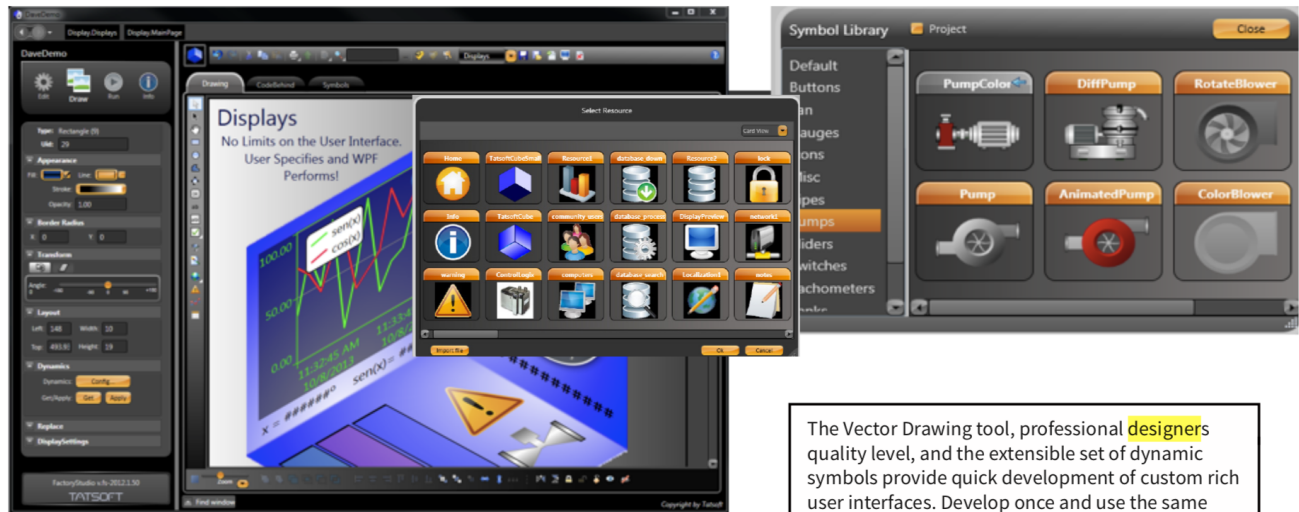


# Graphical Dynamic Tools



## Graphical Displays

### Advanced Graphical Technology

**FactoryStudio** is the first complete product where all the configuration and execution tools are pure **Windows Presentation Foundation (WPF)**, the latest graphical technology from Microsoft. WPF uses the full potential of the current graphics cards and computers, providing superior quality and performance.

### Dynamic 3D Models

Connect real-time tags to control properties in 3D models created with 3DMax or other systems that supports the **.3DS** extension.

### Smart Symbols

Smart Symbols are asset and template based reusable graphical components, with runtime dynamics or static binding and centralized management. The symbols keep a live link with the library, which means you only need to modify the symbol once and it will automatically apply to all displays.

### Code Behind and Expressions

Develop code behind using C#, VB.NET, or HTML5/Javascript, expressions on dynamic animations, or client-side event-driven scripts.

### Deployment Scenarios

**FactoryStudio** is based on a unified-package architecture, so the server is always the standard **FactoryStudio** software. However, all **FactoryStudio** modules such as Scripts, Device, Historian, Database, etc. may be placed on different computers, in a distributed system context. The server computers can run in different Operating Systems, which connects many client visualization stations and allows flexible deployment scenarios.

### From Standalone to World-Wide

The **FactoryStudio** products family is uniquely designed to provide the most reliable, flexible, and powerful application development platform. You can build an application to run on a small device with very limited amount of I/O, run on a production line or a commercial building, or you can provide information across the globe to those that need it, on any device, anywhere.

### Touch Panel Applications

Customizable on-screen keyboard, multi-touch support, momentary buttons, and other features deliver rich touch panel systems.

### Unique set of Dynamic Animations

Unique new dynamics, such as opacity, shine and skew, combined with move, scale, color change, rotate, and others, applied to any object, provide the most comprehensive set of animations. No more difficult laborious workarounds dealing with drawing tools created on top of legacy graphics systems.

### Images, Colors and Transparency

Images are added to the project database for centralized management. Low and hi resolution versions of the image are automatically created, optimizing the project. Transparency, alpha color, image brushes, and all designer tools are available.

### Advanced Controls

All Windows controls are included, as well as a web browser, child-displays, doc viewer, and many others. WPF controls, such as scheduler controls, Gantt, or live video cameras, can be added to extend functionality. Legacy Active-X controls can also be used for compatibility.



### High degree of scalability and performance

The same configuration tool can create applications for desktops, mobile, HTML5, and embedded devices.

## Data Aggregation from multiple locations

**FactoryStudio** is the perfect platform to collect data from multiple locations and access it at a centralized location. Hundreds to thousands of distributed **FactoryStudio** nodes provide data acquisition and publish the collected data to a cloud server or to a corporate office.

## Multiple User Security

Users can use Application Security, **Windows Authentication** (Active-Directory), or WS-Federation concurrently, which all map to the same application server.

## Dynamic Symbols

### Map Symbols to Assets

Create assets and templates based on reusable components with runtime binding, standard graphical visualization, and centralized management.

### Import Objects and XAML

Images and symbols can be imported from the most popular formats used today. XAML standard simplifies the automated import of displays from legacy HMI and SCADA system.

### Linking Tags to Symbols

**FactoryStudio** has many rapid application development tools. One example is the ability to define Categories in which Tags and Symbols can be tightly integrated. You can use Categories to expedite display development, which specifies that graphical symbols are automatically used in your displays simply by copying and pasting tags.

For example: Users can define a default Pump symbol and all its attributes. Then, specify that a tag has the same category as the pump. When the tag is copied/pasted into the display, the tag comes in as the default pump symbol for that category. The user does not need to go through the manual steps of placing individual symbols on the display and assigning the attributes.

### Extended Symbol Library

**FactoryStudio** has a native library of symbols created with properties assigned to them that help you create the most advanced graphical displays. **FactoryStudio** was the first software package of its type to also include the **SymbolFactory.NET** library of over 5,000 vector-based graphics... at no charge! This library is installed with every **FactoryStudio** development package and is unlimited in terms of how many symbols you can use and how many times you can use them.



Edit multiple symbols, rows, and properties all at once.



See "[Draw](#)" for more information.