



CSWorks

Scalable automation solutions for the web

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Overview

Welcome to the new age of industrial automation: web-based solutions. Control System Works (CSWorks) is a Microsoft .NET and Silverlight-based framework for developing web-based HMI, SCADA, EMI and M2M software solutions.

With CSWorks underpinning your industrial automation solution:

- **Operators** can supervise automation processes from many compatible platforms.
- **Plant managers** can monitor production operations from web browsers at remote locations, without compromising security.
- **Industrial system integrators** can create high-availability automation solutions that use data from a variety of sources (PLC, OPC, databases).
- **Application developers** can create contemporary, fully scalable, animated web graphics for process visualization, taking advantage of third-party components available on the market today.
- **Analysts** study alarm and historical data using their favourite sophisticated tools.
- **Casual users** can view HMI screens without having to install or maintain client software.

Key benefits

Better ROI

- ✓ Zero-administration client – reduced support/upgrade costs.
- ✓ Flexible pricing – buy only those components that you need.
- ✓ No training required for developers with .NET/Silverlight background.

Open system with unlimited customization capabilities

- ✓ Supports custom data sources and data processing components.
- ✓ Supports complex UI functionality, including custom and third-party UI elements.
- ✓ Minimal use of proprietary technologies.

Security

- ✓ Clients and server components communicate using HTTP with SSL security option.
- ✓ Server components communicate using Windows Communication Foundation (WCF) with domain-based or certificate security option.
- ✓ Client runs in protected environment (browser sandbox).

High-availability solutions

- ✓ Build scalable solutions with minimal effort ("just add servers").
- ✓ Redundancy increases overall solution reliability.

Powerful graphics

- ✓ Contemporary graphics engine. Supports numerous visual effects and animation capabilities.
- ✓ Scalable graphics for different screen sizes

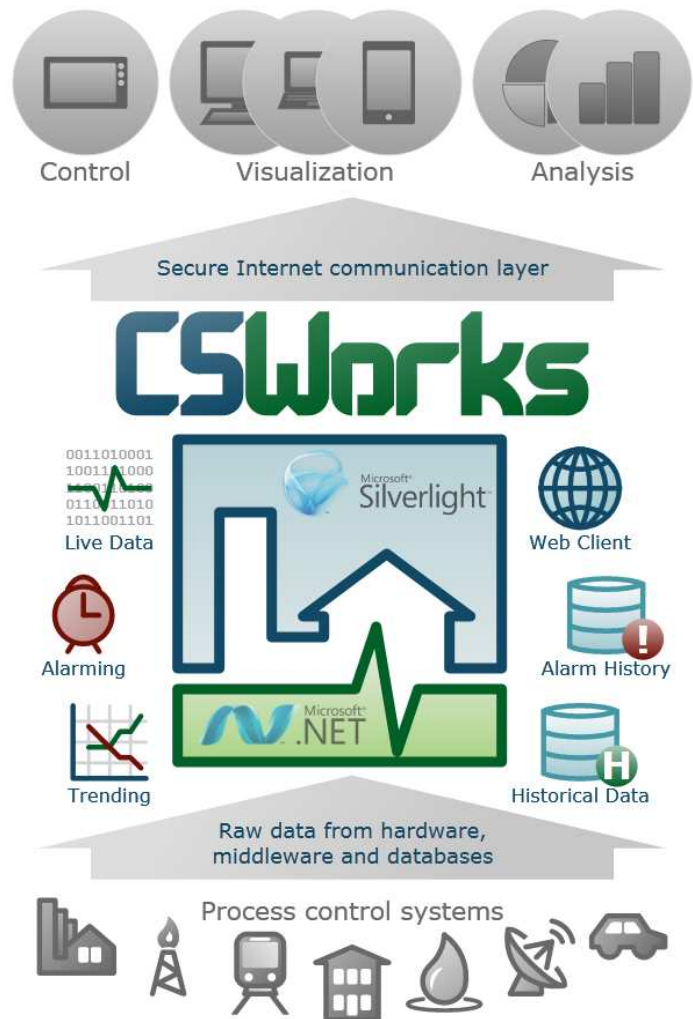
CSWorks leverages the power of Microsoft Silverlight, a platform and web browser-independent Rich Internet Application (RIA) software framework, which enables applications to run on various devices and desktop operating systems without any modifications.

On the back end, CSWorks offers a modular, service-oriented, open architecture based on Microsoft Windows Communication Foundation (WCF) technology, which means that application engineers can configure complex distributed solutions without writing a single line of code.

To address concerns about the responsiveness and performance of web-based solutions, CSWorks uses available network bandwidth for data transfers and only transports actual data changes between distributed components. Designed with security in mind, CSWorks operates on top of a number of standard secure communication protocols that guarantee data privacy and integrity.

Key features

- ✓ Server runs on Windows XP, Vista, W2K3, W2K8, and Windows 7, including 64-bit and localized versions.
- ✓ Powerful graphics designer: Visual Studio 2010 integration
- ✓ Live data acquisition: OPC, BACnet and SQL data sources.
- ✓ Historical data archiving: popular SQL database engines.
- ✓ Live data and alarming redundancy and partitioning.
- ✓ 2-way remote alarm notification via email and/or SMS.
- ✓ Alarm Summary Control: supports alarm sorting, filtering, and shelving.
- ✓ Trending: supports live and historical data.
- ✓ Natural support for third-party UI controls (see CSWorks demo applications).
- ✓ Sample client applications: draft your HMI screens right away.
- ✓ Sample Live Data and Alarm Agents: create your own server extensions.
- ✓ Live data access through web service from third-party applications (see MS Excel sample).
- ✓ Hassle-free installation, small footprint, transparent configuration.



We offer free CSWorks licenses for small deployments. Please contact us for details.