MICROSOFT REMOTE DESKTOP SERVICES DEPLOYMENT

In addition to a traditional client-server deployment, WinSPC® is optimized for deployment using Microsoft® Remote Desktop Services®.

A Remote Desktop Services deployment allows IT departments to deploy WinSPC across multiple facilities by installing it only once on a Remote Desktop Server. Using remote desktop software, any licensed user can launch an instance of WinSPC so long as they have appropriate permissions, credentials and client access to the Remote Desktop Server.

Centralization makes upgrading, troubleshooting, and administering WinSPC much easier. Remote Desktop Services has the additional benefit of natively integrating with Windows Active Directory security to provide single-sign-on access control over applications or data.

Benefits

- Reduce IT support and system administration time
- Centralize system and application data
- Deploy faster and more cost effectively with remote users
- Minimize time and resources needed for upgrades, maintenance and end-user support
- Standardize, measure and improve client performance
- Lower hardware, licensing and energy costs
- Support non-Windows client types using Remote Desktop Apps
- Reduce implementation time

Configurations

WinSPC can be deployed over a corporate LAN, WAN, VPN or Internet connection. This provides a cost-effective method for implementing WinSPC as an enterprise standard across geographically dispersed facilities. It is especially suitable for organizations that are consolidating or centralizing their information systems within a dedicated facility, such as a high-availability data center.
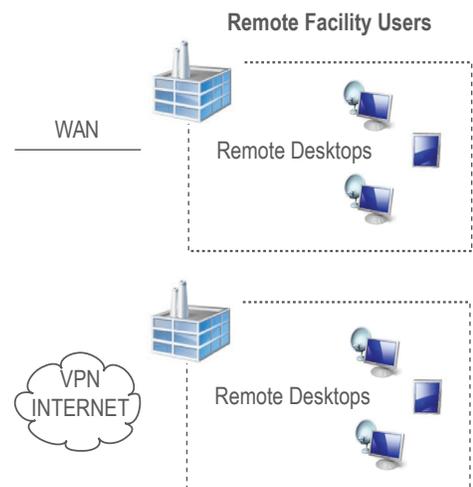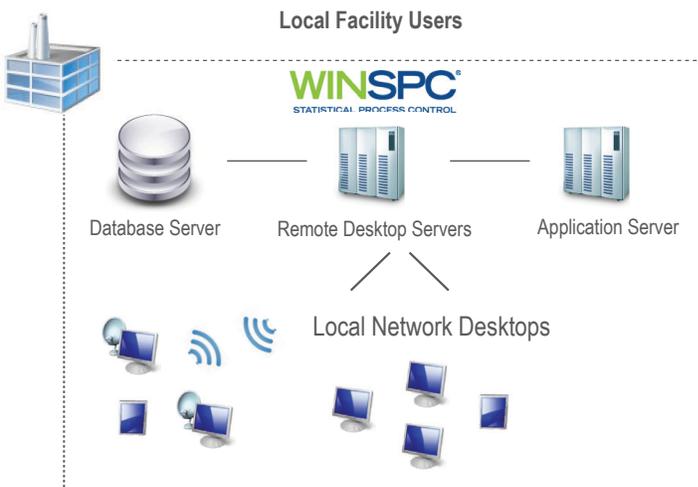
Definitions

THIN CLIENT
A thin-client is a client that depends on the server for remote application execution in addition to interaction with other server resources, such as the WinSPC database server. A thin client primarily captures data entry information for the remote server while displaying a user interface to an operator. Common thin-client platforms include dedicated remote desktop appliances, web browsers or remote terminal software.

REMOTE DESKTOP SERVICES
Microsoft Remote Desktop Services for Windows is the method by which WinSPC is deployed and operated to achieve a thin-client architecture. Remote Desktop Services is software available for Microsoft Windows servers that allows centrally managed applications to be shared with a remote computer over any type of Windows supported network.

Remote Desktop Services is commonly deployed across a Local Area Network (LAN), Wide Area Network (WAN) or a Virtual Private Network (VPN) leveraging the Internet.

Local Facility Users

WINSPC®
STATISTICAL PROCESS CONTROL

Database Server   Remote Desktop Servers   Application Server

Local Network Desktops

Remote Facility Users

WAN

Remote Desktops

VPN INTERNET

Remote Desktops

Minimum Requirements

Memory & Hard Disk Requirements

While all users share the same installation, within a Remote Desktop Services deployment every user session is allocated a portion of memory. For this reason, a computer configured as the Remote Desktop Server requires a significant amount of memory. Even though users are accessing this terminal server over the network, performance is not as dependent on the quality and speed of your network as in a client-server installation. The connection speed to the database server is the most important network performance constraint.

Remote Desktop Services Server requirements

When deploying a Microsoft Remote Desktop Services solution, the primary limiting factor is RAM. Approximately 500MB of RAM is consumed by each remote desktop session of WinSPC. If a Microsoft Remote Desktop Services server has 16GB of available RAM it could potentially host 32 simultaneous user sessions. To host more simultaneous sessions, increase the amount of RAM.

Supported Versions

Remote Desktop Server is supported on WinSPC Version 8 and higher. DataNet certifies WinSPC for a Remote Desktop Services deployment using the hardware and software requirements described in the documents accompanying each release. For complete specifications for the current release, please see the *WinSPC Installation and Configuration Guide*, which is available from your DataNet Sales or Support representative.

Minimum Requirements

REMOTE DESKTOP SERVICES SERVER

Server class x64 processor with 2 cores and 4GB of RAM
Windows 2012 R2 Server or above
Microsoft Remote Desktop Services
Add 500MB RAM per Remote Desktop session hosted
Add 1 CPU core per 5-10 Remote Desktop session hosted
10GB of available local hard disk space

REMOTE DESKTOP CLIENT

Any PC or tablet capable of running Windows 8.1 Professional and above or any device with a Remote Desktop Client
A reliable low latency 10Mbit network connection

DATABASE SERVER

Server class x64 processor with 2 cores and 4GB of RAM
Windows 2012 R2 Server or above
MS SQL Server 2012 Express or above
10GB of available local hard disk space

APPLICATION SERVER

Server class x64 processor with 2 cores and 4GB of RAM
Windows 2012 R2 Server or above
10GB of available local hard disk space

Minimums are minimums. When reasonably possible, a recommended hardware specifications would double these values. See your current database and installation guides for the latest recommendations and choices.