

Migrating Moore APACS to Experion



Experion® integration with the Moore APACS subsystem is achieved via a native driver, opening your legacy system to a wealth of solutions with a more robust HMI integration.

Experion Benefits

Honeywell's Experion Process Knowledge System (PKS) is an unmatched control solution for the diverse business demands required in today's automated industrial environment. Combining the integrated architecture and functionality of a Distributed Control System with the affordability and scalability of a PLC, Experion improves operations, saves time, and optimizes efficiency while preserving your installed automation investment.

The unique scalability of Experion provides functionality as a human machine interface (HMI) as well as supervisory control for geographically distributed sites. With its patented Distributed Server Architecture, multiple Experion systems can operate as one system, without any duplication of engineering effort.

Experion is delivered ready to use. Operation begins as soon as point and hardware configuration is complete. No further system building is required. Automatically generated system displays provide a complete infrastructure that includes advanced alarming, history collection, trending, security and reporting, all fully integrated as one system.

Why Migrate

With the development of the Moore APACS native driver, Honeywell provides an easy migration path to Experion. Integration is achieved by simply adding the Experion server to the existing architectural infrastructure. Controllers, I/O processors, and field wiring are all left intact.

Compared to the Dynamic Data Exchange (DDE) approach found with the legacy APACS system, Experion's native driver provides direct real-time communication between APACS and the Experion data cache through either standard Ethernet or the proprietary APACS Modulenet protocol. Experion is in direct control of the communications and can determine the status of communication occurrences. If the channel is experiencing degraded or failed communications, Experion will reliably report the condition through the Experion alarm subsystem for operator action.

In contrast to the APACS HMI, Experion provides automatic control verification without the need for custom code or script. When an operator initiates a command to the controller, such as a set point, output, or mode that does not result in the required action, the operator is immediately notified and failure processing occurs.

A control timeout feature, standard with Experion, provides an automatic watchdog to ensure that control actions are completed within a certain time-out period. For example, if an operator changes a temperature set point, Experion will automatically take failure action if the temperature has not been reached within a configured time limit.

Experion includes a configurable parameter for control confirmation prior to executing supervisory control actions, thereby avoiding improper actions.

All communication with the integrated APACS system is carefully monitored and displayed on standard Experion communication status displays.

Statistics are collected for the overall communications channel (Modulebus) and on a per controller basis. During communication upsets, it can be determined if the problem is specific to a single controller or affecting access to the entire communication bus. The communication barometer can be tailored for each communication channel and controller by compensating for varying communications error rates.

Experion monitors each output parameter for external changes. If a maintenance engineer in the field inadvertently changes a loop set point, Experion will automatically raise an external change alarm for the operator.

There are many reasons to migrate from APACS to Experion, most importantly, improved business performance and peace of mind.

For More Information

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

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