REAL TIME AUTOMATION, INC.
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REAL TIME AUTOMATION SOURCE CODE STACK 499ETC

ALLEN-BRADLEY TAG CLIENT SOURCE CODE STACK

KEY FEATURES

- 100% ANSI C-based source code written in-house by our EtherNet/IP experts
- Fully compatible with Windows, Linux or RTOS-enabled hardware and software platforms
- Read/write tag in any Logix PLC
- Read/write files in any PLC5, SLC, MicroLogix PLC
- No-nonsense single-family product licensing with no royalties
- Easy-to-use single task integration
- Perform multiple tag read/writes in single transaction
- Connect to multiple PLCs simultaneously

Allen-Bradley PLC Tag Client Source Code Development Kit

Royalty-Free Source Code for Embedded Devices

Looking to add Allen-Bradley PLC communication to your device? With RTA's development kit, you can ship an unlimited number of devices with no ongoing royalties or hidden fees.

Trusted in thousands of real-world applications, this kit has been enabling devices like PLCs, VFDs, barcode readers, I/O blocks and more for over two decades. It's market-tested, reliable and built for demanding industrial use.

What's Included in the Kit?

Everything you need to enable Allen-Bradley PLC communication in your device—fast:

- Royalty-free ANSI-C source code
- Sample applications for Windows and Linux
- PLC, ControllerScope tag and ProgramScope tag discovery capability
- Full documentation and integration guidance
- Hands-on support from RTA's EtherNet/IP Enginerds

You could be shipping Allen-Bradley PLC-enabled devices in weeks—not months.

How Integration Works

You build a data structure containing the tag names, files names to read or write and the Tag Client encodes and transmits your request to the target PLC. When a response arrives, the message is decoded and transferred to your application through a call back.

Why Choose an RTA Source Code Development Kit?

When you use an RTA Development Kit, you're getting more than just source code, you're gaining a protocol partner. Our EtherNet/IP experts work directly with you to design a solution tailored to your device and your goals.

Our source code is 100% developed in-house and has been deployed in hundreds of devices and over 100,000 applications. It's proven, reliable and built for embedded microcontrollers in demanding industrial environments.

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SPECIFICATIONS	
Connectivity	EtherNet/IP low level connectivity—no adapter/scanner functionality
Data Types	BOOL, SINT, USINT, INT, UINT, DINT, UDINT, REAL, LREAL, STRING
Maximum Number PLCs	Unlimited
PLCs Supported	ControlLogix, CompactLogix, PLC5, SLC, MicroLogix and more
Message Support	**ControlLogix/CompactLogix:** Read Tag Service (0x4C), Read Tag Fragmented Service (0x52), Write Tag Service (0x4D) Write Tag Fragmented Service (0x53) **SLC/MicroLogix:** SLC Read (0xA2), SLC Write (0xAA) **PLC-5:** PLC-5 Typed Read (67), PLC5 Typed Write (68)
Throughput	Varies with PLC application (Typical application—1 transaction per 20msec)
Tag/Files per Transaction	Limited by size of tag / files—PLC are typically limited to 500 bytes in each direction
Certification	Not required
PLATFORM REQUIREMENTS	
Processor	Any processor
RTOS	None required but compatible with many RTOS products
TCP/IP Stack Interface	Any TCP/IP stack
Memory	~64K of flash, RAM varies based on user application
Compiler	Any ANSI-C compiler (agnostic)
API—APPLICATION PROGRAMMING INTERFACE	
Configuration	Functional call interface
Data Transfers	Data structure containing list of tags/files

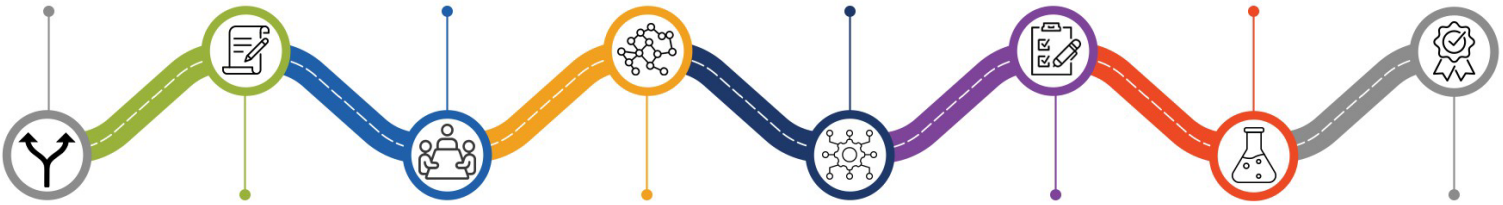
What Is the Development Process?

PICK YOUR PACKAGE
Not sure where to start? We'll help you decide whether to take our code and a consult, or send us your device and let us handle it all.

MEET YOUR ENGINERDS®
We'll walk through goals, project scope and next steps to make sure everyone's aligned and ready to roll.

STACK INTEGRATION
Depending on your path, we'll either help your team integrate our code—or we'll do the integration on your behalf. This step ends with a completed device deployment.

LAB TIME WITH BACKUP
You schedule with the conformance lab, our Enginerds represent your device at the lab.



MAKE IT OFFICIAL
Lock in your project with a purchase order and signed license agreement, this is when your project is scheduled.

MAP THE DATA RIGHT
We work with you to properly model your data. A good data model makes all the difference when customers deploy your device in control systems.

PRE-CONFORMANCE TESTING
We provide the required conformance test results needed for the lab. Our pre-conformance testing helps ensure your device will passes the first time.

MISSION COMPLETE
Your device is conformant, certified and ready to deploy on the plant floor.

Ready to Get Started?

Schedule a 30-minute call with one of our developers to walk through what it takes to integrate Allen-Bradley PLC communication into your device. No pressure—just straight answers and expert guidance.

Email us at **sales@rtautomation.com** or call **(800) 249-1612** to schedule your call.