

SilkCentral[®] Test Manager[™] 2010 R2

Release Notes

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SilkCentral Test Manager 2010 R2 Release Notes

Version 2010 R2

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These notes contain important information that might not appear in the Help. Read the notes in their entirety.

For information about installation, deployment, and licensing issues, refer to the [Test Manager Installation Help](#).

Visit [Customer Care](#) for further assistance.

What's New in SilkCentral Test Manager 2010 R2

SilkCentral Test Manager 2010 R2 (Test Manager) introduces significant enhancements and changes.

Configuration Testing

You can now use configuration testing in Test Manager. Configuration testing is the process of testing a system with each of the supported software and hardware configurations.

The **Execution** unit supports configuration testing through allowing reuse of the assigned test definitions. You can create configuration suites with a set of assigned test definitions, and all execution definitions that you add to the configuration suite will also have the set of test definitions assigned. You can also create configuration suites from existing execution definitions. Test Manager enables you to add or remove parameters, keywords, and manual testers to or from the configurations.

Each execution definition in the configuration is displayed in an in-line editable grid. You can see the execution definitions or configurations that contain a specific test definition in the **Properties** tab of the test definition. You can also view the execution definitions or configurations that are associated with a specific requirement in the **Assigned Test Definitions** tab of the requirement.

For test definitions or test packages that are included in a configuration suite, the status is an aggregation of all statuses of all configurations within the suite:

- If the test is assigned only to the configuration suite, the status is `Passed` only if it is passed in all configurations. If the status is not `Passed` in all configurations, the status of the worst run is propagated, with the following top-down priority:
 1. Not Scheduled
 2. Not Executed
 3. Failed
 4. Passed

The status of a requirement that is assigned to the test is `Failed` if the test fails in one or more of the configurations.

- We do not recommend to assign the test to a configuration suite and one or more simple execution definitions. However, in this case, the aggregate of the configuration statuses is one status, and the last statuses of

the execution definitions are other statuses. The status that was executed last determines the last status of the test.

- If the test is assigned to a simple execution definition only, the status is updated in response to the status of the last test run.

Quality Goals

Quality goals are a new feature that allow you to define a set of testing metrics that a project must meet in order for the quality to be considered acceptable. They are created at the project level and are composed of the values in an attribute or property of **List** type with a corresponding percentage weight.

Quality Goals also contains two corresponding reports: **Quality Goal Planning Report** and **Quality Goals Execution Report**.

Video Capturing

You can now capture a video of a test, which is added to the result files in the **Files** page of the **Test Definition Run Results** dialog box. You can then analyze the video, for example if an error occurs during the test.

To capture videos of your tests, you have to enable video capturing. When video capturing is enabled, you will receive a WMV video file as a result of your test.

You can switch between **always**, where a video is added to the results for every test, and **onError**, where the video is added to the results only if an error occurs during execution.

Code Analysis

Code Analysis for .NET

Test Manager now supports .NET code analysis using DevPartner Studio. Customers who have .NET applications can change their code analysis profile to DevPartner Studio in order to collect run time details of their .NET code.

Code Analysis APIs

Test Manager now contains open APIs that enable you to create an integration for your own code analysis tools.

Usability Enhancements

The following usability enhancements have been made throughout Test Manager.

Tagging a Build

You can now tag a build in **Administration > Configuration > Products** to prevent all run results for this build from being deleted.

Attributes

Data types for requirement properties and test definition attributes have been updated for consistency. Attributes and properties now offer the following data types: **Date**, **List**, **Number**, and **Text**. In the **Settings** unit you can review and manage all attributes and properties for a selected project.

Asset	Old Data Type	New Data Type
Test Definition Attribute	Edit	Text
Test Definition Attribute	NA	Number
Test Definition Attribute	NA	Date
Test Definition Attribute	Normal	List , single select
Test Definition Attribute	Set	List , multi select
Requirement Property	String	Text
Requirement Property	Integer	Number
Requirement Property	Date	Date
Requirement Property	Boolean	List , single select


 **Note:** For existing requirement management tool integrations that use booleans, they will be migrated as single select lists.

Table 1: Data Type Migration Path

Reusing a Test Package

When you copy a test package, the information that provides the internal structure of the copied package is not accurate. To reuse the test package, you can now revert the copied test package to the parent test definition, apply your changes to the test definition, and then create a new consistent package out of the modified test definition.

Cleaning Up a Test Package

When a test package contains tests are no longer executed by the system, you can now clean up the package by clicking the new **Clean Up Test Package** entry in the context menu of the package.

Easier Creation of Test Containers

If you do not intent to check out test sources from or check in test sources to a new test container, you can now select the new default value (None) as the source control profile during the creation of the test container.


Test Plan Properties Page

The **Properties** page in the **Test Plan** unit now displays the execution definitions that the test definition is assigned to in the new **Assigned Executions** grid. The grid includes the status of the last run of the test definition in every execution definition.

Execution Enhancements

The following execution enhancements ease the execution of tests and improve the performance of test executions.

Status of Test Definitions in a Folder or Project

You can view the status of all test definitions included in a folder or project in the **Status** column of the folder or project in **Executions** >  .

Execution Definition Parameters

To apply a specific configuration to an execution definition, you can now override the parameters that you have assigned to a test definition in the **Parameters** page of the execution definition.

Integration Enhancements

The following changes enhance the integration of Test Manager with other applications or enhance applications already integrated into Test Manager.

Subversion

You can now use Subversion source control profiles with SSH in Test Manager.

Technology Updates

The following versions of third-party software are supported or unsupported due to enhancements in Test Manager:

Quality Manager 6.0.1

Test Manager now supports Quality Manager 6.0.1 (Changepoint 2009, Changepoint 2009 SP2).

Changepoint patch 14.02.106.000 allows a **Quality Manager Base User** to select a project and to submit a new issue.

Reporting Enhancements

The following new reports have been added to Test Manager.

Not Passed Test Definitions Report

This new report provides a detailed listing of all the not-passed tests of a folder or project in the **Execution** unit.

Not Passed Test Definitions per Execution Definition Report

This new report provides a detailed listing of all the not-passed test definitions for each execution definition that is included in a selected configuration suite, execution folder, or project in the **Execution** unit.

Execution Status Overview Report

The new *Execution Status Overview* report presents an overview of the execution status of the selected node and all execution definitions below the node.

Quality Goals Planning Report

Represents the number of tests in each goal criteria along with the planned time rolled up to the goal criteria.

Quality Goals Execution Report

Represents the total number of tests that match the quality goal broken into the result status of the test (Pass, Fail, No Result).

Announcement of Features to be Desupported in the Year 2011

SilkTest Test Plan Upload

In a future release of SilkTest and Test Manager, uploading plans from SilkTest to Test Manager will no longer be supported. With the introduction of the specific *SilkTest Test Plan* test type in SilkCentral Test Manager 2009, uploading plans from SilkTest to Test Manager is no longer required or recommended. The new test type results in less maintenance effort as the plan-file structure created in SilkTest is maintained dynamically with each execution of the SilkTest test plan file.

Tested and Supported Software

This section lists the software with which Test Manager 2010 R2 has been tested as well as the software that Test Manager supports.

Application, frontend, execution, and chart server have been validated on 32 bit operating system configurations, unless specified otherwise. 64 bit configurations are also supported, but without a performance gain, because the services are based on a 32 bit JVM.

Operating System Support

- Windows XP Service Pack 3
- Windows XP 64 bit Service Pack 1 (execution server)
- Windows Server 2003 R2 Service Pack 2
- Windows Vista Ultimate 32 bit (execution server)
- Windows Server 2008
- Windows Server 2008 R2 64 bit
- Windows 7 32 bit/64 bit (execution server)

Linux Operating System Support

- Ubuntu 8.10
- Ubuntu 8 server
- Redhat Enterprise Linux 5
- Debian 4 Etch 4.1.2-23
- Suse Linux 9.1

Web Browser Support

- Internet Explorer 7.x
- Internet Explorer 8.x
- Firefox 3.x

Web Server Support

- IIS 6 32 bit/64 bit
- IIS 7 32 bit/64 bit
- Micro Focus standalone Web server (Tomcat)

Database Management System Support

- Microsoft SQL Server 2005 Service Pack 3
- Microsoft SQL Server 2005 Service Pack 2
- Microsoft SQL Server 2008 R2
- Oracle 10g (version 10.2.0.4)
- Oracle 11g (version 11.2.0.1)

Integrated Micro Focus Software Support

- CaliberRM 2008 SP1
- SilkPerformer 2008 R2
- SilkPerformer 2009
- SilkPerformer 2010
- SilkPerformer 2010 R2
- SilkTest 2008
- SilkTest 2008 R2
- SilkTest 2009
- SilkTest 2009 R2
- StarTeam 2006
- StarTeam 2008
- Caliber DefineIT 2008
- CaliberRDM 2010
- TestPartner 6.3
- SilkTest Workbench 2010

Integrated Third-Party Software Support

- Bugzilla 3.2.5
- Bugzilla 3.4.7
- Bugzilla 3.6.1
- IBM Rational ClearQuest 2003.06.15.734.000
- IBM Rational Requisite Pro 7.0.0.0
- JUnit 4.4 or later
- SnagIT 8.0
- SnagIT 8.1
- SnagIT 8.2.1
- Subversion 1.4.4
- VMware Lab Manager 3.0
- VMware vCenter Lab Manager 4.0
- Telelogic Doors 8.0
- Telelogic Doors 8.2
- FitNesse 20070619
- FitNesse 20081201

- VersionOne Enterprise Edition
- Rally
- Compuware Quality Manager (Changepoint 2009 or Changepoint 2009 SP2)
- JIRA 3.13.5
- JIRA 4.0

Java Support

- Java Software Development Kit (SDK) 1.6 or later
- Java Runtime Environment (JRE) 1.6 or later
- Java Runtime Environment (JRE) 1.6 or later, 32 bit, for Manual Testing Client webstart.


System Requirements and Prerequisites

Server System Requirements

Application, frontend, execution, and chart server have been validated on 32 bit operating system configurations, unless specified otherwise. 64 bit configurations are also supported, but without a performance gain, because the services are based on a 32 bit JVM.

System Area	Requirement
CPU	Pentium IV or later, or an equivalent processor compatible to x86
Memory	2 GB minimum
Free disc space	10 GB minimum, except for the database server
Network	100 Mbit. The Manual Testing Client and the execution server can be connected through a low-bandwidth connection
Operating system for front-end, application, and chart server	<ul style="list-style-type: none"> • Windows XP Service Pack 2 or later • Windows XP 64 bit Service Pack 1 (execution server) • Windows Server 2003 R2 Service Pack 2 • Windows Server 2008 • Windows Server 2008 R2 64 bit
Operating system for execution server	<ul style="list-style-type: none"> • Windows XP Service Pack 2 or later • Windows XP 64 bit Service Pack 1 (execution server) • Windows Server 2003 R2 Service Pack 2 • Windows Vista Ultimate Edition 32 bit • Windows 7 32 bit • Windows 7 64 bit • Windows Server 2008 • Windows Server 2008 R2 64 bit

System Area	Requirement
Web server	<ul style="list-style-type: none"> • Tomcat • IIS • Apache, as load balancer
Database management system	<ul style="list-style-type: none"> • Microsoft SQL Server 2005 Service Pack 2 • Microsoft SQL Server 2008 R2 • Oracle 10g (version 10.2.0.4) • Oracle 11g (version 11.2.0.1)
Power Supply	Uninterruptible power supply (UPS) for all environments to reduce risks of power outages

 **Note:** To improve performance, we recommend to install the database system separately as a standalone system. Alternately, you can configure MSDE/SQL Server to use only a fixed amount of memory and to minimize resource conflicts with other applications. To install Test Manager as an enterprise system, install the Test Manager servers on separate machines. These servers include the application server, Web server, chart server, execution server, and database system. This procedure is outlined in the *Custom Installation* section of the *SilkCentral Test Manager 2010 R2 Installation Help*. You can also install any combination of these components on separate machines.

For more information on the optimal configuration of Test Manager contact technical support.

Execution Server Requirements

The actual requirements and prerequisites for execution servers depend on the application under test (AUT) and the type of testing.

For load testing, refer to the environment requirements of SilkPerformer. Running load tests with the minimal configuration can result in inaccurate results.

For functional testing, refer to the environment requirements of SilkTest. We recommend a minimum of 1024 MB main memory for intensive testing, such as Web browser replay.

Virtualization

Test Manager is tested to run on a virtual infrastructure environment, for example VMware ESX server. For optimal performance we recommend using physical hardware.

Client-Side System Requirements

System Area	Requirement
Processor	Pentium IV or later, or an equivalent processor compatible to x86
Memory	1 GB
Free disc space	1 GB

System Area	Requirement
Web browser	<ul style="list-style-type: none"> • Internet Explorer 7.x • Internet Explorer 8.x • Firefox 3.x

Resolved Issues

The following issues have been resolved in SilkCentral Test Manager 2010 R2:

Issue #	Description	Fix Applied	Notes
577862	The Current Executions grid in the Activities page always shows unknown in the Time Left column of a manual test even if the test has an estimated time.	2010 R2	Fixed.

Known Issues

This section identifies known issues in Test Manager.

Known issues with Test Manager and their resolutions are documented in the Micro Focus Knowledge Base, located in <http://kb.microfocus.com/>.