



**Bailey System Migration
to Experion PKS**



Adapting to changing process control technology can be a challenge as companies weigh the cost of migration against the benefits that an upgraded control system can offer. In order to maximize productivity and reduce maintenance and lifecycle costs, many companies are upgrading their aging systems to Honeywell's Experion® Process Knowledge System (PKS), the only process automation system designed to unify business, people, process and assets. Experion takes process automation well beyond distributed control system (DCS) functionality with an advanced automation platform solution and innovative application integration designed to improve business performance.



Honeywell's migration solution for Bailey systems is designed to protect your investment

in your existing system while enabling the additional benefits that Experion can provide. With Honeywell, you can choose the migration path that meets your business requirements. Our solution allows you to migrate your Bailey consoles first to preserve the Bailey controllers, then replace those controllers while preserving field terminations, or fully replace your Bailey control system. Honeywell offers exceptional services to achieve your goals. Operational and business benefits from migrating to Experion include:

- Increased operator effectiveness utilizing the power of Honeywell's innovative web-based display technology and creating a common interface, regardless of whether data originates from a Bailey controller or an Experion controller. These displays support building graphics to manage abnormal situations
- Increased process efficiency by replacing Bailey controllers with Honeywell's C300 controller with embedded advanced control functionality. Experion controllers can be added at any time and will co-exist with Bailey controllers
- Effective batch management with Experion's embedded batch capability and access to advanced capabilities
- Seamless HART integration by replacing the Bailey I/O slaves with the Honeywell Series C I/O, while still retaining existing wiring terminations
- Improved reliability with security at every level, with redundancy for the I/O modules, controllers, operator stations, and servers, and uninterrupted control with Honeywell's Fault Tolerant Ethernet network
- Increased communication, throughput and openness by replacing your Plant Loop or Super Loop with Honeywell's Fault Tolerant Ethernet

Benefits of Migrating to Experion:

- 30% reduction in maintenance costs
- Up to 40% reduction in batch cycle times
- 3-6% production increase and 2-3% reduction in costs due to improved business agility
- 40% reduction in operator-related incidents
- 98% on time and on budget project completion
- Up to 50% reduction in alarms using operator performance tools
- Up to 50% better return on investment over alternative offerings due to Honeywell's automation lifecycle approach
- 75% savings when using Honeywell migration kits over traditional migration approaches

"The migration project was a terrific team effort by Honeywell and Wintershall. We are very happy with the results, and with the passage of time and further integration efforts we expect to realize more and more benefits such as time efficiency, increased platform performance and reliability, ease of maintenance and cost reduction."

—Hans Reijn, Facility Engineer, Wintershall

Phased migration solutions protect system investment and improve performance.

Increase Operator Effectiveness and Improve Performance

In a multi-phase migration, the first step is typically to upgrade the operator stations to improve the effectiveness of your operators. The Bailey controllers are made an integral part of the Experion system.

The proprietary Bailey consoles are replaced with web-enabled Experion stations. The Experion user interface reads and displays Bailey function block configurations through pre-built detail displays and faceplates that are both familiar to operators and allow for

a smooth transition to advanced functions. All standard Experion features, such as event reporting, history collection and enhanced alarming are available to these Bailey points. Experion permits Bailey data access from any Experion user interface, from high-level applications to a variety of standard interfaces.

The Bailey controller points are conveniently configured using a bulk-build utility. Templates exist for common Bailey point structures

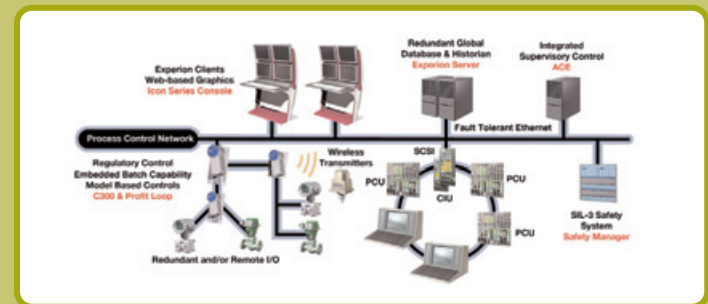


and can be easily customized to meet your needs. The point structure is also preconfigured to call up the correct faceplate and point detailed display on the operator station.

Experion takes process automation well beyond distributed control system (DCS) functionality with an advanced automation platform solution and innovative application integration.

Experion PKS

- Field operator solutions
- Operator performance solutions
- Digital video management
- Plant asset management
- Multivariable control and optimization
- Plant data warehouse
- Integrated process and industrial security
- Business optimization tools
- Secure, read-only displays



Rewiring Tasks	Using Honeywell Migration Kits
Disconnect old terminations	Install migration kits & new Series C I/O
Remove old Bailey FTU	Connect cables
Install new Series C I/O	Save almost 75% on labor
Rewire	

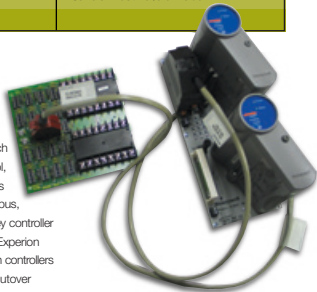
Full Experion System Migration is Easy

Replacing the Bailey controllers with the Experion C300 controllers enables improved process performance with embedded batch functionality and advanced control, and field network communications such as HART, FOUNDATION fieldbus, DeviceNet and Profibus. The Bailey controller configuration is transformed into Experion function blocks. Once the Experion controllers are configured and installed, the cutover from Bailey to the Experion system can be accomplished at your own pace.

Retain Wiring Investment and Replace Aging Bailey I/O

When replacing your controllers, you can retain your wiring investment by keeping your Bailey field termination units (FTU) in place—a new cable connects them to the Series C I/O and an intermediate panel is used when the signals need to be reorganized.

Installing Honeywell's Bailey I/O migration kits saves time and money during the migration process by minimizing the impact of the migration and providing the ability to



migrate to more powerful platforms with the least amount of disruption. Installing Honeywell's migration kits saves almost 75 percent on labor costs compared to rewiring, minimizing downtime.

Access Your HART Information

Many plants connect HART devices to their Bailey analog input and output cards. The HART signal is read by a handheld device or a separate system. Using Honeywell migration kits and Experion HART I/O modules, the HART signal can be read by the system without removing the wiring from the Bailey termination unit.

When the cable is connected to the Experion Series C HART I/O termination assembly and there is a HART device connected to the field wiring, the HART information is automatically integrated with the Experion system.

The Lifecycle Management Approach

Honeywell's extensive migration capabilities help you ensure a successful implementation. With collaborative evaluation, planning and execution, we can help retain your valuable intellectual property, identify opportunities for business improvement and devise an implementation plan that minimizes risk and maximizes system lifecycle. This approach includes:

- Evaluation of automation goals with an audit of the current system and process
- Recommendations for HMI and effective operator displays
- Recommendations for hardware migration and protecting current installation investment
- Personnel training and implementation plans
- Optimization and integration recommendations

For More Information

To learn more about Honeywell's migration solutions, visit www.honeywell.com/ps or contact your Honeywell account manager.

Automation & Control Solutions

Process Solutions
Honeywell

2500 West Union Hills Dr.
Phoenix, AZ 85027

Tel: 877.466.3993 or 602.313.6665

www.honeywell.com

Honeywell