

# FreeRDP Testing Manual

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# Contents

|          |                           |          |
|----------|---------------------------|----------|
| <b>1</b> | <b>Introduction</b>       | <b>2</b> |
| 1.1      | References . . . . .      | 2        |
| <b>2</b> | <b>Serial Redirection</b> | <b>3</b> |

# Chapter 1

## Introduction

### 1.1 References

FreeRDP User Manual<sup>1</sup>

FreeRDP Developer Manual<sup>2</sup>

FreeRDP Configuration Manual<sup>3</sup>

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<sup>1</sup><https://github.com/awakecoding/FreeRDP-Manuals/blob/master/User/FreeRDP-User-Manual.pdf?raw=true>

<sup>2</sup><https://github.com/awakecoding/FreeRDP-Manuals/blob/master/Configuration/FreeRDP-Developer-Manual.pdf?raw=true>

<sup>3</sup><https://github.com/awakecoding/FreeRDP-Manuals/blob/master/Configuration/FreeRDP-Configuration-Manual.pdf?raw=true>

## Chapter 2

# Serial Redirection

Connect an usb2serial converter (no need to connect a device)

Run xfreerdp /serial:COM10,/dev/ttyUSB0 /u:demo1 /p:qw /v:servername

Inside the rdp session open a cmd and verify that the port got mapped to COM10 using the change port /query command. This should give the following (or similar) output:

```
change port /query
AUX = \DosDevices\COM1
COM1 = \Device\Serial0
COM2 = \Device\Serial1
COM10 = \Devices\RdpDrPort\;COM10:2\tscclient\COM10
```

Install Putty<sup>1</sup>

Install HyperTerminal<sup>2</sup> (30-day trial)

Open Putty, select (\*) serial, enter COM10 in the serial line edit and click the Open button: xfreerdp's CPU usage will immediately raise (25% on my Linux-iMac) to a constant high level until you close putty

Open HyperTerminal, select Menu->File->New Connection, name it COM-10, select COM10 from the "connect using:" dropdown, click ok and again on ok in the next dialog. xfreerdp's CPU usage will immediately increase but less compared to Putty (5% on my box)

### Additional Information

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<sup>1</sup><http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

<sup>2</sup><http://www.hilgraeve.com/support/hpte7.exe>

Putty and HyperTerminal both use SetCommTimeouts<sup>3</sup>. Putty uses 1ms for ReadIntervalTimeout and Hyperterm 10ms.

Using mstsc I see literally no CPU usage.

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<sup>3</sup><http://msdn.microsoft.com/en-us/library/windows/desktop/aa363437>