DataNet Quality Systems Knowledgebase

What are the hardware requirements for WinSPC?

- WinSPC Database Server
  WinSPC requires a back-end database to store configuration information and production data collected by WinSPC.
  Please refer to any hardware recommendations and minimums provided by the maker of the database server you will employ in your WinSPC deployment. For best performance for the overall WinSPC system, you should follow the database vendor's recommendations for the hardware configuration.
  NOTE: For a method to estimate database storage needs based on data specific to your company, see the How to Estimate Database Storage Requirements knowledgebase article.
  WinSPC Application Server
  The WinSPC Application Server is an optional component to the WinSPC system and normally resides on a separate machine. This server is responsible for performing some server-side operations in the WinSPC system. Click here to learn more about the WinSPC Application Server.
  Minimum hardware requirements for a WinSPC Application Server:
  Quad core 1GHz+ class CPU per WinSPC application server instance. 2GB available RAM per WinSPC application server instance. 100Mbps network connectivity to the database server. Disk space: At least 10% of the size of the WinSPC database with which the application server will be used.

- Recommended hardware requirements for a WinSPC Application Server: One contemporary 8-16 core multi-core server class processor (per WinSPC application server instance) to maximize threading, caching speed, and connections to the database. 4GB available RAM per WinSPC application server instance. 1 Gbps network connectivity to the database server. Disk space: At least 10% of the size of the WinSPC database with which the application server will be used. A Solid State Drive or other high performance drive is recommended. No other extreme CPU or IO roles on the machine (such as the Database Server, Exchange, etc.)

- WinSPC Client
  The WinSPC client is used to configure the WinSPC system, collect data, and report/analyze data that has been collected. A WinSPC client can either be a standard computer or, if a Terminal Service (thin-client) deployment is used, any device that supports the Remote Desktop Protocol (RDP).
  Minimum Hardware Requirements for a Standard WinSPC Client (Desktop PC):

- Single core 1 GHz or faster 32-bit or 64-bit processor 2GB RAM (if 32-bit) or 4GB RAM (if 64-bit) for a typical Windows 7 station (standard Windows install, with no heavy RAM consuming applications running) 200MB available local hard disk space (beyond operating system recommended space) Local network connectivity to the WinSPC database (and, if applicable, the WinSPC application server) of at least 10 Mbps 1280 x 1024 display resolution to see all WinSPC windows in their correct sizes. VGA monitor and video adapter Keyboard Mouse or other pointing device CD-ROM or DVD-ROM drive (if installing WinSPC from the WinSPC CD as opposed to the web download)

- Recommended Hardware Requirements for a Standard WinSPC Client (Desktop PC):

Any contemporary multi-core processor 4 GB or more RAM 200MB available local hard disk space (beyond operating system recommended space) Local network connectivity to the WinSPC database (and, if applicable, the WinSPC application server) of at least 1 Gbps 1280 x 1024 display resolution to see all WinSPC windows in their correct sizes. VGA monitor and video adapter Keyboard Mouse or other pointing device CD-ROM or DVD-ROM drive (if installing WinSPC from the WinSPC CD as opposed to the web download)

- Windows Terminal Server (RDP connections): Minimum hardware requirements:
  Minimum hardware will depend greatly on the number of simultaneous client connections that will be running WinSPC. You should follow Microsoft's recommendations for hardware based upon your expected usage of the Terminal Server. Assume approximately 50 - 100 MB of RAM is consumed by each WinSPC session hosted by the server (this RAM is only for the WinSPC application and does not include the amount that may be consumed by each standard RDP connection). CPU server class processor with approximately 1 core every 8 to 10 intended clients. It is possible that, even with suffient RAM, server performance could degrade unacceptably once a certain volume of simultansous sessions is reached. It isn't practical to state what this volume is because it depends in part on how active those sessions are, but a resonable allowance would be 8 to 10 sessions for each CPU core. 200MB available local hard disk space.

- Windows Terminal Server (RDP connections): Recommended hardware requirements:
  Recommended hardware will depend greatly on the number of simultaneous client connections that will be running WinSPC. You should follow Microsoft's recommendations for hardware based upon your expected usage of the Terminal Server. Assume approximately 50 - 100 MB of RAM is consumed by each WinSPC session hosted by the server (this RAM is only for the WinSPC application and does not include the amount that may be consumed by each standard RDP connection). CPU server class processor with approximately 1 core every 2 to 3 intended clients. It is possible that, even with suffient RAM, server performance could degrade unacceptably once a certain volume of simultansous sessions is reached. It isn't practical to state what this volume is because it depends in part on how active those sessions are, but a resonable allowance would be 2 to 3 sessions for each CPU core. 200MB available local hard disk space.

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