

# Experion Off-Process Solution

## Product Information Note

**The Experion® Off-Process Solution enables users to validate patches, upgrades and engineering changes in a controlled, secure, off-process environment, increasing plant reliability, safety and productivity.**

Industrial plants have a wide variety of control applications supporting their site and replicating these applications for use in offline test systems has traditionally been cost prohibitive. Experion PKS removes these barriers with the Experion Off-Process solution, enabling testing, development, and validation activities to be performed prior to deployment to a production system, while allowing extended access to engineering and configuration tools to increase site productivity.

Primarily used in combination with virtualization software, the Off-Process solution enables rapid setup and teardown of off-process systems, as well as easy configuration of multiple off-process labs on a single set of hardware. Multiple users can perform upgrade testing and engineering checkouts, without affecting each other's test results.

### Key Features

- Applicable anywhere in the plant for testing and development purposes.
- Offers licensing flexibility to create and use multiple instances of existing on-process Experion licenses.
- Includes a comprehensive "sandbox" license for testing of new functions.
- Includes a site-specific simulation license with simulated controllers equal to the number of licensed controllers.

### Adapting to changing conditions

Personnel resource constraints, a focus on keeping plants running and optimized, and shrinking budgets require innovative ways to enable rapid testing and verification of engineering and configuration changes ahead of implementation.

Separating testing activities from the online production system not only protects the system from potentially damaging or unwanted changes that are difficult to reverse, but also offers an environment for learning, engineering and experimentation with system features.

- **Simplify testing of patches and updates** - With the virtualized Experion Off-Process solution, any changes made to the Off-Process system can be saved or rolled back using snapshot functionality, greatly enhancing testing flexibility. In addition, multiple releases can be accessed simultaneously without additional overhead.



*The Experion Off-Process solution is designed to extend the benefits of Experion PKS systems. The active use of Off-Process systems for day-to-day system management and configuration activities increases overall plant reliability, safety and productivity.*

*Off-Process systems provide a great place to start applying virtualization technology while providing new levels of flexibility and resource utilization.*

- **Stop server proliferation and reduce infrastructure cost** - Rather than requiring multiple computer nodes, the entire virtualized Experion Off-Process system can be managed from a single server node. Virtualization effectively allows multiple applications and Experion node instances to share the same hardware platform and resources, without interfering with each other. If increased availability is desired, one or more server nodes can be added for load sharing or backup purposes, without the need for re-installing any software, thus enabling a future-proof infrastructure that grows with your plant.
- **Parallel engineering** - Accelerated deployment of changes often requires multiple teams to work together on the same system. The Experion Off-Process solution provides teams or individuals with the desired number of individual system instances where needed, allowing parallel deployment of changes without interference. By employing user-based licensing, rather than licensing per instance, test and development users have access to their own software instances while being protected from changes that other teams may be making.
- **Review and validate the benefits of virtualization for your site prior to general rollout** - Virtualization for Off-Process test and development activities provides an opportunity to review and learn how virtualization infrastructure can benefit your site.

- **Comprehensive virtualized Off-Process Solution providing you everything needed to get started** -Honeywell project engineering and services teams provide everything that is needed to ensure a fast and non-disruptive deployment while you focus on more important tasks at hand.

### How to get started

The Experion Off-Process systems can be installed using the Experion PKS media set or can be created by cloning an existing on-process physical Experion system using Experion Backup and Restore (EBR) and VMware virtualization software. There is no need to shut down the system while the cloning is taking place. Both options are supported, and detailed planning and implementation guidelines are part of this solution.

Virtualization is appropriate for all types of companies but is particularly well suited to medium to large businesses, including those with a large base of workstations and servers. For companies where the virtualization value proposition is compelling, virtualized systems can be implemented gradually where needed. Manufacturing facilities can start small, building their confidence in virtualization technology and processes, and then grow from there.

Honeywell will provide and support all required hardware, virtualization software and Experion licenses to get you up and running with Off-Process systems for your site immediately.

### For More Information

To learn more about Honeywell's Virtualization solutions visit [www.honeywellprocess.com/virtualization](http://www.honeywellprocess.com/virtualization) or contact your Honeywell Account Manager.

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