HANDLE`.
3. Call `TWPConfigurationCreate ()`.
4. Verify that the API returns `TWP_SUCCESS` rather than error.
5. Call `TWPLookupUrls ()` with known test URL.
6. Verify that the API returns `TWP_SUCCESS` rather than error.
7. Call `TWPResponseGetUrlRatingByUrl ()`.
8. Verify that the API returns `TWP_SUCCESS` rather than error.
9. Call `TWPUrlRatingGetDLAUrl ()`.
10. Verify that the API returns `TWP_SUCCESS` rather than error.
11. Verify that the `ppDlaUrl` contains correct URL.
12. Verify that the `puLength` contains correct URL length.
13. Call `TWPResponseDestroy ()`.
14. Verify that the API returns `TWP_SUCCESS` rather than error.
15. Call `TWPConfigurationDestroy ()`.

<b>TC_SEC_WP_TWPRatingGetDLAUrl_0001</b>	<b>TWP get DLA URL from rating.</b>
	16. Verify that the API returns TWP_SUCCESS rather than error.
	17. Call TWPUninitLibrary () with the TWP library handle returned by TWPInitLibrary ().
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	
Step 11 should pass verification.	
Step 12 should pass verification.	
Step 14 should pass verification.	
Step 16 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.37 Test Case TC\_SEC\_WP\_TWPRatingGetDLAUrl\_0002

<b>TC_SEC_WP_TWPRatingGetDLAUrl_0002</b>	<b>TWP get DLA URL from rating.</b>
<b><u>API Function(s) covered:</u></b>	
	<pre>TWP_RESULT TWPUrlRatingGetDLAUrl (TWPLIB_HANDLE hLib,                                      TWPUrlRatingHandle hRating,                                      const char **ppDlaUrl,                                      unsigned int *puLength);</pre>
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get error from stub library.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	
1. Call TWPUrlRatingGetDLAUrl () .	
2. Verify that the API returns error rather than TWP_SUCCESS.	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	

---

<b>TC_SEC_WP_TWPRatingGetDLAUrl_0002</b>	<b>TWP get DLA URL from rating.</b>
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.38 Test Case TC\_SEC\_WP\_TWPRatingHasCategory\_0001

<b>TC_SEC_WP_TWPRatingHasCategory_0001</b>	<b>TWP check category.</b>
<b>API Function(s) covered:</b>	
<pre> TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,                            TWPResponseHandle *phResponse);  TWP_RESULT TWPUrlRatingHasCategory (TWPLIB_HANDLE hLib,                                     TWPUrlRatingHandle hRating,                                     TWPCategories Category,                                     int *piPresent);  TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,                                     TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,  TWPResponseHandle hResponse,  const char *pUrl,  unsigned int uUrlLength,  TWPUrlRatingHandle *phRating);  TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,                                TWPResponseHandle *phResponse);  void TWPUninitLibrary (TWPLIB_HANDLE hLib); </pre>	

<b>TC_SEC_WP_TWPRatingHasCategory_0001</b>	<b>TWP check category.</b>
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can check if rating contains specified category.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPInitLibrary ()</code>.</li> <li>2. Verify that the API returns <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li> <li>3. Call <code>TWPConfigurationCreate ()</code>.</li> <li>4. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>5. Call <code>TWPLookupUrls ()</code> with known test URL.</li> <li>6. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>7. Call <code>TWPResponseGetUrlRatingByUrl ()</code>.</li> <li>8. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>9. Call <code>TWPUrlRatingHasCategory ()</code>.</li> <li>10. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>11. Verify that the <code>piPresent</code> contains 1.</li> <li>12. Call <code>TWPResponseDestroy ()</code>.</li> <li>13. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>14. Call <code>TWPConfigurationDestroy ()</code>.</li> <li>15. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</li> <li>16. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPInitLibrary ()</code>.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification. Step 4 should pass verification. Step 6 should pass verification. Step 8 should pass verification. Step 10 should pass verification. Step 11 should pass verification. Step 13 should pass verification. Step 15 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

---

## 5.39 Test Case TC\_SEC\_WP\_TWPRatingHasCategory\_0002

TC_SEC_WP_TWPRatingHasCategory_0002	TWP check category.
<b><u>API Function(s) covered:</u></b>	
TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit); TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib, TWPConfiguration *pConfigure, TWPConfigurationHandle *phConfigure); TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib, TWPConfigurationHandle hConfigure, TWPRequest *pRequest, int iRedirUrlFlag, const char **ppUrls, unsigned int uCount, TWPResponseHandle *phResponse); TWP_RESULT TWPUrlRatingHasCategory (TWPLIB_HANDLE hLib, TWPUrlRatingHandle hRating, TWPCategories Category, int *piPresent); TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib, TWPConfigurationHandle *phConfigure); TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib, TWPResponseHandle hResponse, const char *pUrl, unsigned int uUrlLength, TWPUrlRatingHandle *phRating); TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib, TWPResponseHandle *phResponse); void TWPUninitLibrary (TWPLIB_HANDLE hLib);	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can check if rating contains specified category.	
<b><u>Test pre-conditions:</u></b>	
validation plug-in.	

<b>TC_SEC_WP_TWPRatingHasCategory_0002</b>	<b>TWP check category.</b>
<b>Test Procedure:</b>	
1. Call TWPInitLibrary () .	
2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.	
3. Call TWPConfigurationCreate () .	
4. Verify that the API returns TWP_SUCCESS rather than error.	
5. Call TWPLookupUrls () with known test URL.	
6. Verify that the API returns TWP_SUCCESS rather than error.	
7. Call TWPResponseGetUrlRatingByUrl () .	
8. Verify that the API returns TWP_SUCCESS rather than error.	
9. Call TWPUrlRatingHasCategory () .	
10. Verify that the API returns TWP_SUCCESS rather than error.	
11. Verify that the piPresent contains 0.	
12. Call TWPResponseDestroy () .	
13. Verify that the API returns TWP_SUCCESS rather than error.	
14. Call TWPConfigurationDestroy () .	
15. Verify that the API returns TWP_SUCCESS rather than error.	
16. Call TWPUninitLibrary () with the TWP library handle returned by TWPInitLibrary () .	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 6 should pass verification.	
Step 8 should pass verification.	
Step 10 should pass verification.	
Step 11 should pass verification.	
Step 13 should pass verification.	
Step 15 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.40 Test Case TC\_SEC\_WP\_TWPRatingHasCategory\_0003

<b>TC_SEC_WP_TWPRatingHasCategory_0003</b>	<b>TWP check category.</b>
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<b>TC_SEC_WP_TWPRatingHasCategory_0003</b>	<b>TWP check category.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWP_RESULT TWPUrlRatingHasCategory (TWPLIB_HANDLE hLib,                                      TWPUrlRatingHandle hRating,                                      TWPCategories Category,                                      int *piPresent);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can error from stub library.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPUrlRatingHasCategory () .</li> <li>2. Verify that the API returns error rather than TWP_SUCCESS.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.41 Test Case TC\_SEC\_WP\_TWPRatingGetCategories\_0001

<b>TC_SEC_WP_TWPRatingGetCategories_0001</b>	<b>TWP get all categories in rating.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                    TWPConfiguration *pConfigure,                                    TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount,</pre>	

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<b>TC_SEC_WP_TWPRatingGetCategories_0001</b>	<b>TWP get all categories in rating.</b>
--	--

```
        TWPResponseHandle *phResponse);  
TWP_RESULT TWPUrlRatingGetCategories (TWPLIB_HANDLE hLib,  
                                         TWPUrlRatingHandle hRating,  
                                         TWPCategories **ppCategory,  
                                         unsigned int *puLength);  
TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,  
                                    TWPConfigurationHandle *phConfigure);  
TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,  
                                         TWPResponseHandle hResponse,  
                                         const char *pUrl,  
                                         unsigned int uUrlLength,  
                                         TWPUrlRatingHandle *phRating);  
TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,  
                               TWPResponseHandle *phResponse);  
void TWPUinitLibrary (TWPLIB_HANDLE hLib);
```

**Test Objectives:**

This test case verifies that the calling application can get all categories in rating.

**Test pre-conditions:**

validation plug-in.

**Test Procedure:**

1. Call `TWPInitLibrary ()`.
2. Verify that the API returns valid `TWPLIB_HANDLE` instead of `INVALID_TWPLIB_HANDLE`.
3. Call `TWPConfigurationCreate ()`.
4. Verify that the API returns `TWP_SUCCESS` rather than error.
5. Call `TWPLookupUrls ()` with known test URL.
6. Verify that the API returns `TWP_SUCCESS` rather than error.
7. Call `TWPResponseGetUrlRatingByUrl ()`.
8. Verify that the API returns `TWP_SUCCESS` rather than error.
9. Call `TWPUrlRatingGetCategories ()`.
10. Verify that the API returns `TWP_SUCCESS` rather than error.
11. Verify that the `ppCategories` contains all categories that the rating has.
12. Verify that the `puLength` contains correct length.

<b>TC_SEC_WP_TWPRatingGetCategories_0001</b>	<b>TWP get all categories in rating.</b>
<p>13. Call <code>TWPResponseDestroy ()</code>.</p> <p>14. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>15. Call <code>TWPConfigurationDestroy ()</code>.</p> <p>16. Verify that the API returns <code>TWP_SUCCESS</code> rather than error.</p> <p>17. Call <code>TWPUninitLibrary ()</code> with the TWP library handle returned by <code>TWPInitLibrary ()</code>.</p>	

**Test PASS Condition:**

Step 2 should pass verification.

Step 4 should pass verification.

Step 6 should pass verification.

Step 8 should pass verification.

Step 10 should pass verification.

Step 11 should pass verification.

Step 12 should pass verification.

Step 14 should pass verification.

Step 16 should pass verification.

**Test Clean-up procedure:**

No specific cleanup required.

## 5.42 Test Case TC\_SEC\_WP\_TWPRatingGetCategories\_0002

<b>TC_SEC_WP_TWPRatingGetCategories_0002</b>	<b>TWP get all categories in rating.</b>
<b><u>API Function(s) covered:</u></b>	
<pre> TWPLIB_HANDLE TWPInitLibrary (TWPInitApi *pApiInit);  TWP_RESULT TWPConfigurationCreate (TWPLIB_HANDLE hLib,                                   TWPConfiguration *pConfigure,                                   TWPConfigurationHandle *phConfigure);  TWP_RESULT TWPLookupUrls (TWPLIB_HANDLE hLib,                            TWPConfigurationHandle hConfigure,                            TWPRequest *pRequest,                            int iRedirUrlFlag,                            const char **ppUrls,                            unsigned int uCount, </pre>	

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<b>TC_SEC_WP_TWPRatingGetCategories_0002</b>	<b>TWP get all categories in rating.</b>
--	--

```
        TWPResponseHandle *phResponse);  
TWP_RESULT TWPUrlRatingGetCategories (TWPLIB_HANDLE hLib,  
                                         TWPUrlRatingHandle hRating,  
                                         TWPCategories **ppCategory,  
                                         unsigned int *puLength);  
TWP_RESULT TWPConfigurationDestroy (TWPLIB_HANDLE hLib,  
                                    TWPConfigurationHandle *phConfigure);  
TWP_RESULT TWPResponseGetUrlRatingByUrl (TWPLIB_HANDLE hLib,  
                                         TWPResponseHandle hResponse,  
                                         const char *pUrl,  
                                         unsigned int uUrlLength,  
                                         TWPUrlRatingHandle *phRating);  
TWP_RESULT TWPResponseDestroy (TWPLIB_HANDLE hLib,  
                               TWPResponseHandle *phResponse);  
void TWPUinitLibrary (TWPLIB_HANDLE hLib);
```

**Test Objectives:**

This test case verifies that the calling application can get all categories in rating.

**Test pre-conditions:**

validation plug-in.

**Test Procedure:**

1. Call `TWPInitLibrary ()`.
2. Verify that the API returns valid `TWPLIB_HANDLE` instead of `INVALID_TWPLIB_HANDLE`.
3. Call `TWPConfigurationCreate ()`.
4. Verify that the API returns `TWP_SUCCESS` rather than error.
5. Call `TWPLookupUrls ()` with known test URL.
6. Verify that the API returns `TWP_SUCCESS` rather than error.
7. Call `TWPResponseGetUrlRatingByUrl ()`.
8. Verify that the API returns `TWP_SUCCESS` rather than error.
9. Call `TWPUrlRatingGetCategories ()`.
10. Verify that the API returns `TWP_SUCCESS` rather than error.
11. Verify that the `ppCategories` contains no category.
12. Call `TWPResponseDestroy ()`.

<b>TC_SEC_WP_TWPRatingGetCategories_0002</b>	<b>TWP get all categories in rating.</b>
	<p>13. Verify that the API returns TWP_SUCCESS rather than error.</p> <p>14. Call TWPConfigurationDestroy () .</p> <p>15. Verify that the API returns TWP_SUCCESS rather than error.</p> <p>16. Call TWPUninitLibrary () with the TWP library handle returned by TWPInitLibrary () .</p>
<b><u>Test PASS Condition:</u></b>	
<p>Step 2 should pass verification.</p> <p>Step 4 should pass verification.</p> <p>Step 6 should pass verification.</p> <p>Step 8 should pass verification.</p> <p>Step 10 should pass verification.</p> <p>Step 11 should pass verification.</p> <p>Step 13 should pass verification.</p> <p>Step 15 should pass verification.</p>	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.43 Test Case TC\_SEC\_WP\_TWPRatingGetCategories\_0003

<b>TC_SEC_WP_TWPRatingGetCategories_0003</b>	<b>TWP get all categories in rating.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWP_RESULT TWPUrlRatingGetCategories (TWPLIB_HANDLE hLib,  TWPUrlRatingHandle hRating,  TWPCategories **ppCategory,  unsigned int *puLength);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get error from stub library.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPUrlRatingGetCategories () .</li> <li>2. Verify that the API returns error rather than TWP_SUCCESS.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	

---

<b>TC_SEC_WP_TWPRatingGetCategories_0003</b>	<b>TWP get all categories in rating.</b>
Step 2 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.44 Test Case TC\_SEC\_WP\_TWPCheckURL\_0001

<b>TC_SEC_WP_TWPCheckURL_0001</b>	<b>TWP get the risk level.</b>
<b>API Function(s) covered:</b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPCheckURL(TWPLIB_HANDLE hLib, const char *pUrl, char **ppBlkUrl, unsigned int *puBlkUrlLen, int *pRiskLevel);</pre>	
<b>Test Objectives:</b>	
This test case verifies that the calling application can get riskLevel and redirect URL.	
<b>Test pre-conditions:</b>	
Validation plug-in.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call TWPIInitLibrary () .</li> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPCheckURL () with High risk URL.</li> <li>4. Verify that the API returns TWP_SUCCESS.</li> <li>5. Verify returned risk level is TWP_High and contains a redirect URL with length greater than zero.</li> </ol>	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 5 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.45 Test Case TC\_SEC\_WP\_TWPCheckURL\_0002

<b>TC_SEC_WP_TWPCheckURL_0002</b>	<b>TWP get the risk level.</b>
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<b>TC_SEC_WP_TWPCheckURL_0002</b>	<b>TWP get the risk level.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPCheckURL(TWPLIB_HANDLE hLib, const char *pUrl, char **ppBlkUrl, unsigned int *puBlkUrlLen, int *pRiskLevel);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get riskLevel and redirect URL.	
<b><u>Test pre-conditions:</u></b>	
Validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPIInitLibrary () .</li> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPCheckURL () with Medium risk URL.</li> <li>4. Verify that the API returns TWP_SUCCESS.</li> <li>5. Verify returned risk level is TWP_Medium and contains a redirect URL with length greater than zero.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
Step 5 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.46 Test Case TC\_SEC\_WP\_TWPCheckURL\_0003

<b>TC_SEC_WP_TWPCheckURL_0003</b>	<b>TWP get the risk level.</b>
<b><u>API Function(s) covered:</u></b>	
<pre>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);  TWP_RESULT TWPCheckURL(TWPLIB_HANDLE hLib, const char *pUrl, char **ppBlkUrl, unsigned int *puBlkUrlLen, int *pRiskLevel);</pre>	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get riskLevel and redirect URL.	
<b><u>Test pre-conditions:</u></b>	
Validation plug-in.	

<b>TC_SEC_WP_TWPCheckURL_0003</b>	<b>TWP get the risk level.</b>
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call TWPInitLibrary () .</li> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPCheckURL () with Unverified URL.</li> <li>4. Verify that the API returns TWP_SUCCESS.</li> <li>5. Verify returned risk level is TWP_Unverified and contains a redirect URL with length greater than zero.</li> </ol>	
<b>Test PASS Condition:</b>	
<p>Step 2 should pass verification.</p> <p>Step 4 should pass verification.</p> <p>Step 5 should pass verification.</p>	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.47 Test Case TC\_SEC\_WP\_TWPCheckURL\_0004

<b>TC_SEC_WP_TWPCheckURL_0004</b>	<b>TWP get the risk level.</b>
<b>API Function(s) covered:</b>	
<pre>TWPLIB_HANDLE TWPInitLibrary (TWPInitApi *pApiInit); TWP_RESULT TWPCheckURL(TWPLIB_HANDLE hLib, const char *pUrl, char **ppBlkUrl, unsigned int *puBlkUrlLen, int *pRiskLevel);</pre>	
<b>Test Objectives:</b>	
This test case verifies that the calling application can get riskLevel and redirect URL.	
<b>Test pre-conditions:</b>	
Validation plug-in.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call TWPInitLibrary () .</li> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPCheckURL () with Minimal risk URL.</li> <li>4. Verify that the API returns TWP_SUCCESS.</li> <li>5. Verify returned risk level is TWP_Minimal and contains a redirect URL with length greater than zero.</li> </ol>	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	

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<b>TC_SEC_WP_TWPCheckURL_0004</b>	<b>TWP get the risk level.</b>
Step 4 should pass verification.	
Step 5 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.48 Test Case TC\_SEC\_WP\_TWPCheckURL\_0005

<b>TC_SEC_WP_TWPCheckURL_0005</b>	<b>TWP get the risk level.</b>
<b>API Function(s) covered:</b>	
<code>TWPRiskLevel TWPCheckURL(TWPLIB_HANDLE hLib, const char *pUrl, char **ppBlkUrl, unsigned int *puBlkUrlLen);</code>	
<b>Test Objectives:</b>	
This test case verifies that the calling application can get error from stub library.	
<b>Test pre-conditions:</b>	
Stub library.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call TWPCheckURL () with INVALID_TWPLIB_HANDLE .</li> <li>2. Verify the API does not return TWP_SUCCESS.</li> </ol>	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.49 Test Case TC\_SEC\_WP\_TWPGetVersion\_0001

<b>TC_SEC_WP_TWPGetVersion_0001</b>	<b>TWP get the Framework and Plugin version.</b>
<b>API Function(s) covered:</b>	
<code>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);</code>	
<code>TWP_RESULT TWPGetVersion(TWPLIB_HANDLE hLib, TWPVerInfo *pVerInfo);</code>	
<b>Test Objectives:</b>	
This test case verifies that the calling application can get version number of Framework and Plugin.	
<b>Test pre-conditions:</b>	

<b>TC_SEC_WP_TWPGetVersion_0001</b>	<b>TWP get the Framework and Plugin version.</b>
Validation plug-in.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call TWPInitLibrary () .</li> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPGetVersion () with handle.</li> <li>4. Verify that the API returns TWP_SUCCESS.</li> <li>5. Verify string length of plugin version is greater than zero.</li> <li>6. Verify string length of framework version is greater than zero.</li> <li>7. Verify the framework version matches in format and value with TWP_FRAMEWORK_VERSION.</li> </ol>	
<b>Test PASS Condition:</b>	
<p>Step 2 should pass verification.</p> <p>Step 4 should pass verification.</p> <p>Step 5 should pass verification.</p> <p>Step 6 should pass verification.</p> <p>Step 7 should pass verification.</p>	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.50 Test Case TC\_SEC\_WP\_TWPGetVersion\_0002

<b>TC_SEC_WP_TWPGetVersion_0002</b>	<b>TWP get the framework and plugin version.</b>
<b>API Function(s) covered:</b>	
<pre>TWP_RESULT TWPGetVersion(TWPLIB_HANDLE hLib, TWPVerInfo *pVerInfo);</pre>	
<b>Test Objectives:</b>	
This test case verifies that the calling application can get error from stub library.	
<b>Test pre-conditions:</b>	
Stub library.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call TWPGetVersion () with INVALID_TWPLIB_HANDLE .</li> <li>2. Verify that the API returns TWP_INVALID_PARAMETER .</li> </ol>	
<b>Test PASS Condition:</b>	

<b>TC_SEC_WP_TWPGetVersion_0002</b>	<b>TWP get the framework and plugin version.</b>
Step 2 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.51 Test Case TC\_SEC\_WP\_TWPGetVersion\_0003

<b>TC_SEC_WP_TWPGetVersion_0003</b>	<b>TWP get the Framework and Plugin version.</b>
<b>API Function(s) covered:</b>	
<code>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);</code>	
<code>TWP_RESULT TWPGetVersion(TWPLIB_HANDLE hLib, TWPVerInfo *pVerInfo);</code>	
<b>Test Objectives:</b>	
This test case verifies that the calling application gets error from library.	
<b>Test pre-conditions:</b>	
Validation plug-in.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPIInitLibrary ()</code>.</li> <li>2. Verify that the API returns valid <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li> <li>3. Call <code>TWPGetVersion ()</code> with handle and NULL for <code>TWPVerInfo</code> Parameter.</li> <li>4. Verify that the API returns <code>TWP_INVALID_PARAMETER</code>.</li> </ol>	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.52 Test Case TC\_SEC\_WP\_TWPGetInfo\_0001

<b>TC_SEC_WP_TWPGetInfo_0001</b>	<b>TWP get meta information.</b>
<b>API Function(s) covered:</b>	
<code>TWPLIB_HANDLE TWPIInitLibrary (TWPIInitApi *pApiInit);</code>	
<code>TWP_RESULT TWPGetInfo(TWPLIB_HANDLE hLib, char *pszInfo);</code>	

<b>TC_SEC_WP_TWPGetInfo_0001</b>	<b>TWP get meta information.</b>
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get the meta information.	
<b><u>Test pre-conditions:</u></b>	
Validation plug-in.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPInitLibrary () .</li> <li>2. Verify that the API returns valid TWPLIB_HANDLE instead of INVALID_TWPLIB_HANDLE.</li> <li>3. Call TWPGetInfo () with handle.</li> <li>4. Verify that the API returns TWP_SUCCESS.</li> <li>5. Verify string length of meta information is greater than zero.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification. Step 4 should pass verification. Step 5 should pass verification.	
<b><u>Test Clean-up procedure:</u></b>	
No specific cleanup required.	

## 5.53 Test Case TC\_SEC\_WP\_TWPGetInfo\_0002

<b>TC_SEC_WP_TWPGetInfo_0002</b>	<b>Check if API handles invalid input.</b>
<b><u>API Function(s) covered:</u></b>	
TWP_RESULT TWPGetInfo (TWPLIB_HANDLE hLib, char *pszInfo);	
<b><u>Test Objectives:</u></b>	
This test case verifies that the calling application can get error from stub library.	
<b><u>Test pre-conditions:</u></b>	
Stub library.	
<b><u>Test Procedure:</u></b>	
<ol style="list-style-type: none"> <li>1. Call TWPGetInfo () with INVALID_TWPLIB_HANDLE .</li> <li>2. Verify that the API returns TWP_INVALID_PARAMETER.</li> </ol>	
<b><u>Test PASS Condition:</u></b>	
Step 2 should pass verification.	

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<b>TC_SEC_WP_TWPGetInfo_0002</b>	<b>Check if API handles invalid input.</b>
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

## 5.54 Test Case TC\_SEC\_WP\_TWPGetInfo\_0003

<b>TC_SEC_WP_TWPGetInfo_0003</b>	<b>Check if API handles invalid input.</b>
<b>API Function(s) covered:</b>	
<pre>TWPLIB_HANDLE TWPLibInitLibrary (TWPLibInitApi *pApiInit); TWP_RESULT TWPGetInfo(TWPLIB_HANDLE hLib, char *pszInfo);</pre>	
<b>Test Objectives:</b>	
This test case verifies that the calling application gets error from library.	
<b>Test pre-conditions:</b>	
Validation plug-in.	
<b>Test Procedure:</b>	
<ol style="list-style-type: none"> <li>1. Call <code>TWPInitLibrary ()</code>.</li> <li>2. Verify that the API returns valid <code>TWPLIB_HANDLE</code> instead of <code>INVALID_TWPLIB_HANDLE</code>.</li> <li>3. Call <code>TWPGetInfo ()</code> with handle and NULL for <code>pszInfo</code> Parameter.</li> <li>4. Verify that the API returns <code>TWP_INVALID_PARAMETER</code>.</li> </ol>	
<b>Test PASS Condition:</b>	
Step 2 should pass verification.	
Step 4 should pass verification.	
<b>Test Clean-up procedure:</b>	
No specific cleanup required.	

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## 6 Test Guide

To run test cases, we need to have:

- TWP plug-in for test purpose
- Test contents
- Test cases
- TWP security framework

Test cases need to be compiled with TWP security framework. A TWP plug-in need to be created which can lookup the test contents as expected. All test contents, test cases and test TWP plug-in will be provided as a test suite along with coordinate script file which will automate the test process.

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## 7 Test Contents

URL	Categories	Score
<a href="http://twp.test.drugs">http://twp.test.drugs</a>	Drugs	8
<a href="http://twp.test.gambling">http://twp.test.gambling</a>	Gambling	14
<a href="http://twp.test.malicioussites">http://twp.test.malicioussites</a>	Malicioussites	29
<a href="http://twp.test.pornography">http://twp.test.pornography</a>	Pornography	47
<a href="http://twp.test.phishing">http://twp.test.phishing</a>	Phishing	67
<a href="http://twp.test.spamurls">http://twp.test.spamurls</a>	Spamurls	69
<a href="http://twp.test.maliciousdownloads">http://twp.test.maliciousdownloads</a>	Maliciousdownloads	28
<a href="http://twp.test.potentiallyunwantedprograms">http://twp.test.potentiallyunwantedprograms</a>	Potentiallyunwantedprograms	105
<a href="http://twp.test.games">http://twp.test.games</a>	Games	15
<a href="http://twp.test.health">http://twp.test.health</a>	Health	18
<a href="http://twp.test.chat.browserexploits">http://twp.test.chat.browserexploits</a>	Chat / Browserexploits	100
<a href="http://twp.test.remoteaccess.drugs">http://twp.test.remoteaccess.drugs</a>	Remoteaccess / Drugs	8
<a href="http://twp.test.sports.games">http://twp.test.sports.games</a>	Sports / Games	15
<a href="http://twp.test.searchengines.spamurls">http://twp.test.searchengines.spamurls</a>	Searchengines / Spamurls	43
<a href="http://twp.test.spywareadwarekeyloggers.phishing">http://twp.test.spywareadwarekeyloggers.phishing</a>	Spywareadwarekeyloggers / Phishing	48
<a href="http://twp.test.webads.malicioussites">http://twp.test.webads.malicioussites</a>	Webads / Malicioussites	29
<a href="http://twp.test.travel.porngraphy.tobacco">http://twp.test.travel.porngraphy.tobacco</a>	Travel / Porngraphy / Tobacco	47