TDC 2000 | TDC 3000

Universal Control Network| UCN

Distributed Control Systems
for Industrial Automation

Honeywell

Product PDF
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Migrating from TDC 2000 Data Hiway

Since its introduction in 1975, Honeywell has protected your investment in TDC 2000 technology by providing an easy upgrade path to the latest control system technology without having to scrap your legacy hardware and software.

By migrating from your present TDC 2000 system to Experion, you enter another dimension of process control.

Honeywell provides two services to help with migration: Signal Match and Control Match.

Signal Match is a suite of hardware assemblies and project services that easily transfer the I/O connections of your existing TDC 2000 vintage control system over to Experion equipment.

Control Match is a suite of services that translates your existing control algorithms and schemes to Experion, giving you access to the many new capabilities in Experion and providing the ability to make more informed business decisions.

Why Migrate to Experion

With goals for increased productivity and decreased maintenance costs, many companies are looking to Honeywell's Experion® Process Knowledge System (PKS) as a path to the newest technology. Experion is the only process automation system designed to manage your business, processes, and assets in one unique system.

System Assessment

In order to determine the most efficient and cost-effective migration strategy, Honeywell offers a system assessment of each customer's specific requirements.

The assessment 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
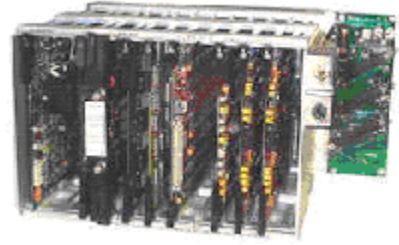
Getting Started

The first step in migrating your current system is to call Honeywell for a system assessment. Based on the results of the assessment, we will provide an estimate of the timing and costs involved so you can implement a migration plan that works best for you. We can also provide suggestions on how to fund your migration over time.

For more information, contact your Honeywell account manager or send an e-mail with details about your current system and migration needs to: **Honeywell Services**

Basic Controller

Introduced in 1975, the Basic Controller was part of the world's first commercially available DCS and has been continuously supported by Honeywell ever since.

When a control system needs change and it makes economic sense to replace existing controllers, Honeywell helps facilitate migration to Experion. For migration, two key functions are required--the existing field signals must be easily and quickly moved to the new control system and the existing control schemes must be migrated and preferably improved. To address these two migration needs, Honeywell provides advanced solutions that help match the old system functionality to Experion.

Signal Match is a suite of hardware assemblies and project services that enable the I/O connections of your existing TDC 2000 control system to be simply and easily transferred so you can experience the many benefits of Experion PKS.

Control Match is a suite of services and tools that can translate your existing control algorithms and schemes to Experion. Control Match allows you to take advantage of the many new capabilities in Experion, enhancing your control system's performance and improving your ability to make informed business decisions.

FAQs

Q: What if I need to do more than just maintain what I have?

A: For the past 30 years Honeywell has made significant investments to ease technology churn and add increased value to the large installed base of TDC and TPS control systems. Continuous evolution is Honeywell's strategy and commitment to stay with our customers through technological advances. As an example, Honeywell is the only controls company that provides the ability to integrate and, if desired, migrate 30-year-old control systems to the latest state-of-the-art control system, Experion PKS.

Honeywell provides the ability to integrate or migrate to Experion. By integrating, you preserve your intellectual property developed over the past 30 years and can add new functionality such as Foundation Fieldbus, HART and Abnormal Situation Management capabilities. By migrating, you achieve additional benefits from the lowest level of control through today's new higher level advanced control schemes while reducing ongoing maintenance and support costs.

Q: What is Experion PKS?

A: Experion PKS is the first scaleable platform with knowledge-driven applications unifying business and manufacturing intelligence.

Operator Effectiveness Solutions - Honeywell is the only supplier providing integrated solutions that address alarm management, boundary management and operations management to improve operational reliability. Asset Effectiveness Solutions - Honeywell's approach to Asset Management is more than field device management. We monitor performance of critical plant assets to mitigate process downtime and unplanned maintenance expense.

Q: I have 1-for-8 controller redundancy in my currently installed control system. What type of redundancy will I have available when I migrate to Experion?

A: Redundancy will be improved to 1-for-1 when you migrate to Experion. This new level of redundancy greatly improves the availability of the control system.

Q: I currently have several Basic/Enhanced Operator Stations as my primary operator interface. Will I still

have multiple databases to maintain when I migrate to Experion?

A: The database management problems of the past will no longer be an issue. Experion provides one easy-to-manage database for all data types.

Q: Will I have trending comparable to the existing BOS/EOS box trending?

A: Box trending is a limited snapshot of the process variable and can only be updated with operator intervention. Experion trending goes far beyond box trending and provides truly useful history information to the operator for analyzing and controlling the process. All trend data is presented to the operator with the capability to zoom, pan and select specific trend data in real time. Data points to be trended can also be selected and grouped together to facilitate real-time process analysis.

Q: I need to improve/automate my reporting to meet new requirements. Will the migration to Experion help me?

A: In addition to the larger number and type of reports available, a key feature is the ability to have the reports electronically transmitted via the plant network to all interested parties. No longer will you need to have an operator or engineer manually read the printed reports, perform additional calculations and then create new reports. Additionally, all data can be automatically populated to an Excel spreadsheet so that data manipulation, analysis and distribution can be automated.

Q: What kinds of new control capabilities will I have when I migrate to Experion?

A: Experion provides improved control capability such as model-based controls, integrated loop and logic capability for improved process constraint control. Cross-unit controls are implemented in easy-to-use software versus the hard wiring between controllers that was required in the past.

Q: Can I simply "copy" my existing control schemes over to Experion without making any changes?

A: Control Match services are available that simply duplicate the controls in your existing system into Experion. All point types and standard algorithms of the Basic Controller can be easily migrated.

Q: How quickly can the physical migration to new controllers occur at the plant/mill site?

A: The typical time for the physical migration to occur is 2 to 4 hours, even less to migrate a small system. There are two reasons for the short downtime. First, the migration kit is a plug-and-play design. Just disconnect cables, remove a few screws per assembly, install new assemblies, connect or reconnect cables, and you are physically done. The second reason is that I/O checkout can be quite efficient. All the existing I/O and cables were operational and correct before the migration and the new cables and assemblies are tested and verified in the factory before shipment.

Q: I have limited free floor space available so will I need additional cabinet space for the new Experion controllers?

A: In most cases the new control system can be mounted into the existing TDC 2000 cabinets.

Q: Are calibration and test points available for ongoing maintenance?

A: Yes, calibration and test points are provided.

Q: Do the migration kits have any active components on them such as CPUs and networking?

A: No. All Signal Match migration hardware is created using passive components. This greatly increases reliability and longevity, and reduces the number of possible fault paths.