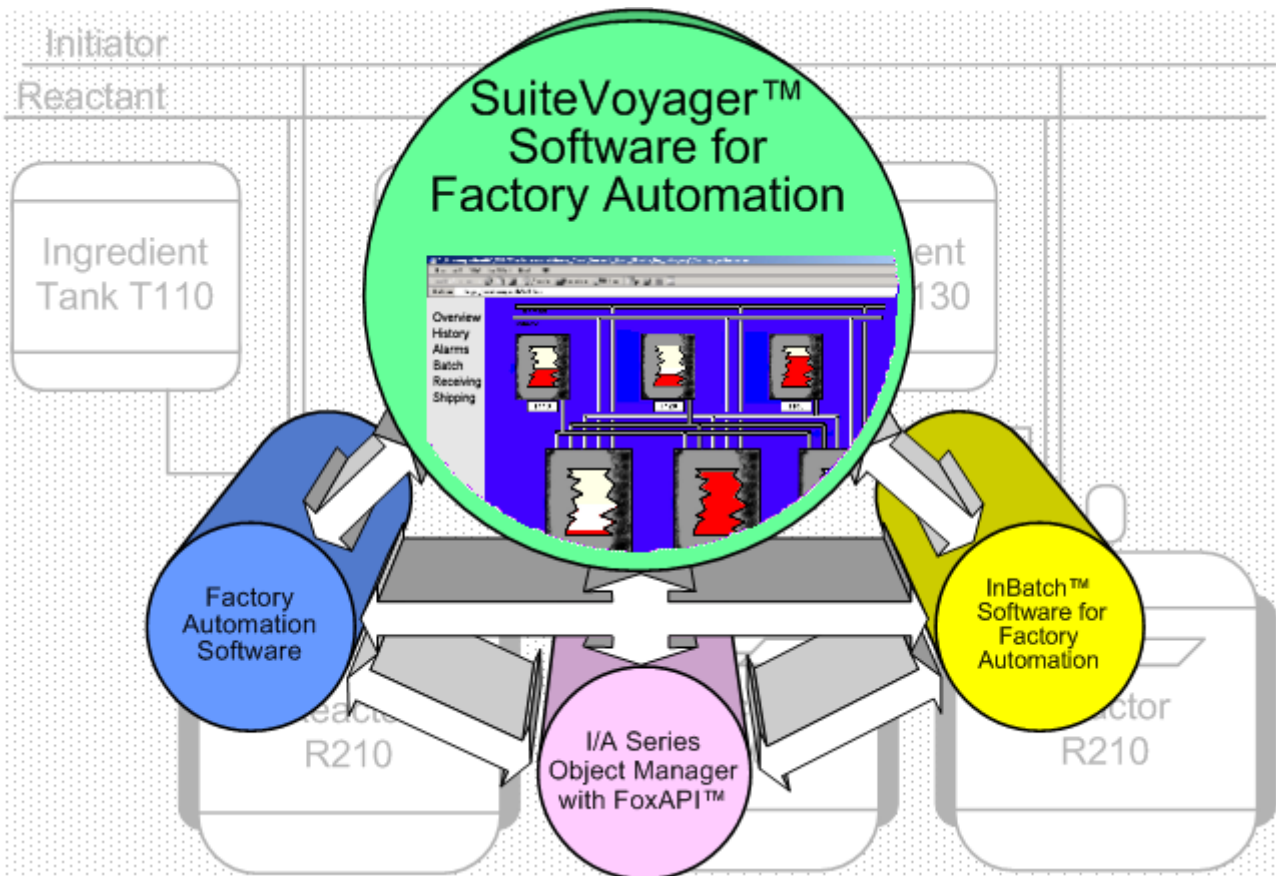# I/A Series® Software
SuiteVoyager™ Software for Factory Automation
(Windows NT® Operating System)

OVERVIEW

The SuiteVoyager™ Software for Factory Automation includes:

- SuiteVoyager™ Web Portal and
- Wonderware® Web Clients.

Factory Automation Internet services include Wonderware software applications that provide versatile operator interface, diverse analysis and display capabilities for I/A Series systems. The SuiteVoyager Web portal extends operation and production management capability to Intranet and Internet thin clients, thus providing highly integrated monitoring, command, alarm and analysis functions to geographically distributed personnel.

SuiteVoyager Web Portal functions as a manufacturing information portal for the I/A Series

system by delivering displays, logs, trends and reports. SuiteVoyager Web Portal also provides secure, authenticated write commands from the InTouch™ thin client to I/A Series control stations.

By using the Web's accessible, low-cost architecture, SuiteVoyager Web Portal expands the infrastructure of I/A Series systems for access by every user, including production line workers, laboratory technicians, business oriented executives, and other personnel along the supply chain.

SuiteVoyager Web Portal is the doorway into the world of I/A Series control and monitoring information. InTouch graphics for Web browsers and the WonderLink™ I/O Server connect to data from diverse sources. This includes factory I/O, controllers, historical databases, alarm logs, batch logs and diverse information repositories such as laboratory

information systems, asset management and warehouse management. Authorized users have all the appropriate information available at their fingertips in real time.

Wonderware Web clients are browser enabled versions of standard applications. Web clients share the same development sources as the standard clients. These support delivery of the same information via SuiteVoyager Web Portal without requiring independent development of the content, reducing development and maintenance costs.

WEB PORTAL

The SuiteVoyager Web Portal is connected to the I/A Series system via Ethernet. Host and application workstations serve as the data connectors between the Ethernet information network and any I/A Series control network. SuiteVoyager Web Portal runs on a Windows® server utilizing Internet Web technology.

SuiteVoyager Web Portal is scalable, secure, high performance, and extensible. It provides access to real-time production data, alarm logs, historical logs, batch logs, reports, plant and regulatory documents, and other information.

SuiteVoyager Web Portal delivers interactive InTouch™ windows, IndustrialSQL™ Server client windows, ActiveFactory™ client windows and reports, and InBatch™ client windows and reports.

SuiteVoyager Web Portal manages user connections, authenticates user names and passwords, and automatically balances the data load, handling hundreds of Web client connections while minimizing the load on the data servers and databases.

SuiteVoyager™ Web Portal Features

The SuiteVoyager platform is composed of seven functions running on Microsoft® Windows NT® 4.0 Server Service Pack 6a or Windows 2000® Server with Microsoft Internet Information Services™ 4.0 or higher with Microsoft Transaction Server (MTS). The functions include the framework, data handlers, license information manager, multi-language support, deployment manager, data repository, and security administrator.

SuiteVoyager Web Portal delivers content to thin clients that run on any computer supporting Microsoft Internet Explorer™ 5.0 or higher browser.

SuiteVoyager Web Portal utilizes database services of Microsoft SQL Server™ 7.0 which can be located on the portal server or another local area network connected computer.

SuiteVoyager Web Portal is maintained via a browser connection. All management and development tools are centralized.

SuiteVoyager Web Portal delivers interactive HTML Web pages. Graphical content is automatically converted from InTouch graphics. The graphics in HTML Web pages resize automatically with the browser window. Animation of InTouch graphic and text elements is supported. Additionally, real-time trends and ActiveX® clients for IndustrialSQL server, ActiveFactory ActiveX® clients, InBatch™ ActiveX® clients, and many third-party applications can be embedded.

SuiteVoyager Web Portal home page is configurable and customizable. Knowledge of how to build Web sites is not required. Installation creates the Web site automatically along with default security and default Web pages for management functions. The SuiteVoyager administrator can configure users, data providers, licenses, system, and portal parameters. This configuration feature is visible only to password authenticated SuiteVoyager administrators using a convenient web browser interface.

Smart search capability is built in for locating tags, windowsets and alarms.

SuiteVoyager Web Portal detects the language of the browser client and automatically displays the home page in that language.

SuiteVoyager Web Portal is tightly integrated with Microsoft security including support for Secure Sockets Layer (SSL) transmission of Web pages, digital certificates, password authentication and Windows® challenge/response. It is designed to be firewall friendly and compatible with proxy servers.

Read/write capability can be managed by the portal administrator, giving specific users privileges to read or write data or configure portal features. Or the administrator can restrict certain users by specifying no access.

Licensing is server based, associated with the SuiteVoyager Web Portal. The license information management system allows administrators to monitor activity. There is a license historian for analysis of portal usage.

The SuiteVoyager Web Portal administrator can configure access to multiple alarm providers (InTouch alarm databases), multiple IndustrialSQL server historians, multiple InBatch servers, and multiple I/O data sources. The thin clients can readily gain access to all or any combination of data providers.

SuiteVoyager Web Portal software is inherently scalable and extensible. Its ability to add new data providers and new windowsets on the fly is important for accommodating the changing requirements of diverse end users. The capability to scale Web server capacity by adding RAM and/or higher speed Internet connections without reconfiguring the portal means high availability. Integration with HTML and other Web content delivery extends the capability to deliver any kind of information to any end-user while delivering real-time information in the production context.

SuiteVoyager™ Web Portal Capacity

SuiteVoyager Web portal requires 256 MB of RAM per 50 concurrent users and is designed for up to 300 concurrent users per server. The throughput for user connections via the Internet depends upon Internet service connection.

For more information on the capabilities of SuiteVoyager Web Portal, refer to Wonderware Data Sheet PN 15-0070.

WEB CLIENTS

Each of the following Wonderware Web clients supports delivery of information via the SuiteVoyager Web Portal:

- InTouch™ software
- IndustrialSQL™ server
- ActiveFactory™ software, and
- InBatch™ software

InTouch™ Software as a Web Client

InTouch software runs inside a Microsoft Internet Explorer Web browser as a fat client (the entire InTouch executable runs in the browser). In this mode, the data connectivity to the I/A Series system and to other data providers via I/O servers is accomplished using the data provider services of the SuiteVoyager Web portal.

Using the InTouch development tool, WindowMaker™, the animated windows can be published to any SuiteVoyager Web Portal for delivery as part of a windowset in thin clients.

The data connectivity that is configured within the InTouch application is maintained. The SuiteVoyager portal automatically establishes the data connection with the WonderLink™ I/O Server or other I/O Server once the thin client connects to the SuiteVoyager Web Portal and loads the windowset (InTouch graphical window).InTouch alarm summary and history displays are also supported in the SuiteVoyager thin client.

For more information on the capabilities of InTouch software, refer to Wonderware Data Sheet PN 5-0005.

ActiveX Web Clients for IndustrialSQL™ Server

Ad hoc search of historical data within the IndustrialSQL server database is possible using the SuiteVoyager Web Portal. The IndustrialSQL ActiveX clients embedded in InTouch windowsets provide pre-configured trends of real-time and historical data.

For more information on the capabilities of IndustrialSQL server, refer to Wonderware Data Sheet PN 15-0014.

ActiveX Web Clients for ActiveFactory™ Software

Via the SuiteVoyager Web portal, the ActiveFactory ActiveX query and control objects provide highly configurable displays of IndustrialSQL server historical data, as well as alarm and batch information. These displays can include tabular formats and multiple trend graphs.

For more information on the capabilities of ActiveFactory software, refer to Wonderware Data Sheet PN 15-0069.

ActiveX Web Clients for InBatch™ Software

Via the SuiteVoyager Web portal, the InBatch ActiveX scheduling, SFC and other control objects provide real-time interfaces into the InBatch Server. These displays facilitate operator and supervisory execution of batch management functions. InBatch reports are facilitated using the ActiveX Web Clients for IndustrialSQL Server and ActiveFactory both of which access InBatch logs stored on Microsoft SQL Server.

For more information on the capabilities of InBatch software, refer to Wonderware Data Sheet PN 15-0007.

Custom Web Content

Customization of the SuiteVoyager Web Portal utilizing varieties of content is possible. The portal is based on standard Microsoft Internet Information Server technology including FrontPage™ Server Extensions, Microsoft Transaction Server (MTS), and Active Server Pages (ASP). Any development tool that generates HTML and ASP page content can be used.

Using Web page design tools permits integration of information from many kinds of production, asset management, resource management, warehouse management, manufacturing execution, manufacturing resource planning and other supply chain systems.

LICENSES AND MEDIA KIT

Wonderware software licenses enable development and/or runtime features of individual Wonderware software components. Licenses are also available as bundles. The following licenses permit operation of the software application on one client or server computer. SuiteVoyage Web Client software is an exception whereby concurrent use server based licensing for clients is available. Licenses in general authorize non-expiring permission to operate the designated software component for the version or range of version numbers defined in the license.

SOFTWARE MEDIA KIT

For installation of the Wonderware Internet services and Web client software, one SuiteVoyager media kit is required.

LICENSES

Suite Voyager Basic Portal - Server License

This development and run-time license includes:

- Web portal framework
- License information manager
- Deployment manager
- Security administrator
- Graphic converter
- Alarm and history database handlers
- One IndustrialSQL server client access license
- One Microsoft SQL server CAL
- One SuiteVoyager server CAL.

SuiteVoyager Client Access License Concurrent User

The SuiteVoyager client access licenses (CALs) are server based concurrent licenses.

NOTE
Each Concurrent User license is installed and managed on one SuiteVoyager Web Portal and applies to one concurrent instance of a browser thin client.

InTouch Run-time Licenses

InTouch run-time licenses support deployment as Web clients. The Factory Automation Bundle development license supports development of InTouch applications and publishing windows to the SuiteVoyager Web Portal.

For more information on licenses for InTouch software, refer to Applications for Factory Automation (PSS 21S-1B7 B4).

Wonderware Databases Client Access Licenses

Client Access Licenses (CALs) are available for single workstations.

For any thin client that needs to display information from the InTouch alarm database, IndustrialSQL server database, or InBatch™ historical database, a Client Access License (CAL) is required.

Where the thin client computer already has an installed InTouch client license or IndustrialSQL server client license, the additional Client Access License (CAL) is not required.

For any thin client that utilizes the ActiveX query or control object for ActiveFactory clients, an ActiveFactory client license is required.

For more information on licenses for IndustrialSQL Server and for ActiveFactory software, refer to PSS 21S-1B7 B4.