

RemoteApp framework program manual

1. Function description

The RemoteApp framework is a development framework based on Microsoft RDP and developed using Delphi language. This framework is divided into server and client programs. The server runs on the remote computer (supports multiple users connecting at the same time without interfering with each other). After the client connects, it can start the application program of the remote computer, and then the application program interface appears on the client. It feels like the program is running locally on the computer. Some application scenarios are as follows:

- (1) Banks, engineering drawing design and other units should prevent employees from copying materials and taking them out. Because the program runs on the server, saving the editing results is also saved remotely.
- (2) For genuine software leasing, customers can use the products you develop but cannot reverse them because the products are stored on your server.
- (3) Some expensive genuine software, such as cash register systems, are equipped with a dongle for each point. When the system is running, it will regularly detect whether the dongle exists and is correct. If the dongle is pulled out, the system will be terminated. This framework supports multiple different users working on the same computer, and the system detects the dongle correctly.
- (4) Save office costs. The company can purchase a high-performance computer as a server, and employees can use cheap low-configuration computers to connect and work.
- (5) Other uses.

2. System requirements

(1) Because the server program needs to support multiple users logging in at the same time, it is recommended to use the Windows Server version of the operating system. The systems supported by the server are as follows:

- <1> Windows Server 2008 or higher version server.
- <2> Windows Vista: Professional Edition, Ultimate Edition.
- <3> Windows 7: Enterprise Edition, Ultimate Edition.
- <4> Windows 8/8.1: Professional Edition, Enterprise Edition.
- <5> Windows 10/11: Professional Edition, Enterprise Edition, Education Edition.

(2) The client program supports Windows XP SP3 or higher systems.

3. Instructions for use

(1) Server

Run "ServerSetup.exe" and click to install. After the installation is complete, create one or more new users as needed and add them to the list of users allowed for remote access:

Win7: Control Panel--->System and Security--->System--->Remote Settings.

Win10: Settings--->Remote Desktop--->User Accounts.

You can also set the user account type to the administrator group, so there is no need to manually add it to the allowed list. Windows stipulates that accounts in the administrator group are allowed remote access.

To uninstall, please select "RemoteApp Server" in the Add or Remove Programs list in the control panel, and then click Uninstall.

(2) Client

Double-click "RemoteAppClient.exe" to run it. After filling in the server's login settings, click the "Connect" button. After the connection is successful, a "Program Launcher" window will appear. Click the connection above to run the remote program. If you accidentally close this window, you can click the "Program Launcher" button in the client panel to open it at any time.

(3) About the remote printing function

Theoretically, if the remote desktop selects a shared printer when connecting, it can directly use the local printer in the remote printer list. However, the success rate of this function is very low and the conditions are very demanding. For example, the remote computer must also be connected first. Install the local printer driver and so on, so we are now using the built-in virtual printer. When you need to print, just select "DelphiPrinter" in the printer list. After the remote document is printed, a printer list box will pop up locally. Select a physical printer to print to the local.

The code of this framework is sold, and all functions are developed using Delphi. Knowledge points including but not limited to:

1. Development of virtual printers, methods of generating PDF, and methods of printing PDF directly without installing third-party software.
2. Handling of remote pop-up UAC windows (if not handled, all current remote

windows will disappear and will not be restored unless reconnected).

3. Remote desktop techniques to break through multi-user connections. Method to dynamically create different versions of Activex according to different systems; RDP directly integrated into the client does not require a dynamic channel of files and does not require registration of Dll files.

4. How to use the local Chinese input method remotely in RDP.

5. Many unknown skills about RDP development.

6. Enumeration and explanation of shortcuts in the program launcher.