

SharePoint Test Suite Deployment Guide

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# Overview

The SharePoint Server Protocol Test Suites are implemented as synthetic clients running against a server-side implementation of a given SharePoint protocol. They are designed in a client-to-server relationship and were originally developed for the in-house testing of the Microsoft Open Specifications. Test Suites have been used extensively in Plugfests and Interoperability Labs to test partner implementations.

The SharePoint Test Suite Deployment Guide introduces the hardware and software requirements of the test suite client, and the requirements of the system under test (SUT) if the test suites run against SharePoint Server. The guide also introduces how to deploy, configure and run the test suites, and view test suite reports.

# Prerequisites

This section describes the hardware and software environment for the test suites. In a SharePoint server environment, the test suite installation takes place on both the client and server side. The following information will help test suite users to plan their deployment.

* 1. Hardware requirements
     1. System under test

The SUT is the server side of the test suite environment. SharePoint server(s) and Active Directory have defined system requirements which should be taken into account during deployment. The SharePoint Server Protocol test suites do not have any additional SUT resource requirements.

* + 1. Test suite client

The test suite client is the client side of the test suite environment. The following table shows the minimum resource requirements for the test suite client.

Test suite client resource requirements

|  |  |
| --- | --- |
| Component | Test suite client minimum requirement |
| RAM | 2GB |
| Hard Disk | 3GB of free space |
| Processor | >= 1GHz |

* 1. Software requirements
     1. System under test

This section is only relevant when running the test suites against the following versions of SharePoint Server. Some test suites (MS-COPYS) support two SUTs depending on the protocol requirements:

* Windows SharePoint Services 3.0 Service Pack 3 (SP3)
* Microsoft SharePoint Foundation 2010 Service Pack 2 (SP2)
* Microsoft SharePoint Foundation 2013 Service Pack (SP1)
* Microsoft Office SharePoint Server 2007 Service Pack 3 (SP3)
* Microsoft SharePoint Server 2010 Service Pack 2 (SP2)
* Microsoft SharePoint Server 2013 Service Pack (SP1)
* Microsoft SharePoint Server 2016

For the MS-WDVMODUU test suite, you have to install a virus scanner software in order to test the X-Virus-Infected header. You will also require a virus file to perform a security check behavior for the protocol that can be detected by the virus scanner. When you download, install, or run the test suite, your security software may intercept your action or even remove the file directly. If the file is removed or quarantined by the security software, some test cases of the test suite may fail. To ensure that the test suites run successfully, you should suspend the security software in your environment. Microsoft guarantees the content of the package is clean and virus-free.

1. Install Microsoft Forefront Protection 2010 for SharePoint in the following versions of SharePoint

* Windows SharePoint Services 3.0 Service Pack 3 (SP3),
* Microsoft SharePoint Foundation 2010 Service Pack 2 (SP2)
* Microsoft Office SharePoint Server 2007 Service Pack 3 (SP3)
* Microsoft SharePoint Server 2010 Service Pack 2 (SP2)

1. Install any anti-virus software on the following versions of SharePoint:

* Microsoft SharePoint Foundation 2013 Service Pack (SP1)
* Microsoft SharePoint Server 2013 Service Pack (SP1)
* Microsoft SharePoint Server 2016

**Note**   The anti-virus software should implement [Virus Scan Engine API](http://go.microsoft.com/fwlink/?LinkId=518352). A number of ISVs ship AV scanners (Symantec, Norton, etc.) which integrate with SharePoint the same way Microsoft Forefront Protection 2010 for SharePoint does.

The following table describes the necessary server roles required for a test suite deployment with a Microsoft implementation.

Required SUT roles

|  |  |
| --- | --- |
| Role | Description |
| Active Directory Domain Controller (AD DC) | Active Directory Domain Controller provides secure data for users and computers. An AD DC can coexist with a SharePoint server. A typical test configuration has an AD DC and SharePoint Server installed on separate machines. |
| SharePoint Server #1 (SUT1 must be a SharePoint application server if server installation type is Complete (farm mode)) | The first SharePoint server in the topology. |
| SharePoint Server #2 (SUT2) | Only the MS-COPYS test suite requires the second SharePoint server in the topology. |

The following diagram is an example of what a typical SharePoint test suite environment may look like. This example uses an IPv4, but IPv6 is also supported within a test suite environment.



* + 1. Test suite client

This section describes the prerequisite software for installing the SharePoint Server Protocol test suites on the test suite client. The following table outlines the software dependencies for the test suite client.

Test suite client software dependencies

|  |  |
| --- | --- |
| Operating systems | Windows 7 x64 Service Pack 1 and above  Windows 8 x64 and above  Windows 2008 R2 x64 Service Pack 1 and above |
| Software | Microsoft Visual Studio 2013 Professional  Microsoft Protocol Test Framework 1.0.2220.0 and above |

# Deploying the test suites

This section describes the deployment of the SharePoint Server Protocol test suites on the test suite client and the SUT. The SharePoint Server Protocol test suites are packed in a .zip file which is available on [**Microsoft Connect**](http://go.microsoft.com/fwlink/?LinkId=516921). Once you download the test suites, you need to perform the following steps in order to be able to successfully configure the test suites.

1. Extract the **SharePoint Server Protocol Test Suites** folder to a directory of your choice on the test suite client.
2. Copy the **SUT** and **Common** folders under **…\SharePoint Server Protocol Test Suites\Setup\** to a directory of your choice on the SUT. The SUT configuration scripts are the only requirement for the SUT. The scripts facilitate the SUT configuration process and are contained within the **SharePointServerProtocolTestSuites.zip** file.

**Note**   If your computer blocks scripts downloaded from the Internet for security reasons, you will need to follow these steps to unblock PowerShell scripts.

|  |  |
| --- | --- |
| 1. Right-click xxx.ps1 and select **Properties**. |  |
| 1. Click **Unblock** and click **OK**. |  |

# Test suite directories

In this section you will find a list of the folder structures that are contained within the **SharePointServerProtocolTestSuites.zip** file.

SharePointServerProtocolTestSuites.zip file contents

|  |  |
| --- | --- |
| Directory/file | Description |
| EULA.rtf | The End-User License Agreement |
| ReadMe.txt | A file that contains information about the deployment guide and prerequisite software |
| SharePoint Server Protocol Test Suites |  |
| - Docs | A directory that contains documents of all protocol test suites |
| - SharePointTestSuiteDeploymentGuide.docx | A file relevant to the protocol test suite deployment guidance |
| - MS-XXXX | MS-XXXX Help documentation |
| - [MS-XXXX].pdf | The technical specification for the protocol |
| - MS-XXXX\_TestSuiteSpecification.docx | Contains test suite-specific configuration details, architecture, and test case details. |
| - MS-XXXX\_SUTControlAdapter.chm | Contains information about the SUT control adapter class library such as declaration syntaxes and their description. |
| - MS-XXXX\_RequirementSpecification.xlsx | A spreadsheet that outlines all requirements associated with the technical specification. |
| - Setup | A directory that contains configuration scripts |
| - Test Suite Client | A directory that contains the configuration script to configure the test suite client. |
| - SharePointClientConfiguration.cmd | A command file that runs the  SharePointClientConfiguration.ps1 to configure the properties for the protocol test suites. |
| - SharePointClientConfiguration.ps1 | A configuration script that will be invoked by SharePointClientConfiguration.cmd |
| - SUT | A folder that contains the configuration script to configure the SUT. |
| - SharePointSUTConfiguration.cmd | A command file that runs the  SharePointSUTConfiguration.ps1 to create resources and configure settings on the first SUT. |
| - SharePointSUTConfiguration.ps1 | A configuration script that will be invoked by SharePointSUTConfiguration.cmd. |
| -SharePointSecondSUTConfiguration.cmd | A command file that runs the SharePointSecondSUTConfiguration.ps1 to create resources and configure settings on the second SUT. |
| - SharePointSecondSUTConfiguration.ps1 | A configuration script that will be invoked by SharePointSecondSUTConfiguration.cmd. |
| - MSCOPYS\_SourceFile.txt | A source file used to be copied from a source location to a destination location. |
| - MSDWSS\_TestData.txt | A test file used by the MS-DWSS test suite. |
| - MSSHDACCWS\_CoStatusTestData.txt | A test file that will be uploaded to MSSHDACCWS\_DocumentLibrary. This file allows multiple users to edit it. |
| - MSSHDACCWS\_LockedTestData.txt | A test file that will be uploaded to the MSSHDACCWS\_DocumentLibrary. An exclusive lock is applied to this file. |
| - MSSHDACCWS\_TestData.txt | A test file that will be uploaded to MSSHDACCWS\_DocumentLibrary without any locks or Co-Authoring status. |
| - MSSITESS\_CustomPage.aspx | A custom page used by the MS-SITESS test suite. |
| - MSWDVMODUU\_TestData1.txt | The first text test file used by the MS-WDVMODUU test suite. |
| - MSWDVMODUU\_TestData2.txt | The second text test file used by the MS-WDVMODUU test suite. |
| - MSWDVMODUU\_TestData3.txt | The third text test file used by the MS-WDVMODUU test suite. |
| - MSWEBSS\_TestData.docx | A test file used by the MS-WEBSS test suite. |
| - Common | A folder that contains common configuration scripts and resources. |
| -CommonConfiguration.ps1 | A library that contains common functions for configuring Microsoft products and the test suite client. |
| -SharePointCommonConfiguration.ps1 | A library that contains common functions for configuring the SUT. |
| -SharePointTestSuite.config | The configuration file to store all configuration resources |
| - Source | A folder with Microsoft Visual Studio solution that contains the source code for the test suites. |
| - Common | A folder with Visual Studio projects that contains source code that are common to the test suites. |
| - SharePointCommonConfiguration. deployment.ptfconfig | The common configuration file. |
| -SharePointServerProtocolTestSuites.sln | A Visual Studio solution that contains projects of the protocol test suites source code. |
| - MS-XXXX | MS-XXXX test suite source code directory |
| + Adapter | Adapter test suite code |
| + TestSuite | Test suite code |
| - MS-XXXX.sln | A Visual Studio solution that contains projects of the MS-XXXX test suite |
| -Scripts | SharePoint Server Protocol test suites can be run using Visual Studio or through batch scripts. The Scripts directory contains a collection of command files that allows users to run specific test cases in the test suite or the entire test suite. |
| - RunAllSharePointTestCases.cmd | A script that can be used to run all test cases in the whole package. |
| -MS-XXXX | A folder containing scripts that belong to the MS-XXXX test suite. |
| - RunAllMSXXXXTestCases.cmd | A script that can be used to run all test cases of MS-XXXX. |
| - RunMSXXXX\_SYY\_TCZZ\_TestCaseName.cmd | A script that can be used to run a single test case of MS-XXXX. |

# Configuring the test suites

This section provides the necessary guidance to configure the SharePoint Server Protocol test suites on the SUT and the test suite client. The configuration should be done in this order: configure the SUT1, configure the SUT2 (optional), and then configure the test suite client.

For configuration script, the exit code definition is as follows:

1. A normal termination will set the exit code to 0.
2. An uncaught THROW will set the exit code to 1.
3. Script execution warning and issues will set the exit code to 2.
4. Exit code is set to the actual error code for other issues.

## Configuring the SUT

You can configure the SUT using automated scripts, as described in sections  [5.1.2](#ConfigTheSUT1) and [5.1.4](#ConfigTheSUT2); or configure the SUT manually, as described in sections [5.1.3](#ConfiguringtheSUT1manually) and [5.1.5](#ConfiguringtheSUT2manually).

***Note****The scripts should be run by a user who has domain administrator rights on the SUT.*

* + 1. SUT resource requirements

Each test suite contained within the SharePoint Server Protocol test suites package may require varying level of resources on the SUT. The following table outlines these resources for each test suite. The SUT configuration scripts will automatically create all the required resources for the Microsoft server implementation.To configure the SUT manually, refer to sections [5.1.3](#_Configuring_test_suite) and [5.1.5](#ConfiguringtheSUT2manually).

The client configuration script follows the naming convention shown in the following table. If a change to the resource name is required, then the corresponding change to the resource name defined in the SharePointTestSuite.config is required.

SharePoint server resources

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test suite** | | | **Resource type** | | | **Resource name** |
| All | | | -- | | | -- |
| MS-LISTSWS | | | Site collection | | | MSLISTSWS\_SiteCollection |
|  | | | Document library | | | MSLISTSWS\_DocumentLibrary |
| MS-VERSS | | | Site collection | | | MSVERSS\_SiteCollection |
| MS-SITESS | | | Site collection | | | MSSITESS\_SiteCollection |
|  | | | Site | | | MSSITESS\_Site |
|  | | | Site | | | MSSITESS\_NormalSubSite |
|  | | | Site | | | MSSITESS\_SpecialSubSite |
|  | | | Document library | | | MSSITESS\_DocumentLibrary |
|  | | | Document library | | | MSSITESS\_SubSite\_DocumentLibrary |
|  | | | Text document | | | MSSITESS\_TestData.txt |
|  | | | ASPX file | | | MSSITESS\_CustomPage.aspx |
| MS-DWSS | | | Site collection | | | MSDWSS\_SiteCollection |
|  | | | Site collection | | | MSDWSS\_SiteCollection\_DocumentWorkspace |
|  | | | Site | | | MSDWSS\_Site |
|  | | | Site | | | MSDWSS\_InheritPermissionSite |
|  | | | Document library | | | MSDWSS\_DocumentLibrary |
|  | | | Folder | | | MSDWSS\_TestFolder |
|  | | | Text document | | | MSDWSS\_TestData.txt |
|  | | | User | | | MSDWSS\_NoneRole |
|  | | | User | | | MSDWSS\_ReaderRole |
|  | | | User | | | MSDWSS\_GroupOwner |
|  | | | Group | | | MSDWSS\_CustomGroup |
| MS-MEETS | | | Site collection | | | MSMEETS\_SiteCollection |
|  | | | User | | | MSMEETS\_User |
| MSWEBSS | | | Site collection | | | MSWEBSS\_SiteCollection |
|  | | | Document library | | | MSWEBSS\_DocumentLibrary |
|  | | | Word document | | | MSWEBSS\_TestData.docx |
|  | | | Site | | | MSWEBSS\_Site |
| MS-WDVMODUU | | | Site collection | | | MSWDVMODUU\_SiteCollection |
|  | | | Document library | | | MSWDVMODUU\_DocumentLibrary1 |
|  | | | Document library | | | MSWDVMODUU\_DocumentLibrary2 |
|  | | | Text document | | | MSWDVMODUU\_TestData1.txt |
|  | | | Text document | | | MSWDVMODUU\_TestData2.txt |
|  | | | Text document | | | MSWDVMODUU\_TestData3.txt |
|  | | | Fake virus file | | | FakeVirusInfectedFile\_Get.txt |
| MS-WWSP | | | Site collection | | | MSWWSP\_SiteCollection |
|  | | | Work Flow | | | MSWWSP\_Workflow |
|  | | | Work Flow Task List | | | Tasks |
|  | | | Work flow History List | | | MSWWSP\_WorkflowHistoryList |
|  | | | Document library | | | MSWWSP\_DocumentLibrary |
|  | | | Group | | | MSWWSP\_UserGroup |
|  | | | User | | | MSWWSP\_User |
| MS-OUTSPS | | | Site collection | | | MSOUTSPS\_SiteCollection |
| MS-AUTHWS | | | Web Application | | | MSAUTHWS\_FormsWebAPP |
|  | | | Web Application | | | MSAUTHWS\_NoneWebAPP |
|  | | | Web Application | | | MSAUTHWS\_PassportWebAPP |
|  | | | Web Application | | | MSAUTHWS\_WindowsAPP |
| MS-SHDACCWS | | | Site collection | | | MSSHDACCWS\_SiteCollection |
|  | | | Document library | | | MSSHDACCWS\_DocumentLibrary |
|  | | | Text document | | | MSSHDACCWS\_LockedTestData.txt |
|  | | | Text document | | | MSSHDACCWS\_CoStatusTestData.txt |
|  | | | Text document | | | MSSHDACCWS\_TestData.txt |
| MS-CPSWS | | | User | | | MSCPSWS\_User |
| MS-WSSREST | | | Site collection | | | MSWSSREST\_SiteCollection |
|  | | | Document library | | | MSWSSREST\_DocumentLibrary |
|  | | | Calendar | | | MSWSSREST\_Calendar |
|  | | | DiscussionBoard | | | MSWSSREST\_DiscussionBoard |
|  | | | GenericList | | | MSWSSREST\_GenericList |
|  | | | Survey | | | MSWSSREST\_Survey |
|  | | | WorkflowHistoryList | | | MSWSSREST\_WorkflowHistoryList |
|  | | | Tasks | | | MSWSSREST\_Tasks |
|  | | | Work Flow | | | MSWSSREST\_Workflow |
|  | | | ChoiceField | | | MSWSSREST\_ChoiceField |
|  | | | MultiChoiceField | | | MSWSSREST\_MultiChoiceField |
|  | | | ChoiceFieldValue | | | MSWSSREST\_SingleChoiceOption1, MSWSSREST\_SingleChoiceOption2 |
|  | | | MultiChoiceFieldValue | | | MSWSSREST\_MultiChoiceOption1, MSWSSREST\_MultiChoiceOption2 |
|  | | | LookupField | | | MSWSSREST\_LookupField |
| MS-OFFICIALFILE | | | Site collection | | | MSOFFICIALFILE\_SiteCollection |
|  | | | Site | | | MSOFFICIALFILE\_RoutingRepository |
|  | | | Site | | | MSOFFICIALFILE\_NoRoutingRepository |
|  | | | Site | | | MSOFFICIALFILE\_EnabledParsingRepository |
|  | | | Document library | | | Drop Off Library |
|  | | | Document library | | | MSOFFICIALFILE\_DocumentRuleLocationLibrary |
|  | | | Document library | | | MSOFFICIALFILE\_NoEnforceLibrary |
|  | | | Document library | | | MSOFFICIALFILE\_DocumentSetLocationLibrary |
|  | | | DocumentSet | | | MSOFFICIALFILE\_DocumentSetName |
|  | | | User | | | MSOFFICIALFILE\_User |
| MS-COPYS | | | Site collection | | | MSCOPYS\_SiteCollection |
|  | | | Site | | | MSCOPYS\_SubSiteMeetingWorkspace |
|  | | | User | | | MSCOPYS\_EditUser |
|  | | | User | | | MSCOPYS\_limitUser |
|  | | | Text document | | | MSCOPYS\_SourceFile.txt |
|  | | | Document library | | | MSCOPYS\_SubSiteDocumentLibrary |
|  | | | Document library | | | MSCOPYS\_SourceDocumentLibrary |
|  | | | Document library | | | MSCOPYS\_DestinationDocumentLibrary |
|  | | | Column | | | MSCOPYS\_TestReadOnlyField |
|  | | | Column | | | MSCOPYS\_WorkFlowEventField |
|  | | | Column field value | | | MSCOPYS\_Source |
|  | | | Column field value | | | MSCOPYS\_Destination |
| MS-VIEWSS | | Site collection | | | MSVIEWSS\_SiteCollection | |
|  | GenericList | | | MSVIEWSS\_ViewList | | |
|  | | ListItem | | | MSVIEWSS\_ListItem1 | |
|  | | ListItem | | | MSVIEWSS\_ListItem2 | |
|  | | ListItem | | | MSVIEWSS\_ListItem3 | |
|  | | ListItem | | | MSVIEWSS\_ListItem4 | |
|  | | ListItem | | | MSVIEWSS\_ListItem5 | |
|  | | ListItem | | | MSVIEWSS\_ListItem6 | |
|  | | ListItem | | | MSVIEWSS\_ListItem7 | |
|  | | ListItem | | | MSVIEWSS\_ListItem7 | |

### Configuring SUT1 using the setup configuration script

*The setup configuration script is only used for configuring the SUT on the Windows platform.*

To configure SUT1 using the setup configuration script, navigate to the **SUT** folder, right-click **SharePointSUTConfiguration.cmd** and select **Run as administrator**.

### Configuring SUT1 manually

If the SUT is a non-Microsoft implementation of SharePoint Server, you will not be able to run the setup configuration script. The following steps explain what needs to be created or configured on the SUT in order to run the test suites.

1. In Windows Powershell, set the execution policy to **RemoteSigned**, enable remoting, and increase the memory allocated per shell for remote shell management to **1024MB** or more if you plan to run the SUT control adapter in PowerShell mode.
2. Configure the SUT to support HTTPS.
3. Set the Alternate Access Mapping (AAM) value to HTTPS on the SUT.
4. Add the username for the user (who will configure the SUT) in the user policy. Please note that if the user policy of the Web application has a username with a claim prefix (such as i:0#.w|), you will need to add the username without the claim in the user policy.
5. If the WebDAV Publishing role service is installed on the SUT, remove it.

***Notes***

* *The steps in the subsequent sections should be performed by the SUT administrator.*
* *All site templates mentioned in the subsequent sections apply to Microsoft implementations only*.
* *Any site collection created on the SharePoint site should follow the* ***Team Site*** *template.*

#### MS-SITESS

1. Create a site collection named **MSSITESS\_SiteCollection**.
2. Verify if the Workflows feature is activated.
3. Create a subsite named **MSSITESS\_Site** in **MSSITESS\_SiteCollection** using the *Document Workspace* site template.
4. Create two subsites named **MSSITESS\_NormalSubSite** and **MSSITESS\_SpecialSubSite** in MSSITESS\_Site using the *Team Site* template.
5. Create a document library named **MSSITESS\_DocumentLibrary** in MSSITESS\_SiteCollection.
6. Create a document library named **MSSITESS\_SubSite\_DocumentLibrary** in MSSITESS\_SpecialSubSite.
7. Upload a file **MSSITESS\_TestData.txt** with the file size 24MB to MSSITESS\_SubSite\_DocumentLibrary in MSSITESS\_SpecialSubSite.
8. Upload a custom page named **MSSITESS\_CustomPage.aspx** to MSSITESS\_SubSite\_DocumentLibrary in MSSITESS\_SpecialSubSite.
9. Update the Web.config file to enable the custom pages on the server.

#### MS-DWSS

1. Create the following new users (as specified in section [5.1.1](#SharePointServerresources)) and set their password to never expireon the domain controller.

**MSDWSS\_NoneRole**, **MSDWSS\_ReaderRole**, and **MSDWSS\_GroupOwner***.*

1. Create a site collection named **MSDWSS\_SiteCollection**.
2. Add an email address for the administrator on MSDWSS\_SiteCollection.
3. Create a site collection named **MSDWSS\_SiteCollection\_DocumentWorkspace** using the *Document Workspace* template.
4. Create a subsite named **MSDWSS\_Site** and **MSDWSS\_InheritPermissionSite** in MSDWSS\_SiteCollection using the *Document Workspace* template.
5. In MSDWSS\_Site, break inheritance to the top-level site.
6. Create a document library named **MSDWSS\_DocumentLibrary** in MSDWSS\_Site.
7. Create a folder named **MSDWSS\_TestFolder** on MSDWSS\_DocumentLibrary, and then upload an arbitrary text file named MSDWSS\_TestData.txt into this folder.
8. Grant read permissions to MSDWSS\_ReaderRole on MSDWSS\_Site.
9. Create a group named **MSDWSS\_CustomGroup**, and add MSDWSS\_GroupOwner as the group owner on MSDWSS\_Site.
10. Grant full control permissions to MSDWSS\_CustomGroup on MSDWSS\_Site.

#### MS-VERSS

1. Create a site collection named **MSVERSS\_SiteCollection**.

#### MS-LISTSWS

1. Create a site collection named **MSLISTSWS\_SiteCollection**.
2. Create a document library named **MSLISTSWS\_DocumentLibrary** in MSLISTSWS\_SiteCollection.

#### MS-WWSP

***Note****The MS-WWSP test suite supports only the following versions of SharePoint:*

* *Microsoft Office SharePoint Server 2007*
* *Microsoft SharePoint Server 2010*
* *Microsoft SharePoint Server 2013*
* *Microsoft SharePoint Server 2016*

1. Create a group with the name **MSWWSP\_UserGroup**on the domain controller.
2. Add a default administrator to **MSWWSP\_UserGroup**.
3. Create a user named **MSWWSP\_User**and set the password to never expireson the domain controller.
4. Add **MSWWSP\_User** to the MSWWSP\_UserGroup.
5. Create a site collection named **MSWWSP\_SiteCollection**.
6. Grant full control permissions to **MSWWSP\_User** on MSWWSP\_SiteCollection.
7. Create the document library **MSWWSP\_DocumentLibrary** in MSWWSP\_SiteCollection.
8. Activate the **Workflows** feature on the site features page.

**Note** This step applies to Microsoft SharePoint Server 2010, Microsoft SharePoint Server 2013 and Microsoft SharePoint Server 2016 only.

1. Create a workflow association named **MSWWSP\_Workflow** in MSWWSP\_DocumentLibrary.
2. Create a workflow task list named **Tasks** in MSWWSP\_SiteCollection.
3. Create a workflow history list named **MSWWSP\_WorkflowHistoryList**in MSWWSP\_SiteCollection.

**Note**    The workflow association template name and task name will be used in the MS-XXX\_TestSuite.deployment.ptfconfig file in the test suite.

The workflow association template name must be **Approval** for Microsoft SharePoint Server 2007, and **Approval - SharePoint 2010** for Microsoft SharePoint Server 2010, Microsoft SharePoint Server 2013 and Microsoft SharePoint Server 2016.

#### MS-MEETS

1. Create a new user named **MSMEETS\_User**and set the password to never expire on the domain controller.
2. Create a site collection named **MSMEETS\_SiteCollection***.*
3. Make sure the Meeting Workspace template is enabled.

**Notes**

* All Meeting Workspace site templates are hidden from the user interface, but a server administrator can remove the hidden flag by editing the WEBTEMP.XML file.
* In Microsoft SharePoint Server 2013 in the Windows platform, the following templates are hidden:

**Basic Meeting Workspace**, **Blank Meeting Workspace**, **Decision Meeting Workspace**, **Social Meeting Workspace**, and **Multipage Meeting Workspace**.

1. Restart Internet Information Services (IIS).

#### MS-WEBSS

1. Create a site collection named **MSWEBSS\_SiteCollection**.
2. Create a subsite named **MSWEBSS\_Site** in MSWEBSS\_SiteCollection using the *Team Site* template. The value of the description field of the subsite is *MSWEBSS\_SiteDescription*. The language pack is installed on the server originally, for example: the LCID for English - United States is 1033.
3. Create a document library **MSWEBSS\_DocumentLibrary**in the MSWEBSS\_Site site.
4. Upload one arbitrary .docx file named MSWEBSS\_TestData.docxinto MSWEBSS\_DocumentLibrary.

#### MS-ADMINS

1. In IIS, configure the SharePoint site to support HTTPS.
2. In IIS, set Alternate Access Mapping for HTTPS for the SharePoint Central Administration site.
3. Activate the features DocumentManagement and DocumentSet on Microsoft SharePoint Server 2013.
4. Add a firewall rule to allow HTTPS port of the SharePoint Central Administration site to receive TCP data.

#### MS-OUTSPS

1. Create a site collection named **MSOUTSPS\_SiteCollection**.

#### MS-WDVMODUU

1. Create a site collection named **MSWDVMODUU\_SiteCollection**.
2. Create a document library **MSWDVMODUU\_DocumentLibrary1** in MSWDVMODUU\_SiteCollection.
3. Create the document library **MSWDVMODUU\_DocumentLibrary2** in MSWDVMODUU\_SiteCollection. Upload two arbitrary text files named MSWDVMODUU \_TestData1.txtand MSWDVMODUU \_TestData2.txt into MSWDVMODUU\_DocumentLibrary1.
4. Create a folder named MSWDVMODUU \_TestFolderon MSWDVMODUU\_DocumentLibrary1, and upload an arbitrary text file named MSWDVMODUU \_TestData3.txt into this folder.
5. Upload a fake virus file (mentioned in section [2.2.1](#VirusFile)) into MSWDVMODUU\_DocumentLibrary2.

#### MS-AUTHWS

1. Create three Web Applications named **MSAUTHWS\_FormsWebAPP**, **MSAUTHWS\_NoneWebAPP**, and **MSAUTHWS\_PassportWebAPP** with authentication mode set to Forms, None, and Passport respectively.

**Note** If you are using Microsoft SharePoint Foundation 2013 or Microsoft SharePoint Server 2013 or Microsoft SharePoint Server 2016, you will need to create a fourth web application named MSAUTHWS\_WindowsAPP with authentication mode set to Windows.

1. Configure MSAUTHWS\_FormsWebAPP, MSAUTHWS\_NoneWebAPP and MSAUTHWS\_PassportWebAPP, MSAUTHWS\_WindowsAPP to support HTTPS.
2. Configure MSAUTHWS\_FormsWebAPPto support forms-based authentication.
3. Restart IIS.
4. Add a firewall rule to allow HTTP and HTTPS ports of MSAUTHWS\_FormsWebAPP, MSAUTHWS\_NoneWebAPP, and MSAUTHWS\_WindowsAPP to receive TCP data.

#### MS-SHDACCWS

***Note****The MS-SHDACCWS test suite supports only the following versions of SharePoint:*

* *Microsoft SharePoint Foundation 2010*
* *Microsoft SharePoint Server 2010*
* *Microsoft SharePoint Foundation 2013*
* *Microsoft SharePoint Server 2013*
* *Microsoft SharePoint Server 2016*

1. Create a site collection named **MSSHDACCWS\_SiteCollection**.
2. Create a document library **MSSHDACCWS\_DocumentLibrary** in MSSHDACCWS\_SiteCollection.
3. Upload three arbitrary text files named MSSHDACCWS\_LockedTestData.txt, MSSHDACCWS\_CoStatusTestData.txt and MSSHDACCWS\_TestData.txt into MSSHDACCWS\_DocumentLibrary.

#### MS- CPSWS

***Note****The MS-* *CPSWS test suite supports only the following versions of SharePoint:*

* *Microsoft SharePoint Foundation 2010*
* *Microsoft SharePoint Server 2010*
* *Microsoft SharePoint Foundation 2013*
* *Microsoft SharePoint Server 2013*
* *Microsoft SharePoint Server 2016*

1. Create a user with the name **MSCPSWS\_User** and set the password to never expire on the domain controller.
2. In IIS, enable anonymous authentication for **spclaimproviderwebservice.https.svc** and **spclaimproviderwebservice.svc**.
3. Update the Web.config file to set the **serviceDebug includeExceptionDetailInFaults** value to **True** for the behaviors ClaimProviderWebServiceBehavior and HttpsClaimProviderWebServiceBehavior.

#### MS-WSSREST

***Note****The MS-WSSREST test suite supports only the following versions of SharePoint:*

* *Microsoft SharePoint Foundation 2010*
* *Microsoft SharePoint Server 2010*
* *Microsoft SharePoint Foundation 2013*
* *Microsoft SharePoint Server 2013*
* *Microsoft SharePoint Server 2016*

1. Create a site collection named **MSWSSREST\_SiteCollection**.
2. Create a document library named **MSWSSREST\_DocumentLibrary** in MSWSSREST\_SiteCollection.
3. Create a workflow association with the name of **MSWSSREST\_Workflow**under MSWSSREST\_DocumentLibrary.
4. Create a calendar **MSWSSREST\_Calendar** in MSWSSREST\_SiteCollection.
5. Create a discussion board **MSWSSREST\_DiscussionBoard** in MSWSSREST\_SiteCollection.
6. Create a list **MSWSSREST\_GenericList** in MSWSSREST\_SiteCollection.
7. Create a survey **MSWSSREST\_Survey** in the site collection MSWSSREST\_SiteCollection.
8. Create a workflow history list **MSWSSREST\_****WorkflowHistoryList** in MSWSSREST\_SiteCollection.
9. Create a task **MSWSSREST\_Tasks** in MSWSSREST\_SiteCollection.
10. In MSWSSREST\_GenericList, create columns with these types— Boolean, Choice, Currency, GridChoice, Integer, MultiChoice, Number, URL, PageSeparator, WorkFlowEventType, and Lookup.
11. In MSWSSREST\_GenericList, create a column named**MSWSSREST\_ChoiceField** with *Choice* type, and set the choice values to MSWSSREST\_SingleChoiceOption1 and MSWSSREST\_SingleChoiceOption2, with the default value set to MSWSSREST\_SingleChoiceOption1.
12. In MSWSSREST\_GenericList, create a column named **MSWSSREST\_MultiChoiceField** with *MultiChoice* type, and set the choice values to MSWSSREST\_MultiChoiceOption1 and MSWSSREST\_MultiChoiceOption2, with the default value set to MSWSSREST\_MultiChoiceOption1.
13. In MSWSSREST\_Survey, create two columns with types GridChoice and PageSeparator.

#### MS-OFFICIALFILE

***Note****The MS-OFFICIALFILE test suite supports only the following versions of SharePoint:*

* *Microsoft Office SharePoint Server 2007*
* *Microsoft SharePoint Server 2010*
* *Microsoft SharePoint Server 2013*
* *Microsoft SharePoint Server 2016*

For *Microsoft Office SharePoint Server 2007*, you will only need to configure the steps from 1 to 7.

1. Create a site collection named **MSOFFICIALFILE\_SiteCollection**.
2. Create a subsite named **MSOFFICIALFILE\_RoutingRepository**in MSOFFICIALFILE\_SiteCollection using the *Record Center* site template.
3. Create a user with the name **MSOFFICIALFILE\_User**and set the password to never expireon the domain controller.
4. Grant read permissions to **MSOFFICIALFILE\_User** on MSOFFICIALFILE\_RoutingRepository.
5. Create a document library **MSOFFICIALFILE\_DocumentRuleLocationLibrary** under MSOFFICIALFILE\_RoutingRepository, and create a content organizer rule where the content type is *document*.

**Note** The name and title cannot be empty in the rule.

1. Create a document library named **Drop Off Library** under MSOFFICIALFILE\_RoutingRepository, and create a content organizer rule where the content type is default type.

**Note** The name and title cannot be empty in the rule.

1. Create a hold **MSOFFICIALFILE\_Holds** under MSOFFICIALFILE\_RoutingRepository.
2. For Microsoft products, create a subsite named **MSOFFICIALFILE\_NoRoutingRepository** in MSOFFICIALFILE\_SiteCollection using the Record Center site template.
3. Create a document library **Drop Off Library** in MSOFFICIALFILE\_NoRoutingRepository.
4. Create a subsite named **MSOFFICIALFILE\_EnabledParsingRepository** in MSOFFICIALFILE\_SiteCollection using the Document Center site template.
5. Create a document library **MSOFFICIALFILE\_DocumentRuleLocationLibrary**in MSOFFICIALFILE\_EnabledParsingRepository, and in the versioning settings of the library, enable major versioning.
6. Activate the *Content Organizer* site feature on MSOFFICIALFILE\_EnabledParsingRepository and MSOFFICIALFILE\_RoutingRepository.
7. Deactivate the *Content Organizer* site feature on MSOFFICIALFILE\_NoRoutingRepository.
8. Disable the document parser on MSOFFICIALFILE\_RoutingRepository.
9. Enable the document parser on MSOFFICIALFILE\_EnabledParsingRepository.
10. Enable the *Document Sets* site collection feature on MSOFFICIALFILE\_SiteCollection.
11. Add a default administrator to the SharePoint group **Records Center Web Service Submitters** for MSOFFICIALFILE\_RoutingRepository on MSOFFICIALFILE\_RoutingRepository.
12. Add a default administrator to the SharePoint group **Records Center Web Service Submitters** for MSOFFICIALFILE\_NoRoutingRepository" on MSOFFICIALFILE\_NoRoutingRepository.
13. Add a default administrator to the SharePoint group **Records Center Web Service Submitters** for MSOFFICIALFILE\_EnabledParsingRepository on MSOFFICIALFILE\_EnabledParsingRepository.
14. In MSOFFICIALFILE\_RoutingRepository, add *Document Set* from the existing site content types on MSOFFICIALFILE\_DocumentRuleLocationLibrary.
15. In MSOFFICIALFILE\_RoutingRepository, create a document set **MSOFFICIALFILE\_DocumentSetName** on MSOFFICIALFILE\_DocumentRuleLocationLibrary.

#### MS-COPYS

1. Create two users with name of MSCOPYS\_limitUser and MSCOPYS\_EditUser, and set their password never expire on the domain controller.
2. Create a site collection named MSCOPYS\_SiteCollection.
3. Grant the user MSCOPYS\_EditUser with Edit permission level on MSCOPYS\_SiteCollection.
4. Create subsites named MSCOPYS\_SubSiteMeetingWorkspace in MSCOPYS\_SiteCollection using the **Basic Meeting Workspace** site template.
5. Create a document library **MSCOPYS\_SubSiteDocumentLibrary**in MSCOPYS\_SubSiteMeetingWorkspace.
6. Create a document library **MSCOPYS\_SourceDocumentLibrary** in MSCOPYS\_SiteCollection.
7. Create a document library **MSCOPYS\_DestinationDocumentLibrary** in MSCOPYS\_SiteCollection.
8. Create a column named**MSCOPYS\_TestReadOnlyField**in MSCOPYS\_SourceDocumentLibrary with Text type, and set the default value to *MSCOPYS\_Source*, and the read-only properties to false.
9. Create a column named**MSCOPYS\_WorkFlowEventField**in MSCOPYS\_SourceDocumentLibrary with WorkFlowEvent type.
10. Create a column named**MSCOPYS\_TestReadOnlyField**in **MSCOPYS\_DestinationDocumentLibrary**with Text type, set the default value to *MSCOPYS\_Source* and the read-only properties to true*.*
11. Create a column named**MSCOPYS\_WorkFlowEventField**in MSCOPYS\_DestinationDocumentLibrary with WorkFlowEvent type.
12. Upload a file MSCOPYS\_SourceFile.txt to MSCOPYS\_SourceDocumentLibrary in MSCOPYS\_SiteCollection. The contents of the file should be “MSCOPYS\_SourceFile”. The file uses a form of ANSI.

#### MS-VIEWSS

1. Create a site collection named “*MSVIEWSS\_SiteCollection*”.
2. Create a generic list *MSVIEWSS\_ViewList* in MSVIEWSS\_SiteCollection.
3. Create the following items in list *MSVIEWSS\_ViewList.****Note***Two of the eight items should have the same title.

*MSVIEWSS\_ListItem1, MSVIEWSS\_ListItem2, MSVIEWSS\_ListItem3, MSVIEWSS\_ListItem4, MSVIEWSS\_ListItem5, MSVIEWSS\_ListItem6, MSVIEWSS\_ListItem7, MSVIEWSS\_ListItem7*

### Configuring SUT2 using the setup configuration script

***Note*** *The setup configuration script is only used for configuring the SUT on Windows.*

To configure SUT2 using the setup configuration script, navigate to the SUT folder, right-click **SharePointSecondSUTConfiguration.cmd** and select **Run as administrator.**

### Configuring SUT2 manually

If the SUT is a non-Microsoft implementation of SharePoint Server, you will not be able to run the setup configuration script. The following steps explain what needs to be created or configured on the SUT in order to run the test suites.

1. In Powershell, set the execution policy to **RemoteSigned**, enable remoting, and increase the memory allocated per shell for remote shell management to **1024MB** or more.
2. Configure the SUT to support HTTPS.
3. Set the Alternate Access Mapping value to HTTPS on the SUT.
4. Add the username for the user (who will configure the SUT) in the user policy. Please note that if the user policy of the Web application has a username with a claim prefix (such as i:0#.w|), you will need to add the username without the claim in the user policy.

***Notes***

* *The steps in the subsequent sections should be performed by the SUT administrator.*
* *Any site collection created on the SharePoint site should follow the* ***Team Site*** *template.*

#### MS-COPYS

1. Create a site collection named MSCOPYS\_SiteCollection.
2. Create a document library *MSCOPYS\_SourceDocumentLibrary* on MSCOPYS\_SiteCollection.
3. Create subsites named MSCOPYS\_SubSiteMeetingWorkspace in MSCOPYS\_SiteCollection.

For Microsoft SharePoint Server, use the *Basic Meeting Workspace* site template.

1. Create column named *MSCOPYS\_TestReadOnlyField* in list MSCOPYS\_SourceDocumentLibrary with “Text” type, set the default value to *MSCOPYS\_Source*.
2. Create a column named *MSCOPYS\_WorkFlowEventField* in list MSCOPYS\_SourceDocumentLibrary with “WorkFlowEvent” type.
3. Upload a file *MSCOPYS\_SourceFil*e.txt use a form of ANSI with content “MSCOPYS\_SourceFile” to MSCOPYS\_SourceDocumentLibrary under MSCOPYS\_SiteCollection.

## Configuring the test suite client

The test suite client is managed through a common configuration file, two test suite-specific configuration files and six SHOULD/MAY configuration files that have a “.ptfconfig” extension. These configuration files can be modified directly; the common configuration file and the test suite-specific configuration files can also be modified through a script.

* + 1. Common configuration file

The common configuration file contains configurable properties common to all SharePoint Server Protocol test suites. This file must be modified to match the characteristics of the environment where the test suites are installed.

SharePoint common configuration file

|  |  |
| --- | --- |
| **Configuration file** | **Description** |
| SharePointCommonConfiguration.deployment.ptfconfig | The deployment configuration file provides the environmental details that are common to the protocol test suites. |

* + 1. Test-suite specific configuration files

In addition to the common configuration file, each individual test suite has the following two configuration files for test suite-specific modification.

Test-suite specific configuration files

|  |  |
| --- | --- |
| **Configuration file** | **Description** |
| MS-XXXX\_TestSuite.deployment.ptfconfig | The deployment configuration file provides the environmental details that are specific to the test suite. The configuration file allows for test suite-specific customization. |
| MS-XXXX\_TestSuite.ptfconfig | The test suite configuration file contains details that specify the behavior of the test suite operation. |

Both files are present in TestSuite folder of each test suite directory.

If you need to modify the common configuration values for a specific test suite, you must copy the common properties to the **MS-XXXX\_TestSuite.deployment.ptfconfig** file and change the values of the properties. The specific configuration file will take precedence over the common configuration file when the same property exists in both places.

* + - 1. **Set the test suite to interactive mode**

If the SUT is a non-Microsoft implementation of SharePoint Server, it is recommended that you further configure the test suite by setting the test suite to interactive mode. Interactive mode enables the test suite to function in a manual way, enabling you to perform setup, teardown, and other tasks in a step-by-step approach. To enable interactive mode for a specific test suite, do the following:

1. Browse to the **MS-XXXX\_TestSuite.ptfconfig** configuration file within the **\Source\MS-XXXX\TestSuite\**.
2. Set the type value of Adapter property to **Interactive** for the SUT control adapter\*\*.

Interactive mode values

|  |  |  |  |
| --- | --- | --- | --- |
| Property name | Default value\* | Optional value | Description |
| Adapter | managed or powershell | interactive\*\* | **managed**: The SUT control adapter is implemented in C# managed code.  **powershell**: The SUT control adapter is implemented through PowerShell.  **interactive**: Interactive adapter is used for manually configuring the server. Interactive adapter displays a dialog box to perform manual test each time one of its methods is called. The dialog box will show the method name, parameter names and values\*\*\*. |

*\*The Adapter property value is set to either* ***managed*** *or* ***powershell*** *depending on whether the SUT control adapter is implemented in managed C# code or through Powershell.*

*\*\* When changing to interactive mode from managed mode, the “adaptertype” attribute must be deleted to avoid a runtime error.* *When changing to interactive mode from powershell mode, an additional step is required—delete the “scriptdir” attribute to avoid a runtime error.*

*\*\*\*When the manual operation completes successfully, enter the return value (if any) in “****Action Results****” and click* ***Succeed*** *in the dialog box. When the manual operation is unable to complete, enter the error messages in the* ***Failure Message*** *text box and click* ***Fail*** *to terminate the test. In this case, the test will be treated as “Inconclusive”.*

Further customization can be done by creating your own SUT control adapter that matches the server implementation. For information about how to create a SUT control adapter, see the Protocol Test Framework (PTF) user documentation.

* + - 1. **Configure TSAP broadcast**

Test Session Announcement Protocol (TSAP) is used by PTF to broadcast test information when the test suite is running. TSAP broadcast helps in mapping test cases to captured frames.

By default, TSAP packets are broadcasted in the network. Users can disable TSAP broadcast by adding an entry “BeaconLogTargetServer” to TestSuite.deployment. config to target the TSAP only to specified machine.

To change the TSAP packet broadcast, do the following:

1. Browse to the **MS-XXXX\_TestSuite.deployment.ptfconfig** configuration file in the **\Source\MS-XXXX\TestSuite\** folder.
2. Add a property “BeaconLogTargetServer” along with the value of the specified machine name.

For example: <Property name="BeaconLogTargetServer" value="SUT01" />

* + 1. SHOULD/MAY configuration files

The test suite has six SHOULD/MAY configuration files that are specific to all supported versions of the SUT. Each SHOULD/MAY requirement have an associated parameter with a value of either “true” or “false” corresponding to the server version that is supported. “true” represents that the requirement must be validated, whereas “false” means that the requirement must not be validated.

If the SUT is a non-Microsoft implementation of SharePoint Server, configure the properties in the configuration file for the SUT which is the closest match to the SUT implementation.

SHOULD/MAY configuration files

|  |  |
| --- | --- |
| **Configuration file** | **Description** |
| MS-XXXX\_WindowsSharePointServices3\_SHOULDMAY.deployment.ptfconfig | Provides the configuration properties for SHOULD and MAY requirements supported by Windows SharePoint Services 3.0 Service Pack 3 (SP3). |
| MS-XXXX\_SharePointFoundation2010\_SHOULDMAY.deployment.ptfconfig | Provides the configuration properties for SHOULD and MAY requirements supported by Microsoft SharePoint Foundation 2010 Service Pack 2 (SP2). |
| MS-XXXX\_SharePointFoundation2013\_SHOULDMAY.deployment.ptfconfig | Provides the configuration properties for SHOULD and MAY requirements supported by Microsoft SharePoint Foundation 2013 Service Pack 1 (SP1). |
| MS-XXXX\_SharePointServer2007\_SHOULDMAY.deployment.ptfconfig | Provides the configuration properties for SHOULD and MAY requirements supported by Microsoft Office SharePoint Server 2007 Service Pack 3 (SP3). |
| MS-XXXX\_SharePointServer2010\_SHOULDMAY.deployment.ptfconfig | Provides the configuration properties for SHOULD and MAY requirements supported by Microsoft SharePoint Server 2010 Service Pack 2 (SP2). |
| MS-XXXX\_SharePointServer2013\_SHOULDMAY.deployment.ptfconfig | Provides the configuration properties for SHOULD and MAY requirements supported by Microsoft SharePoint Server 2013 Service Pack 1 (SP1). |
| MS-XXXX\_SharePointServer2016\_SHOULDMAY.deployment.ptfconfig | Provides the configuration properties for SHOULD and MAY requirements supported by Microsoft SharePoint Server 2016. |

* + 1. Configuring the test suite client using setup configuration script

***Note*** *The setup configuration script is only implemented for configuring the test suite client on the Windows platform.*

To configure the test suite using the setup configuration script, navigate to the **Setup\Test Suite Client**\ folder, right-click **SharePointClientConfiguration.cmd** and select **Run as administrator.**

* + 1. Configuring the test suite client manually

If you didn’t use the setup configuration script to configure the test suite client as described in the previous section, follow the steps below to update configuration files and configure the test suite client.

1. Update the property value in the common configuration file and the test suite-specific configuration files according to the comment of the property.
2. By default, the test suites use PowerShell script in the SUT control adapter to configure the SUT. If you chose interactive mode for the SUT control adapter as described in section [5.2.2.1](#Configure_Interactive_Mode), skip this step.
   1. Set the execution policy to RemoteSigned.
   2. Add the SUT to the TrustedHosts to ensure that the Windows Remote Management (WinRM) client can process remote calls against the SUT if the test suite client is not joined to the domain.

# Running test suites

Once the required software has been installed and both the SUT and test suite client have been configured appropriately, the test suite is ready to run. The test suite can run only on the test suite client and can be initiated in one of the following two ways: Visual Studio or batch scripts.

**Note**   If you need to run the test suite MS-WDVMODUU, copy the fake virus file that mentioned in section [2.2.1](#VirusFile) to the folder **\Source\MS-WDVMODUU\TestSuite\** **Resources**.

## MicrosoftVisual Studio

A MicrosoftVisual Studio solution file **SharePointServerProtocolTestSuites.sln** is provided in the **Source** folder. You can run a single or multiple test cases in Visual Studio.

|  |  |
| --- | --- |
| 1. Open **SharePointServerProtocolTestSuites.sln** in Visual Studio. |  |
| 1. In the **Solution Explorer** pane, right-click **Solution ‘SharePointServerProtocolTestSuites’**, and then click **Rebuild Solution**. |  |
| 1. Open **Test Explorer**. On the ribbon, click **TEST** , then click **Windows**, and finally click **Test Explorer**. |  |
| 1. Select the test case to run. Right-click the test case and then select **Run Selected Tests**. |  |

A Visual Studio solution file **MS-XXXX.sln** is provided in each test suite folder.

|  |  |
| --- | --- |
| 1. Select the test suite you would like to run. Let’s take MS-DWSS as an example here, so browse to the **Source\MS-DWSS\** directory. | |
| 1. Open **MS-DWSS.sln** in Visual Studio. |  |
| 1. In the Solution Explorer pane, right-click **Solution ‘MS-DWSS**’, and then click **Rebuild Solution**. |  |
| 1. Open Test Explorer. On the ribbon, click **TEST** , then click **Windows**, and finally click **Test Explorer** |  |
| 1. Select the test case to run. Right-click the test case and then select **Run Selected Tests**. |  |

## Batch scripts

SharePoint Server Protocol Test Suites are installed with a collection of scripts that enable a user to run individual test cases (RunMSXXXX\_SYY\_TCZZ \_TestCaseDescription.cmd) or all test cases in a test suite (RunAllMSXXXXTestCases.cmd), or all test cases of SharePoint Server Protocol test suites at once (RunAllSharePointTestCases.cmd). These scripts can be found in the **\Source\Scripts** directory.

**Note**   These scripts depend on having the compiled binaries in the bin folder.

|  |  |
| --- | --- |
| **Batch script** | **Script description** |
| RunAllSharePointTestCases.cmd | Runs all the test cases within the SharePoint Server Protocol test suites. |
|  |  |
| RunAllMSXXXXTestCases.cmd | Runs all MS-XXXX test cases. |
|  |  |
| RunMSXXXX\_S01\_TC01\_TestCaseDescription.cmd | Runs a specific test case within the test suite. |

# Test suite results, logs, and reporting

The test suites provide detailed reporting in a variety of formats that will enable users to quickly debug failures.

## Test suite configuration logs

The configuration logs contain information about whether each configuration step succeeds or not, and detail error information if the configuration step fails.

### SUT configuration logs

The configuration scripts create a directory named **SetupLogs** under **…\Setup\SUT\** separately.The SUT configuration scripts save the logs from the configuration process as “SharePointSUTConfiguration.ps1.debug.log” and “SharePointSUTConfiguration.ps1.log.

The second SUT configuration scripts save the logs as” SharePointSecondSUTConfiguration.ps1.log” and”SharePointSecondSUTConfiguration.ps1.debug.log”.

### Test suite client configuration logs

The configuration scripts create a directory named **SetupLogs** under **…\Setup\Test Suite Client\**. The test suite client configuration scripts save the logs from configuration process as “SharePointClientConfiguration.ps1.debug.log” and “SharePointClientConfiguration.ps1.log”

## Test suite reports

### Microsoft Visual Studio

Reports are created only after the package level solution or an individual test suite solution has run successfully in Visual Studio.

* Reporting information for **SharePointServerProtocolTestSuites.sln** is saved in **…\Source\TestResults**.
* Reporting information for an individual test suite **MS-XXXX.sln** is saved in **…\Source\MS-XXXX\TestResults**.

### Batch scripts

If the SharePoint Server Protocol test suites are run by the RunAllSharePointTestCases.cmd batch file, the reporting information is saved in **…\Source\Scripts\TestResults**.

If the test suite is run by the batch file RunAllMSXXXXTestCases.cmd or RunMSXXXX\_SYY\_TCZZ\_Name.cmd, the reporting information is saved in **…\Source\Scripts\MS-XXXX\TestResults.**

By default, a .trx file containing the pass/fail information of the run is created in the TestResults folder along with an associated directory named **user\_MACHINENAME DateTimeStamp** that contains a log file and an HTML report.

# Appendix

|  |  |
| --- | --- |
| References | Description |
| [dochelp@microsoft.com](mailto:dochelp@microsoft.com) | Alias for Interoperability documentation help. Provides support for the Open Specifications and protocol test suites. |
| [Open Specifications Forums](http://go.microsoft.com/fwlink/?LinkId=111125) | Microsoft Customer Support Services forums. Actively monitored forums that provide support for the Open Specifications and protocol test suites. |
| [Open Specifications Developer Center](http://go.microsoft.com/fwlink/?LinkId=254469) | Open Specifications home page on MSDN. |
| [Open Specifications](http://go.microsoft.com/fwlink/?LinkId=179743) | Open Specifications documentation on MSDN. |
| [SharePoint Products and Technologies Protocols](http://go.microsoft.com/fwlink/?LinkId=202122) | SharePoint Open Specifications documentation on MSDN. |
| [RFC2119](http://go.microsoft.com/fwlink/?LinkId=117453) | Normative language reference. |
| [Windows SharePoint Services 3.0 deployment](http://go.microsoft.com/fwlink/?LinkId=517502) | Windows SharePoint Services 3.0 deployment on TechNet |
| [Microsoft SharePoint Foundation 2010 deployment](http://go.microsoft.com/fwlink/?LinkId=517503) | Microsoft SharePoint Foundation 2010 deployment on TechNet |
| [Microsoft SharePoint Foundation 2013 installation and configuration](http://go.microsoft.com/fwlink/?LinkId=517504) | Microsoft SharePoint Foundation 2013 installation and configuration on TechNet |
| [Microsoft Office SharePoint Server 2007 deployment](http://go.microsoft.com/fwlink/?LinkId=517506) | Microsoft Office SharePoint Server 2007 deployment on TechNet |
| [Microsoft SharePoint Server 2010 deployment](http://go.microsoft.com/fwlink/?LinkId=517505) | Microsoft SharePoint Server 2010 deployment on TechNet |
| [Microsoft SharePoint Server 2013 installation and configuration](http://go.microsoft.com/fwlink/?LinkId=517504) | Microsoft SharePoint Server 2013 installation and configuration on TechNet |
| [Microsoft SharePoint Server 2016 Installation and configuration](https://technet.microsoft.com/zh-cn/library/cc303422(v=office.16).aspx) | Microsoft SharePoint Server 2016 installation and configuration on TechNet |
| [Microsoft Forefront Protection 2010 for SharePoint deployment](http://go.microsoft.com/fwlink/?LinkId=517510) | Microsoft Forefront Protection 2010 for SharePoint deployment on TechNet |