

Description: Information regarding how ICONICS licensing is affected when using Microsoft Remote Desktop Services (formerly known as Remote Desktop Services).

OS Requirement: Windows XP / Windows Vista / Windows 7 / Windows 8 / Windows Server 2003 / Windows Server 2008 / Windows Server 2008 R2 / Windows Server 2012

General Requirement: An in-depth knowledge of ICONICS licensing products as well as Microsoft Remote Desktop Services.

Introduction to Remote Desktop Services

Windows Remote Desktop Services (formerly known as Remote Desktop Services) allows you to deliver Windows-based applications, or the Windows desktop itself, to virtually any computing device – even those that cannot run Windows. When a user runs an application on a Remote Desktop Session Host (RD Session Host) server (formerly known as Terminal Server), the application executes only on the server, transmitting only keyboard, mouse, and display information over the network. For information about using Remote Desktop Services with GENESIS32 applications, see the applications note titled *GENESIS32 - Windows 2000 Server Terminal Services Quick Start* or *GENESIS32 - Windows 2003 Server Terminal Services Quick Start*.

Note: For better understanding the way that ICONICS license Remote Desktop Services clients you may want to first understand how Microsoft licenses its Remote Desktop Connection (RDC) clients. See Microsoft website or contact Microsoft in order to get the most accurate information.

ICONICS Licensing

ICONICS Licensing checks the license for products and number of various OPC tags requested simultaneously in Runtime. The ICONICS Licensing is using an internal technical mechanism to license the product and allows a specific number of simultaneously requested OPC items in Runtime.

After ICONICS issues a license, it contains all requested products that are listed in the order and it will allow you to use a specified number of OPC tags simultaneously in Runtime.

For details please refer to the Licensing documentation, and related Application notes. If you need more information regarding license on your project, please feel free to call ICONICS Technical Support.

ICONICS License for RDC Clients

In an environment running Remote Desktop Services, each client is licensed as if it were a standalone machine. This is

because each client can run its own instance of an ICONICS module. The only difference is that it is not installed locally.

As an example of ICONICS licensing using RD Session Host Server and RDC Client, we can assume there is one server and two clients connected to this server using Remote Desktop Services. Another assumption that we can make without any loss of generality is the hypothetical project needs to use a TrendWorX32 Logging server and each of the clients will use a GraphWorX32 display with an inserted TrendWorX32 Viewer ActiveX control.

For such a project, the license server in the Terminal Server machine needs to contain license for:

- a) TrendWorX32 Logger – Runs only in the server and logs historical data
- b) 2x GraphWorX32 – One GraphWorX32 is running in each of the two simultaneously connected Terminal Clients
- c) 2x TrendWorX32 Viewer ActiveX Control - One TrendWorX32 Viewer is running inside GraphWorX32 in each of the two simultaneously connected Terminal Clients
- d) Required number of OPC tags – Each Client and the Server will mutually independently be granted runtime operations with up to the specified number of OPC tags. The tags can be different for each of the client and the server. As such, the number of tags in use in one client will not affect the number of tags the other client can use

Note that if you plan to use ICONICS Browser licenses your RD Session Host server should be actually a Browser Station connected to another ICONICS Server so as your RDC clients are considered to be Browser stations as well. If you make your ICONICS Server your RD Session Host server all the RDC clients will require the same ICONICS license.

For more details about using ICONICS license in a server and client machines please refer to the application note “*Licensing – Point Count Calculation*”.

Conclusion

In the license server, there must be an appropriate Windows and ICONICS license in order to license the terminal service clients properly. The license needs to cover each client connecting, plus one for the server itself.

All in all, using Remote Desktop Services can free up a lot of storage space on client machines, though customers will still have to purchase enough licenses for as many instances of each product that they are using. In the properly customized setup, using Remote Desktop Services can be beneficial, but careful planning is required to set it up.