

Migrate from PROVOX to Experion



Adapting to changing process control technology can be a challenge as companies weigh the cost of migration against the additional 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 PROVOX systems is designed to take advantage of 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 PROVOX consoles first to preserve the PROVOX controllers, then replace PROVOX controllers or fully replace your PROVOX control system. Honeywell supports phased migration (HMI replacement) as well as complete replacement (controller replacement) with your interest and priorities in mind. Honeywell ensures a low-risk transition and exceptional services to achieve your goals.

Operational and business benefits from migrating 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 PROVOX controller or an Experion controller. These displays support building graphics that help manage abnormal situations.
- Increased process effectiveness by replacing PROVOX controllers with Honeywell's C300 controllers with embedded advanced control functionality. Experion controllers can be added at any time and will coexist with PROVOX controllers.
- Effective batch management with Experion's embedded batch capability in the C300 controllers and access to advanced capabilities.
- Simpler and intuitive logic can be created using Experion function blocks that help engineers understand the logic flow, increasing the ease of maintenance.
- Improved reliability with security at every Experion 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.

Benefits of Migrating to Experion

- 30 percent reduction in maintenance costs
- 1-4 percent increase in production due to process optimization
- Up to 40 percent reduction in batch cycle times
- 3-6 percent production increase and 2-3 percent reduction in costs due to business agility
- 40 percent reduction in operator-related incidents
- 98 percent on time and on budget project completion
- Up to 50 percent reduction in alarms using operator performance tools
- Up to 50 percent better return on investment over alternative offerings due to Honeywell's lifecycle approach

Why Migrate from PROVOX to Experion

- Experion has all the benefits of a true DCS and helps plants deliver more benefits
- Experion scales easily from a single unit to the largest facility as a single system
- Embedded batch capabilities provide a robust solution for batch sites
- Transparent redundancy at all levels in Experion
- Broad communication capabilities in Experion

Increase Operator Effectiveness

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

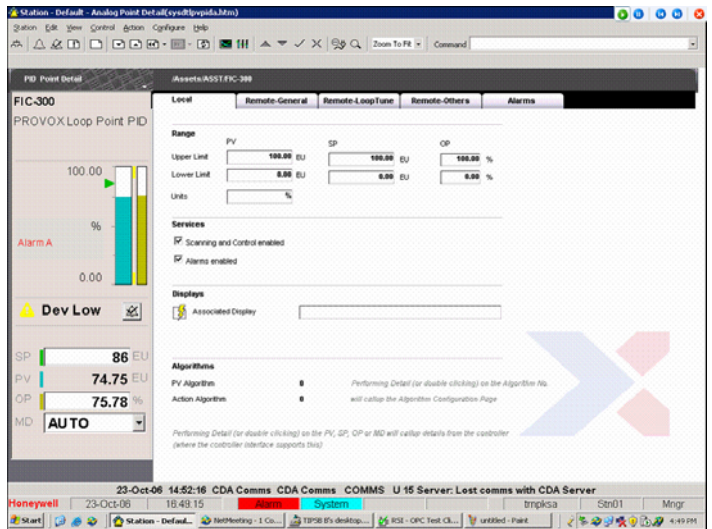
The proprietary PROVOX consoles are replaced with web-enabled Experion stations. The Experion user interface reads and displays PROVOX function block configurations through pre-built detail displays and faceplates that are both familiar to operators and allow for a smooth transition to advanced functions. All standard Experion features, such as event reporting, history collection and enhanced alarming are available to these PROVOX points. Experion permits PROVOX data access from any Experion user interface, from high-level applications to a variety of standard interfaces.

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

Full Experion System Migration is Easy

Replacing the PROVOX 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 PROVOX controller configuration is transformed into Experion function blocks. Once the Experion controllers are configured and installed, the cutover from PROVOX to the Experion system can be accomplished at your own pace.

Rewiring Tasks	Using Migration Kits
<ul style="list-style-type: none"> Disconnect old terminations Remove old PROVOX field termination unit Install new Series C I/O Rewire 	<ul style="list-style-type: none"> Install migration kits and new Series C I/O Connect cables <p>Save almost 75% on labor</p>



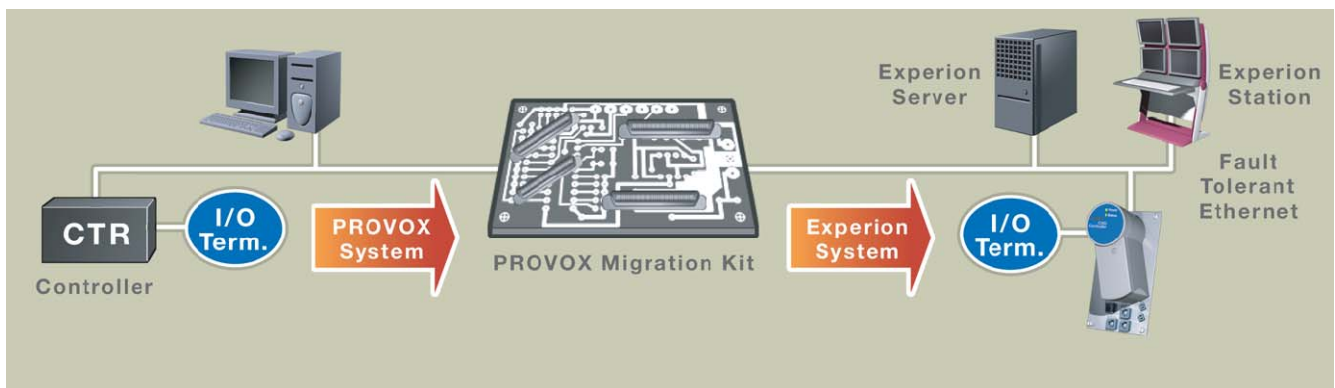
Experion detail display showing integrated PROVOX points

Retain Wiring Investment and Replace Aging PROVOX I/O

When replacing your controllers, you can retain your wiring investment by keeping your PROVOX field termination units 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 PROVOX 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 about 75 percent on labor costs as opposed to rewiring, minimizing downtime.



Full migration requires only one or two cables and an optional panel.

Honeywell's Lifecycle Management Approach

Honeywell's extensive migration experience and capabilities help reduce the risk of system migration 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 effective operator displays
- Recommendations for hardware migration and protecting current installation investment
- Personnel training and implementation plans
- Optimization and integration recommendations

Experion® is a registered trademark of Honeywell International Inc.

More Information

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

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