Studio 5000 Automation Engineering & Design Environment™

Enhance Productivity through Simplified System Development

Overview

The Studio 5000® environment combines elements of design into one standard framework that optimizes productivity and reduces time to commission.

This intuitive integrated design environment focuses on rapid design, re-use, collaboration and virtual design and is built on a foundation consisting of several core tenants.

With the Studio 5000 Applications you can:

- Build and maintain a system layout in a central place with **Architect™**
- Configure, program and maintain your Logix 5000™ family of controllers with **Logix Designer®**
- Create intuitive, modern screens for the PanelView™ 5000 graphic terminals with **View Designer™**
- Create and leverage re-usable libraries of content for rapid project development with **Application Code Manager**
- Simulate your control system in a safe, virtual environment while reducing project cost and risk with **Logix Emulate™**

Rockwell Software

Studio 5000®

| Architect | Logix Designer | View Designer | Application Code Manager | Logix Emulate |

SYSTEM ORGANIZATION · LIBRARY MANAGEMENT · MODULAR AUTOMATION · ACTIONABLE INFORMATION · SYSTEM SECURITY & IP MANAGEMENT · DEVICE MANAGEMENT · COLLABORATIVE ENGINEERING · VIRTUAL DESIGN & ENGINEERING

LISTEN. THINK. SOLVE.®

Allen-Bradley · Rockwell Software

Rockwell Automation

Studio 5000 Architect

Studio 5000 Architect is the central point within the Studio 5000 environment where users can view the overall automation system; configure devices such as controllers, Human Machine Interface (HMI) and Electronic Operator Interface (EOI); and manage the communications between the devices. The Studio 5000 Architect application also exchanges data with other Studio 5000 applications and third-party electrical design tools to simplify the development experience.

This helps streamline the time to build your Logix and View automation system and allows you to:

- Create a graphical representation of your system for easier system modifications
- Build Logix and View projects from an integrated environment
- Re-use Logix and View content as well as use content from the Rockwell Automation Library of Process Objects
- Exchange hardware configuration data , like Controller, I/O, and Communications modules, with third party tools

Manage the System Layout

Control

Visualization

Information

Networks

Studio 5000 Logix Designer

Studio 5000 Logix Designer is the one application to configure, program and maintain the entire Allen-Bradley® Logix 5000 family of controllers products and related devices. Its intuitive programming environment allows users to work collaboratively to design and maintain their systems.
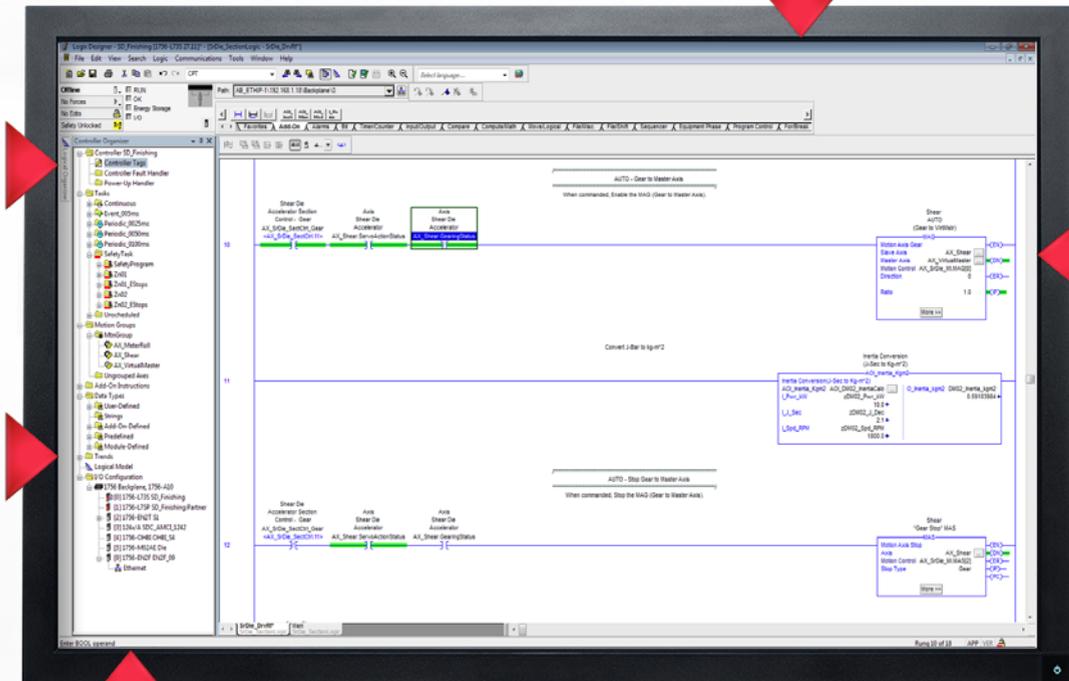
One programming software for all disciplines – safety motion, drives, process and discrete.

- Easily configure devices with graphical wizards and automatically create tags
- Simplified programming with multiple languages and modularity features
- View the system and find what you need easily with the Logical Organizer and Controller Organizer views – helping maintain uptime
- Create code simultaneously with others, and then compare and merge changes
- Protect the design and execution of your Logix content with license-based content protection capabilities – to help ensure that only authorized users are able to view, modify or execute protected code

Instruction Palette contains over 250 predefined instructions

Project Explorer offers multiple views to help define organization and execution

Feature-rich editors help efficiently write modular code

Integrated Motion and Integrated Safety in an intuitive design environment

Powerful and easy-to-use device configuration simplifies setup and integration

Configure, Program and Maintain Your Controllers

Studio 5000 View Designer

Studio 5000 View Designer is the design environment for the PanelView™ 5000 family of operator terminals. The integration of the PanelView 5500 with Studio 5000 View Designer helps build modern applications more easily and improve operator performance.

The View Designer application provides an intuitive, modern design environment and enhances integration between the control system and operator interface to improve programming efficiency and runtime performance.

- Searchable toolbox of graphic elements that have built-in animations to simplify configuration
- Preconfigured banner, alarm summary and diagnostic displays help reduce design time
- Shared Logix Tags help simplify engineering time by allowing your controller tags to be used in your terminal without having to create HMI tags
- Logix-based alarms are automatically available on the PanelView 5500 to eliminate additional alarm programming and help to reduce network traffic
- High-speed button control provides quick response and feedback for machine jogging applications
- Create custom, re-usable add-on graphics to more efficiently build your applications
- Multi-language support with a language switching feature enables users to switch between languages on the PanelView 5500 to support global user needs

Integrated data sharing between View Designer application and Logix system

Project Explorer to easily develop screens and menus

Searchable toolbox of graphic elements for screens

Custom, re-usable add-on graphics help increase productivity

Configure, Program and Maintain Your Operator Interfaces

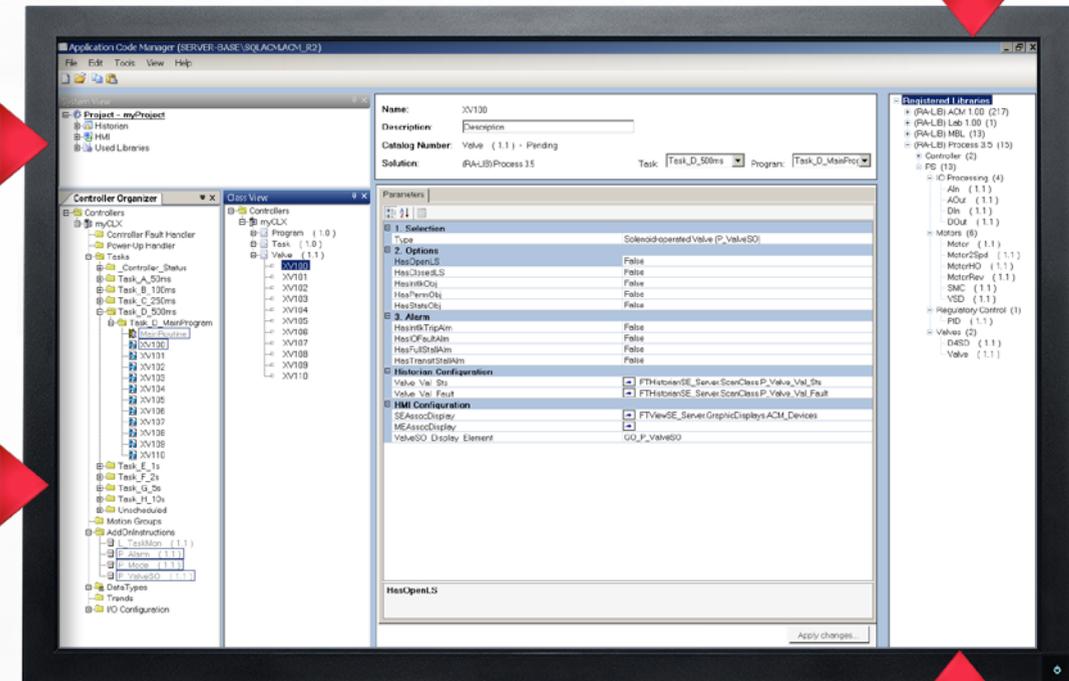## Studio 5000 Application Code Manager

Studio 5000 Application Code Manager helps speed system development by building libraries of re-usable code that can be managed and deployed across the entire enterprise. Creating projects with Application Code Manager helps improve design consistency, reduce engineering costs and achieve faster commissioning.

- Easily create and configure objects in bulk using re-usable libraries of code to increase application development, without any additional programming
- The auto content generation feature creates not only the controller code for the modular object, but also the associated visualization, historical and alarming data – helping to build projects more efficiently
- Easily instantiate complex re-usable library objects into a new or an existing project
- Use standardized, application-focused libraries of code, including PlantPAx® Process Object Libraries and our Machine Builder Libraries, to save time and more easily standardize your systems

Quickly and easily configure modular objects through simple parameter configuration

Easily import and export configuration data using Microsoft Excel

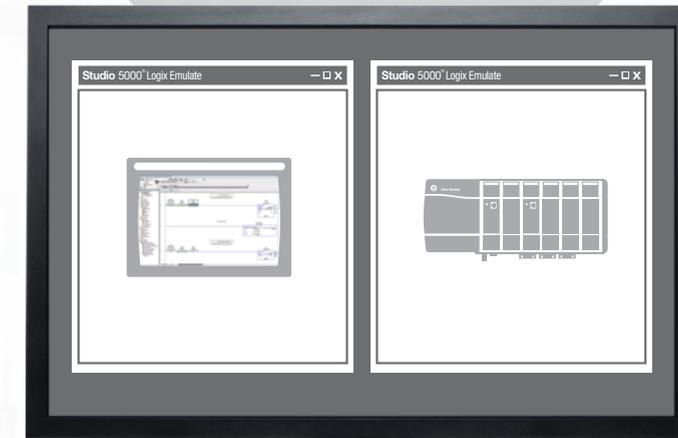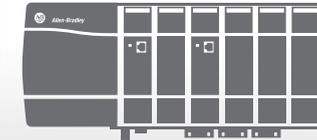*Project Explorer shows all of the configured objects in your automation project*

Manage your comprehensive library of reusable content across projects

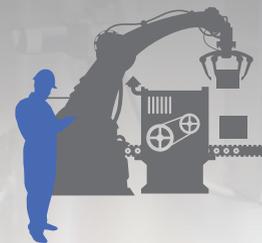## Accelerate Project Creation Using Re-usable Content

Studio 5000 Logix Emulate

Studio 5000 Logix Emulate increases design productivity, reduces risk and decreases overall project costs. It is the core of Studio 5000 virtual design; enabling Machine Prototyping, Throughput Analysis, Virtual Commissioning and Operator Training Systems (OTS). Logix Emulate provides the ability to validate, test and optimize application code independent of physical hardware. Interface capabilities provide connectivity to 3rd party simulation and OTS, enabling users to simulate their entire process and train teams in a safe, virtual environment.

- Simulate discrete Input/Output (I/O) and Logix5000 based controllers
- Simplify troubleshooting by utilizing advanced debugging to support code validation and virtual commissioning
- Easily adjust execution speeds to identify potential issues long before they are found in a production system
- Integrate into high fidelity process simulation systems for operator and situational based training
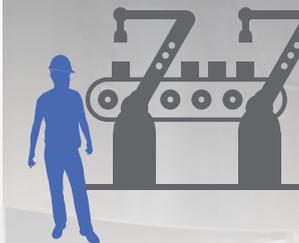
MACHINE PROTOTYPING

THROUGHPUT ANALYSIS

VIRTUAL COMMISSIONING

OPERATOR TRAINING SYSTEMS (OTS)

Simulate Your System in a Safe, Virtual Environment

Studio 5000 Software Package Options

Studio 5000 Edition	Toolkits	Professional	Full	Standard w/ Networx	Standard	Lite	Mini	Service
Architect	Included	Included	Included	Included	Included	Add-on Purchase	Add-on Purchase	Add-on Purchase
Logix Designer	Included	Included	Included	Included	Included	Included	Included	Included
View Designer	Included	Included	Included	Included	Included	Included	Included	Not Included
Logix Emulate*	Included	Included	Add-on Purchase	Add-on Purchase	Add-on Purchase	Not Included	Not Included	Add-on Purchase
Application Code Manager	By Subscription	By Subscription	By Subscription	By Subscription	By Subscription	By Subscription	By Subscription	By Subscription

✅ Included   🛒 By Subscription   ➕ Add-on Purchase   ❌ Not Included

Logix Emulate is included in the Professional Edition and Toolkits. Logix Emulate for Operator Training is a standalone license and must be purchased separately.

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