

GitHub - stascorp/rdpwrap: RDP Wrapper Library

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RDP Wrapper Library by Stas'M

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The goal of this project is to enable Remote Desktop Host support and concurrent RDP sessions on reduced functionality systems for home usage.

RDP Wrapper works as a layer between Service Control Manager and Terminal Services, so the original termsrv.dll file remains untouched. Also this method is very strong against Windows Update.

NT Version	Screenshots
Windows Vista	 Windows Vista Starter  Windows Vista Home Basic
Windows 7	 Windows 7 Starter  Windows 7 Home Basic
Windows 8	 Windows 8 Developer Preview  Windows 8 Consumer Preview  Windows 8 Release Preview  Windows 8
Windows 8.1	 Windows 8.1 Preview  Windows 8.1
Windows 10	 Windows 10 Technical Preview  Windows 10 Pro Technical Preview  Windows 10

This solution was inspired by [Windows Product Policy Editor](#), big thanks to **kost** :)

— binarymaster

Attention:

It's recommended to have original termsrv.dll file with the RDP Wrapper installation. If you have modified it before with other patchers, it may become unstable and crash in any moment.

Information:

- Source code is available, so you can build it on your own
- RDP Wrapper does not patch termsrv.dll, it loads termsrv with different parameters
- RDPWInst and RDPChecker can be redistributed without development folder and batch files

- RDPWInst can be used for unattended installation / deployment
- Windows 2000, XP and Server 2003 will not be supported

Key features:

- RDP host server on any Windows edition beginning from Vista
- Console and remote sessions at the same time
- Using the same user simultaneously for local and remote logon (see configuration app)
- Up to [15 concurrent sessions](#) (the actual limitation depends on your hardware and OS version)
- Console and RDP session shadowing (using [Task Manager in Windows 7](#) and lower, and [Remote Desktop Connection in Windows 8](#) and higher)
- Full [multi-monitor support](#) for RDP host
- ...and if you find a new feature not listed here, [tell us](#) ;)

Porting to other platforms:

- **ARM** for Windows RT (see links below)
- **IA-64** for Itanium-based Windows Server? *Well, I have no idea* :)

Building the binaries:

- **x86 Delphi version** can be built with *Embarcadero RAD Studio 2010*
- **x86/x64 C++ version** can be built with *Microsoft Visual Studio 2013*

Links:

- Official GitHub repository:
<https://github.com/stascorp/rdpwrap/>
- Official Telegram chat:
<https://t.me/rdpwrap>
- Active discussion in the comments here:
[Enable remote desktop on Windows 8 core / basic - Andrew Block .net](#)
- MDL Projects and Applications thread here:
[RDP Wrapper Library \(works with Windows 8.1 Basic\)](#)
- Some ideas about porting to ARM for Windows RT (post #23):
[\[Q\] Mod Windows RT to enable Remote Desktop](#)
- Adding «Remote Desktop Users» group:
<http://superuser.com/questions/680572/>

Tutorial videos:

- [Updating RDP Wrapper INI file manually](#) (now use installer to update INI file)
- [How to find offsets for new termsrv.dll versions](#)

Files in release package:

File name	Description
<code>RDPWInst.exe</code>	RDP Wrapper Library installer/uninstaller
<code>RDPCheck.exe</code>	Local RDP Checker (you can check the RDP is working)
<code>RDPConf.exe</code>	RDP Wrapper Configuration
<code>install.bat</code>	Quick install batch file
<code>uninstall.bat</code>	Quick uninstall batch file
<code>update.bat</code>	Quick update batch file

Frequently Asked Questions

Where can I download the installer or binaries?

In the [GitHub Releases](#) section.

Is it legal to use this application?

There is no definitive answer, see [this discussion](#).

The installer tries to access the Internet, is it normal behaviour?

Yes, it works in online mode by default. You may disable it by removing `-o` flag in the `install.bat` file.

What is online install mode?

Online install mode introduced in version 1.6.1. When you installing RDP Wrapper first time using this mode, it will download [latest INI file](#) from GitHub. See [this discussion](#).

What is INI file and why we need it?

INI file was introduced in version 1.5. It stores system configuration for RDP Wrapper — general wrapping settings, binary patch codes, and per build specific data. When new `termsrv.dll` build comes out, developer adds support for it by updating INI file in repository.

Config Tool reports version 1.5, but I installed higher version. What's the matter?

Beginning with version 1.5 the `rdpwrap.dll` is not updated anymore, since all settings are stored in INI file. Deal with it.

Config Tool shows `[not supported]` and RDP doesn't work. What can I do?

Make sure you're connected to the Internet and run `update.bat` .

Update doesn't help, it still shows `[not supported]` .

Visit [issues](#) section, and check whether your `termsrv.dll` build is listed here. If you can't find such issue, create a new — specify your build version for adding to support.

Why `RDPCheck` doesn't allow to change resolution and other settings?

`RDPCheck` is a very simple application and only for testing purposes. You need to use Microsoft Remote Desktop Client (`mstsc.exe`) if you want to customize the settings. You can use `127.0.0.1` or `127.0.0.2` address for loopback connection.

Known issues:

- Beginning with Windows 8 **on tablet PCs** inactive sessions will be logged out by system - [more info](#)
- Beginning with Windows 10 you can accidentally lock yourself from PC - [more info](#)
- Beginning with the Creators Update for Windows 10 Home, RDP Wrapper will no longer work, claiming that the listener is `[not listening]` because of `rfxvmt.dll` is missing - [more info](#), [download links](#)
- Terminal Service does not start after installing some updates or "Access Denied" issue - [#215](#), [#101](#)
- RDP Wrapper does not work with RemoteFX enabled hosts - [#127](#), [#208](#), [#216](#)
- RDP works, but `termsrv.dll` crashes on logon attempt - Windows Vista Starter RTM x86 (`termsrv.dll 6.0.6000.16386`)
- If Terminal Services hangs at startup, try to add `rdpwrap.dll` to antivirus exclusions. Also try to isolate RDP Wrapper from other shared services by the command:

```
sc config TermService type= own
```
- RDP Wrapper can be removed by AVG Free Antivirus and [Norton Antivirus](#) - first make sure you downloaded [official release](#) from GitHub, then add it to exclusions.

Change log:

2017.12.27

- Version 1.6.2
- Installer updated
- Include updated INI file for latest Windows builds
- Added check for supported Windows versions ([#155](#))
- Added feature to take INI file from current directory ([#300](#))
- Added feature to restore `rfxvmt.dll` (missing in Windows 10 Home [#194](#))
- RDP Config updated
- Added feature to allow custom start programs ([#13 \(comment\)](#))
- MSI installation package added ([#14](#))

2016.08.01

- Version 1.6.1
- Include updated INI file for latest Windows builds
- Installer updated

- Added online install mode
- Added feature to keep settings on uninstall
- RDP Config updated
- Fixed update firewall rule on RDP port change
- Added feature to hide users on logon

2015.08.12

- Version 1.6
- Added support for Windows 10
- INI file has smaller size now - all comments are moved to KB file
- Installer updated
- Added workaround for 1056 error (although it isn't an error)
- Added update support to installer
- Newest RDPClip versions are included with installer
- RDP Checker updated
- Changed connect IP to 127.0.0.2
- Updated some text messages
- RDP Config updated
- Added all possible shadowing modes
- Also it will write settings to the group policy

2014.12.11

- Version 1.5
- Added INI config support
- Configuration is stored in INI file now
- We can extend version support without building new binaries
- Added support for Windows 8.1 with KB3000850
- Added support for Windows 10 Technical Preview Update 2
- Installer updated
- RDP Config updated
- Diagnostics feature added to RDP Config

2014.11.14

- Version 1.4
- Added support for Windows 10 Technical Preview Update 1
- Added support for Windows Vista SP2 with KB3003743
- Added support for Windows 7 SP1 with KB3003743
- Added new RDP Configuration Program

2014.10.21

- Installer updated
- Added feature to install RDP Wrapper to System32 directory
- Fixed issue in the installer - NLA setting now remains unchanged
- Local RDP Checker updated
- SecurityLayer and UserAuthentication values changed on check start
- RDP Checker restores values on exit

2014.10.20

- Version 1.3
- Added support for Windows 10 Technical Preview
- Added support for Windows 7 with KB2984972
- Added support for Windows 8 with KB2973501
- Added extended support for Windows Vista (SP0, SP1 and SP2)
- Added extended support for Windows 7 (SP0 and SP1)
- Some improvements in the source code
- Installer updated to v2.2
- Fixed installation bug in Vista x64 (wrong expand path)
- Local RDP Checker updated
- Added description to error 0x708

2014.07.26

- Version 1.2
- Added support for Windows 8 Developer Preview
- Added support for Windows 8 Consumer Preview
- Added support for Windows 8 Release Preview
- Added support for Windows 8.1 Preview
- Added support for Windows 8.1
- More details you will see in the source code
- Installer updated to v2.1

2013.12.09

- C++ port of RDP Wrapper was made by Fusix
- x64 architecture is supported now
- Added new command line installer v2.0
- Added local RDP checker
- Source code (C++ port, installer 2.0, local RDP checker) is also included

2013.10.25

- Version 1.1 source code is available

2013.10.22

- Version 1.1
- Stable release
- Improved wrapper (now it can wrap internal unexported termsrv.dll SL Policy function)
- Added support for Windows 8 Single Language (tested on Acer Tablet PC with Intel Atom Z2760)

2013.10.19

- Version 1.0
- First [beta] version
- Basic SL Policy wrapper

Supported Terminal Services versions:

- 6.0.X.X (Windows Vista / Server 2008)
- 6.0.6000.16386 (Windows Vista)
- 6.0.6001.18000 (Windows Vista SP1)
- 6.0.6002.18005 (Windows Vista SP2)
- 6.0.6002.19214 (Windows Vista SP2 with KB3003743 GDR)
- 6.0.6002.23521 (Windows Vista SP2 with KB3003743 LDR)
- 6.1.X.X (Windows 7 / Server 2008 R2)
- 6.1.7600.16385 (Windows 7)
- 6.1.7600.20890 (Windows 7 with KB2479710)
- 6.1.7600.21316 (Windows 7 with KB2750090)
- 6.1.7601.17514 (Windows 7 SP1)
- 6.1.7601.21650 (Windows 7 SP1 with KB2479710)
- 6.1.7601.21866 (Windows 7 SP1 with KB2647409)
- 6.1.7601.22104 (Windows 7 SP1 with KB2750090)
- 6.1.7601.18540 (Windows 7 SP1 with KB2984972 GDR)
- 6.1.7601.22750 (Windows 7 SP1 with KB2984972 LDR)
- 6.1.7601.18637 (Windows 7 SP1 with KB3003743 GDR)
- 6.1.7601.22843 (Windows 7 SP1 with KB3003743 LDR)
- 6.1.7601.23403 (Windows 7 SP1 with KB3125574)
- 6.1.7601.24234 (Windows 7 SP1 with KB4462923)
- 6.2.8102.0 (Windows 8 Developer Preview)
- 6.2.8250.0 (Windows 8 Consumer Preview)
- 6.2.8400.0 (Windows 8 Release Preview)
- 6.2.9200.16384 (Windows 8 / Server 2012)
- 6.2.9200.17048 (Windows 8 with KB2973501 GDR)
- 6.2.9200.21166 (Windows 8 with KB2973501 LDR)
- 6.3.9431.0 (Windows 8.1 Preview)

- 6.3.9600.16384 (Windows 8.1 / Server 2012 R2)
- 6.3.9600.17095 (Windows 8.1 with KB2959626)
- 6.3.9600.17415 (Windows 8.1 with KB3000850)
- 6.3.9600.18692 (Windows 8.1 with KB4022720)
- 6.3.9600.18708 (Windows 8.1 with KB4025335)
- 6.3.9600.18928 (Windows 8.1 with KB4088876)
- 6.3.9600.19093 (Windows 8.1 with KB4343891)
- 6.4.9841.0 (Windows 10 Technical Preview)
- 6.4.9860.0 (Windows 10 Technical Preview Update 1)
- 6.4.9879.0 (Windows 10 Technical Preview Update 2)
- 10.0.9926.0 (Windows 10 Pro Technical Preview)
- 10.0.10041.0 (Windows 10 Pro Technical Preview Update 1)
- 10.0.10240.16384 (Windows 10 RTM)
- 10.0.10586.0 (Windows 10 TH2 Release 151029-1700)
- 10.0.10586.589 (Windows 10 TH2 Release 160906-1759 with KB3185614)
- 10.0.11082.1000 (Windows 10 RS1 Release 151210-2021)
- 10.0.11102.1000 (Windows 10 RS1 Release 160113-1800)
- 10.0.14251.1000 (Windows 10 RS1 Release 160124-1059)
- 10.0.14271.1000 (Windows 10 RS1 Release 160218-2310)
- 10.0.14279.1000 (Windows 10 RS1 Release 160229-1700)
- 10.0.14295.1000 (Windows 10 RS1 Release 160318-1628)
- 10.0.14300.1000 (Windows Server 2016 Technical Preview 5)
- 10.0.14316.1000 (Windows 10 RS1 Release 160402-2227)
- 10.0.14328.1000 (Windows 10 RS1 Release 160418-1609)
- 10.0.14332.1001 (Windows 10 RS1 Release 160422-1940)
- 10.0.14342.1000 (Windows 10 RS1 Release 160506-1708)
- 10.0.14352.1002 (Windows 10 RS1 Release 160522-1930)
- 10.0.14366.0 (Windows 10 RS1 Release 160610-1700)
- 10.0.14367.0 (Windows 10 RS1 Release 160613-1700)
- 10.0.14372.0 (Windows 10 RS1 Release 160620-2342)
- 10.0.14379.0 (Windows 10 RS1 Release 160627-1607)
- 10.0.14383.0 (Windows 10 RS1 Release 160701-1839)
- 10.0.14385.0 (Windows 10 RS1 Release 160706-1700)
- 10.0.14388.0 (Windows 10 RS1 Release 160709-1635)
- 10.0.14393.0 (Windows 10 RS1 Release 160715-1616)
- 10.0.14393.1198 (Windows 10 RS1 Release Sec 170427-1353 with KB4019472)
- 10.0.14393.1737 (Windows 10 RS1 Release Inmarket 170914-1249 with KB4041691)
- 10.0.14393.2457 (Windows 10 RS1 Release Inmarket 180822-1743 with KB4343884)
- 10.0.14901.1000 (Windows 10 RS Pre-Release 160805-1700)
- 10.0.14905.1000 (Windows 10 RS Pre-Release 160811-1739)
- 10.0.14915.1000 (Windows 10 RS Pre-Release 160826-1902)
- 10.0.14926.1000 (Windows 10 RS Pre-Release 160910-1529)

- 10.0.14931.1000 (Windows 10 RS Pre-Release 160916-1700)
- 10.0.14936.1000 (Windows 10 RS Pre-Release 160923-1700)
- 10.0.14942.1000 (Windows 10 RS Pre-Release 161003-1929)
- 10.0.14946.1000 (Windows 10 RS Pre-Release 161007-1700)
- 10.0.14951.1000 (Windows 10 RS Pre-Release 161014-1700)
- 10.0.14955.1000 (Windows 10 RS Pre-Release 161020-1700)
- 10.0.14959.1000 (Windows 10 RS Pre-Release 161026-1700)
- 10.0.14965.1001 (Windows 10 RS Pre-Release 161104-1700)
- 10.0.14971.1000 (Windows 10 RS Pre-Release 161111-1700)
- 10.0.14986.1000 (Windows 10 Build 160101.0800)
- 10.0.14997.1001 (Windows 10 Build 160101.0800)
- 10.0.15002.1001 (Windows 10 Build 160101.0800)
- 10.0.15007.1000 (Windows 10 Build 160101.0800)
- 10.0.15014.1000 (Windows 10 Build 160101.0800)
- 10.0.15019.1000 (Windows 10 RS Pre-Release 170121-1513)
- 10.0.15025.1000 (Windows 10 RS Pre-Release 170127-1750)
- 10.0.15031.0 (Windows 10 RS2 Release 170204-1546)
- 10.0.15042.0 (Windows 10 RS2 Release 170219-2329)
- 10.0.15046.0 (Windows 10 Build 160101.0800)
- 10.0.15048.0 (Windows 10 Build 160101.0800)
- 10.0.15055.0 (Windows 10 Build 160101.0800)
- 10.0.15058.0 (Windows 10 Build 160101.0800)
- 10.0.15061.0 (Windows 10 Build 160101.0800)
- 10.0.15063.0 (Windows 10 Build 160101.0800)
- 10.0.15063.296 (Windows 10 Build 160101.0800)
- 10.0.15063.994 (Windows 10 Build 160101.0800)
- 10.0.15063.1155 (Windows 10 Build 160101.0800)
- 10.0.16179.1000 (Windows 10 Build 160101.0800)
- 10.0.16184.1001 (Windows 10 Build 160101.0800)
- 10.0.16199.1000 (Windows 10 Build 160101.0800)
- 10.0.16215.1000 (Windows 10 Build 160101.0800)
- 10.0.16232.1000 (Windows 10 Build 160101.0800)
- 10.0.16237.1001 (Windows 10 Build 160101.0800)
- 10.0.16241.1001 (Windows 10 Build 160101.0800)
- 10.0.16251.0 (Windows 10 Build 160101.0800)
- 10.0.16251.1000 (Windows 10 Build 160101.0800)
- 10.0.16257.1 (Windows 10 Build 160101.0800)
- 10.0.16257.1000 (Windows 10 Build 160101.0800)
- 10.0.16273.1000 (Windows 10 Build 160101.0800)
- 10.0.16275.1000 (Windows 10 Build 160101.0800)
- 10.0.16278.1000 (Windows 10 Build 160101.0800)
- 10.0.16281.1000 (Windows 10 Build 160101.0800)

- 10.0.16288.1 (Windows 10 Build 160101.0800)
- 10.0.16291.0 (Windows 10 Build 160101.0800)
- 10.0.16294.1 (Windows 10 Build 160101.0800)
- 10.0.16296.0 (Windows 10 Build 160101.0800)
- 10.0.16299.0 (Windows 10 Build 160101.0800)
- 10.0.16299.15 (Windows 10 Build 160101.0800)
- 10.0.16353.1000 (Windows 10 Build 160101.0800)
- 10.0.16362.1000 (Windows 10 Build 160101.0800)
- 10.0.17004.1000 (Windows 10 Build 160101.0800)
- 10.0.17017.1000 (Windows 10 Build 160101.0800)
- 10.0.17025.1000 (Windows 10 Build 160101.0800)
- 10.0.17035.1000 (Windows 10 Build 160101.0800)
- 10.0.17046.1000 (Windows 10 Build 160101.0800)
- 10.0.17063.1000 (Windows 10 Build 160101.0800)
- 10.0.17115.1 (Windows 10 Build 160101.0800)
- 10.0.17128.1 (Windows 10 Build 160101.0800)
- 10.0.17133.1 (Windows 10 Build 160101.0800)
- 10.0.17134.1 (Windows 10 Build 160101.0800)
- 10.0.17723.1000 (Windows 10 Build 160101.0800)
- 10.0.17763.1 (Windows 10 Build 160101.0800)

Confirmed working on:

- Windows Vista Starter (x86 - Service Pack 1 and higher)
- Windows Vista Home Basic
- Windows Vista Home Premium
- Windows Vista Business
- Windows Vista Enterprise
- Windows Vista Ultimate
- Windows Server 2008
- Windows 7 Starter
- Windows 7 Home Basic
- Windows 7 Home Premium
- Windows 7 Professional
- Windows 7 Enterprise
- Windows 7 Ultimate
- Windows Server 2008 R2
- Windows 8 Developer Preview
- Windows 8 Consumer Preview
- Windows 8 Release Preview
- Windows 8
- Windows 8 Single Language
- Windows 8 Pro

- Windows 8 Enterprise
- Windows Server 2012
- Windows 8.1 Preview
- Windows 8.1
- Windows 8.1 Connected (with Bing)
- Windows 8.1 Single Language
- Windows 8.1 Connected Single Language (with Bing)
- Windows 8.1 Pro
- Windows 8.1 Enterprise
- Windows Server 2012 R2
- Windows 10 Technical Preview
- Windows 10 Pro Technical Preview
- Windows 10 Home
- Windows 10 Home Single Language
- Windows 10 Pro
- Windows 10 Enterprise
- Windows Server 2016 Technical Preview

Installation instructions:

- Download latest release binaries and unpack files
- Right-click on `install.bat` and select Run as Administrator
- See command output for details

To update INI file:

- Right-click on `update.bat` and select Run as Administrator
- See command output for details

To uninstall:

- Go to the directory where you extracted the files
- Right-click on `uninstall.bat` and select Run as Administrator
- See command output for details

Source: <https://github.com/stascorp/rdpwrap>