

Crosscheck SOAPSonar HP Quality Center

Integration Guide

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INTRODUCTION

Crosscheck Networks SOAPSonar provides simple, intuitive features that can be effectively utilized by all IT personnel throughout the service deployment lifecycle. The purpose is to provide a testing solution to facilitate robust, resilient, and reliable web services.

With comprehensive features supporting aspects of functional, performance, interoperability, and security testing, the SOAPSonar testing solution empowers developers, testers, support engineers, compliance officers, and business owners to optimize the lifecycle of a project deployment.

HP Quality Center is designed to address the wide-ranging challenges that your quality assurance professionals face. By leveraging consistent, repeatable and standardized software quality processes, it helps your quality assurance teams turn quality into a competitive advantage.

HP Quality Center software quality management tools help your organization:

- Gain real-time visibility into requirements coverage and associated defects to paint a clear picture of business risk
- Manage the release process and make more informed release decisions with real-time KPIs and reports
- Measure progress and effectiveness of quality activities
- Collaborate in the software quality lifecycle with a single global platform
- Manage manual and automated testing assets centrally
- Facilitate standardized testing and quality processes that boost productivity through workflows and alerts
- Lower costs by using QA testing tools to capture critical defects before they reach production

List of Features

- HP Quality Center Project Browsing Console
- Publish Test Run Results to Quality Center Project
- Uploading and Downloading Attachments
- Linking Data Sources to Quality Center Attachments
- Browsing and Creating Defects

Coverage of Integration

The SOAPSonar integration with HP Quality Center is focused on Project navigation, uploading and downloading files to and from the Quality Center server, publishing Test Run results within the project, linking to attachments dynamically, and launching SOAPSonar tests from within Quality Center.

Quality Center Integration Prerequisites

Quality Center installation requirements

SOAPSonar requires only the OTAClient.dll in order to communicate with the HP Quality Center server. To install this DLL on the machine where SOAPSonar is running, simply open a web browser and point to the URI location of the HP Quality Center service. The first access to the HP Quality Center server will download the OTAClient.dll file locally. Copy this file to the SOAPSonar installation directory to use the native HP Quality Center integration features.

Supported Operating Systems

Windows 2000, XP, Vista, and 2008.

Localization Environments

English.

User Privileges

The HP Quality Center integration requires that SOAPSonar be installed and run with a user account with Administrative privileges.

Product Minimum Requirements

1 GB RAM, 1 GHz CPU, 250 MB Free Space

3rd Party Software Requirements

SOAPSonar requires .NET Framework 2.0 to be installed.

Uninstall Instructions

Use the add/remove programs menu to uninstall the product.

Limitations

The HP Quality Center integration is not meant to be a replacement for the remote project access features supported directly from Quality Center. The integration is specifically limited to Test Run publishing and limited feature for Test Instance, Test Set, Attachment, and Defect browsing.

Using Extended Storage to Read and Write Attachments

The ability to read and write attachments to and from Quality Center are dependent upon permissions granted through the Quality Center API Extended Storage object. Quality Center disables the feature by default. To enable this feature, you must set a custom entry in the Quality Center Site Admin interface. On the **Site Configuration** tab of Quality Center Site Administration, add the parameter **DISABLE_EXTENDED_STORAGE** and set the value to **N**.

Known Bugs

No known bugs.

API Function Calls

The HP Quality Center integration uses the OTAClient.dll integration API. The classes methods and properties used for this integration are listed below.

TDAPIOLELib.TDConnection

```
InitConnectionEx(server)
Login(username, password)
Connected()
ProjectConnected()
LoggedIn()
VisibleDomains()
VisibleProjects(domain)
Disconnect()
Logout()
```

TDAPIOLELib.AttachmentFactory

NewList() AddItem() Post()

TDAPIOLELib.IExtendedStorage

AttachmentStorage()
Load(filename)
RemoveItem(attach)

TDAPIOLELib.BugFactory

NewList()

TDAPIOLELib.Bug

Status AssignedTo Priority Summary

TDAPIOLELib.LinkFactory

NewList() TargetEntity

TDAPIOLELib.Test

ID Name

TDAPIOLELib.TestSet

Name Post()

TDAPIOLELib.TestSetTreeManager

AddNode() Root NodeByPath(path)

TDAPIOLELib.TestSetFolder

AddNode() FindTestInstances() FindTestSets
NewList()

TDAPIOLELib.TestSetTreeManager

TreeRoot(name)
NodeByPath(path)
NewList()
FindTests()

TDAPIOLELib.RunFactory

NewList() Name Status Field() Filter

TDAPIOLELib.Run

Name Field Post()

TDAPIOLELib.TSTest

Status Post()

TDAPIOLELib.Step

Status Field() Post()

HP QUALITY CENTER INTEGRATION : EMBEDDED

SOAPSonar provides native integration with HP Quality Center allowing test run information to be published directly into HP Quality Center and tests can be run from either within a Quality Center project, or separately from the SOAPSonar console or command-line interface. SOAPSonar also provides an HP Quality Center console allowing browsing Test Instances, Test Sets, Defects, and Attachments. SOAPSonar projects can now be managed and stored directly within an HP Quality Center project.

SOAPSonar Embedded Integration Features

The embedded HP Quality Center features provide the means to login to an HP Quality Center project on the project server and access the Test Instance, Test Plan, and Defect, and Attachment information. To use the embedded HP Quality Center features, you will first need to access the HP Quality Center server from a web browser on the machine where SOAPSonar is running. This process will ensure that the required OTAClient.dll library is copied and registered locally on the machine. Once you have accessed the HP Quality Center project, you will then need to copy the OTAClient.dll file into the SOAPSonar installation directory. After that you will have access to all of the embedded HP Quality Center features.

HP Quality Center Console

To access an HP Quality Center Project information, go to the **Tools->HP Quality Center Console**. This will allow you to login and view project information.

File Mode	Tools	Library	Updates	Registrati
Broject)	粥 PK	I Managen	nent	
- Project V	MP Quality Center Console			
🖻 📙 🕼	C) UE)DI Browse	r	
	<> XI	AL Viewer		

Login Screen

To access an HP Quality Center project, the Server URL, username, and password must be provided. The Server URL is the same HTTP endpoint that was used to access the HP Quality Center project via a web browser from the client machine. It is usually in the format http://server:port/qcbin.

Server URL:	http://10.5.1.101:8080/acbin	
	Login Ni	ame: alex_qc
	Passv	vord:
		Authenticate
	Don	nain: 💌
	Proj	ect: 💌
		Cogin

Project Viewer

Once the credentials have been provided and the corresponding Domain and Project selected, the project information will be shown for the Test Plan, Test Lab, and Defects.

💯 Quality C	🛛 Quality Center Remote Console							
4 HP Softwar	'e		CROS					
Quality Center	Domain: DEFAULT	, Project: Qua	alityCenter_Demo, User: alex_qc	LOGOUT				
Test Plan	Root BPT tests (Flight) Completed BPT Tutorial Mercury Tours Web Site Release 10.5 SOAPSonarTests def def TestSet1 Xyz Set1	Description	Attachments (0)					

Uploading and Downloading Files Directly To HP Quality Center Server

Local files can be stored to the HP Quality Center project on the server. To upload files to the server, select on a project object that supports attachments. These include Test Instance, Test Folder, Test Set, and Defects. Each of these screens will show an attachment tab. Selecting the attachment tab will provide the menu options to upload or download attachments. Attachments can be any file type, including SOAPSonar project files or XML result log files.

🖻 Quality C	ente	r Remote (Console				
HP Software Certified Application							
Quality Center					Domain: DEFAU	ULT, Project: QualityCenter_Demo, User:a	lex_qc LOGOUT
	Filter b	y ID	▶ 33				
	ID	Status	Assigned To	Priority	Summary		
Test Plan	33	Open	mary_qc	2-Medium	The average res	sponse time for the Sign-Off Page download	transaction exceede
rescridit							
	Descrip	ption Comments	Attachments (1)				
Test Lab	Attacl	h: 🥢 🛃 S	ave As 🔀 [Delete			
1001 200	Name	•			Size	Modified	
	BUG_	33_Transaction Res	sponse Time xls		20 KB	3/26/2009 6:21:11 PM	
Defects							
							Close

Automatically Publish Test Results to HP Quality Center

SOAPSonar test results can be published to HP Quality Center as a test run. There are 2 settings you can choose for test run publishing. The first option links all test results to a selected Test Instance. The second option links test results based on the Suite Test Group to a target Test Set with associated Test Instances.

Publish Option #1: Link Results to Test instance

Publish Results to HP Quality Center Project	Link Results to Test Instance	*		Link Settings	
--	-------------------------------	---	--	---------------	--

With this option selection, test runs are allocated to a Test Instance that has been associated with a Test Set. To configure SOAPSonar to automatically publish test results to HP Quality Center as a new Test Run, go to **Run View** and click on the **Publish Results to HP Quality Center** checkbox and then click on the **Link Settings** button. Enter the credentials for accessing the Quality Center project, then navigate to the **Test Lab, Test Set**, and **Test Instance** that corresponds to the Test Instance where you want to publish the test results as a new Test Run.

🖬 Quality C	enter Remote Console			
V Linked Project I Active S	Test Set Test Instance from HP Que Path: Root\SOAPSonarTests\S election: [1]SSTestSuite	a lity Center project Test Lab. STestSet1	CR	OSS)(CHECK
Quality Center		Domain: DEFAULT, F	Project: QualityCenter_Demo, User:alex_	.qc LOGOUT
Test Plan	Root BPT tests (Right) Completed BPT Tutorial Mercury Tours Web Site Sam_SS_Testing SOAPSonarTests SSTestSet1 SSTestSet2	Description Attachments (2) Plan: Test Name [1]SSTestSuite [1]SSTestSuite2	Plan: Type SYSTEM-TEST VAPI-XP-TEST	Tester alex_qc alex_qc
			Ok	Cancel

Publish Option #2: Link Groups to Test Set

Publish Results to HP Quality Center Project Link Groups to Test Set Link Settings

With this option selection, test runs are segmented by Test Suite Group name and them mapped to each Test Instance associated with the target Test Set. To configure SOAPSonar to automatically publish test

results to HP Quality Center as a new Test Run, then go to **Run View** and click on the **Publish Results** to HP Quality Center checkbox and then click on the Link Settings button. Enter the credentials for accessing the Quality Center project, then navigate to the **Test Lab**, and **Test Set** that corresponds to the Test Set where you want to map the Test Suite Group results to the Test Instances that have been defined for the Test Set.



Manually Publish Test Results to HP Quality Center

SOAPSonar test results can be published to HP Quality Center as a test run manually from a previous run log file. To manually publish test results from a previous test run to Quality Center, go to Report View, click on a result file, then click the Publish to Quality Center button.

File	Mode	Tools	Library	Updates	Registration	Help	
0	Project \	/iew	🙆 Rur	n View	Report	View	
💿 🔀		≪⁺ 😂	7				
Repo	rting and	d Loaain	<u>ا</u> [Publish Pas	s/Fail Results to	HP Qualit	y Center Project

There are 2 settings you can choose for test run publishing. The first option links all test results to a selected Test Instance. The second option links test results based on the Suite Test Group to a target Test Set with associated Test Instances.

Publish Option #1: Link Results to Test instance

HP Quality	Center Test Result Link Settings	×					
Opt	Options for Test Results Linking to Quality Center						
0	Link Results to QC Test Instance						
0	O Link Test Suite Groups to QC Test Set						
	OK Cancel	.::					

With this option selection, test runs are allocated to a Test Instance that has been associated with a Test Set. Enter the credentials for accessing the Quality Center project, then navigate to the **Test Lab**, **Test Set**, and **Test Instance** that corresponds to the Test Instance where you want to publish the test results as a new Test Run.

🖬 Quality C	enter Remote Console		
Linked Project F Active S	Test Set Test Instance from HP Qua Path: Root\SOAPSonarTests\SS election: [1]SSTestSuite	ality Center project Test Lab. STestSet1	CROSSYCHECK
Quality Center		Domain: DEFAULT, Pr	oject: QualityCenter_Demo, User: alex_qc LOGOUT
Test Plan Test Lab	Root BPT tests (Flight) Completed BPT Tutorial Mercury Tours Web Site Release 10.5 Sam_SS_Testing SOAPSonarTests SSTestSet1 SSTestSet2	Description Attachments (2) Plan: Test Name [1]SSTestSuite [1]SSTestSuite2	Plan: Type Tester SYSTEM-TEST alex_qc VAPI-XP-TEST alex_qc
Derects			
			Ok Cancel

Publish Option #2: Link Groups to Test Set

HP Quality Center Test Result Link Settings	×		
Options for Test Results Linking to Quality Center			
C Link Results to QC Test Instance			
O Link Test Suite Groups to QC Test Set			
	J		
OK Cancel			

With this option selection, test runs are segmented by Test Suite Group name and them mapped to each Test Instance associated with the target Test Set. Enter the credentials for accessing the Quality Center project, then navigate to the **Test Lab**, and **Test Set** that corresponds to the Test Set where you want to map the Test Suite Group results to the Test Instances that have been defined for the Test Set.



Dynamically Link to Quality Center Attachments for SOAPSonar Data Sources

SOAPSonar can be configured to dynamically link to a CSV or Excel file attachment in an HP Quality Center project for use as an Automation Data Source.

To enable the ability to perform dynamic file linking, go to the Setttings and Preferences from the File menu and select the HP Quality Center tab. Click on the checkbox for attachment linking.

SOAPSonar Settings
Project Test Settings Suite Settings Email Settings Global Proxy Settings Global Variables HP Quality Center
- Quality Center Integration Settings
Enable linking to attachments in HP Quality Center project repository

Once the setting above is enabled, when you are viewing file based data sources (CSV and Excel), the HP QC link button will appear next to the browse button. Click this button to browse an HP QC project for an attachment to link as the target data source.

Project Tree Suites	Automation Da	ata Sources	
🖃 🎒 training.asmx	A py 🖓 🛛 🖉	lew Automation Data Source	
🖬 🗁 Configuration	EXCEL		
Project Libraries Policy Settings	Excel "HPQC::BUG_21_	Transaction Response Time.xls"	
Data Sources	Alias:	HPQC::BUG_21_Transaction Response Time xls	
Documents WSDL Services	Link:	HPQC::BUG_21_Transaction Response Time.xls	à
🖻 🔝 Training	Worksheet Index:	0 🔠 Data Series in Rows 🗸 Reference ID: {bf9401a2}	
	Data Variables:	Relative Time	
🖻 🧯 Echo	Encode XML Tags:		
Echo_1	Limit Rows:		
Echo_3	Null Value:		
talues ⊡			
		ОК	

Once an attachment is selected from either a Test Plan, Test Lab, or Defect object the link indicator at the top of the screen will appear with a check indicating the link has been established.

🖬 Quality C	enter Remote Console			
✓ Linked a Project P Active Se Contified Application	ttachment from HP Quality Cente lath: Root\SOAPSonarTests\S: election: CYCLE_197_TenRecords	r project. STestSet1 .xks		CROSS XCHE CK
Quality Center	Root PT tests (Flight) PT completed BPT Titorial	Description Attachments (2)	Domain: DEFAULT, Project: Qualit	tyCenter_Demo, User: alex_qc
Test Plan	Comprove the State Comprove Web State Comprove Web State Comprove Web State Comprove S	Name CYCLE_197_TenRecords.xls CYCLE_197_DynamicInputAndResponse.	Size 14 KB Sty 1 KB	Modified 5/23/2008 10:34:04 PM 1/25/2007 10:41:51 PM
Defects		<	ш Т	Ok Cancel

HP QUALITY CENTER INTEGRATION : VAPI-XP-TEST

SOAPSonar Automation and Platinum Editions provide the ability to integrate with HP Quality Center to run tests from within Quality Center and have test results reported back into Quality Center for bug tracking, workflow analysis, and other standard Quality Center features. HP Quality Center integration is supported for QA mode tests where results are in pass/fail format.

SOAPSonar Generated HP Quality Center Test Script

SOAPSonar automatically builds the HP Quality Center VAPI-XP-TEST VBScript for any test suite. This test script is then used by HP Quality Center to invoke SOAPSonar and run the test suite and report the test suite results as a test run.

To create the HP Quality Center test script from within the SOAPSonar interface, choose the active test suite to run and then click the icon to open the HP Quality Center script generator.

	Active Test Suite:			
	DefaultSuite	- 🗳 😫 🛓		
₽ ▲ ◎	Contract Contrect Contract Contract Contract Contract Contract Contract Contrac			

Scripts can be generated on SOAPSonar instances which are not running on the HP Quality Center machine, but the test themselves are run from the SOAPSonar instance installed on the Quality Center machine. To generate the test script with the applicable path settings, enter the SOAPSonar install path and directory where the SOAPSonar project file is stored for the HP Quality Center machine. If you are unsure, these values can be edited later directly in the script. Click the "Generate Test Script" button to proceed.

HP Quality Center Script Generator				
Use this dialog to generate an integration test script which can be used to run the SOAPSonar test suite from within HP Quality Center and have the test results reported back into Quality Center for bug reporting, workflow analysis, etc.				
1. Enter the path values below where SOAPSonar has been installed on the HP Quality Center machine.				
2. Press the generate script button to create the test script.				
3. Follow the online Help instructions for running the test script using HP Quality Center				
HP Quality Center Environment Settings				
SOAPSonar Install Path				
C:\Program Files\Crosscheck Networks\SOAPSonar Enterprise 3				
SOAPSonar Project Directory				
C:\SOAPSonarProjects				
Generate Text Societ				

Integrate the SOAPSonar Test Script into HP Quality Center

1. After logging in to HP Quality Center, click the Test Plan button from the left panel. The Test Plan area allows you to set up your automated test and custom scripts for Quality Center.



2. In the Test Plan Tree that appears, click the "New Folder" toolbar button.

MERCU	RY"
Quality Cen	iter
«	Tests Edit View Favorites Analysis
*	💶 🗈 × 🔗 🕆 • 😫 ► 🖃 • 🗣
Requirements	🚬 Subject ⊡?⊇ Unattached
	BPT Resources Compiled Modules
Test Plan	E Cruises ⊡ Flight Application (BPT Demo)
rest Plan	Emiliarian Flight Reservation Emiliarian Itinerary
<u> </u>	I ∰ in Mercury Tours Site I III In Profiling

3. Enter a folder name. This example uses "SOAPSonar Test Plan" for the folder name.

New Folder	X
Folder Name :	
SOAPSonar Test Plan	
	_
OK Cancel Help	

4. Highlight the newly created folder and then click the "New Test" toolbar button.



5. In the Create New Test dialog, select VAPI-XP-TEST as the test type and enter a test name. This example uses "SOAPSonar Test" as the test name. Press OK.

Create New	Test	X	
Test Type:	MANUAL	•	
Test Name:	MANUAL WR-AUTOMATED	-	
ок	VAPI-XP-TEST LR-SCENARIO		
SYSTEM-TEST			

Create New Test			
Test Type:	VAPI-XP-TEST	-	
Test Name: SOAPSonar Test			
ОК	Cancel Help		

6. Choose the Level, Review Status, and Priority for this test from the available options. Press OK.

Required Fields	×
All fields are required.	
Required Fields	
* Level: Medium 👻 * Priority: 2-Medium	
* Reviewed 👻	
OK Cancel	

7. Choose VBScript as the script type and enter a script name. This example uses "SOAPSonarScript" for the script name. Click Finish

Mercury VAPI-XP Wizard				
Select a test script lar	nguage:			
Script Language	VBScript 💌			
Script Name	SOAPSonarScript			
Create a Mercury Loa Note: You can create	dRunner Vuser (virtual user). virtual users only if you are working with VBScript or JScript.			
Create a Mercury	LoadRunner Vuser			
	<< Prev Next >> Finish Help			

8. Select the Test Script tab. A default script template will have been created from the steps above. Press CTRL-A to select all of the text and then press the DELETE key to delete it.

Detai	Is Design Steps Test Script * Attachments Req Coverage Linked Defects
File	<u>E</u> dit <u>S</u> earch <u>V</u> iew <u>T</u> est <u>D</u> ebug <u>O</u> ptions <u>H</u> elp
	' SOAPSonar Ping Test [VBScript] ' Created by Quality Center ' 9/11/2007 10:50:07 AM ' ====================================
	/ / Main Test Function

9. Open the SOAPSonar HP Quality Center test script saved from the <u>Generate Test Script</u> section above. Copy the contents of the SOAPSonar script file into the Test Script area.



10. Verify that all of the paths and filenames point to the proper locations for the current machine then click the Save button.

11. Select the Test Lab button on the left. The Test Lab area allows you to combine the tests to run interactively.

MERCURY"						
Quality Cen	iter					
Requirements Test Plan	Test Sets Edit View Tests Image: Set in the	Analysis	Attachments	Live Analysis		
Test Lab						

12. Create a new Folder by clicking on the New Folder toolbar button and enter a folder name. This example uses "SOAPSonar Test Lab" for the folder name.

New Folder	x
Folder Name :	
SOAPSonar Test Lab	
	_
OK Cancel Help	

13. Click on the "New Test Set" toolbar button and enter a test set name a description for the test. This example uses "SOAPSonar Test Set" as the test set name.

New Test Set		×
Test Set Folder:	SOAPSonar Test Lab	
Test Set Name:	SOAPSonar Test Set	
Description:		
SOAPSonar Test	t	B
		U
		I
		A -
ОК	Cancel Help	

14. On the right side of the screen you will see the test plan folder created earlier. Within this folder is the newly created test. Drag this test to the Execution grid.

Select Tests	🕨 Run 🝷 👔 Run T	Test Plan Tree Requirements Tree						
Execution Grid	Execution Flow T	(⇒ 5, ▼ ·) M						
0 ! 🏲 Plan: Test Name		Plan: Type	Status	Planne	Subject ⊕ ?∄ Unattached			
👘 [1]SC)APSonar Test	VAPI-XP-TEST	No Run		Compiled Modules			
					Flight Application (BPT Demo) Flight Reservation			
					tinerary terminerary terminerary terminerary terminerary terminerary terminerary terminerary terminerary terminerary terminerary			
		Drag / Drop			SOAPSonar Test Plan □			

15. To run the test, click the Run button, check the "Run all Test locally" and "Enable Log" checkboxes, then click the "Run All" button.

Run Settings					
🕞 Run All 💽 Run 🔳 Stop 🔳 Stop All					
Run All Tests Locally	Enable Log				
Test Name	Run on Host	Status			
📷 📦 [1]SOAPSonar Test	EXCHANGE2007				

16. Upon completion of the test there will an overall Pass or Fail indication. Double click on the status to view the detailed test step results that were reported back from SOAPSonar into the Quality Center panel.



17. Each test step will be displayed with the result.

٧	'iew Runs:	All	- 5	<u>،</u>	7 •		×	2	0	A		Continue		
0	Run Name											Status	Host	Duration
	Run: 8/11/2	007 11:45:57 AM										🎸 Passed	EXCHANGE200	0
4														
Ţ														
4														
Г	Otan Mar					ol - 1			D	4-3-				
┢	Step Nar		4 (0)	_		Status	1		eps De	raiis	;			
┢	DetaultS	utte_DefauttGroup_Ping_	1 (U)			V Pa	issed .	- [1]	Conte:	xt: H	ITTP C	ode		
⊢	DefaultS	uite_DefaultGroup_Ping_	2(1)			🗸 Pa	ssed	_						
H	DefaultS	uite_DefaultGroup_Ping_	3 (2)			💙 Pa	ssed	Ex	pecte	<u>d:</u>				
								[1]	Rule: \	MTH	HN RA	NGE (200,200)		
								A	tual:					
								[1]	Result	: Pa	SS			

18. Double-click on the status column for a detailed view of the Description, Expected, and Actual results. SOAPSonar test results and criteria rule evaluation are reported back to Quality Center as follows:

Description	Success Criteria Evaluation Function
Expected	Parameters of Success Criteria Evaluation Function
Actual	Results of the Success Criteria Evaluation for this Test result

For tests which have multiple criteria rules, each criteria evaluated will be preceded by an [x] indicator where x=1, 2, ... allowing correlation of each rule with the rule evaluation results.