Migration Solutions
Siemens Moore APACS to PlantPAx® Distributed Control System

We can get you from here . . .

- Aging equipment that lacks production efficiency
- Unscheduled downtime risks
- High repair costs
- Limited network options
- Uncertain parts and service sourcing
- Loss of tech resources
- Questionable reliability of older electronics
- No warranty coverage

To here

- Product backed by the outstanding support of Rockwell Automation
- Open, integrated architecture for increased flexibility
- Re-use of engineering practices to reduce development time and costs
- Maximizing returns from existing assets through greatly improved control and monitoring
- Quickest response to customer or market demands
- Easy access to plant and production data from business systems for better management decision making
- Single environment for integrated process, discrete, power and safety for total plant-wide control

Philosophy

Your equipment is your livelihood - each day enabling you to produce quality products on time, every time. As your equipment ages, it’s inevitable that questions about part sourcing, service, potential productivity gains from new technology, and increased risks of downtime become stronger. You need to work with a supplier that has the product, service, and industry knowledge to partner with you on an upgrade strategy that will help you maximize your competitive advantage – that’s Rockwell Automation®.

Rockwell Automation and its partners will work with you to outline a plan that fits your application needs and long-term goals. We can help you migrate all at once or in phases, at a pace that is comfortable for you and fits your budget, while leveraging the latest capabilities and technologies of the PlantPAx Distributed Control System.
Philosophy of a Phased Migration

Learn how the technologies and expertise provided by Rockwell Automation enable the safest and most scalable migration solutions. Whether you choose to upgrade all at once or in phases, we carefully outline alternatives that provide flexibility while saving valuable production time.

**Phase I: Replace operator consoles with new HMI hardware and software**

Although the first phase of the migration involves a lot of activity, it requires no downtime and is very low risk. During this phase, we deploy redundant HMI servers and APACS Gateway and replace the existing operator workstations with new clients. Data is converted to Logix native tags utilizing the database conversion tool, making the data accessible throughout the new architecture. At the same time, EtherNet/IP can be deployed redundantly in self-sealing topologies. Additional steps are taken to mitigate risk by deploying faceplates and graphics that look very similar to the graphics your operators are already accustomed to, so that the new HMI is adopted very rapidly.

**Phase I Tools:** Database Conversion Tool, APACS Gateway, PlantPAx Servers and Workstations, Graphics Conversion Services

**Phase II: Interoperate Logix controllers in conjunction with your current system**

In this phase of the migration, you will leverage the new HMI infrastructure and add the ControlLogix® Programmable Automation Controllers (PACs) while interoperating with the existing APACS legacy system. With this approach you can add production capacity and manufacturing flexibility while incorporating new technology in your manufacturing environment. This will allow you to quickly benefit from many aspects of PlantPAx Distributed Control System including greater MES/ERP connectivity and tighter IT integration.

**Phase II Tools:** APACS Gateway

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**How to Get Started: Identifying the Right Options for You**

**Understanding Your Needs**

We can help by:

- Providing recommendations to optimize the performance of your automation assets
- Evaluating older equipment more susceptible to failure
- Setting performance baselines for continuous improvement
- Performing an Installed Base Evaluation to use as a foundation for your migration plan

**Learning About Current Migration Programs**

Packaged migrations can help with your planning and execution. We have a wide range of experience on Rockwell Automation and non-Rockwell Automation equipment, and can create custom migration packages/approaches for your individual needs.
Phase III: Replace legacy controllers, I/O modules, racks and power supplies
Replace obsolete controllers and retain legacy I/O by deploying our APACS I/O scanner module, and continue to control your process under PlantPAx. When you are ready to replace the I/O – you can use custom cable solutions that allow fast, low risk and low cost cutovers. The end result is a system with added production capacity, manufacturing flexibility, and total system support. With the proper planning, this can be accomplished while gaining the maximum life out of your current equipment and positioning yourself to cover future manufacturing needs.

Phase III Tools: APACS I/O Scanner, Custom Cables for Termination Unit Reuse, Configuration Conversion Services

Phase IV: Other enhancements that would increase the performance or maintainability of your equipment
Because Rockwell Automation is a comprehensive supplier, we can help in other areas as well. We carry everything from sensors to motor control centers, so we can discuss all your needs. But it does not stop there, we have a worldwide service group that can help during each step of your migration and provide the maintenance services once it’s complete. We can also review your network needs and review asset management for your entire plant.


Creating a Plan
• Target areas offering the greatest Return on Investment (ROI)
• Schedule based on your planned downtime
• Sequence to reduce overall project time
• Define and highlight successes

Executing the Plan
A wide variety of programs/services are available from Rockwell Automation and its partners, including:
• Design
• Project Management
• Programming
• Installation
• Commissioning/Start-up
• Maintenance

Practicing Continuous Improvement
Performance Assessments can be used to measure your success based on the defined metrics in your plan. These tools can also be used to plan and evaluate your future migration needs.

For more information, visit us at www.rockwellautomation.com/solutions/migration/ or contact your local Rockwell Automation Sales office or authorized Allen-Bradley distributor.
Siemens Moore APACS Cables for Direct Connection to ControlLogix I/O Modules

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Products can be purchased at microplex-inc.com.

Siemens Moore APACS Cables

- Preserve valuable production time and reduce risks associated with legacy I/O removal tasks
- Allow I/O to be removed in minutes and preserve existing field wiring terminations
- Make commissioning and startup tasks easier, less risky, and much less costly

Siemens Moore APACS Scanner

- Mitigates risk by “shadowing” a running system, enabling thorough testing of HMI graphics and process Controller configuration before cut-over
- Allows the user to remove their existing obsolete controllers and keep the I/O modules in place
- Does not require any programming - all configuration software is included
- Enables low risk and low cost conversions to PlantPAx

For more information
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