



Assess
Plan
Implement

Your Guide to SLC/ PLC-5[®] Migration.

Resources to help you assess, plan and implement your migration to the ControlLogix[®] platform

For estimate requests or more information, contact 336-393-0100 or sales@mgnewell.com.

www.newellautomation.com

The SLC/PLC-5 control system is among the largest installed base of any control platform. After 30+ in the Rockwell Automation platform, these systems have been discontinued and replaced by the ControlLogix platform. This high-performance platform allows you to connect your production processes into an integrated plant-wide system.

Benefits include:

- Greater production visibility
- Improved inventory management, cycle times and quality control
- Improved capacity and asset utilization
- Regulatory compliance and reduced exposure to security risks

Our engineers can help you assess, plan and implement a migration:

- Assess** Assess your current system, current needs and future needs
Identify reliability issues, understand cost and time
- Plan** Work with us to review your options and to develop a migration plan
Document scope and benefits of the new system
- Implement** Execute the developed plan and document the benefits

Understanding the Purpose behind the Process



Your Guide to SLC/PLC-5 Migration.

Systematically migrating to the ControlLogix platform in phases offers users a way to prioritize their requirements and maintain productivity.

Phase I: Application Code Conversion

Migration begins by converting SLC/PLC-5 processor code to Logix code. Rockwell's database conversion tool streamlines the upgrade to the new code. Then, the new 1756-RIO Remote I/O can be used as the network interface to the 1771 Remote I/O over the existing I/O network.

Benefits

- Develop and confirm migration plan
- Test application code before implementation

Phase II: Replace PLC-5 Controllers

Next, while continuing to use the 1771 Remote I/O, replace PLC-5 controllers with the Logix PAC and 1756-RIO Module. The same 1756-RIO Module used in Phase I is now configured to perform as the master instead of the monitor. The Logix PAC can now control any I/O that resides in the 1771 chassis.

Benefits

- Maintain existing field wiring
- Minimize commissioning time and effort
- Ability to return to PLC-5 control if needed

Phase III: HMI/EOI Migration

Replace existing HMIs or EOIs with FactoryTalk® products. Application Conversion Utilities make operator interface more cost effective and give greater flexibility with the final product. Interfaces can be designed for how operators use the equipment and maximize their productivity.

Benefits

- 80% of the time no further modification is required
- Conversion log ID's features not supported by new hardware
- Enhanced features and graphics
- Better integration with controllers

Phase IV: I/O Replacement

Replace the 1771 I/O with the ControlLogix I/O using the I/O Wiring Conversion System. This system provides a method to connect existing 1771 I/O wiring to the 1756 I/O modules without disturbing field wiring connections. Planning is more manageable as racks can be switched one at a time or all at once based on your schedule and budget. During the conversion, both old and new I/O networks can run simultaneously.

Benefits

- Maintain existing field wiring
- Minimize commissioning time and effort
- Cross reference documentation to assure correct selection and historical back-up.

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