

Visualization Software for Terminal Services



- ⌚ Lower Total Cost of Ownership
- ⌚ Increased Productivity
- ⌚ Flexible Software Deployment



Visualize



Analyze



Optimize

PRODUCT HIGHLIGHTS

- Multiple Platforms and Devices
- Ease of Use
- Wireless and Internet Access to InTouch HMI
- Remote Application Control
- Network Load Balancing
- Increased Reliability

GAIN A COMPETITIVE ADVANTAGE WITH A UNIFIED APPLICATION ENVIRONMENT

InTouch 9.5 software is built on the groundbreaking ArchestrA architecture. ArchestrA technology enables users to have a unified environment that integrates information from multiple disparate sources and provides a common infrastructure and set of services. A significant competitive advantage is gained with the ability to design, build, deploy, maintain and standardize applications with the lowest total cost of ownership. Benefits include:

- Easy updates to existing applications
- Dramatically decreased costs to develop new automation projects
- Substantially reduced implementation time

This architectural approach facilitates the easy extension and expansion of existing systems to stay competitive and increase manufacturing agility. In addition, users can quickly create applications that conform to

company standards yet are versatile enough to be strategically deployed throughout an organization via the best-suited devices for increasing productivity and efficiency.

InTouch 9.5 for Terminal Services software extends the capabilities of InTouch software by enabling users to deploy the InTouch HMI in terminal server systems. The software provides familiar development and runtime environments, as well as easy access to HMI applications from several different software platforms and devices. This increased visibility into the plant's real-time processes can lead to more intelligent plant decisions.

InTouch 9.5 for Terminal Services software offers manufacturers tools to lower their total cost of ownership, increase productivity throughout the lifecycle of their plant's software applications and deploy the InTouch HMI in a variety of ways.



Powering intelligent plant decisions in real time.

LOWER TOTAL COST OF OWNERSHIP & INCREASED PRODUCTIVITY

InTouch 9.5 for Terminal Services software gives manufacturers tools to lower their total cost of ownership and increase productivity, by maximizing their existing hardware and system investments.

Centralized Software Administration & Management

Centralized software administration and management empowers companies to lower IT costs by reducing the number of servers hosting software, while increasing reliability and scalability. With InTouch 9.5 for Terminal Services, users can globally upgrade software and modify applications on the terminal server. When users access applications affected by changes to the terminal server, they can choose to accept, reject or automatically receive the changes. This centralized approach accelerates plant-wide software administration and management, which can significantly increase productivity and minimize downtime.

Hardware Reuse & System Migration

InTouch for Terminal Services software can save manufacturers significant time and money because it lets them reuse existing hardware and migrate existing systems to the terminal server application at convenient times, which decreases production downtime.

Thin-Client Terminals

Thin-client terminals provide a low-cost alternative to system expansion, while increasing reliability. There is simply less that can go wrong with a thin-client terminal and replacement is fast and easy.

Companies can lower the total cost of ownership of their plant-floor systems through:

- Centralized software administration and management
- Thin-client terminals
- Reusing old hardware systems

By centralizing software administration and management, reusing hardware, migrating systems and giving manufacturers the option to use thin-client terminals, InTouch 9.5 for Terminal Services software can help lower a company's total cost of ownership and increase plant productivity, while leveraging the latest technologies and products.

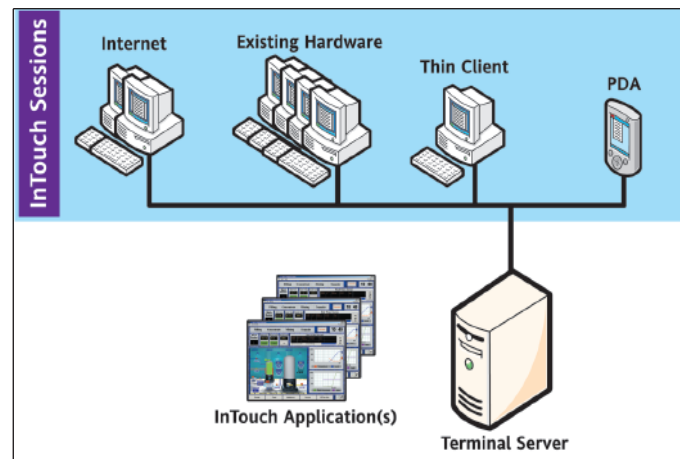
FLEXIBLE SOFTWARE DEPLOYMENT

Server-Centric Deployment

InTouch 9.5 for Terminal Services software can be deployed in a fully server-centric mode, in which applications run entirely on the terminal server. If

clients have the terminal services protocol installed on their systems, they can access a thin-client version of the InTouch application, known as a session. The InTouch session provides full InTouch capability to the client. The session is managed transparently by the terminal server operating system and is independent of any other client session. Therefore, each operator can log into the terminal server and view his/her own session of the InTouch application.

Network bandwidth traffic is minimal because only screen, mouse and keyboard information is transmitted between the client and the server. So plant operators, as well as casual users—including maintenance staff, supervisors, engineers and/or vendors, who might need immediate access to critical manufacturing or process information—can simultaneously run sessions.



Flexible Deployment

Operating Systems

Hardware systems with the terminal server protocol installed can access InTouch applications running on the terminal server to leverage the InTouch HMI's latest features. In addition, the Microsoft Windows 2000 Server and 2003 Server operating systems (OS) can be extended to the older hardware platforms without upgrading the operating system.

InTouch software applications in a terminal services system are supported on clients running multiple operating systems and versions, including:

- Microsoft Windows for Workgroups 3.11 OS
- Microsoft Windows CE, 95/98, 2000, XP and 2003 OS
- Microsoft Windows NT 3.21/4.0 OS
- Microsoft Windows Embedded NT (NTe) and Embedded XP (XPe) OS
- UNIX operating system
- Linux operating system

Thin-Client Terminals

Thin-client terminals can also be used to lower the total cost of ownership while providing additional views into the application. Hand-held PDAs can

display InTouch for Terminal Services applications, with the added benefits of mobility and constant application supervision.

InTouch for Terminal Services software also gives users the flexibility to view InTouch applications through:

- Hardware systems
- Thin-client terminals
- PDAs
- Internet browsers

InTouch for Terminal Services software extends the usefulness of the InTouch HMI software by providing access from a range of devices and platforms without modifications to the existing application. Therefore, companies can immediately distribute the benefits of the latest software applications to their entire manufacturing system, which can improve productivity while lowering the total cost of ownership.

Expansion Options

The thin-client approach to InTouch deployment allows users to gradually transition to terminal server usage. Users can mix-and-match client/server and terminal server configurations, in order to run combinations of Windows workstations and Linux clients.

Users can have one application on the server and execute it multiple times, in multiple sessions. Or, they can have multiple different applications running and executing simultaneously on the server.

ADDITIONAL FEATURES & BENEFITS

Increased System Availability

Deploying InTouch software as a thin client increases system availability. Thin-client environments typically encounter fewer problems than traditional systems. Even if a component fails, users can usually get applications back up and running in less than a minute, simply by plugging in a new terminal device.

System Performance

Wonderware has performed massive scalability and concurrency testing on InTouch for Terminal Services software to verify that it works properly in a thin-client environment. When users deploy the InTouch HMI in a terminal server system, they should enjoy the same high performance and ease of use they've come to expect from Wonderware's InTouch software.

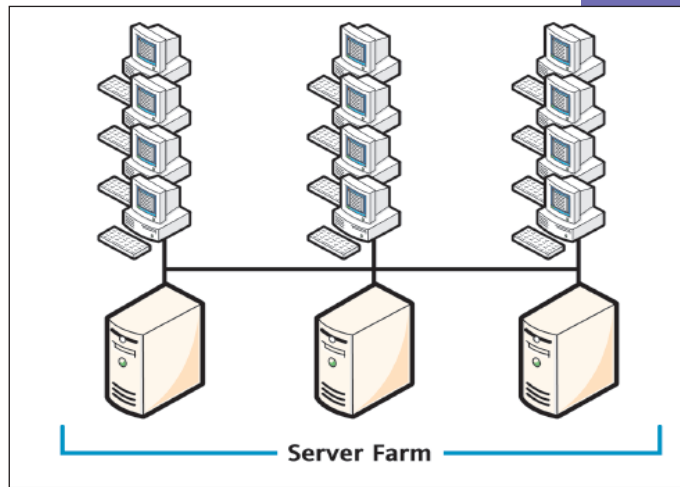
Windows 2003 Terminal Services Support

InTouch 9.5 software supports the new features in the Microsoft Windows 2003 Terminal Services OS, enabling users to leverage the latest technologies throughout the thin-client system. Some of the enhancements include full-color support for graphics

(so your InTouch graphics will look vibrant on thin-client devices), the ability to designate network resources per thin client and the ability to remotely administer Console 0, which is the terminal server. Please refer to the Microsoft website for more information about Windows 2003 Terminal Services enhancements.

Network Load Balancing

Network Load Balancing enhances the availability and scalability of applications. It redirects the connection from a failing or offline server to a backup. After maintenance is completed, the offline computer can transparently rejoin the cluster.



Remote Access

InTouch 9.5 for Terminal Services also enables remote control and application shadowing. A designated user can dial in via a remote access server (RAS) and request simultaneous control of the session.

Wireless Access



Wireless Access

InTouch 9.5 for Terminal Services also supports wireless clients right out of the box, for easy mobile access to InTouch applications. Virtually any wireless remote device that supports a terminal server protocol can be used to gain access to a terminal server over any TCP/IP connection.

Internet Access

With Microsoft's Terminal Services Advanced Client (TSAC), users can easily access InTouch applications on a terminal server over a browser. TSAC provides almost the same functionality as the full Terminal Services client, but it's designed for the Internet. Clients need only have an Internet Explorer 5 (or greater) browser installed.

IndustrialSQL Server and ActiveFactory Support

The thin-client version of InTouch 9.5 software supports Wonderware's ActiveFactory client tools, allowing users to view and analyze information from Wonderware's IndustrialSQL Server real-time plant historian. ActiveFactory client tools can also run on the terminal server.

Communications

Inter-nodal communications are enhanced with modifications to Wonderware's SuiteLink protocol to support session communications. InTouch software will automatically detect if it's communicating in inter-session (rather than inter-node) mode and can give the user information about the terminal server client and console.

InTouch for Terminal Services software can also leverage Network Application Development (NAD) capabilities. NAD allows users to dedicate memory space on the server to maintain local history data and retained tags, so that data can be accessed properly to run applications.

I/O Server Support

InTouch for Terminal Services software supports all standard InTouch I/O Servers that are certified as compliant with the Microsoft Windows 2000 and 2003 operating systems. I/O Servers can be deployed from a terminal server or a separate node.

Security

InTouch for Terminal Services software can be fully locked down so that an operator can only see the InTouch HMI. Users' access levels are based on their login. InTouch for Terminal Services software leverages the Windows NT security system, so that privileges can be assigned to specific groups and users.

Enhanced Development Tools

InTouch developers also benefit because InTouch 9.5 for Terminal Services software supports clipboard cutting and pasting between sessions. Authorized developers can call up one version of Wonderware's WindowMaker graphical editing software in a session, cut-and-paste the graphic, and all the associated links go with it.

SPECIFICATIONS

HARDWARE

Minimum (25 clients)

- 1.2 GHz Pentium III or greater
- 512 MB of RAM, plus 5MB of additional RAM per 5K tags
- 2 GB Free Hard Disk Space

Recommended

- 3.0 GHz Pentium 4 or greater
- 2048 MB of RAM
- 2 GB Free Hard Disk Space

OPERATING SYSTEMS*

- Microsoft Windows 2000 Server, and Advanced Server
- Microsoft Windows 2003 Server, Standard and Enterprise Editions

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