Legacy DCS Migration Solutions

Phased Migrations that Help Mitigate Risks and Minimize Costs
Modernize Your Control System with PlantPAx™

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 losses from old technology, and increased risks of downtime become stronger. You need to work with a supplier that has the service, system and industry knowledge to partner with you on an upgrade strategy to help you maximize your competitive advantage.

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 new PlantPAx Process Automation System.

<table>
<thead>
<tr>
<th>We Can Help You Go From Here . . .</th>
<th>To Here</th>
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<tbody>
<tr>
<td>Lack of visibility to production data</td>
<td>Easy access to plant and production data for better decision making</td>
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<tr>
<td>Uncertain parts and service sourcing</td>
<td>Quickest response to market demands</td>
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<td>Limited network options</td>
<td>Open, integrated architecture for increased flexibility</td>
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<td>Weakening technical service and high repair costs</td>
<td>System components backed by the outstanding support services of Rockwell Automation</td>
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<td>Unscheduled downtime risks and lengthy startups</td>
<td>Re-use of engineering practices to reduce development time and costs associated with startups</td>
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<td>Questionable reliability of older electronics</td>
<td>Maximizing returns from existing assets through improved control and monitoring</td>
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<tr>
<td>Old equipment that lacks production efficiency and flexibility</td>
<td>Single environment for integrated motion, process, and safety for plant-wide optimization</td>
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www.rockwellautomation.com/solutions/migration/programs.html#dc

PlantPAx Phased Migrations

“Downtime has been dramatically reduced – there are some months that we operate with zero downtime. Our return on investment on the [PlantPAx] system has been tremendous. When you operate 24 hours per day, there is no opportunity to make up for profits lost as a result of downtime. Thanks to the new PlantPAx system and the support of [our integrator], we don’t have to play catch-up anymore.”

Roger Hill, General Manager of Golden Triangle Energy Cooperative
Getting Started: Select Your Best Options

Understand Your Needs
We can help you assess your current system 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

Learn 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.

Create a Plan
We can help you prepare for your new solution by:
• Targeting areas offering the greatest Return on Investment (ROI)
• Scheduling based on your planned downtime
• Sequencing the work to reduce overall project time
• Defining and highlighting successes

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

Practice 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.

We have experience in migrating all legacy systems, and have specific enabling tools to help us quickly migrate the following systems:
• ABB Bailey NET/INFI90
• Honeywell TDC 2000/3000
• Emerson PROVOX/WDPF
• Invensys Foxboro I/A
• Siemens Moore APACS

PlantPAx Process Automation System
PlantPAx is Rockwell Automation’s process automation system. It combines the plant-wide control technologies and unmatched scalability of Integrated Architecture with all the core capabilities expected in a world-class DCS.

Plant-wide Control
By implementing a single, plant-wide control system, customers can increase efficiencies and productivity across all layers of their organization. They are able to integrate process control, discrete control, power, information and safety into one plant-wide infrastructure. It eliminates the need for different and disparate control systems, resulting in a significant plant-wide optimization improvements and reduced total cost of ownership (TCO).

DCS Functionality and More
From basic regulatory control to advanced, model-based control, PlantPAx delivers. Whether continuous or batch, sequential control or high speed discrete logic, no other system can do so much in one platform.

Scalable and Economical
PlantPAx brings you the power of choice. Choose the right language, the right controller and the right I/O subsystem for the job.

Open Communications
PlantPAx is based on open communication standards, leveraging EtherNet/IP as its backbone. As a result, real-time information is readily available throughout the enterprise for better business decisions. It also provides seamless integration to process networks such as HART®, Foundation Fieldbus™, and Profinbus PA™. It also offers direct connectivity to PowerFlex® variable frequency drives and CENTERLINE® motor control centers.

For more information on Rockwell Automation Process Solutions visit us at:
www.rockwellautomation.com/solutions/process
Complete Turnkey Conversion Services

In any phase of your conversion project, Rockwell Automation can provide you with technical, industry and project management expertise to help make a migration project easier. We will help you design a plan to account for your short and long-term goals. You will be assigned a project manager who will be responsible for coordinating and scheduling implementation activities and resources, and who will also be the primary communications contact.

On-site Assessment

Using standardized checklists and processes, a job site visit will be performed to confirm the project scope, validate risks, review testing and acceptance criteria, and gather the required information and software to convert existing screens and configurations. At the end of step 1, you will receive:

- Completed risk assessment form
- Bill of materials
- Conversion acceptance criteria
- Project schedule and timeline
- Required information sent to conversion engineer team

Application Conversion Engineering Services

Using custom-developed proprietary software applications designed to convert existing graphics and configurations, our engineers will complete and test the screen conversion process and any required code changes necessary.

- The existing graphics and configurations converted to PlantPAx
- Conversion of the console and controller database
- Convert any instructions to PlantPAx
- Multilingual database conversion offered

Start-up and Acceptance

Prior to installation, comprehensive functional testing will be performed including pre-loading of all applicable software and firmware. Once installation is complete, our engineers, working closely with your plant staff, will conduct an operational compliance. Comprehensive system documentation will be provided upon project acceptance.

- Pre-operational checklist
- Operational test performed and validated by customer
- Customer acceptance
- Necessary documentation, including product sheets and software files
- Operator Training

Application Conversion Assistance

If you’re only looking for assistance with your conversion project, Rockwell Automation provides a variety of application conversion services designed to aid in the conversion/migration of custom systems with minimal re-engineering of the application.

We Can Help You:

- Decrease turn-around time
- Save money
- Minimize errors that can occur in a manual conversion

Deliverables Include:

- The existing console and configurations converted to PlantPAx
- Conversion of the console and controller database
- Convert any instructions to PlantPAx
- Multilingual database conversion offered

If you need additional help, Rockwell Automation can provide:

Application level phone support during the start-up and debugging phase of the project

Consultation on system re-engineering, operator interface, architecture and communication strategies, training, and on-site start-up is available through our local Rockwell Automation office.