

Universal Station and GUS Migration to Experion



"We had to find a way to upgrade our system into next-generation technology in order to continue to increase performance and maintain minimal downtime at our plant. Honeywell's Experion provided the perfect migration path at our state-of-the-art production facility to help manage all our business, processes and assets in one unique system."

Hyun Cho, General Manager, SKC Chemicals

Migrating to Experion

Honeywell's Experion[®] Process Knowledge System (PKS) is the only process automation system designed to manage your business, processes and assets in one innovative automation platform. A complete, robust, collaborative production management solution, the Experion unified system architecture integrates advanced applications that work together across your entire facility. Knowledge-driven applications and diagnostics tools capture, manage and share organizational knowledge to help you make better decisions faster, improving productivity, safety and profitability.



Console migration configurations include hardware options for operator stations, including the Icon Series console.

Honeywell's approach to migration demonstrates our commitment to protecting your investment by integrating innovative technologies with your existing installation. The open and scalable architecture of Experion enables operational integration with TDC, TPS, PlantScape[®] and third-party DCS systems.

Honeywell's Console Migration simplifies the first steps towards system migration. This offering includes a set of standard hardware and software configurations that form the foundation for a systematic and phased migration approach. Together with recommended services, this approach helps to ensure a successful migration and enables you to start reaping the benefits of an integrated automation platform and advanced applications.

Key Console Migration Features

- Flexible configurations
- Options for installation services
- Options for graphics conversion
- Options for enhanced operator effectiveness

Configuration Considerations

Experion supports an optimal and efficient operator view of the system. Available configurations include hardware options for operator stations, including the Icon Series console with large flat panel displays. This console provides an ideal platform for the Experion Station-TPS (ES-T) software. The ES-T supports the Experion view with HMIWeb technology, and the current view through Native Window and GUS display support, ensuring the ability to access your current process control system. An ES-T can be supplied in Icon, Classic, EZ, or Z console configurations.

Service Options

Installation and graphics conversion services are key to successful console migration. Honeywell provides flexible options as you develop your migration plan. With the new or upgraded operator stations, you have the ability to utilize both your existing Native Window and GUS displays in addition to Experion HMIWeb graphics. Honeywell offers a service to analyze and convert your current graphics to HMIWeb technology-based graphics. Since your Native Window and GUS displays are still available from the ES-T, we will typically recommend an initial conversion of a subset of your graphics library that are most used in your daily operations. Honeywell has developed a graphics philosophy and conversion standard in the form of a toolkit that includes graphics libraries that produce Abnormal Situation Management® (ASM)-compliant graphics. In addition to graphics conversion, Honeywell offers a set of installation services tailored to your requirements.

Optional Tools

There are several optional tools available to consider when migrating consoles.

Honeywell's Operations Logbook software facilitates communication across shifts and with management. Functionality includes shift reporting, operator comments and tasks lists. The benefits of the Operations Logbook include improved reliability as shift turnover is smoother and opportunity for error is reduced. Through Electronic Shift Log, the operator is able to enter comments and observations via freeform text that is easy to enter and easy to locate. Shift reporting is facilitated through consolidated shift information that can include comments, business plan and key operations data. In addition, operators are able to manage tasks and work lists for the shift, the day and the business area.

Honeywell's **eServer** software provides Internet Explorer access to process data and control graphics in a view-only mode and enables key decision makers to access real-time process information.

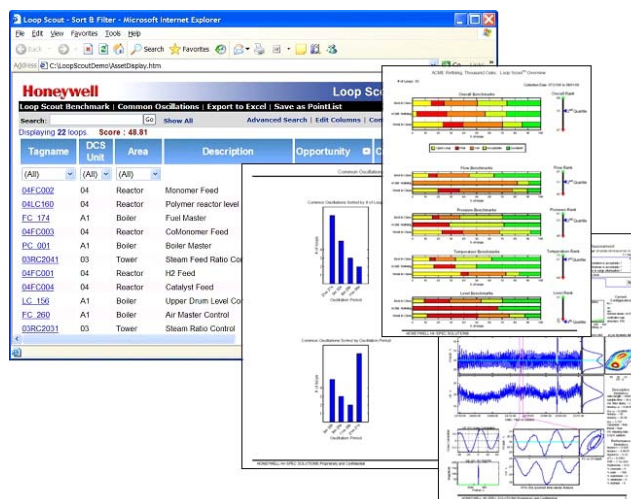
Asset Manager is a knowledge-driven, continuously monitoring, collaborative decision support system that helps you to better manage field devices, control loops, advanced process controllers and process equipment.

Alarm Management Options

Alarm management is a key function within any process control system and Honeywell offers a number of options to improve alarm management.

Experion includes innovative alarm and event management capabilities, including the ability to present, sort and filter Experion, TPS and third-party (OPC) alarms and events, plus sorting operator comments and displaying alarm help text.

Honeywell's **Loop Scout™ Service** is a one-year event and loop monitoring service that operates across any control system, both Honeywell and non-Honeywell. The service deploys site-wide or corporate-wide, providing consistent formatting. This service collects system, alarm, operator intervention and configuration change events and highlights opportunities to improve alarming and points demanding operator attention. Loop Scout measures progress toward system management goals through alarm and change statistics. Offered as an option, the Loop Scout Service can be selected initially, or added at any time. Based on the initial alarm performance benchmark and the Loop Scout Service, the need for improving your alarm system can be identified and next steps outlined.



Loop Scout monitors loops and alarms to identify problems, resulting in improved system performance.

The recommended path forward starts with the **Alarm Philosophy Workshop**. This workshop is designed to provide guiding principles, benchmarks and a better understanding of alarm management. Outputs from the workshop are a draft alarm philosophy for your site and a project plan for improving your alarm system.

Alarm Rationalization Services use the output from the Alarm Philosophy Workshop and Loop Scout to implement an improved alarm and alert system. Honeywell, in conjunction with your plant personnel, will institute best-in-class management of change procedures for the alarm and alert system, and review and modify current alarm settings so that they are in compliance with your alarm philosophy.

Alarm Configuration Manager is a software solution that helps prevent alarm system performance degradation. It also enables mode-based alarming through its documentation and rationalization functions, assisting in optimizing alarm system support for the operator. This tool provides the capabilities to create and maintain the master alarm database that contains the alarm configuration. Capabilities include:

- Establishing unique alarm configurations for each plant operating mode
- Importing existing alarm configurations
- Configuring various monitoring choices and enforcing the alarm configuration
- Assisting the process operator in monitoring and enforcing the configuration
- Tracking, documenting and managing alarm system changes

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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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Additional Operator Effectiveness Options

Beyond the initial graphics conversion, Honeywell offers options to redesign the operator display to incorporate ASM Consortium best practices. These options include:

- **ASM Operator Display Design Study** - displays are redesigned to conform to ASM operator display best practices.
- **ASM-Compliant Graphics Service** - outputs of the above study are put into practice in the implementation of ASM-compliant graphics.
- **ASM Workshop for Operators** - Operators are trained to best use the new displays for improved operations with sessions on navigating the improved display hierarchy, managing the process during normal operations, responding to alerts and managing abnormal situations.

Other products and services are available to help reap the benefits of your Experion migration. For example, the following Honeywell offerings help improve the overall effectiveness of your operators:

- Integrated digital video management to improve safety
- Operations Management Pro software and implementation services (for multi-unit migration)
- KPI Manager software to measure business performance
- Operations Monitoring and Instructions software monitors process plant performance against targets and limits
- Boundary Manager software to keep your plant operating within safe limits
- Automation Change Manager software helps improve management of automation systems by bringing together configuration data from automation hardware and software applications into a centralized database