



## Remote Desktop Protocol Test Suites Overview and Updates

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RDP Test Suite Overview

GitHub Release: Cross Platform

Test Environment

Demo

\*RDP Client Test Suite As an Example



 Open Specification defines messages, sequence and behavior of Windows Server & Client



2. Develop protocol test suite (Synthetic Server) according to the Open Specification



\*RDP Client Test Suite As an Example





3. Run against Windows Client/Server to verify the Open Specification



\*RDP Client Test Suite As an Example





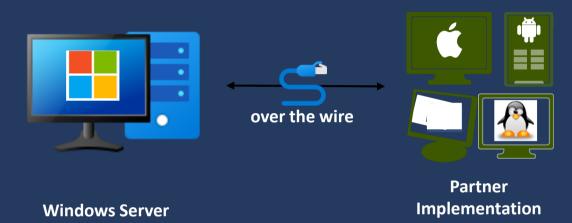


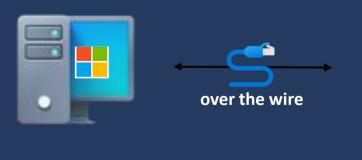
Test Suite (Synthetic Client/Server)

4. Partners use this test suite to run against a client implementation to identify & debug issues



\*RDP Client Test Suite As an Example





**Windows Client** 



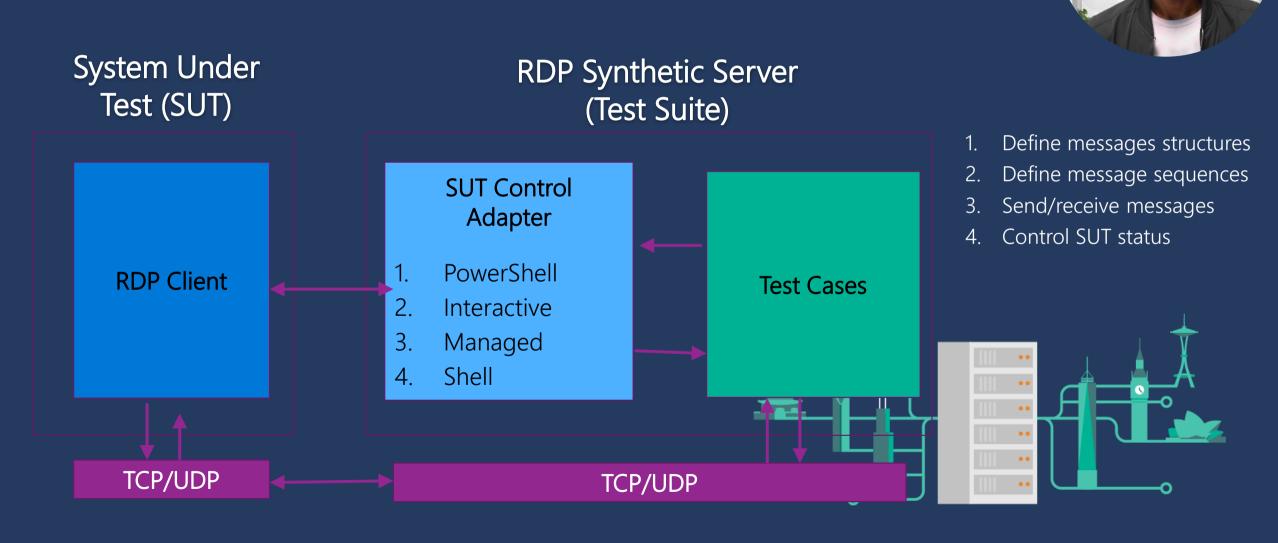
Partner Implementation

5. Interop between partner's Client and Windows Server



## RDP Test Suites Overview - Architecture

\*RDP Client Test Suite As an Example



## RDP Test Suites Overview - Protocols



## **RDP Client Test Suite**

- 11 RDP protocols
- 400+ test cases

### MS-RDPBCGR/EDYC/EGT

- Connection
- Reactivation
- Auto-Reconnection
- Server Redirection
- Basic Client Input
- Fast-Path/Slow-Path
- Static virtual Channel
- Network Auto-Detection
- Connection health monitoring

### MS-RDPRFX

- RFX Codec(RLGR1/RLGR3)
- Image / Video Mode

## MS-RDPEUSB

- USB Device Channel Setup
- 1/0

### MS-RDPEVOR

Video Remoting

### MS-RDPEGFX

- Surface & Cache
  - RemoteFX Codec
- Progressive Codec
- Clear Codec
- RDP8.0 Compression
- H264 Codec

### MS-RDPEUDP

- Reliable/Lossy Connection
- Retransmit
- Congestion Control

### MS-RDPEI

- Touch Input
- Touch Control

#### MS-RDPEMT

- Build Secure Channel
- Network Auto-Detection
- Exchange DVC data

### MS-RDPEDISP

Change display configuration

## **RDP Server Test Suite**

- 5 RDP protocols
- 27 test cases

## MS-RDPBCGR/EDYC/EGT

- Connection
- Auto-Reconnection
- Fast-Path
- Slow-Path
- Static virtual Channel
- Network Auto-Detection
  Connection
- Health monitoring

## MS-RDPEMT

MultiTransport connection initiation sequences

## MS-RDPEDYC

Create and close DVC Send compressed Send uncompressed data

### **MS-RDPELE**

- New License
- Update License



## GitHub Release

- Migrated to .NET 6.0
- Support cross platform
- Added new RDPEUDP and RDPBCGR test cases
- RDP Server now supports SUT Control Agent
- RDPEUDP2 Auto Detect on PTM Service
- Bug and Accessibility Fixes on PTM Service

## Available:

- Protocol Test Framework 2.1.0 on Nuget
- Test suite 4.21.1.0 on GitHub



## WindowsProtocolTestSuites 4.21.1.0

Sweeetday released this 7 days ago ⋅ 6 commits to main since this release

Welcome to the Windows Protocol Test Suites v4.21.1.0 release!

## **Test Suites Prerequisites**

The prerequisite software that is needed to run Windows Protocol Test Suites now includes .NET 5 for support of non-Windows operating systems. See Prerequisites on GitHub for more information.

## Updates in this Release

The major change for this release is that the RDP Client and RDP Server Test Suites are both migrated to .NET 5. and the dependent PTF version is upgraded to v2.1.0.

### RDP Client Test Suite v4.21.1.0

The following updates have been applied for this version:

• This Test Suite was migrated to .NET 5 from .NET Framework 4.7.



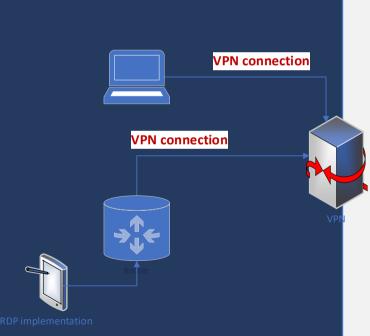
Meetup session: Hands On Lab - RDP (10:30am - 11:15am PST)

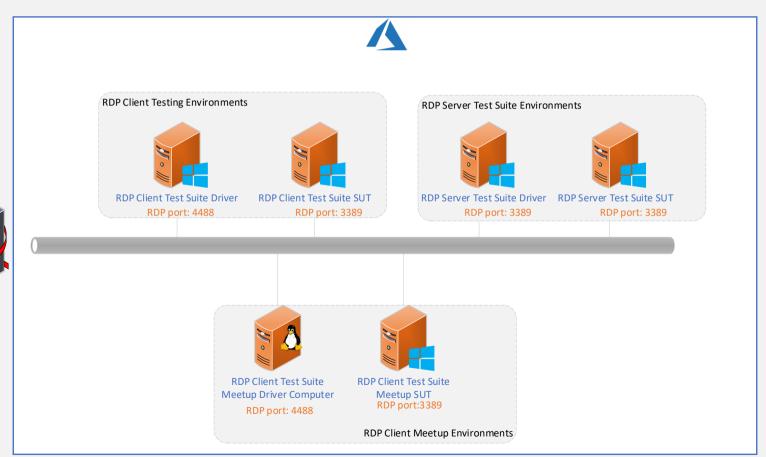


# 10 Lab Environment Topology



## **Protocol Testing Environments on Azure**





## How to Reserve Environment



Start your journey with reserving an environment.

Enjoy ©



