Honeywell Hiway Migration: “Evolution Vision” Protects Investments While Modernizing Control Technology

Honeywell customers can take advantage of proven solutions to modernize their legacy TDC 2000 Hiway system with the latest Experion® PKS technology, while protecting intellectual property, maintaining physical infrastructure, avoiding costly downtime and extending the value of installed assets.

Controls modernization achieves a more flexible production platform, which is the key to greater productivity and profits.

Since the TDC 2000 Hiway system was first introduced in 1974, Honeywell customers have enjoyed unprecedented support. Users of these systems can take advantage of the latest control innovations without compromising their existing investments.

Honeywell is dedicated to multi-generation co-existence of DCS equipment, as well as a secure path to technology modernization.

Seamless Migration Strategy
Honeywell’s migration strategy for the Hiway installed base includes proven solutions to help protect intellectual property, maintain physical infrastructure, avoid costly downtime, and extend the value of installed assets.

At the heart of our strategy is multi-generation co-existence of distributed control system (DCS) equipment. We enable tight integration with multiple generations of systems while retaining your intellectual property in native graphics and advanced control applications.

Honeywell supports seamless integration of TDC 2000 and TDC 3000 systems with the Experion® Process Knowledge System (PKS) architecture. An open migration path allows modernization with new standards-based, regulatory-supportive functionality. Plus, collaborative software technologies enable integrated operation from the field through the plant to the business level.

Secure Path to New Technology
Honeywell solutions for Hiway migration include several key offerings:

- Experion Hiway Bridge (EHB) intended to migrate Hiway assets to state-of-the-art C300 controllers while retaining crucial applications and graphics
- Universal Horizontal I/O (UHIO) employing a new, documented Hot Cutover Process, which allows users to migrate Hiway Controllers to C300 on a live process while retaining wiring and cabinets
- Hiway Power Supply Replacement, designed to utilize existing Series C power supplies
With Honeywell’s unique migration approach, plants can utilize Universal Hiway I/O as part of a secure hot cutover process, whereby the control system is migrated while operations remain live. This includes the ability to cutover eight loops at a time without a process shutdown — a significant industry first!

Honeywell users can migrate Hiway Controllers to the latest C300 Controllers on a live process while retaining wiring and cabinets.

For a hot cutover, control is transferred from the Basic Controller to the Reserve Controller. After this is done, the Basic Controller can be removed. The UHIO can be inserted into the same space as the old Basic Controller using the same power bars. This TCB stays in place and cables connect to the UHIO.

A Standby Manual Station is used to hold the outputs while transferring control from the Reserve Controller to the C300. Once the C300 is in place, all the benefits of Experion are available to the user.

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