GENESIS32 – Terminal Server Product Licensing

APPLICATIONS NOTE

October 2013

Description: Information regarding how ICONICS licensing is affected when using Microsoft Terminal Services.
OS Requirement: Windows 2000 Server, Server 2003, Server 2008
General Requirement: An in-depth knowledge of ICONICS licensing products as well as Microsoft Terminal Services.

Introduction to Terminal Services

Windows Terminal 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 Terminal Server, the application executes only on the server, transmitting only keyboard, mouse, and display information over the network. For information about using Terminal 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*.

Microsoft Terminal Services Licensing

In order to understand the way that ICONICS license Terminal Services clients, one must understand how Microsoft licenses this product. Terminal Services can be used on all Windows 2000, Windows Server 2003 and Windows Server 2008 operating systems. Windows 2003 Terminal Servers have to get licenses from a server running Windows Server 2003; it can also pass licenses to a server running Windows 2000, but not vice-versa. Similarly, it holds for Windows Server 2008.

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 for 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, related Application notes and Licensing.pdf document located on the installation disk. If you need to more information regarding license on your project, please feel free to call ICONICS Technical Support.

ICONICS License for Terminal Services Clients

In an environment running Terminal 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 Terminal Server and Terminal Client, we can assume there is one server and two clients connected to this server using Terminal 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

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 Terminal 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 Terminal Services can be beneficial, but careful planning is required to set it up.