

Upgrade from TDC and TPS to Experion



Honeywell protects your investment in existing technology by offering an easy and low-risk upgrade path to the Experion® Process Knowledge System (PKS) without having to replace your entire legacy hardware and software system. With an enviable track record of delivering innovative solutions that integrate and add value to existing installations, we allow customers to upgrade at their own pace and with minimum possible disruption.

Commitment to Lifecycle Support

Honeywell allows you to continue to benefit from your investment in TDC 2000®, TDC 3000® and TPS while leveraging Experion

technology, allowing you to expand or transition your system to meet changing or growing business needs at your own pace. Honeywell provides several options for maximizing the return from your automation investments:

- Support for existing systems
- Upgrade older system hardware while maintaining

unified system infrastructure and human machine interface (HMI)

- Replace legacy systems in phases with upgrade services and kits
- Enhance system level capabilities of older systems without replacing controllers and process interface units

Enhance Your System

Experion has helped thousands of customers worldwide improve productivity and profitability. Experion transforms process control beyond traditional distributed control system (DCS) functionality by unifying people with process variables, business requirements and asset management. It is the only automation system that focuses on plant personnel and making the most of their knowledge.

In addition to protecting your automation investment, Honeywell is committed to protecting your people, plant and the environment. Experion's high security network architecture, integrated security features and open systems security services help protect your systems from cyber attacks and invasions. We help design the optimal network architecture to ensure safe connections to your business LAN when required, helping you optimize your entire supply chain.

TDC 2000, TDC 3000 and TPS customers can continue to improve their systems by adding the Experion Server and Station to the Local Control Network (LCN). The TPS points are automatically discovered and become part of the unified Experion database. This gives you the ability to unify your operations and take advantage of many business productivity enhancements:

- Improve operator effectiveness and Abnormal Situation Management® by adding the Experion Station
- Improve control by adding new advanced applications
- Expand your system by adding the C300 controller with embedded Profit® Loop advanced control and connectivity to multiple types of field networks
- Integrate process, security and building control to protect employees, assets and the environment
- Capture best practice operational knowledge with Experion Procedural Operations



Upgrading to Experion does not require the capital investment for replacing hardware such as controllers and I/O modules unless there is a customer-driven business case. Experion functionality, such as innovative alarming and trending capabilities, is available while you continue to support your Native Window or GUS displays in a fully integrated operator environment.

Increase Operator Effectiveness

Experion enables innovative features that improve the effectiveness of operators, such as intuitive alarm management, analysis tools and flexible trending. In a multi-phase upgrade, the first step is typically to upgrade the operator stations to take advantage of these benefits.

Upgrading TDC 3000 stations to the LCN-connected Experion Station offers a common Experion HMI connected to the existing LCN, reducing training and maintenance by keeping existing graphics, network, controllers and I/O in place. It provides direct access to the LCN with read/write data access and integrated alarm and events. Experion establishes logical console functions across all stations so operators can see other Experion Stations.

With Experion's ability to display the TDC 3000 Native Window, GUS displays and Experion displays from one station, no graphic translation is required. When the need arises, Experion provides the opportunity to create new HTML-based graphics that can strategically help improve control room safety and efficiency. Experion supports building or incorporating translated graphics that comply with the Abnormal Situation Management Consortium's guidelines for ergonomic displays.

Multiple options are available for upgrading the TDC 3000 HMI to Experion, including:

- Connect the Basic and Extended Controllers to Experion with the Data Hiway Ethernet Bridge, bringing in controller diagnostics, group and detail displays.
- Connect an Experion Server to the LCN to start providing Experion-level history for trends and reports. This enables future upgrades and expansion, including adding Experion Stations.
- After adding an Experion Server, upgrade Universal Stations and Global Users Stations to the Experion Station. Cost-

effective solutions are available to upgrade your hardware and software to the latest high-performance Experion Station hardware.

- Multiple upgrade options exist for replacing existing Universal Station furniture with your choice of target station platforms.

Training

Operator and engineering training solutions also support a low-risk transition to Experion. With hands-on training available through Honeywell's Automation College, attendees experience reduced errors and greater productivity.

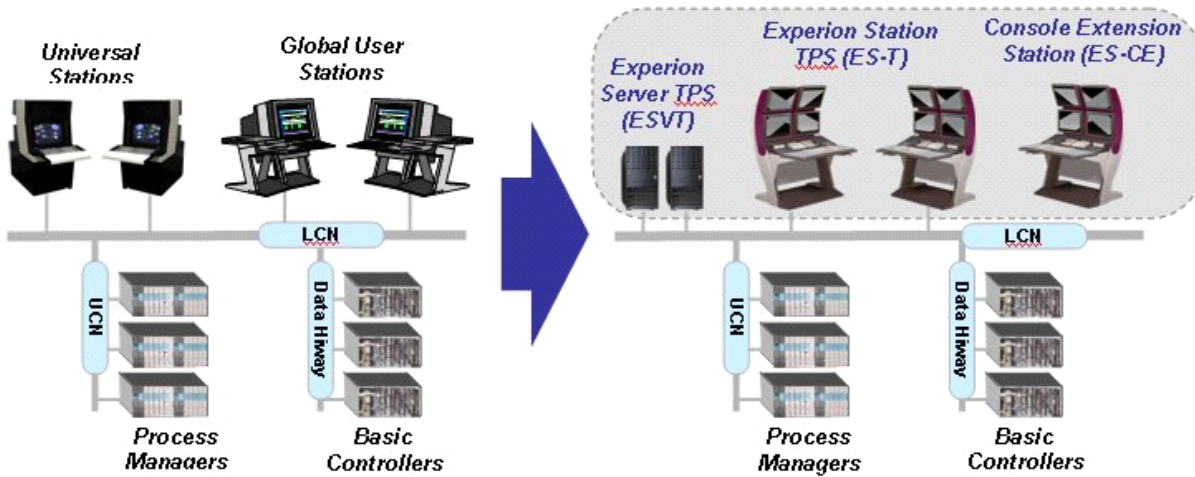
Honeywell's award-winning UniSim[®] provides innovative simulation solutions for operations, design and optimization. Integrated with Experion, these solutions help optimize the entire plant lifecycle and improve overall productivity.

Customers with current Solution Enhancement Support Program (SESP) contracts benefit from Honeywell's cost-effective kits and enhancements offerings to upgrade their systems.

Low-Risk Upgrades

Consistent with Honeywell's investment protection philosophy, Experion integrates with our controllers released with TDC 2000 and carries that same philosophy forward as new products are released. However, if your current controller functionality does not support your business strategy or is facing obsolescence, Honeywell's controllers offer a low-risk integration with most existing I/O. The Experion C200 and C300 controllers feature patented advanced process control technology embedded in the controller for quick execution and tighter control.

The Experion controllers integrate with existing PM I/O and Logic Manager I/O, leaving the I/O modules and field wiring untouched. Installing Honeywell's upgrade kits save time and money during the upgrade process by minimizing the impact of the upgrade and providing the ability to move to more powerful platforms with the least amount of disruption. Field wiring can remain in place, untouched, and become connected to an Experion system. Hardware upgrades last from a few hours to a few days, instead of the weeks required with rewiring, reducing labor costs and the possibility for human error.



Global Expertise and Local Service

Honeywell partners with you to help design an overall automation plan to align with your specific business goals. You can take advantage of Honeywell's global expertise to determine the best way to continue delivering value to your business while planning a multi-year approach to upgrading or expanding your existing installations.

Honeywell's extensive capabilities and experience help ensure a successful implementation. With collaborative evaluation, planning and execution, we can help retain your valuable intellectual property, identify opportunities for business improvement and devise an implementation plan that minimizes risk and maximizes system lifecycle. Our project services group offers comprehensive expert services to implement the plan and install equipment, designed specifically to ensure that database, graphic and other functional upgrades are accurate and cost-effective. This approach includes:

Rewiring Tasks – about 11 hours for 16 point I/O card	Using Wiring Kits – about 3 hours for 16 point I/O card
<ul style="list-style-type: none"> • Disconnect old terminations • Removal • Install new Series C I/O • Rewire from new terminal blocks to Experion • Documentation 	<ul style="list-style-type: none"> • Install intermediate panels and new Series C I/O • Connect cables • Documentation

- Evaluation of automation goals with an audit of the current system and process
- Recommendations for HMI and effective operator displays
- Network and cyber security design and implementation
- Recommendations for hardware upgrades, migration, control room design and protecting current installation investment
- Personnel training and implementation plans
- Optimization and integration recommendations

More Information

For more information on Honeywell upgrades and migration solutions, visit www.honeywell.com/ps or contact your Honeywell account manager.

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