

Optimize Productivity with RSLogix™ 5000 Design and Configuration Software

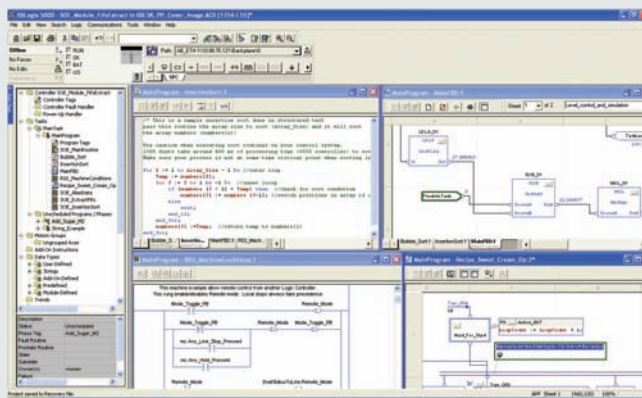


Allen-Bradley

Logix technology offers a unique approach — one control platform using a common control engine with a common development environment, RSLogix 5000, expressly designed to deliver world-class capabilities for any or all disciplines from process to safety to motion.

You achieve:

- greater information access to real-time information
- faster startups with reduced development and commissioning time
- reduced maintenance and training costs
- optimized productivity and the ability to react quickly to market and business changes



Streamline your engineering with outstanding ease-of-use

With RSLogix 5000, you need only one software package for discrete, process, batch, motion, safety and drive-based applications. RSLogix 5000 offers an easy-to-use, IEC61131-3 compliant interface, symbolic programming with structures and arrays and a comprehensive instruction set that serves many types of applications. It provides ladder logic, structured text, function block diagram and sequential function chart editors for program development as well as support for the S88 equipment phase state model for batch and machine control applications.

Advantages

RSLogix 5000 can help you to:

- reduce programming and ease startup and commissioning, pages 2-5
- ease diagnostics and troubleshooting, page 6
- increase overall plant productivity, page 8

Version 18 enhancements include:

- integrated motion on EtherNet/IP™, page 9
Program, configure and maintain your integrated motion solution with one software package.
- unicast I/O messaging, page 9
Communicate more efficiently with point-to-point I/O messaging.
- data access control capabilities, page 10
Simplify HMI development and prevent inadvertent data changes.
- High Integrity Add-On Instructions (AOIs), page 10
Protect your intellectual property and fulfill regulatory requirements.
- DF1 radio modem protocol broadcast support, page 11
Simplify application code and reduce power consumption.
- support for new controllers and modules, page 11
This version of RSLogix 5000 supports several new controllers and modules.

Software Requirements

Software requirements are described on page 11.

Available Packages

Available RSLogix 5000 packages are described on page 12.

LISTEN.
THINK.
SOLVE.

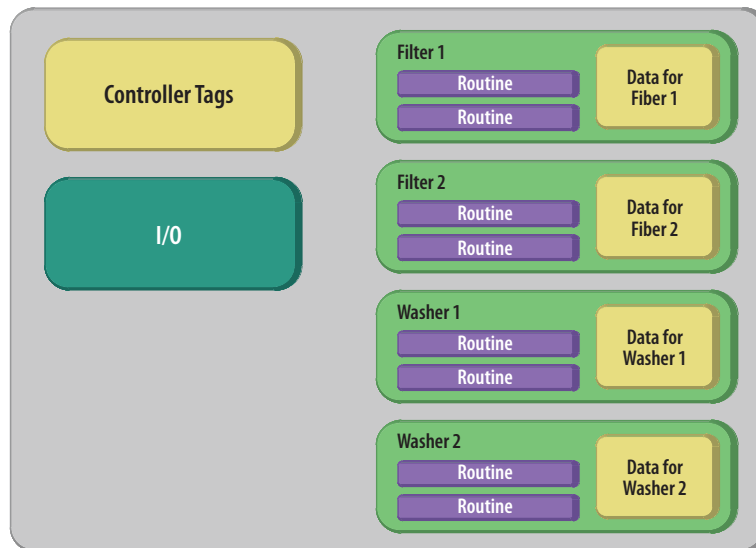


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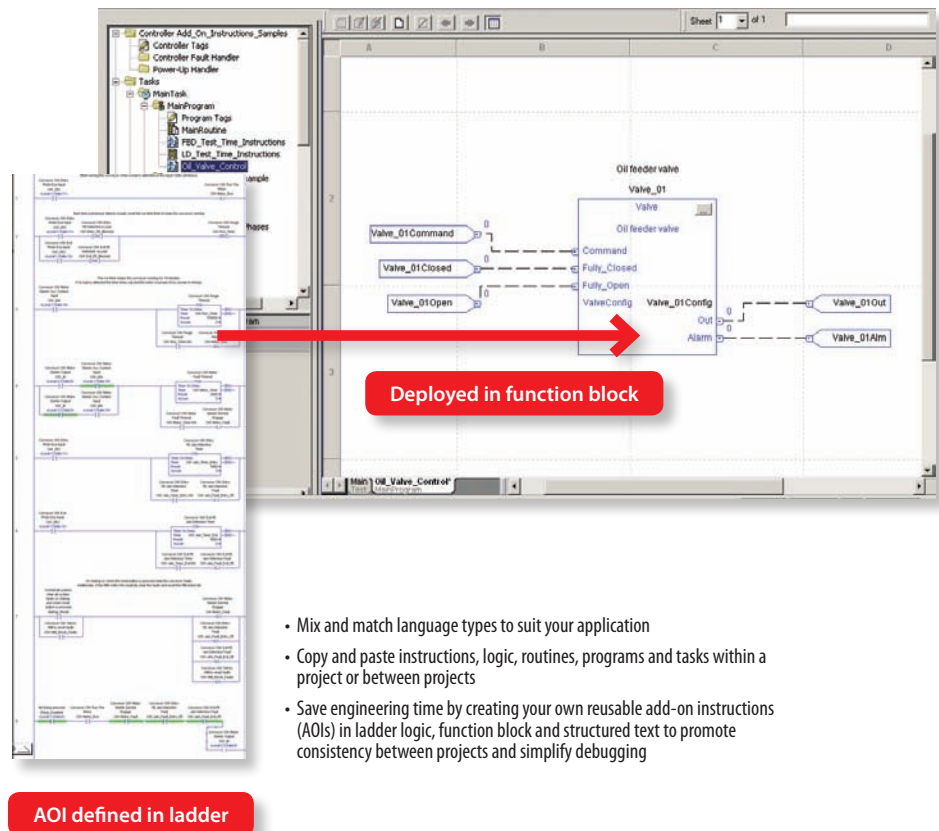
Reduce Programming and Ease Startup and Commissioning

Encourage modular program design

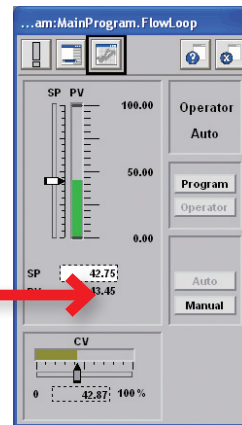
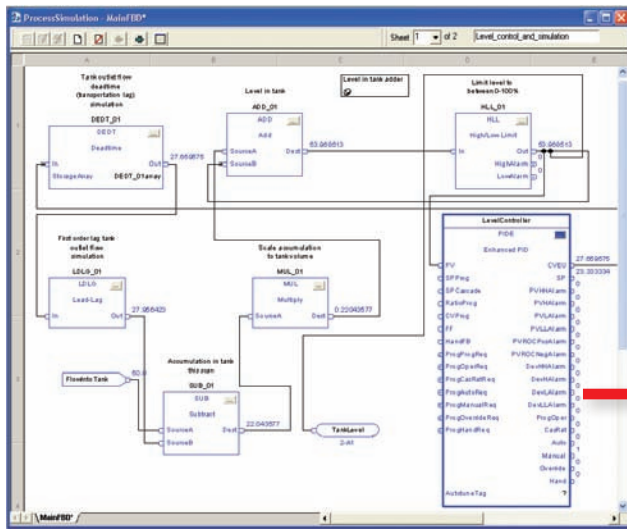


Segment your application into smaller reusable programs, routines and instructions using different programming languages: ladder diagram, function block diagram, structured text and sequential function chart. All of the data is encapsulated within each program, making it easy to use modular code.

Save time with intuitive programming tools

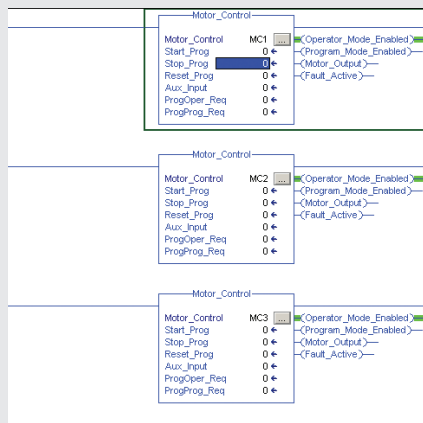


Simplify startup and streamline development

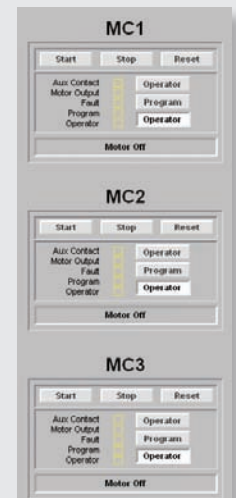


Create HMI faceplates and tie them directly to your modular code through simple configuration

Run Time: Control

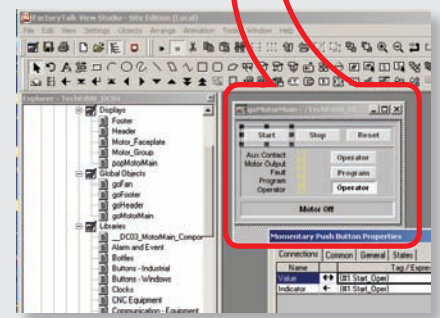
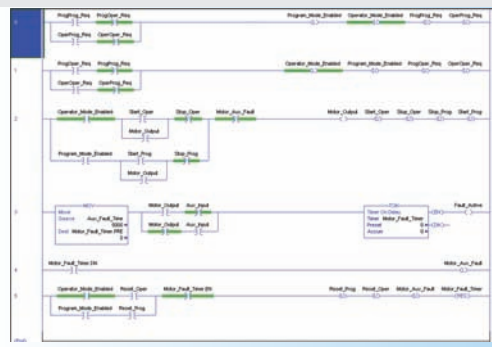


Run Time: View



Design Time

Name	Usage	Data Type	Default	Style	Res	Vis	Description
Stop_Prog	Input	BOOL	0	Decimal			
Reset_Prog	Input	BOOL	0	Decimal			
Start_Prog	Input	BOOL	0	Decimal			
Aux_Input	Input	BOOL	0	Decimal			
ProgOper_Req	Input	DINT	5000	Decimal			
ProgProg_Req	Input	BOOL	0	Decimal			
Operator_Mod	Output	BOOL	1	Decimal			
Program_Mod	Output	BOOL	0	Decimal			
Motor_Output	Output	BOOL	0	Decimal			

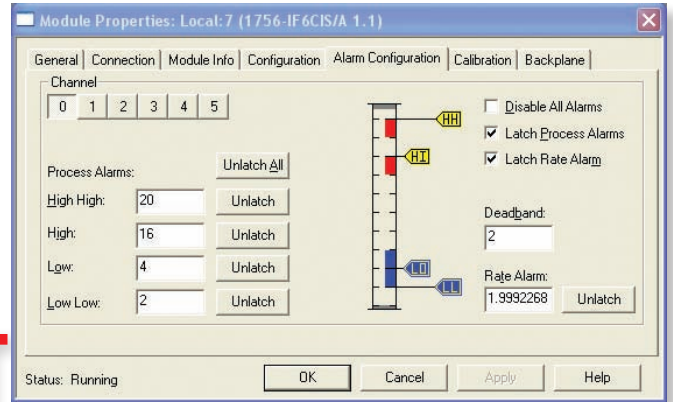
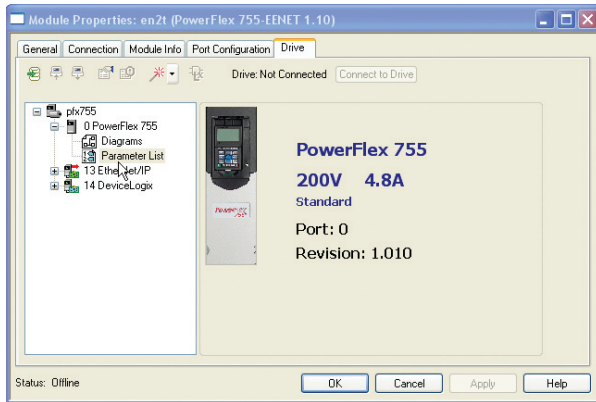


- Encapsulate logic for a common task in an AOI and reuse it
- Create a global object for that task and reuse it
- Easily connect the global objects to the AOIs

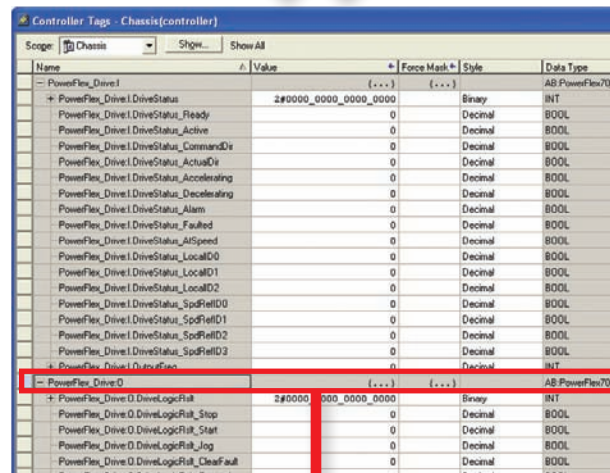
Reduce Programming and Ease Startup and Commissioning

Easily configure devices and automatically generate tags

Easily configure devices with graphical wizards

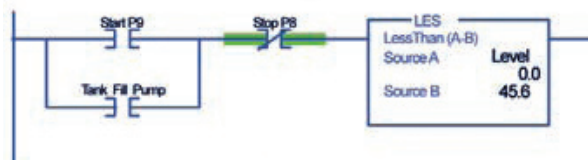


efesotomasyon.com



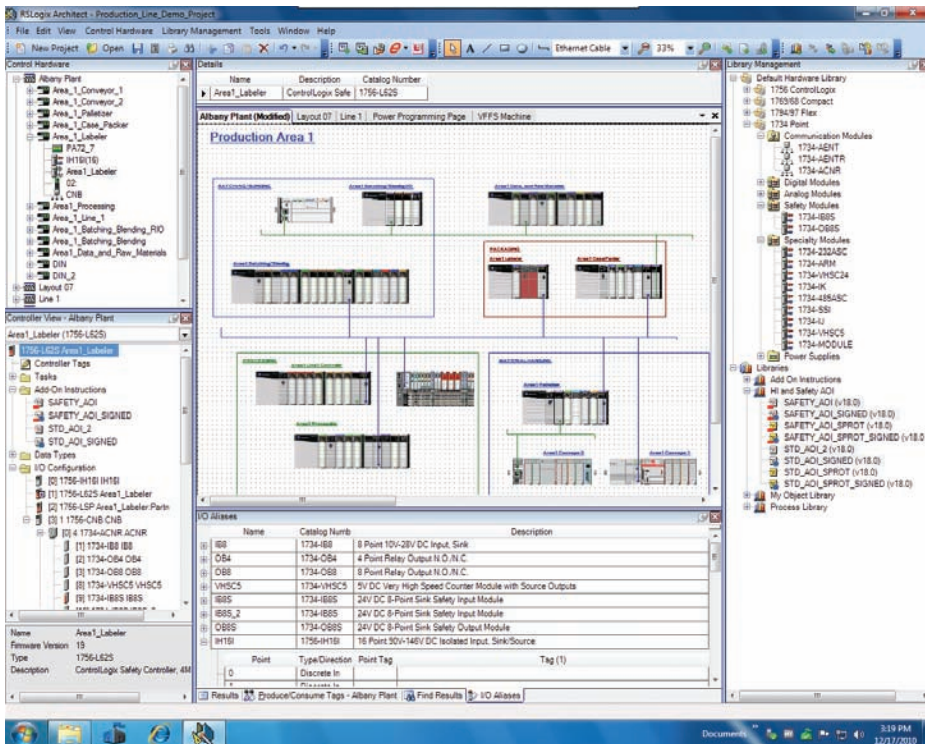
Name	Value	Force Mask	Style	Data Type
PowerFlex_Drive1	(...)	(...)		AB PowerFlex700
PowerFlex_Drive1.DriveStatus	2#0000_0000_0000_0000		Binary	INT
PowerFlex_Drive1.DriveStatus_Ready	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_Active	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_CommandDis	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_ActualDir	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_Accelerating	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_Decelerating	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_Alarm	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_Faulted	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_ActSpeed	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_LocalD0	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_LocalD1	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_LocalD2	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_SpdRelD0	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_SpdRelD1	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_SpdRelD2	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus_SpdRelD3	0		Decimal	BOOL
PowerFlex_Drive1.DriveStatus	0		Decimal	BOOL
PowerFlex_Drive0	(...)	(...)		AB PowerFlex700
PowerFlex_Drive0.DriveLogicRst	2#0000_0000_0000_0000		Binary	INT
PowerFlex_Drive0.DriveLogicRst_Stop	0		Decimal	BOOL
PowerFlex_Drive0.DriveLogicRst_Start	0		Decimal	BOOL
PowerFlex_Drive0.DriveLogicRst_Log	0		Decimal	BOOL
PowerFlex_Drive0.DriveLogicRst_ClearFault	0		Decimal	BOOL

When you add a device, the software automatically creates the necessary tags



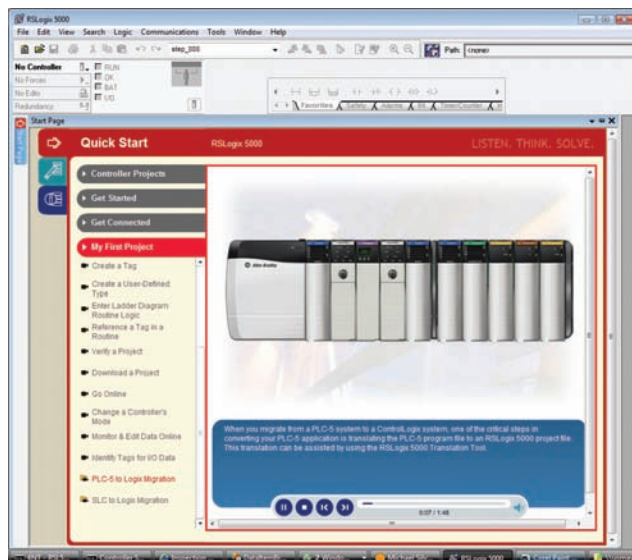
Logix controllers understand real tag names, like 'tank level' and 'flow rate', so you don't need to maintain cross-references between tags and physical addresses. Tag names are shown in the program even if you don't have the documentation.

Easily manage controller configurations with RSLogix™ Architect



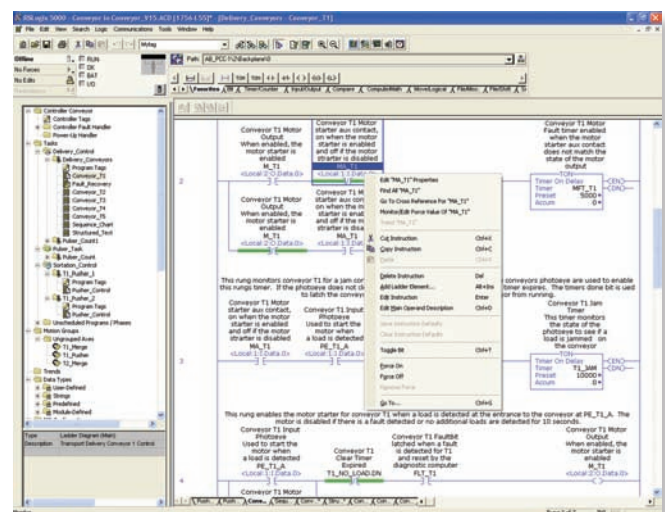
- Graphically represent your system architecture
- Search multiple projects for tags
- Store and deploy AOIs and User-Defined Types (UDTs) in libraries

Migrate projects from RSLogix 5™ and 500™



Quick start instructions help you to convert from a SLC™ or PLC-5® system to a Logix system

Reduce training needs with intuitive interface

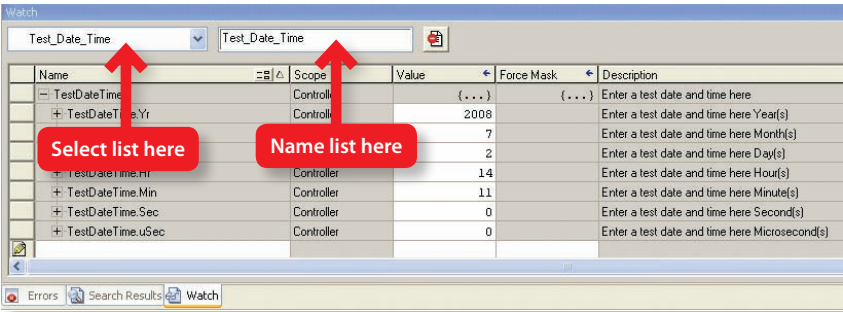


IEC 61131-3-compliant display represents projects as graphical trees with tasks, programs and routines

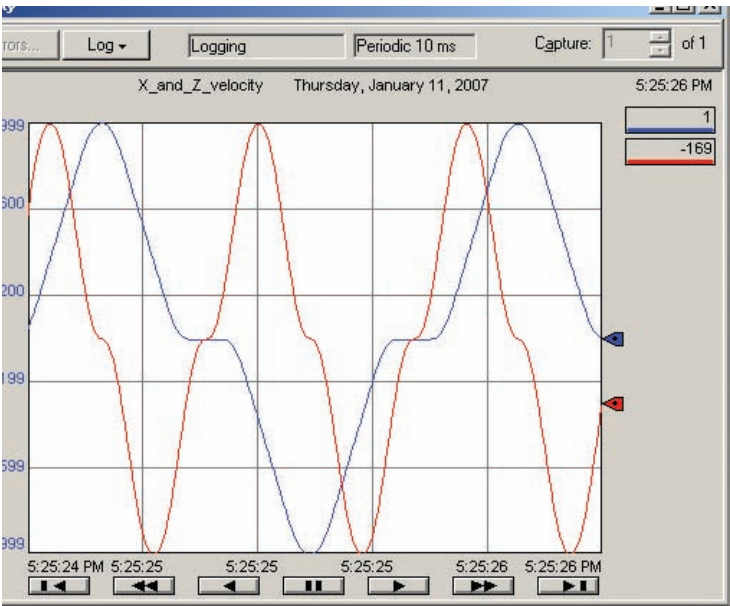
For more information, visit <http://www.rockwellautomation.com/rockwellsoftware/design/rslogix5000/benefits.html>

Ease Diagnostics and Troubleshooting

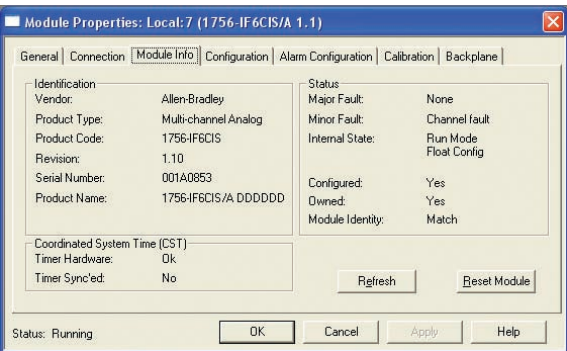
Easily troubleshoot I/O modules



- Monitor selected tags easily using Quick Watch capability
- Save and reuse frequently used Quick Watches

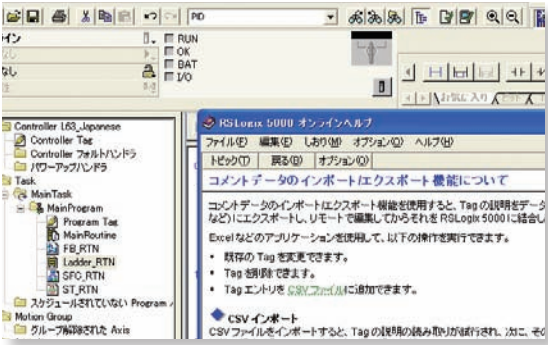


Monitor tag status and the relationship between tags using the trending capability



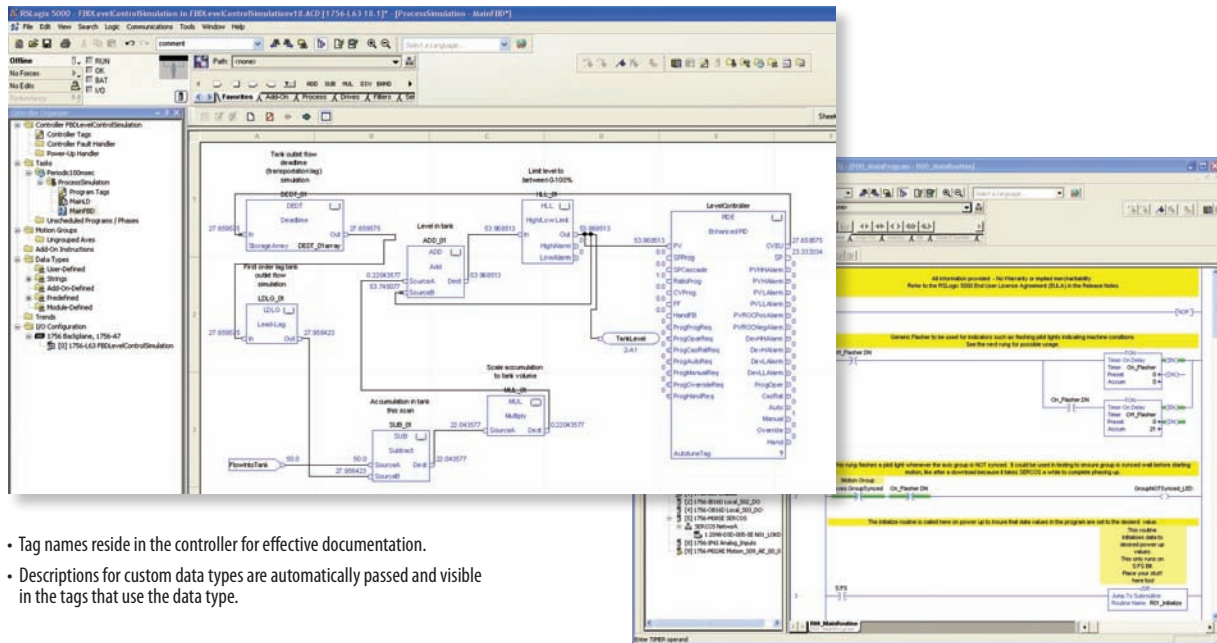
Use pre-defined module property tabs for diagnostics

View project information in your users' native languages



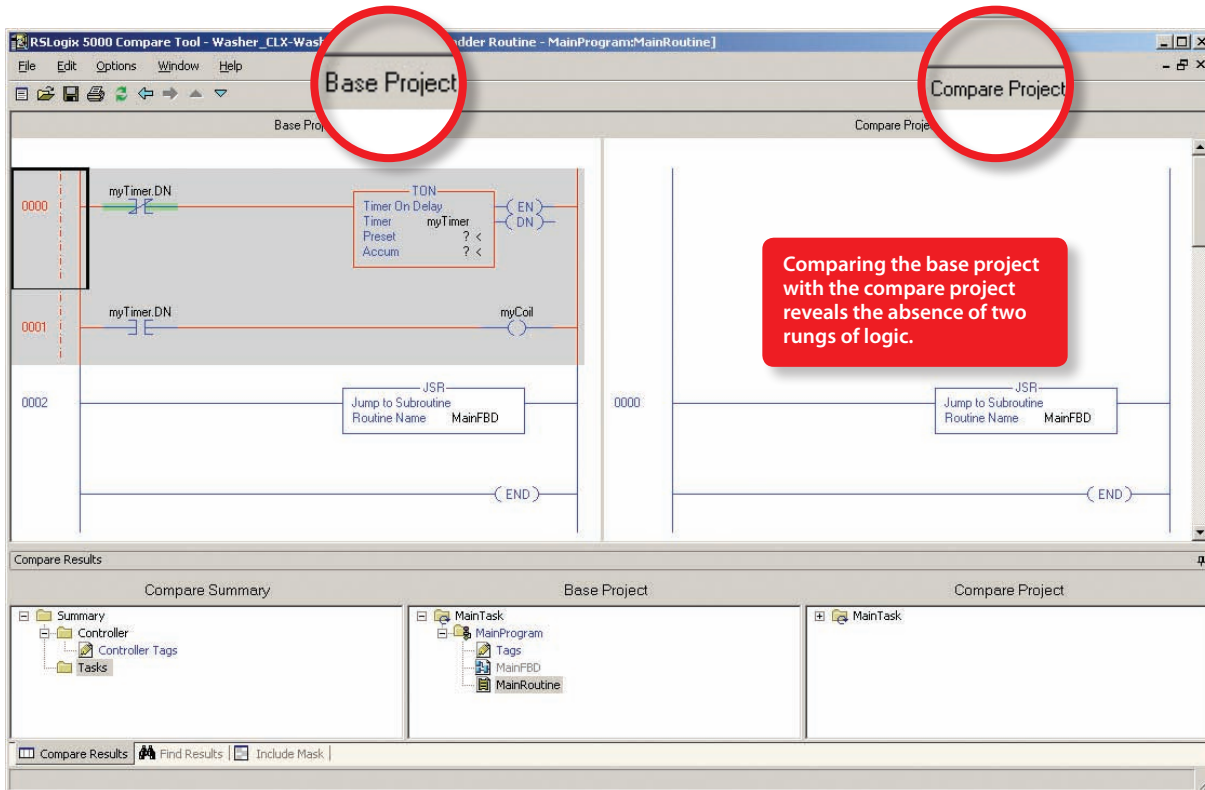
Reduce engineering costs by globally deploying a single project file and let users view rung comments, text boxes, and tag descriptions in their native language. Supported native languages include Chinese, Japanese, Korean, French, Spanish, Italian, Portuguese, German.

Speed maintenance with rich documentation



- Tag names reside in the controller for effective documentation.
- Descriptions for custom data types are automatically passed and visible in the tags that use the data type.

Effectively track project changes

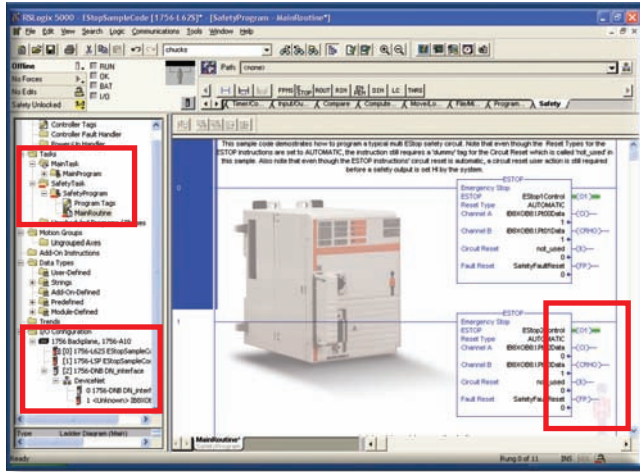


The RSLogix 5000 compare capability allows you to compare two projects and easily identify differences

For more information, visit <http://www.rockwellautomation.com/rockwellsoftware/design/rslogix5000/tab2.html>

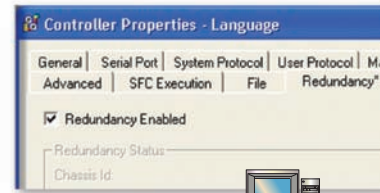
Increase Overall Plant Productivity

Improve operator safety

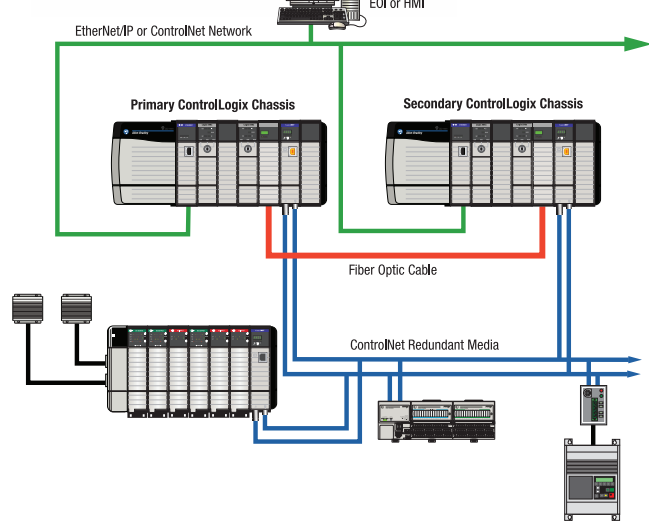


- Improve operator safety with GuardLogix® SIL 3 instruction extensions with the SIL 3 Safety Programming Editor
- Comprehensive set of TÜV and BG certified safety application instructions, including metal-forming instructions for press automation
- Common programming environment for standard and safety controllers
- Standard and safety application code can coexist on the same controller

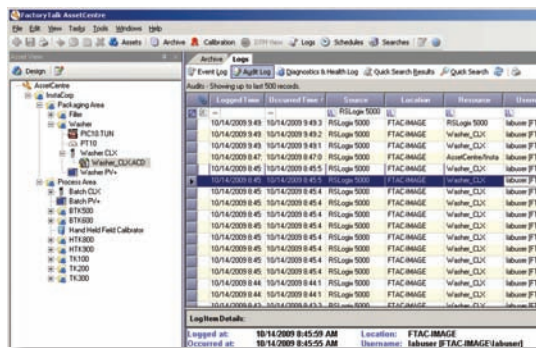
Easily configure redundancy



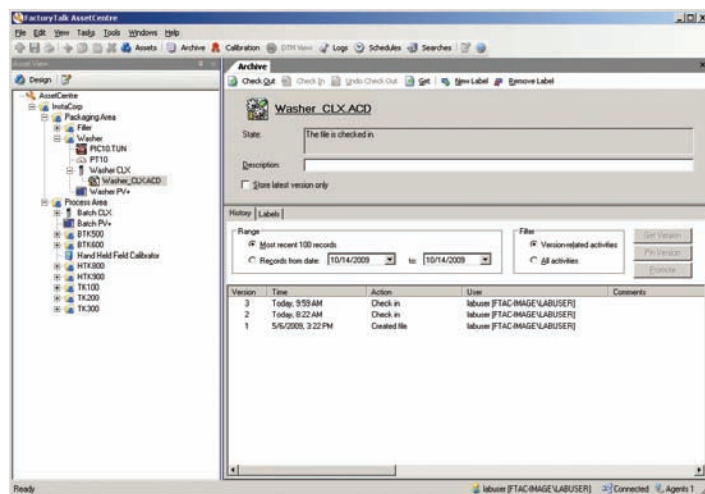
No programming required to enable redundancy – simply configure your RSLogix 5000 project for redundancy by just checking a check-box.



Rely on audit and recovery capabilities



Centrally track who made what modifications and when using FactoryTalk® AssetCentre



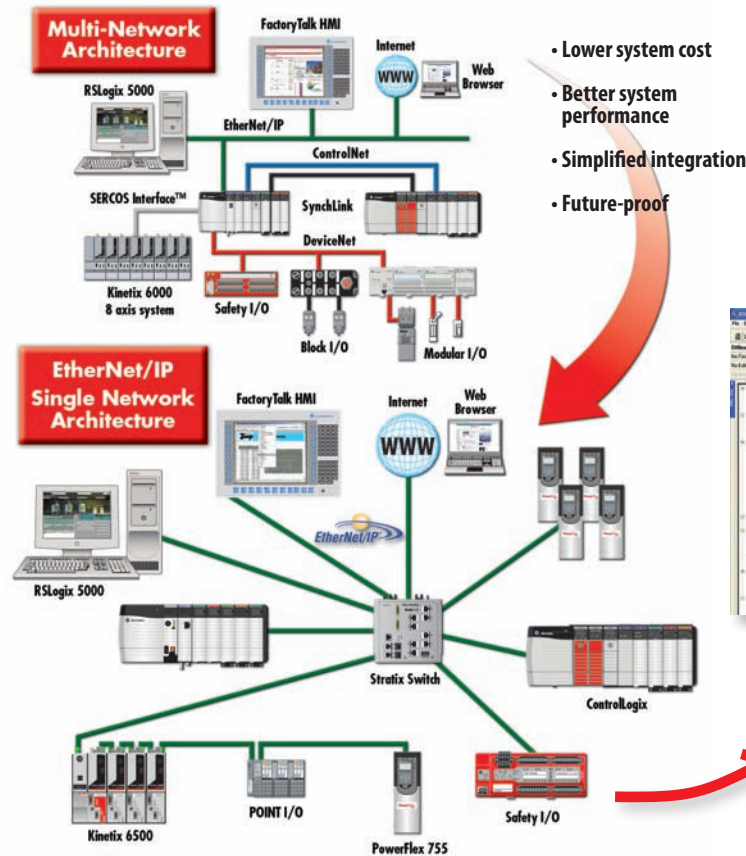
Use the system to store, back up and retrieve the application files for automation assets in your facility

What's New in Version 18?

Program, configure and maintain your integrated motion solution with one software package

Lower cost, improve performance and ease-of-use:

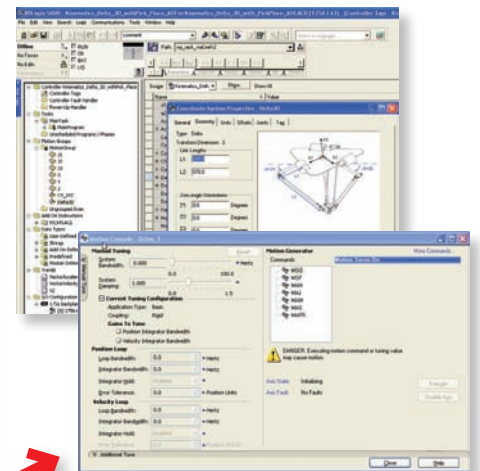
- Single network architecture, EtherNet/IP
- Integrate high performance drives, I/O, smart actuators, EOI, and any other EtherNet/IP device on a common network
- No dedicated motion network
- Star, linear and ring topologies
- Controller to drive and controller to controller motion synchronization
- Allows use of standard infrastructure components, switches and tools – no need for proprietary hardware or software
- 100MB throughput with assured determinism regardless of device type and mix
- 100ns time synchronization of distributed devices
- 100µs time scheduled output and time-stamped input I/O
- Servo drives, closed and open loop vector drives, V/Hz drives – including the Kinetix® 6500 and PowerFlex® 755 – all with common integrated motion programming, configuration and tools



- Lower system cost
- Better system performance
- Simplified integration
- Future-proof

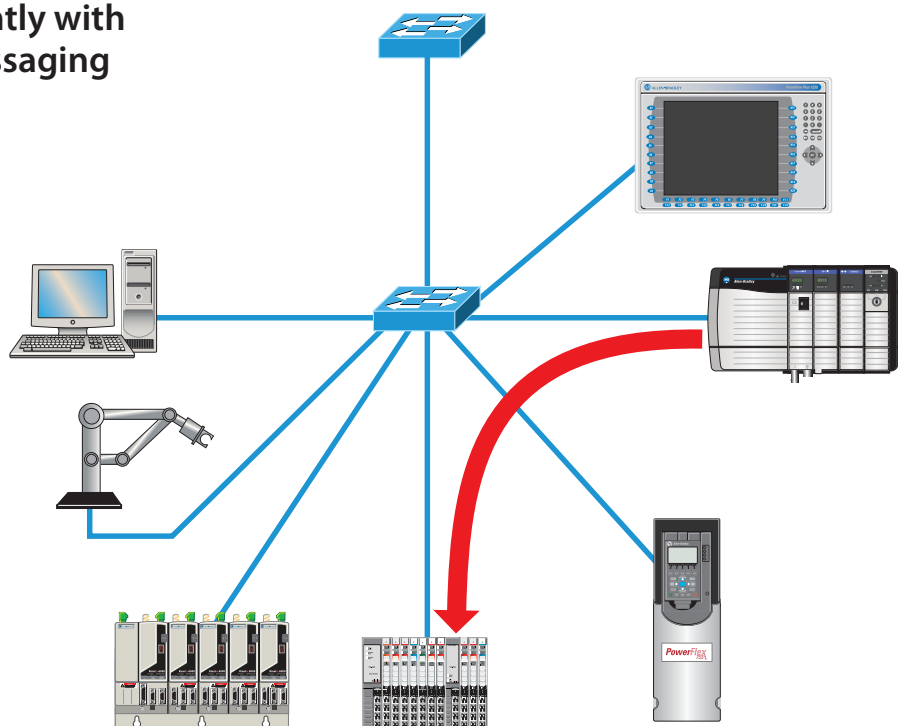


Broad range of drive support including servo, closed and open loop vector V/Hz



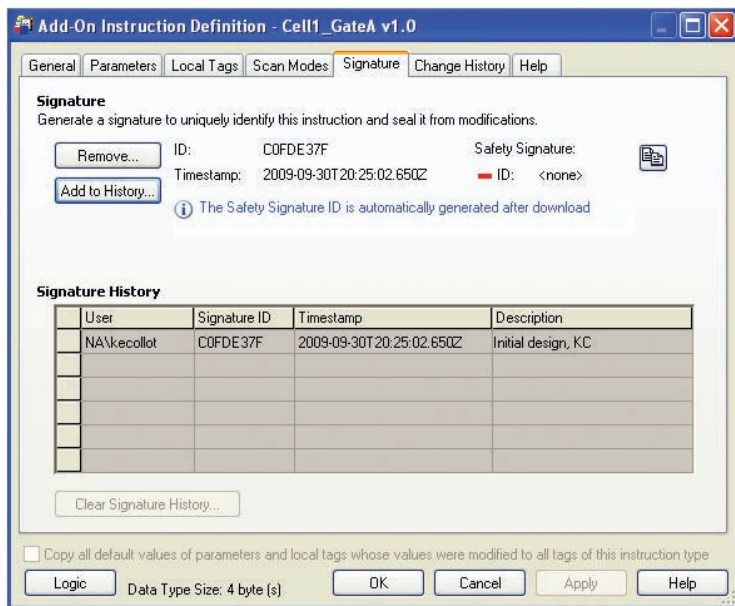
Communicate more efficiently with EtherNet/IP unicast I/O messaging

- Streamline traffic on the network by allowing one-to-one transmission of EtherNet/IP I/O data
- Allow EtherNet/IP produced/consumed tag communications to span multiple subnets
- Eliminate inefficiency, reduce networking and IT requirements



What's New in Version 18?

Protect your intellectual property and fulfill regulatory requirements with high integrity AOIs



- Verify that your Add-On Instructions have not been modified using high integrity AOIs
- Used with a GuardLogix controller, instructions can be TÜV certified to the SIL 3 level

Simplify HMI development and prevent inadvertent data changes

Speed Control - /DAC// (Display)

High Speed Limit

25

Speed Control - /DAC// (Display)

High Speed Limit

30

Scope: MainProgram Show: All Tags

Name	Description	External Access	Constant	St
HISpeedLimit		Read Only	<input checked="" type="checkbox"/>	
		Read/Write	<input type="checkbox"/>	
		Read Only	<input type="checkbox"/>	
		None	<input type="checkbox"/>	

Errors

Verifying routine: MainProgram - MainRoutine...

Error: Rung 0, MUL, Operand 2: Routines cannot write Constant tags.

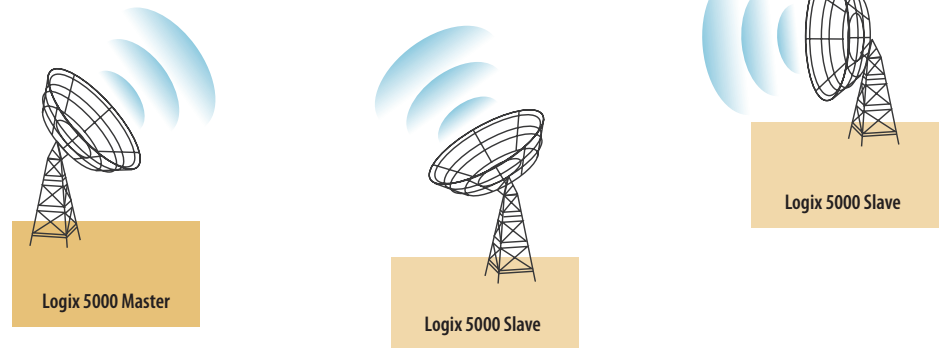
Complete - 1 error(s), 0 warning(s)

- Protect data from being accidentally or intentionally written, causing potential harm to machinery, processes or products
- Simplify and speed HMI creation by reducing the number of tags visible while browsing the controller from the HMI development environment

DF1 radio modem protocol broadcast support

Master/Slave

Simplify application code and reduce power consumption with DF1 Radio Modem Protocol Broadcast Support



Support for new controllers and modules



ControlLogix® L73 Controller



GuardLogix L43S Controller



Kinetix 300 EtherNet/IP Indexing Servo Drive



ArmorPOINT® Sequence of Events Module

Software Requirements

Description	Value
personal computer	Pentium II 450MMHz minimum; Pentium III 733MHz or better recommended
software requirements	<p>RSLogix 5000 version 18 has been tested on the following Windows systems:</p> <ul style="list-style-type: none"> • Server 2008 Standard Edition with SP2 • Server 2003 R2 Standard Edition with SP2 • XP Professional with Service Pack 3 • Vista Home Basic with SP2 and User Account Control enabled • Vista Business with SP2 and User Account Control enabled <p>RSLogix 5000 version 18 is expected to function properly but has not been tested on the following Microsoft Windows systems:</p> <ul style="list-style-type: none"> • XP Home • Server 2003 Standard Edition with Service Pack 1 • Vista Ultimate • Vista Home Premium <p><i>Chinese, Japanese, and Korean editions are supported only on Microsoft Windows XP, Vista and Server 2003.</i> <i>RSLogix 50000 software is supported for 32-bit (x86) architectures.</i></p>
RAM	128 MB minimum; 256 MB recommended
hard disk space	≥ 3 GB free based on application requirements
optical drives	DVD
video requirements	256-color VGA graphics adapter; 800x600 minimum resolution ; True Color 1024x768 recommended

Select Your RSLogix 5000 Enterprise Series Software Package

Available Features	Service Edition 9324-RLD000xxE* ≈	Mini Edition 9324-RLD200xxE*	Lite Edition 9324-RLD250xxE*	Standard Edition 9324-RLD300xxE*	Standard/NetWorx Edition 9324-RLD300NXxxE*	Full Edition 9324-RLD600xxE*	Professional Edition 9324-RLD700NXxxE*
Logix5000 controllers supported	All ≈	CompactLogix FlexLogix	CompactLogix FlexLogix	All	All	All ‡	All
Relay ladder diagram editions §	Upload/download and view	Full support	Full support	Full support	Full support	Full support	Full support
Function block diagram editor 9324-RLDFBDBENES	Upload/download and view	Upload/download available separately	Full support	Upload/download available separately	Upload/download available separately	Full support	Full support
Sequential function chart editor 9324-RLDFSCEES £	Upload/download and view	Upload/download available separately	Full support	Upload/download available separately	Upload/download available separately	Full support	Full support
Structured text editor 9324-RLDSTXES	Upload/download and view	Upload/download available separately	Full support	Upload/download available separately	Upload/download available separately	Full support	Full support
PhaseManager 9324-RLDPME	Upload/download and view	Upload/download available separately	Upload/download available separately	Upload/download available separately	Upload/download available separately	Full support	Full support
GuardLogix Safety 9324-RLDGLXE	Upload/download and view	NA	Full support	Upload/download available separately	Upload/download available separately	Full support	Full support
Highly integrated motion	Upload/download and view	Upload/download	Full support	Full support	Full support	Full support	Full support
Graphic trending	Full support	Full support	Full support	Full support	Full support	Full support	Full support
DriveExecutive Lite 9303-RDTE01ENE	Available separately	Available separately	Available separately	Included	Included	Included	Included
PIDE autotune 9323-ATUNEENE	Available separately	Available separately	Available separately	Available separately	Available separately	Included	Included
Advanced Process Control instructions - Design license for RSLogix 5000 and runtime license for one controller 9324-RLDAPCENE	Upload/download and view only	Available separately	Available separately	Available separately	Available separately	Available separately	Available separately
Advanced Process Control instructions - Runtime license for one controller (pay to deploy) 9324-RLDAPCLENE	Upload/download and view only	Available separately	Available separately	Available separately	Available separately	Available separately	Available separately
FactoryTalk AssetCentre audit support	Included	Included	Included	Included	Included	Included	Included
FuzzyDesigner 9324-RLDFZYENE ☉	NA	Available separately	Available separately	Available separately	Available separately	Available separately	Available separately
RSLogix Emulate 5000 9310-WED200ENE*	Available separately	NA	NA	Available separately	Available separately	Available separately	Included
Logix CPU security	Included	Included	Included	Included	Included	Included	Included
Routine source protection	Included	Included	Included	Included	Included	Included	Included
FactoryTalk Security Server Support (FactoryTalk AP install required - included on disk)	Included	Included	Included	Included	Included	Included	Included
Security Server Emulator (FactoryTalk AP install required - included on disk)	Included	Included	Included	Included	Included	Included	Included
RSLink Classic software	Lite included	Lite included	Lite included	Lite included	Lite included	Lite included	Lite included
RSNetWorx for ControlNet software RSNetWorx for DeviceNet software RSNetWorx for EtherNet/IP software ☼	Available separately	Available separately	Available separately	Available separately	Included	Included	Included
RSLogix Architect 9326-LGXARCHENE ♦	Available separately	Available separately	Available separately	Included, available via download only	Included, available via download only	Included, available via download only	Included, available via download only
RSLogix 5000 project compare	Included	Included	Included	Included	Included	Included	Included
FactoryTalk View SE demo (50 tags/2 hours)	Available separately	Available separately	Available separately	Available separately	Available separately	Available separately	Included
Upgrades	Refer to StepForward™ Program						

* Replace xx in the catalog number with the appropriate language designation: ZH=Chinese, EN=English, FR=French, DE=German, IT=Italian, JP=Japanese, KO=Korean, PT=Portuguese, and ES=Spanish.

≈ Service Edition supports controllers running firmware revision 12 and later.

‡ Full Edition supports controllers running firmware revision 10 and later.

§ A multiple language editor package is available as 9324-RLDMLPE. It contains the function block, sequential function chart, and structured text editors at a reduced price.

☼ RSNetWorx for ControlNet software is 9357-CNETL3. RSNetWorx for DeviceNet software is 9357-DNETL3. RSNetWorx for EtherNet/IP software is 9357-ENETL3. They are available together as 9357-ANETL3.

☼ The multiple language editor package (9324-RLDMLPE) is not the same as an upgrade, but it extends the programming languages to match those in a Full package.

♦ RSLogix Architect license is included with Professional Edition. As of RSLogix 5000 programming software, version 18, you can also activate RSLogix Architect with FactoryTalk Activation licenses of the standard and Full Editions.

☉ As of RSLogix 5000 programming software, version 16. Software is designed to grab highest functionality license first i.e.; if Standard, Full and Professional Concurrent licenses are available on the FT Activation server,

RSLogix 5000 will grab highest functionality license first.

£ The Structured Text editor option is required to program Actions in ST language.

★ RSLogix Emulate 5000 does not support Microsoft® Windows 7 at this time.

NOTE: With RSLogix5000 V19, all new licenses are concurrent.

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