Migration Solutions
Honeywell to PlantPAx® Distributed Control System

We can take you from here:
- Old equipment that lacks production efficiency
- Unscheduled downtime risks
- High repair costs
- Limited network options
- Uncertain parts and service sourcing
- Weakening technical service
- High rate of DCS component failures
- Antiquated HMI
- No warranty coverage

To here:
- Product backed by the outstanding support of Rockwell Automation
- Modern DCS, with open, integrated architecture for increased flexibility
- Re-use of engineering practices to reduce development time, risks and costs
- Maximizing returns from existing assets through greatly improved control and monitoring using High-Performance HMI
- Quickest response to customer or market demands
- A Connected Enterprise that provides easy access to plant and production data from business systems for better management decision making
- Single environment for integrated motion, process and safety for total plant-wide control

Philosophy
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 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 Modern DCS.
Philosophy of a Phased Migration

Since it’s rare for a site to shut down for the duration of a complete DCS replacement, most users choose a form of Phased Migration to suit their production requirements. 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 limited downtime and low risk. During this phase, we deploy redundant HMI servers and Honeywell LCN 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.

**Phase I Tools:** Database Conversion Tool, Honeywell LCN Gateway, 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) and I/O while interoperating with the control platform of the existing legacy system. A great option here is to deploy Honeywell PMIO Scanner Modules, which insert directly into ControlLogix controllers & effectively make the Honeywell Process Manager I/O become native I/O for ControlLogix to monitor and control. 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:** Honeywell to ControlLogix Control Strategy Library, Configuration Conversion Services, Honeywell PMIO Scanner

**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 Engineering Workstations and remaining obsolete controllers and I/O with the PlantPAx Distributed Control System. You can connect existing field devices to this new system with legacy termination panels and custom cables which will reduce your project’s commissioning time and overall cost. 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: Honeywell to ControlLogix Control Strategy Library, Custom Cables for Terminator 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

For more information
Visit us at Rockwell Automation DCS Migration or contact your local Rockwell Automation Sales office or authorized Allen-Bradley distributor.

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.
Honeywell TDC 3000® PMIO Scanner for Direct Connection to ControlLogix

- **Phased Migration Tool** (often phase 2)
- Fits directly into ControlLogix 1756 backplane
- Shadow mode (read only) to verify PlantPAx connections to I/O
- IOLink redundancy supported, I/O status and diagnostics included
- Connects in just minutes
- I/O modules supported: HLAI, AO, DI, DO
- Preserve existing field wiring terminations
- Built, marketed & sold by Encompass Partner Aparian
- Easy configuration: Slate configuration tool
- Make commissioning & startup tasks easier, less risky, and less costly

Honeywell FTA Cables for Direct Connection to ControlLogix I/O Modules

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Honeywell FTA 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 less costly

Products can be purchased at microplex-inc.com.