Legacy DCS Modernization
Phased Migration Approaches that Reduce Risks and Minimize Costs
Modernize your control system with PlantPAx®

ADDRESSING THE RISKS OF A LEGACY DCS

Your DCS is the "brain of your process"—reaching out into your plant to monitor and control the multitude of devices which enable 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 more likely. You need to work with a supplier that has the product, service, system and industry knowledge to partner with you on a modernization strategy that will help you maximize your competitive advantage – that’s Rockwell Automation.

Rockwell Automation and its partners work with you to outline a plan that fits your application needs and long-term goals. We can help you convert your DCS 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 Modern DCS.

We can take you

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<th>from 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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<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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<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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Membership and Leadership

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 with a holistic approach

UNDERSTAND YOUR NEEDS
We help you assess your current legacy 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

EXECUTE THE PLAN
We help you by delivering a wide variety of programs/services which are available from Rockwell Automation and its partners, including:

• Design
• Project Management
• Configuration
• Installation
• Commissioning/Start-up
• Maintenance

LEARN ABOUT CURRENT MODERNIZATION PROGRAMS
Packaged migration solutions help with your planning and execution. We have a wide range of experience on Rockwell Automation and non-Rockwell Automation equipment and create custom migration approaches for your individual needs.

PRACTICE CONTINUOUS IMPROVEMENT
We help you by implementing performance assessments which are used to measure your success based on the defined metrics in your plan. These tools also are used to plan and evaluate your future migration needs.

CREATE A PLAN
We 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

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, MOD300
• Honeywell TDC 2000/3000, PlantScape/Experion
• Emerson PROVOX, WDPF, RS3, DeltaV, Ovation
• Schneider/Invensys Foxboro I/A
• Siemens PCS7, Moore APACS
Modernize your control system and enable a Connected Enterprise

PLANT-WIDE CONTROL
By implementing a single, plant-wide control system, customers can increase efficiencies and productivity across all layers of their organization. They 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 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 infrastructure, the appropriate controller, and the best 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 Profibus 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:
rok.auto/dcsmigration
Complete turnkey conversion services

In any phase of your conversion project, Rockwell Automation provides you with technical, industry and project management expertise to help mitigate migration project risk.

We help you design a plan to account for your short and long-term goals. You are assigned a project manager who is responsible for coordinating and scheduling implementation activities and resources, and who is the primary communications contact.

ON-SITE ASSESSMENT

Using standardized checklists and processes, a job site visit is 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 this step, you 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 software designed to reverse engineer & convert existing graphics and configurations, our engineers then complete and test the conversion process and any required configuration changes necessary.

- The existing graphics and configurations converted to PlantPAx
- Conversion of the logic and controller database
- Multilingual database conversion available

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, conduct operational compliance. Comprehensive system documentation is 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 are 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 control systems with minimal re-engineering of the applications.

WE HELP YOU:

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

DELIVERABLES INCLUDE:

- The legacy logic, graphics & database configurations converted to PlantPAx
- Multilingual database conversion available

If you need additional help, Rockwell Automation provides:

1. Application level phone support during the start-up and debugging phase of the project.
2. Consultation on system re-engineering, operator interface, architecture and communication strategies, training, and on-site start-up through your local Rockwell Automation office.