

SOLUTION NOTE

Siemens Teleperm M Migration to the Honeywell Experion System



Now is the time to migrate your vintage Teleperm M system to the Honeywell Experion™ Process Knowledge System (PKS). Experion is a next-generation control solution that enables improved operations, increased incident avoidance, better decision-making, and enhanced workflows.



The cost of ownership for aging technology, such as the Siemens Teleperm M system, is on the rise.

The cost of spare parts is increasing, system support expenses continue to grow, and unplanned downtime due to equipment failures is an ever-present threat to your production efficiency – and profitability.

At the same time, older systems cannot meet corporate objectives for enterprise-wide sharing of business information. Nor do they provide the capabilities needed to meet customer demands for better product quality and improved regulatory compliance.

Now is the time to migrate your vintage Teleperm M system to the Honeywell Experion™ Process Knowledge System (PKS). Experion is a next-generation control solution that enables improved operations, increased incident avoidance, better decision-making, and enhanced workflows.

By offering the first true Process Knowledge System™, Honeywell helps customers improve their business performance and ensure peace of mind. Experion employs leading technology that is built on a secure Distributed Control System (DCS) architecture, providing integrated physical security, emergency shutdown and fail-safe controls. Experion helps your personnel make the right decisions, at the right time, with the least cost and downtime.

Benefits of Honeywell's Teleperm M migration solution include:

- **Ease of Integration** – Honeywell's unique phased migration approach allows Teleperm M users to implement the advanced Experion platform at their own pace.
- **Flexible Migration** – Experion controllers can be added at any time and will co-exist with your existing Siemens controllers.
- **Investment Protection** – Migration of Siemens subsystems and function blocks to Experion controllers can be performed whenever you decide.
- **Common User Interface** – Controller data has the same look and feel, regardless of whether the data originates from a Siemens DCS or Experion controller.
- **Intuitive Configuration** – Your user interface can be configured using standard Experion configuration tools.
- **Seamless Data Access** – Honeywell's Distributed System Architecture (DSA) provides seamless access to points, alarms, operator messages, history, etc., between Servers.
- **Scalable Architecture** – Users benefit from a single database with no duplicate configuration.
- **No Single Point of Failure** – Access is provided to all Siemens tags with Honeywell's OPC Redirection Manager, Fault Tolerant Ethernet and multiple Siemens OPC Servers.

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Migrate When – and How – You Decide

Honeywell offers a choice of migration options that let you choose when to integrate existing Teleperm M controllers, subsystems and data into the Experion platform – all while protecting your valuable investments and ensuring peace of mind.

Honeywell's phased migration strategy begins with Human-Machine Interface (HMI) replacement. You can implement our revolutionary HMIWeb technology to expand your view of the process and improve operator performance. In the next phase, you can upgrade your overall control system infrastructure – and still retain your existing Teleperm M controllers.

With a complete conversion, Honeywell's experienced project services team helps you take advantage of our hot cutover capabilities to minimize system downtime and ensure seamless integration of your current control assets.



Protect Your Existing Investments

Honeywell is known for continuous technology evolution that protects our customer's control system investments – such as our Teleperm M migration solution. This approach enhances your HMI replacement investment by taking the first step toward full implementation of the Experion controller platform.

By replacing your proprietary Siemens consoles with the Web-enabled Experion HMI, your operators can utilize HTML-based graphics, a helpful multi-window environment, and Honeywell's advanced SafeView window management application. The same graphics are viewable in a Web browser or Microsoft Outlook, with no exports needed. Remote access is also made easier via the Experion Server.

Additionally, Experion Stations provide state-of-the-art security and data handling functions – all with the affordability of open, off-the-shelf PC hardware.

Improve Operator Performance

Incorporating best practices developed by the Abnormal Situation Management™ (ASM) Consortium, Honeywell's Experion HMI helps you to improve operator performance – and reduce financial loss due to plant incidents. Experion utilizes powerful tools such as Honeywell's User Alert, Event Analyst and ProTrends to increase operator awareness of process conditions. This approach allows you to reduce errors and improve response time to process upsets.

With the Honeywell migration solution, existing operator process graphics are converted to Experion Station graphics in HTML format. This browser-based solution improves information availability with direct access to controller data from the Experion console. It also integrates supervisory controls and third-party advanced controls via an OPC-based Process Server global database and Honeywell's Distributed System Architecture (DSA).

Integrate Systems with Confidence

Honeywell employs OPC software to link Siemens data to the Experion system. The result: your Siemens controllers look just like Experion controllers to the Experion system – and to your operators. Users can access Siemens data from any Experion user interface through a variety of standard interfaces, including OPC Server, ODBC, DDE, SQL, Application Programming Interfaces and Microsoft Excel Data Exchange, with minimum configuration needed.

The Experion user interface reads and displays Siemens function block configurations through Siemens-oriented point detail displays and faceplates as if they were Experion controller function blocks. This enables the use of all Experion system standard controller features such as event reporting, history collection, and enhanced alarming. Siemens function block alarming can be retained and interfaced – the Experion enhanced alarming system can also replicate it. Optionally, both systems can be used together as one alarming system.

The Experion user interface provides easy view access to configuration parameters from Siemens controllers. Tuning parameters in these controllers can be changed from detailed displays. Graphics, alarm screens, point details and faceplates are easily customized to meet your particular needs.

Advance Your Control Capabilities

Honeywell makes it easy for users to fully migrate to the Experion control platform – Experion Controllers can be added at any time. The controllers are paired with redundant I/O to ensure robust, reliable control performance with no single point of failure. They also provide a redundant power option with optional backup power.

Experion Controllers offer Fault Tolerant Ethernet (FTE) and ControlNet options, and support migration of the user's existing Teleperm M controller database. The Siemens Teleperm M control configuration is extracted and subsequently converted to control modules.

For More Information

Learn more about Siemens Teleperm M Migration to the Honeywell Experion System, visit our website www.honeywell.com/ps or contact your Honeywell account manager.

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Migration to the Experion platform also preserves existing Teleperm M field terminations – delivering significant wiring cost savings.

Simplify Display Configuration

Honeywell ensures that display configuration for the Experion system is greatly simplified. Pre-built faceplates and point details mimic Siemens displays and provide access to the Siemens controller operating and tuning parameters. Your engineers can use the same graphic and data entry tools as the standard Experion displays.

Existing templates for most common point structures can be easily customized to meet your needs. Simply convert the Siemens point build file into Experion, bulk build or edit files, import the files, load the bulk build files, and the configuration is complete.

The point structure is also pre-configured to call up the correct faceplate and point detail display on the operator station.

Reduce System Startup Time

Honeywell designed its Teleperm M migration solution to reduce the time required for Experion system startup. The Experion Server provides the interface to the Experion engineering environment, and all configuration work can be completed prior to the actual installation of hardware. Once the Experion controllers are installed, cutover from the Siemens system can be done at whatever pace you decide.

Summary

Migrating to Experion from the Teleperm M platform provides you with the foundation for a true Process Knowledge System. Experion is the only Process Knowledge System designed to manage your business, processes and assets – all in one unique system.

