Open Virtual Engineering Platform (Open VEP)
A Connected Environment to Optimize Project Outcomes
Today’s Project Demands

Industrial organizations have a growing need to implement a robust, cloud-based environment supporting collaborative processes for widely dispersed engineering groups. Early integration of expert knowledge can considerably reduce engineering time, while enhanced interaction between project team members drives innovative solutions to improve system design and minimize the number of late changes.

Open Virtual Engineering Platform (Open VEP)

Honeywell’s Open Virtual Engineering Platform (Open VEP) is a secure, and reliable Hybrid Cloud engineering service for convenient and cost-effective access to an off-process, fully functional Experion® Process Knowledge System (PKS), from any location, at the lowest total cost of ownership. Open VEP is typically used for collaborative Experion PKS development engineering, migration and testing, or for system validation and training.

Secure Platform for Cloud Computing

Honeywell customers can employ Open VEP with confidence. It utilizes a high-availability computing platform implemented with the most advanced cyber security capabilities, including high-speed VPN access and HyTrust Data Control VM Level Encryption, on by default and customer-managed through the HyTrust portal. We provide daily backup of your data so no work gets lost.

Your existing Experion PKS system-specific database configuration or applications can be freely imported and installed on system nodes, and a project can be moved from the virtual machines in Open VEP to an on-premises virtual or physical system at any time.

Convenient and Easy-to-Use

Open VEP offers key benefits for automation end users, EPCs, and system integrators. This convenient and easy-to-use virtual engineering platform increases the speed of project execution at a much lower cost than on-site solutions. Honeywell will use our fully tested drive images to provide access to any release, configuration, and size of system required – within days of receiving your order. Engineering can begin at once without concern for hardware and software purchases and installation – helping to take automation off the critical path.

All required licenses are part of the service, including firewalls, Microsoft Windows Server and SQL Server, HyTrust virus protection and data encryption, and the award winning Honeywell Experion PKS software.

Open VEP enables project teams to perform distributed engineering of automation projects on a common infrastructure, with testing and project execution done from anywhere in the world. Team members can collaborate in a virtual engineering and testing environment without the rigors and costs of travel to project sites.

Flexible Tool for Improved Engineering

With Open VEP, project team members can optimize workflows during control system configuration and implementation. They can use this flexible tool for building and testing
control strategies, displays, alarms, and more in a virtual, cloud-hosted environment to enable concurrent engineering and virtual factory acceptance testing (FAT).

By running off-process systems in the cloud, it is easy to create, replicate, and change entire projects on demand. Various databases and application builds can be used for the configurations engineers want to create, operate, test, and maintain. Open VEP allows complete control system modifications to be made and fully tested before implementation on your production system to avoid an unexpected shutdown or other production delays.

**Honeywell’s Proven Approach**

Getting virtual engineering right means choosing the right partner. Honeywell created and continues to develop the Experion PKS automation solution to meet your changing needs. Nobody is better able to configure necessary hardware, manage the virtual machine environment, deploy properly tested software configurations, and support the overall engineering environment.

Honeywell has been using VEP internally for over 5 years to support our own project teams. Many of our customers have had temporary access during projects we were doing for them, and later requested access for their continued development, migration, testing, and training purposes. Open VEP uses what we learned and adds a more robust, scalable and hosted environment; improved connectivity; and the additional layers of security necessary for external network use.

We deliver a tested and proven turnkey solution to support your businesses and operational requirements in a simple, scalable and cost-effective manner. It will reduce costs, improve efficiencies, and deliver greater overall value.

**Significant Benefits for Your Operation**

In our fast-paced and ever-changing competitive environment, it is increasingly important to avoid making big up-front capital investments. But if assets for engineering, modeling, and testing are not readily available early in the project timeline, capital and operating expenses can escalate – increasing the total cost of ownership.

Honeywell’s Open VEP solution provides a number of key operational and business advantages over an on-premises system:

- Support product lab engineering activities with greatly reduced CAPEX and OPEX
- High availability with easy access from anywhere by any stakeholder
- No hardware purchase, software licenses to buy, or software installation
- Eliminate space, power and HVAC required for staging hardware
- System scalability, including systems at different Experion releases
- Most advanced security at the highest standards
- Daily back-ups of your data
- Consistent project environment, less rework, and fewer non-value-added activities
- Enhanced collaboration with engineering teams, suppliers and contractors
- Improved functionality and scenario testing
- Reduced travel, deployment time and labor
- Reduced schedule risk and faster time to production
- No hardware maintenance or refresh
- Early and quick access to new control system releases
- No software patching and upgrades
- Flexible monthly service fees
Why Honeywell?

Honeywell Process Solutions delivers unsurpassed automation expertise to our customers. As pioneers of advanced automation control solutions for industrial operations worldwide, we have continued to develop groundbreaking solutions shaping today’s manufacturing processes.

Open VEP leverages both the virtualization and cloud technologies of Honeywell’s LEAP™ methodology, resulting in a new, convenient, and significantly more cost-effective approach to automation development, testing, and training.