

Interoperability Tools for CIFS/SMB/SMB2

Paul Long Microsoft

Who am I?





Paul Long Senior Program Manager Protocol Engineering Team

Overview of Interoperability Tools





Open Specifications



Spec Explorer



Windows
Server 2008

Hyper-V

Windows
Server
192.168.0.101

Samba
Server

Interoperability Test
Suites

Open Specifications



Windows Client/Server

Office

SharePoint

Exchange

SQL

File Formats

. . .



MSDN Support Forums

File Access Services

MS-FSSO - Overview

MS-CIFS

MS-SMB

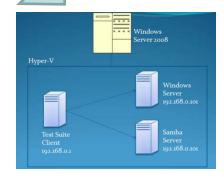
MS-SMB2

MS-FSCC

. . .

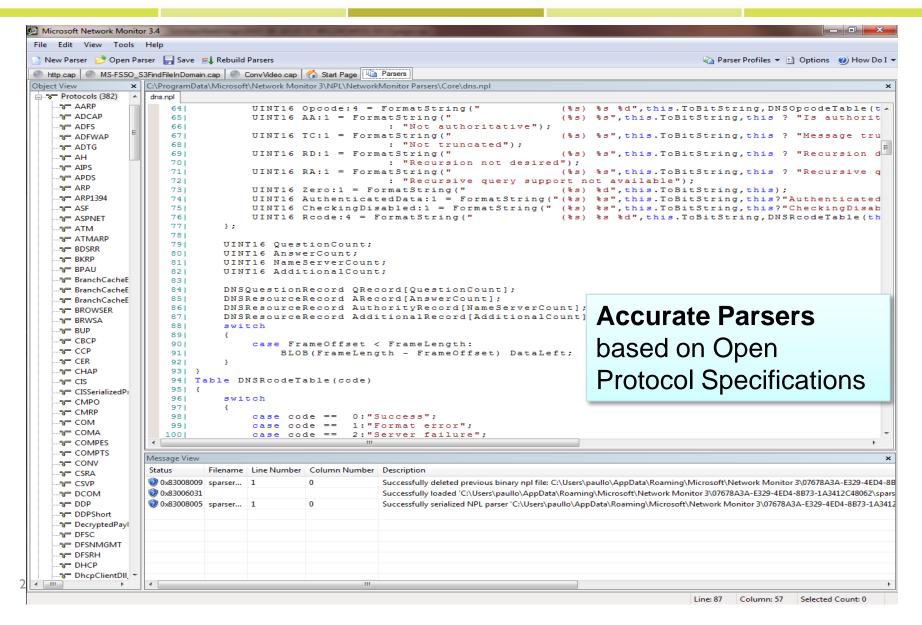


Network Monitor Parsers

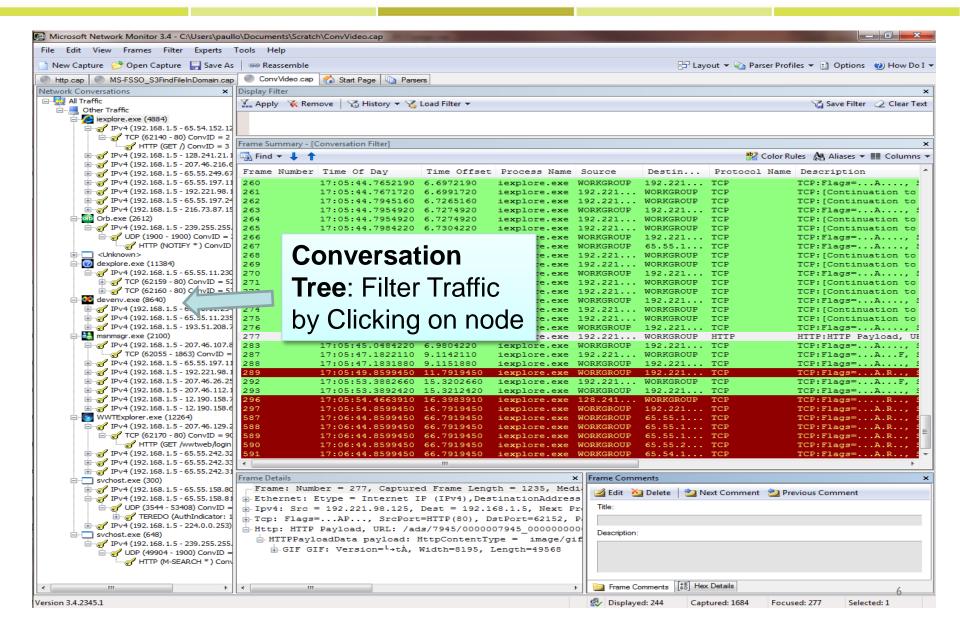


Interoperability Test Suites

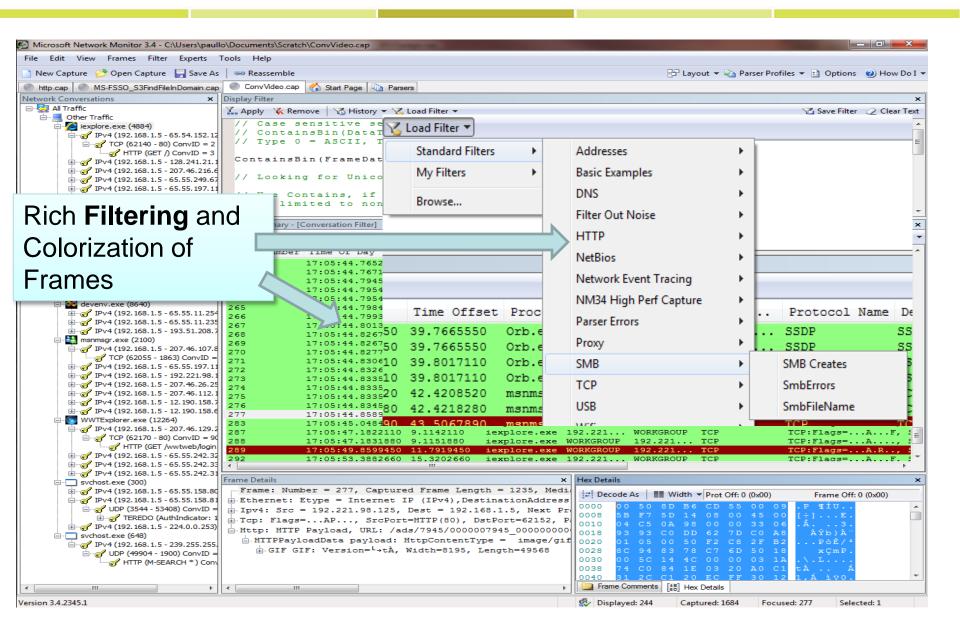




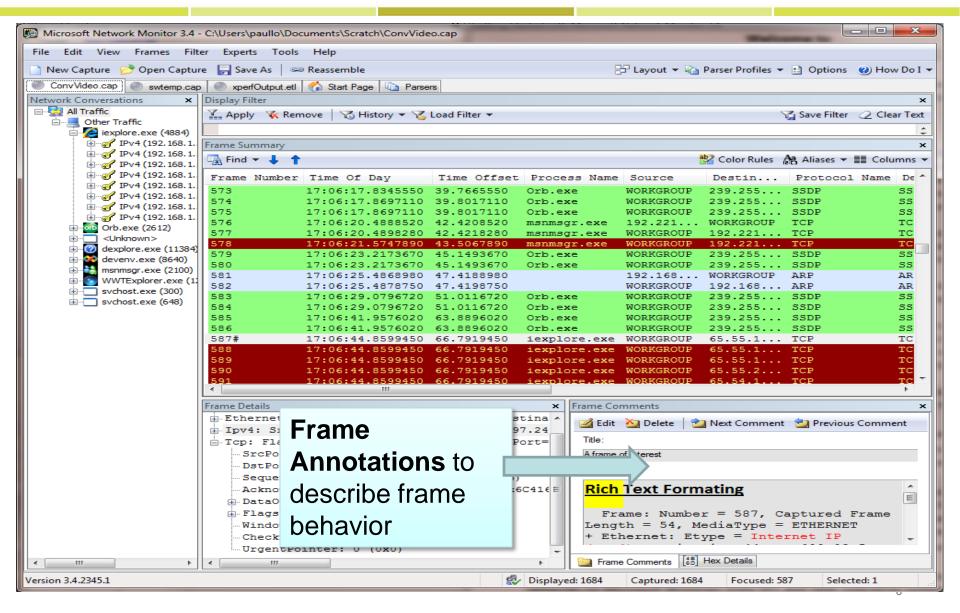






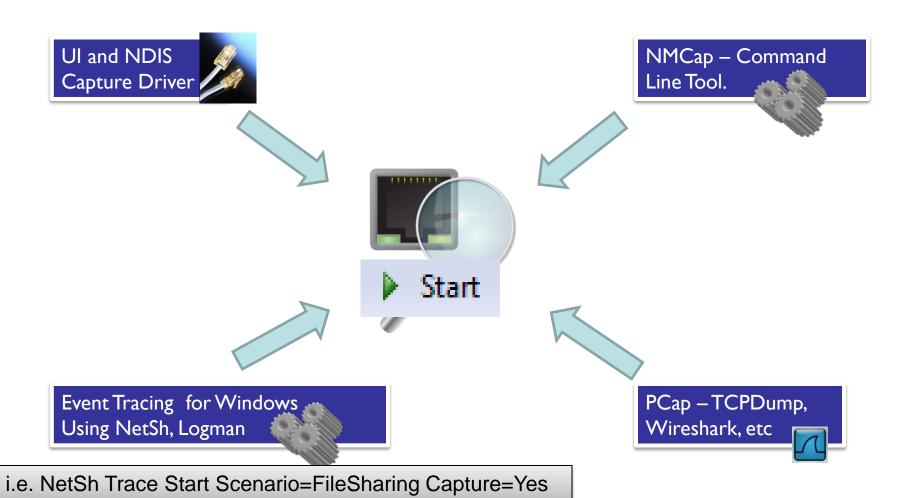




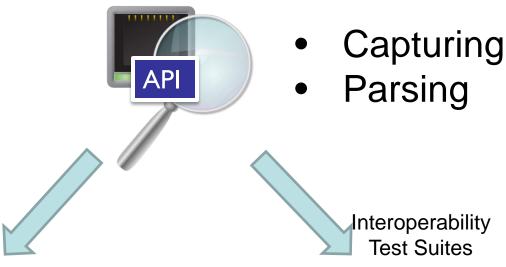


Network Monitor 3.4 – Input Sources

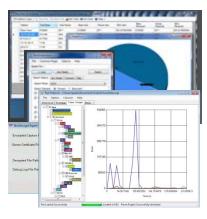




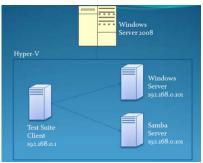




Experts



Top Users
Top Protocols
SSL Decrypt
Simple Search
TCP Analyzer

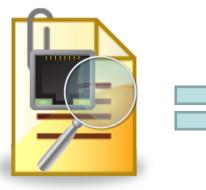


Network Monitor 3.4 - Interop



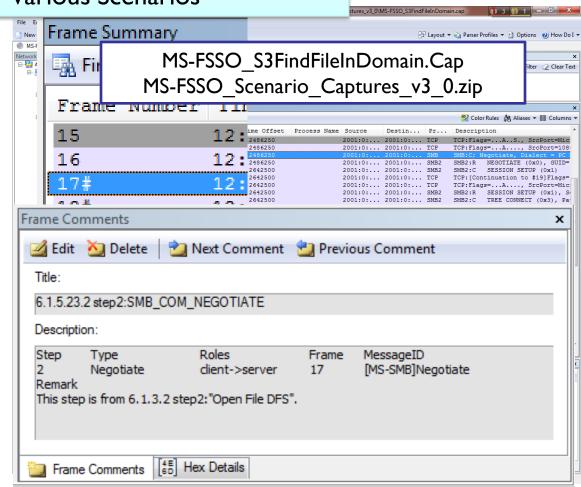
System Documents - Annotated Traces for Various Scenarios

http://sysdoccap.codeplex.com/





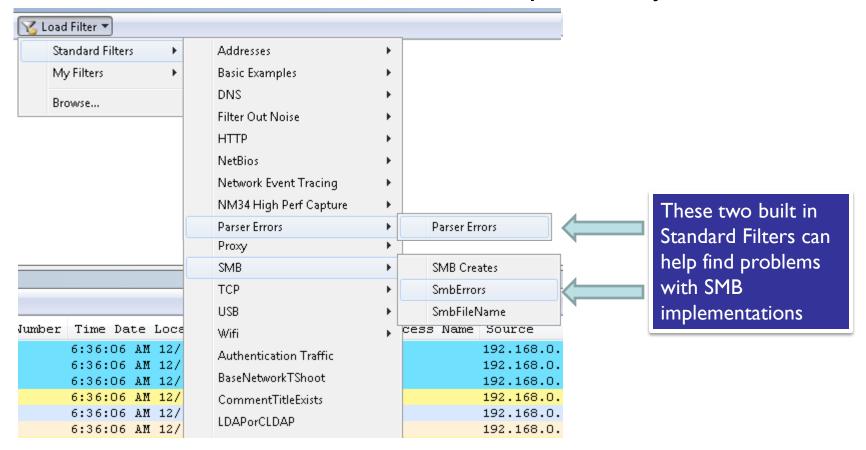
File Sharing System Docs
Find File In Domain
Find File In Workgroup
Config Server



Network Monitor 3.4 - Interop



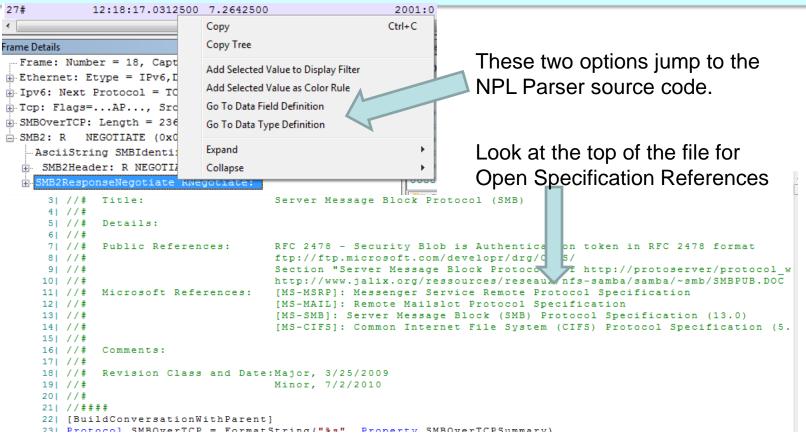
Why read the Open Protocol Specifications when Network Monitor can do the first pass for you?



Network Monitor 3.4 - Interop

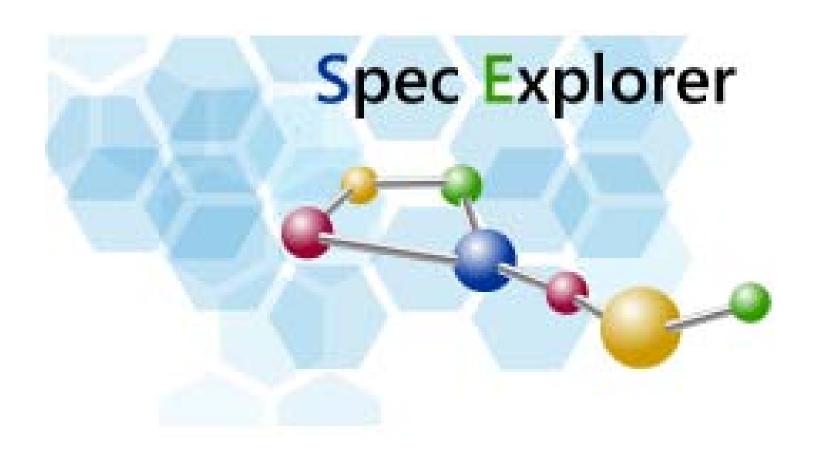


How can I locate documentation based on a trace I'm looking at?



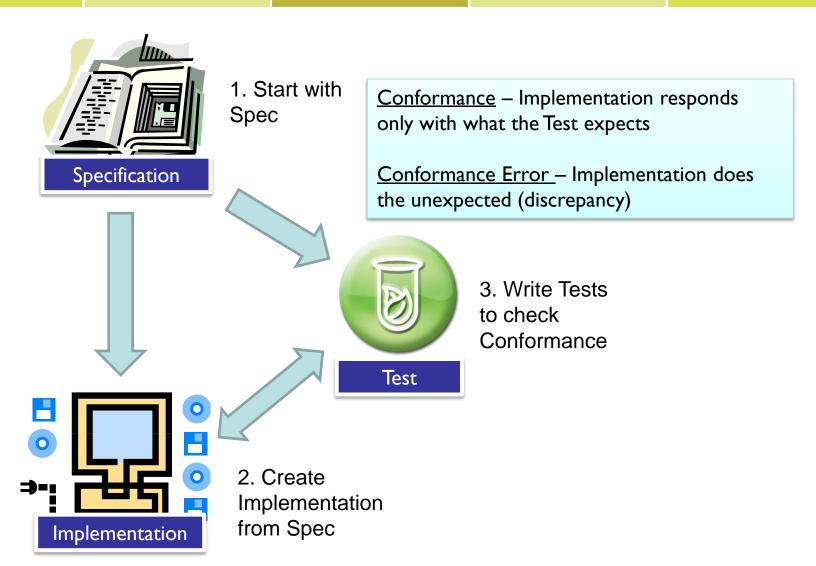
Spec Explorer - Overview





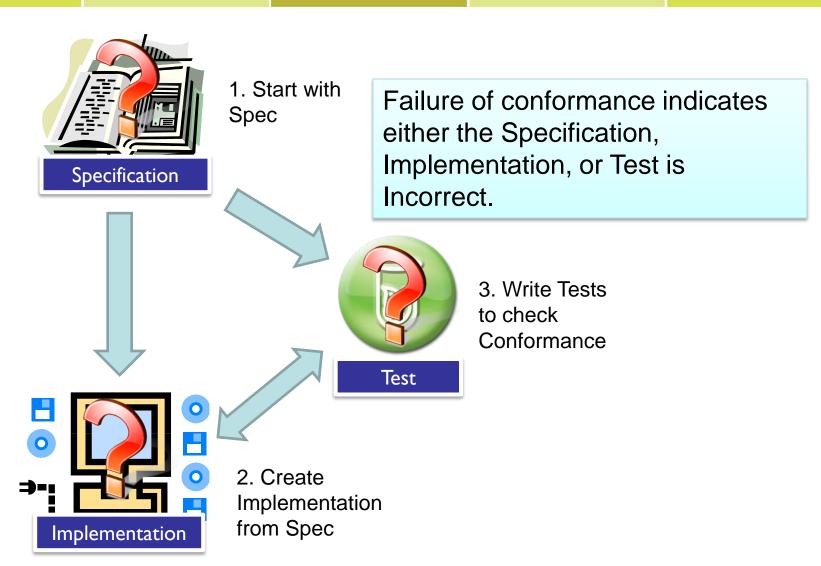
Conformance Testing





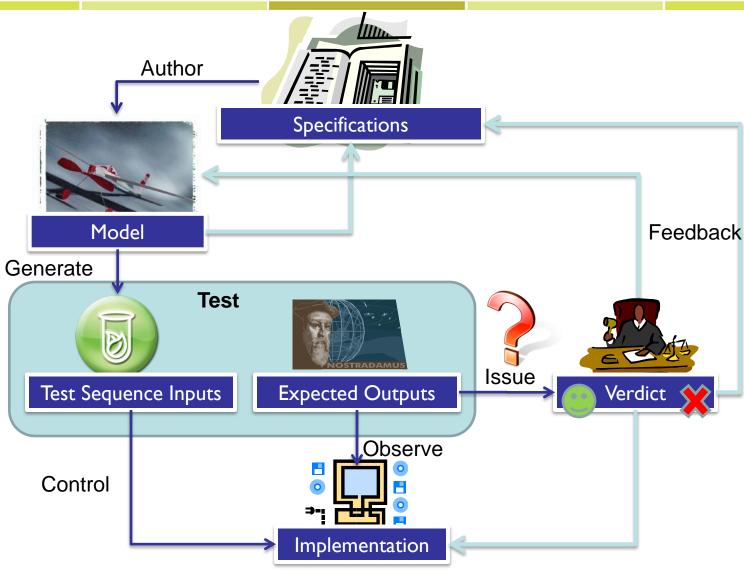
Conformance Testing





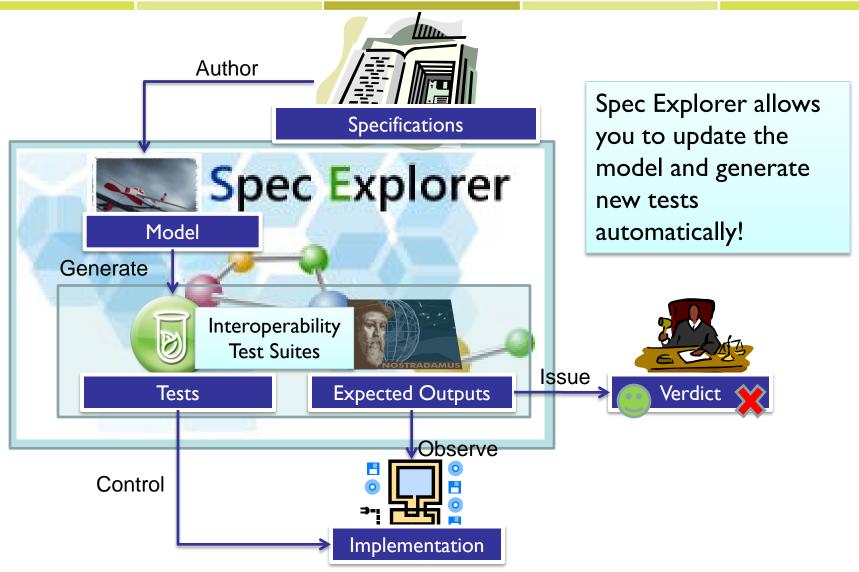
Spec Explorer – Model-Based Testing





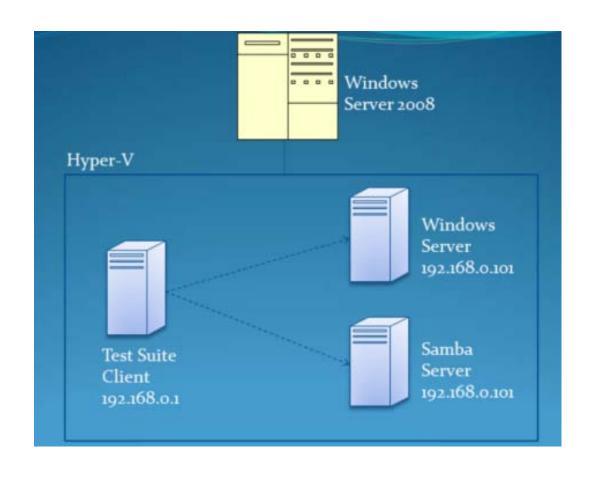
Spec Explorer – Model-Based Testing





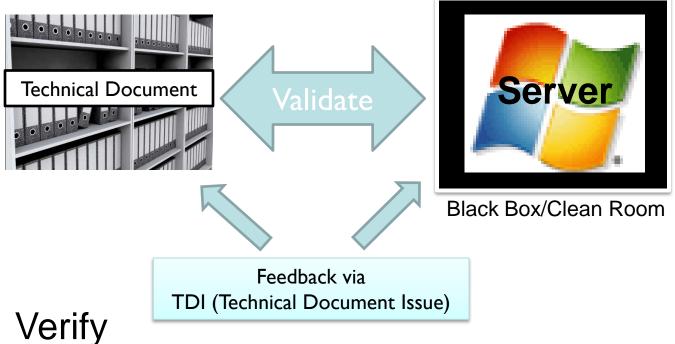
Interoperability Test Suites





Scope – Validate Docs against **Implementation**





- Conformance
- Accuracy
- Usability

Scope – Test Interoperability





Microsoft Protocol Plugfests



Interoperability IO Labs

http://www.microsoft.com/openspecifications/appliedinterop/

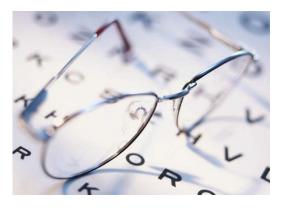
Two Test Approaches





Model-Based Testing

- Stateful Protocol with Complex Logic Transitions
- Complex Field Combinations
- Easy to Maintain the Test Cases

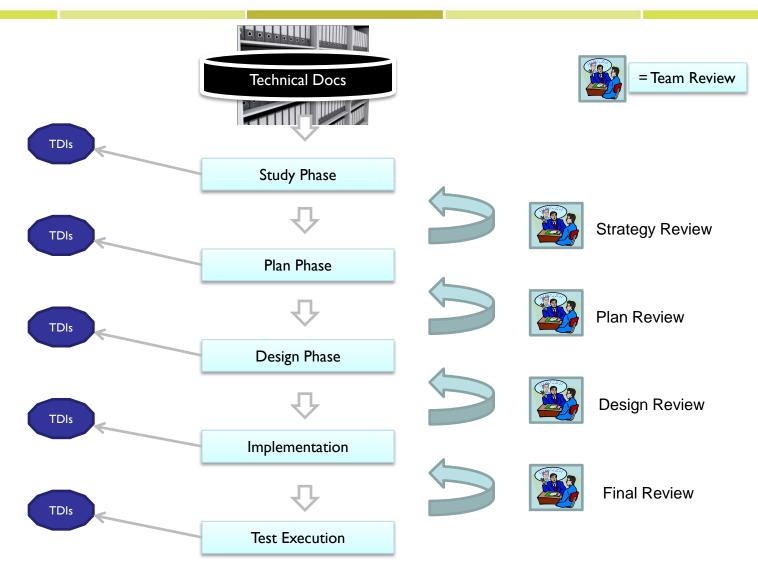


Traditional Testing

For Special logic

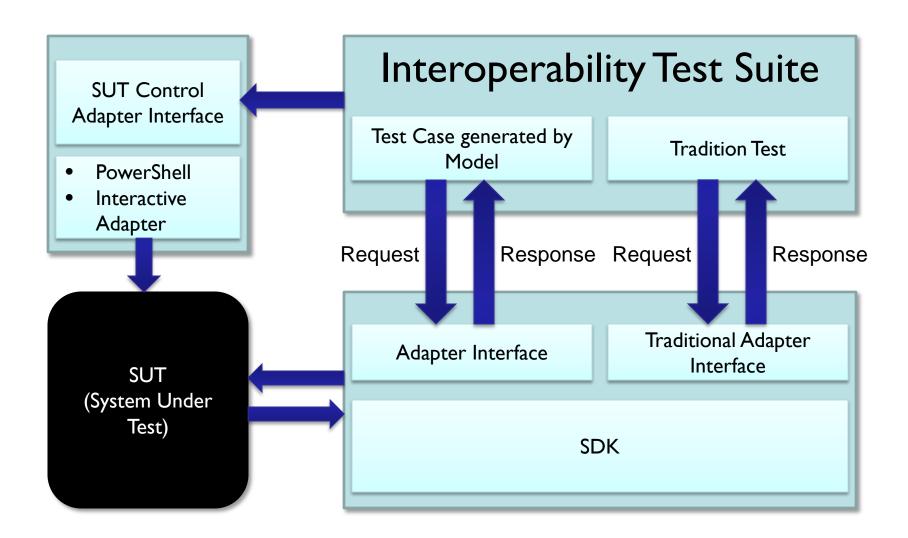
ProtoDoc Quality Assurance Process





Interoperability Test Suite Arch





Test Suites Available for Download



https://connect.microsoft.com/site1165/Downloads

Downloads

Microsoft Open Specifications Test Tools

The following table contains items that you can download. To filter the results, select the parameters, and then click **Filter**.

Reminder: You cannot distribute downloaded packages. Please see the Microsoft Connect Terms of Use.



Click a Title link to view details about a download package and to proceed with the download process.

Items per page: 25 50 100 All				
Date	Title	Version	Category	Description
7/6/2011	MS-DFSC Test Suite Package	Beta 1.0.1166.0	Build	MS-DFSC Test Suite Package
7/6/2011	MS-WCCE Test Suite Package	Beta 1.0.1166.0	Build	MS-WCCE Test Suite Package
7/6/2011	MS-LSAT Test Suite Package	Beta 1.0.1195.0	Build	MS-LSAT Test Suite Package
7/5/2011	MS-KILE Test Suite Package	Beta 1.0.1190.0	Build	MS-KILE Test Suite Package
7/5/2011	MS-PAC Test Suite Package	Beta 1.0.1168.0	Build	MS-PAC Test Suite Package
7/1/2011	MS-ADTS-LDAP Test Suite Package	Beta 1.0.1182.1	Build	MS-ADTS-LDAP Test Suite Package
7/1/2011	MS-SMB Test Suite Package	Beta 1.0.1195.1	Build	MS-SMB Test Suite Package
7/1/2011	MS-CIFS Test Suite Package	Beta 1.0.1195.0	Build	MS-CIFS Test Suite Package
7/1/2011	MS-FSCC Test Suite Package	Beta 1.0.1182.1	Build	MS-FSCC Test Suite Package
7/1/2011	MS-SMB2 Test Suite Package	Beta 1.0.1182.1	Build	MS-SMB2 Test Suite Package
6/28/2011	MS-ADTS Security Test Suite Package	Beta 1.0.1166.0	Build	MS-ADTS Security Test Suite Package
6/15/2011	MS-LSAD Test Suite Package	Beta 1.0.1166.0	Build	MS-LSAD Test Suite Package

Plugfest Details



Plugfest Details

- CIFS/SMB/SMB2 Plugfest runs from Sept 18th-22rd
- Latest Windows Software and Interoperability Test Suites from Microsoft
- Technical Support from Microsoft Engineers

Questions??





Network Monitor Resources



- Network Monitor 3.4 Download
 - http://go.microsoft.com/fwlink/?LinkID=103158
- Network Monitor Forums
 - http://go.microsoft.com/fwlink/?LinkID=151800
- □ Parser Updates for CodePlex
 - http://go.microsoft.com/fwlink/?LinkID=125105
- Network Monitor Experts
 - http://go.microsoft.com/fwlink/?LinkID=133950
- Open Specifications
 - http://www.microsoft.com/openspecifications/

Spec Explorer Resources



- □ Spec Explorer
 - □ http://msdn.microsoft.com/en-us/devlabs/ee692301.aspx
- Model-Based Testing
 - □ http://msdn.microsoft.com/en-us/library/ee620469.aspx