

Upgrading Foxboro Systems to Experion



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 costs, many companies are upgrading their aging systems to Honeywell's Experion. Experion provides an easy, phased migration from Foxboro systems.

Experion Benefits

Honeywell's Experion® Process Knowledge System (PKS) is the only process automation system designed to unify business, people, processes and assets. Experion takes process automation well beyond distributed control system (DCS) functionality with an advanced automation platform and innovative application integration designed to improve business performance. Benefits of migrating to Experion include:

- 30% reduction in maintenance costs
- 1-4% increase in production due to process optimization
- Up to 40% reduction in batch cycle times
- 3-6% production increase and 2-3% reduction in costs due to business agility



Honeywell's Icon Series Console is an element of system migration.

- 40% reduction in operator-related incidents
- 98% on time and on budget project completion
- Up to 50% reduction in alarms
- Up to 50% better return on investment over alternative offerings due to Honeywell's lifecycle approach

Phased Migration

Honeywell's migration solution for Foxboro systems is designed to take advantage of your investment in the existing Foxboro system while enabling the additional benefits that Experion can provide. With Honeywell, you can choose the migration path that meets your business requirements.

Honeywell allows you to migrate your Foxboro consoles first to preserve the Foxboro controllers, then replace Foxboro controllers or fully replace your Foxboro control system. Honeywell supports phased migrations with human machine interface (HMI) replacement as well as complete controller replacements, depending upon your timing. Operational and business benefits of migrating from Foxboro to Experion include:

- Increased operator effectiveness with Experion stations, utilizing the power of Honeywell's innovative web-based display technology and creating a common interface, regardless of whether data originates from a Foxboro controller or an Experion controller.
- Increased process effectiveness by replacing Foxboro controllers with Honeywell's C300 controllers with embedded advanced control functionality. Experion controllers can be added at any time and will coexist with Foxboro controllers.
- Effective batch management with Experion's embedded batch capability in the C300 controllers and access to advanced capabilities.

- Simpler and intuitive logics could be built in Experion using function block concepts that help engineers understand the logic flow better, increasing the ease of maintenance.
- Improved reliability with security at every level, redundancy for the I/O modules, controllers, operator stations and servers, and a robust network with Honeywell's Fault Tolerant Ethernet providing uninterrupted control.
- Increased communication, throughput, reliability and openness by replacing your plant network with Honeywell's Fault Tolerant Ethernet.

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

The proprietary Foxboro consoles are replaced with web-enabled Experion stations. The Experion user interface reads and displays Foxboro function block configurations through pre-built detail displays and faceplates that are 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 Foxboro points. Experion permits Foxboro data access from any Experion user interface, from high-level applications to a variety of standard interfaces.

The Foxboro controller points are conveniently configured using a bulk-build utility. Templates exist for common Foxboro 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® is a registered trademark of Honeywell International Inc.

More Information

For more information on Honeywell's migration solutions, visit www.honeywell.com/ps, or contact your Honeywell account manager.

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

Honeywell's Lifecycle Management Approach

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

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