I/A Series®

I/A Series® WorkPlace Tech Tool 4.0

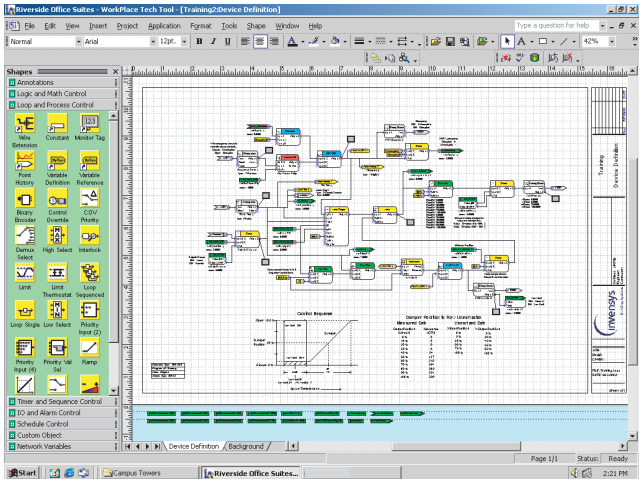
The I/A Series WorkPlace Tech Tool 4.0 (WP Tech) is a cohesive, flexible system-engineering tool compatible with Microsoft® Windows® 2000 Professional and Microsoft Windows XP Professional. It uses a Microsoft Visio® 2002 32-bit drawing interface for graphic representation of control applications and control objects. WP Tech is designed for use with all I/A Series MicroNet controllers. Using WP Tech, a user customizes an application to fit specific job requirements, compiles the application, and downloads the application to a standalone or networked controller. WP Tech allows a user to program MicroNet I/A Series controllers using its extensive library of specialized, individual control objects. WP Tech features easily understood drag-and-drop graphic representations of common control algorithms and functions, and easy-to-use "wizards" that automate controller configurations. WP Tech works with I/A Series devices on a LONWORKS® FTT-10 Free Topology communications network, even through routers.

WP Tech 4.0 allows the user to upload existing MicroNet I/A Series controller application databases, recreate or re-draw, and modify applications in a graphical format.

WP Tech provides file management using a project-based method of accessing applications, modifying application parameters and saving applications for future use. WP Tech's file management system allows a user to save, edit, and reuse a controller's application within the same project or in other projects.

WP Tech uses unique Invensys shapes for control objects and tags. The control objects are easily copied (dragged and dropped) from stencils as needed and have built-in "connection wires" that define the logic and flow of data in an application.

WP Tech also provides online diagnostic functions (monitor tags) that allow real-time monitoring of the outputs of each object. It also allows the user to temporarily override or write values to inputs during testing of the program.



Features—

- Allows upload of controller databases and recreation or modification of applications in a graphical format.
- Hardware wizard speeds controller and sensor configuration.
- Interface provides fully-prompted menus and selectable English or metric units in displays.
- Controller database management capabilities include editing and compiling programs off-line.
- Allows a PC or laptop computer to access all I/A Series MicroNet controllers on a LONWORKS communications network.
- Project-based method of organizing applications simplifies multiple database management tasks.
- Allows storage and re-use of applications and configurations, reducing the time needed to engineer and commission a job.
- Capable of importing 24 points of historical point trending for system diagnostics (MN 800).
- Custom objects allow users to create and store standard routines for future use.
- On-line or off-line documentation enables the printing of logic diagrams.

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Invensys Building Systems, Inc.
1354 Clifford Avenue
P. O. Box 2940
Loves Park, IL 61132-2940
www.invensysibs.com

Printed in U.S.A. 12-03

F-27319

System Requirements

Personal Computer Configuration

Note: These are minimum *recommended specifications*. WP Tech will run on a PC that does not meet the recommended specifications; however, for best performance, you should use a machine that meets or exceeds the recommended specifications to ensure efficient operation.

Type PC, capable of running Windows 2000 Professional or Windows XP Professional.

Microprocessor Pentium® microprocessor, 1.3 GHz.

RAM 512 MB.

Operating System Microsoft Windows 2000 Professional with Service Pack 4 or Microsoft Windows XP Professional with Service Pack 1a.

Additional Software Microsoft Visio 2002 with Service Release 1 (SR-1).

Connectivity Echelon LONTALK® adapter card, WPA-LON-x. See *I/A Series WorkPlace Communication Adapter Installation Instructions, F-26338.*

Disk Drives 2 GB hard drive free space for software installation.
CD-RW drive.

Video SVGA graphics card and monitor, 1024 X 768 resolution or higher (recommended).

Printer Any Windows 2000/Windows XP compatible printer. (Printer is optional.)

Specifications

WP Tech 4.0 Software

Controller Templates Templates are sets of reusable control logic and controller properties, provided to save time and help provide consistency among applications of similar types. Controller templates provide the drawing page (foreground and background), the Invensys stencils (Control objects and Object tags), the Hardware Wizard and Add-ons, as well as all the Visio functions. Each template is specific to a particular controller.

Custom Application Templates Custom templates can be created from any WP Tech 4.0 application. These templates can be used to start development of new applications. The new template-based application can be modified without changing the template itself.

Stencils As a Visio-based program, WP Tech contains a number of *stencils*, which are collections of related Visio master shapes. In addition to the standard WP Tech stencils, custom stencils of Custom objects can be created.

Communications

WP Tech can communicate to any I/A Series MicroNet controller on a LONWORKS network. A LONWORKS communications network uses an FTT-10 Free Topology configuration. The PC can be connected directly to the LONWORKS network, to the LON jack of a LONWORKS controller, or to the LON jack of an MN-Sx Wall Sensor.

WP Tech can also communicate to a remote I/A Series controller via IP (Internet Protocol) addressing. IP connectivity requires installation of I/A Series Niagara VLON Tunnel software on the WorkPlace Tech PC and installation of an appropriately configured I/A Series Universal Network Controller (UNC) at the remote location.

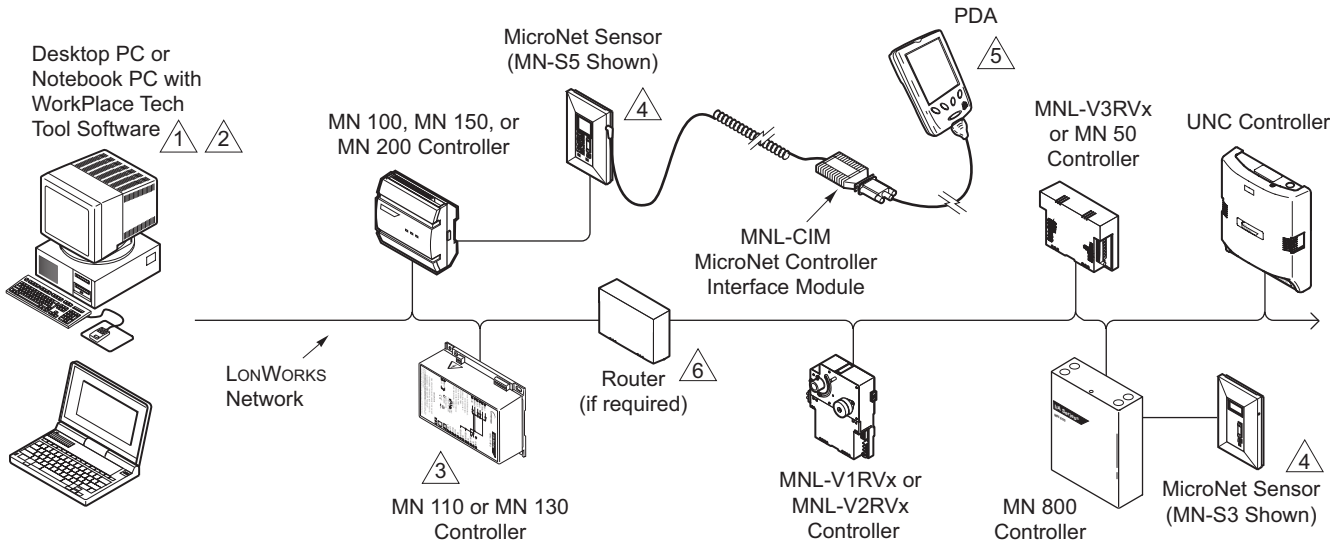
Supported Controllers

WP Tech supports I/A Series MicroNet standard controllers and the MN 800. Each standard controller has a specific LONMARK HVAC functional profile, determined by its model. A LONMARK profile describes the general application purpose and the network image of a device. A profile is made from a standardized set of data slots (input and output) available to other LON-installed nodes. Controller profiles are set at the factory.

The MN 800 differs from the MicroNet standard controllers in that its network image or profile is completely customizable through the selection and use of SNVT objects, which are not available in the other I/A Series MicroNet controllers.

Supported Sensors

All MicroNet sensor functions are fully programmable and defined by the application control logic, which is downloaded from WP Tech to the MicroNet controller. Twelve digital temperature sensor models are available, six of these include humidity sensing. Sensor models differ by features and eight have an integral LCD.



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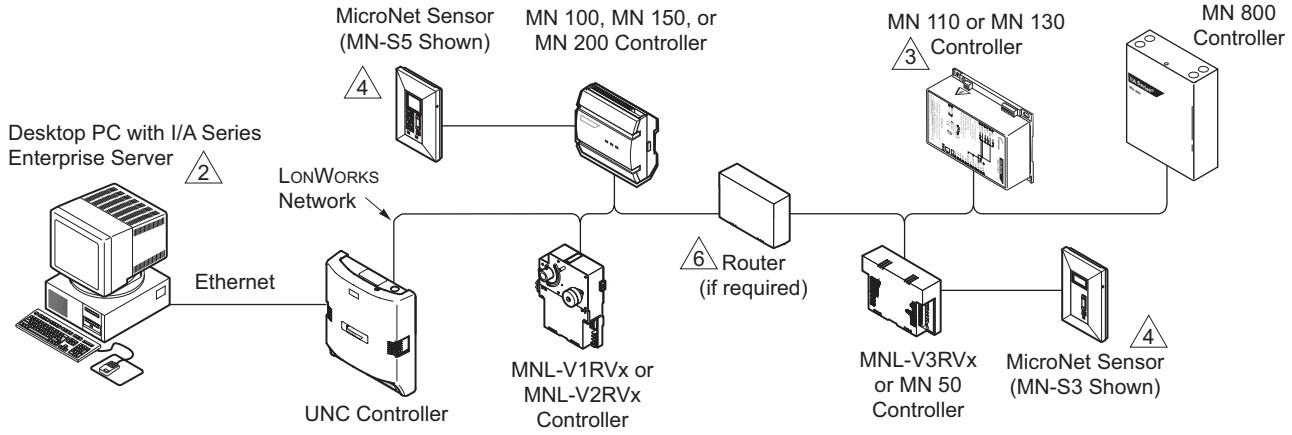
1. A PC can be connected to the LonWorks TP/FT-10 Network, either directly or through the LonWorks® network jack of a LonWorks controller or MN-Sxxx Wall Sensor. The PC must have an Echelon® LonTalk® adapter card.
2. Programming any of the I/A Series controllers, or the I/A Series MN 800 controller, requires WorkPlace Tech Tool.
3. This controller is not suitable for exposed mounting on a wall or panel, or in any other easily accessible place due to the possibility of personal contact with the high-voltage terminals. It must be mounted inside a suitable grounded metal enclosure.
4. MicroNet Sensors can be connected to any MN controller.
5. A PDA running the Pocket I/A interface software may be used to communicate with MicroNet I/A Series controllers.
6. When routers are used, WP Tech is able to communicate through them to any of the I/A Series devices on the network.



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