

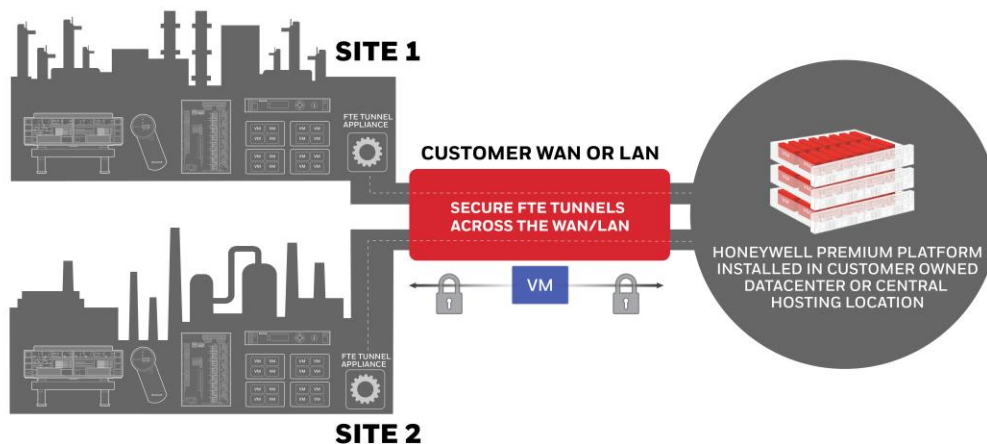
Experion® PKS IT HIVE

Product Information Note

Honeywell Experion® PKS Highly Integrated Virtual Environment (HIVE) incorporates three elements – IT, IO and Control– which can be used individually or collectively, in tandem with customers’ existing systems and infrastructure. Experion PKS IT HIVE decouples IT workloads from having to run at a local process facility, providing the flexibility to host these workloads locally or at a central location.

Today’s competitive business environments demand high performance from your plant and its process control systems. IT workloads such as Experion Servers and Stations require platform infrastructure to host applications, and each platform incurs additional costs, administrative burdens, and maintenance throughout the workload’s lifecycle. Experion PKS IT HIVE eliminates this complexity by giving Honeywell customers the choice with where these workloads should be hosted. IT workloads are no longer bound to running at the local process facility simply because the controllers are located there; they can now be placed where it makes the most sense.

EXPERION® PKS IT HIVE



FEATURES & BENEFITS

Less Infrastructure

- Reduce the amount of networking and compute resources that you need to run at site, thereby reducing maintenance and refresh expenditures.

Simplify Management

- Centrally direct IT workloads to reduce system administrator requirements.
- Securely Tunnel Honeywell Fault Tolerant Ethernet (FTE) over existing WANs and avoid dedicated and expensive WAN infrastructure.

Increase Availability

- Replication technology enables the rapid recovery of a centrally hosted workload at the remote site
- Full protection in the event of any WAN outage.

Disaster Recovery

- For workloads maintained at the remote site, Experion PKS IT HIVE technologies can be used to create a central DR facility in the event of a site incident.

A Choice for Workload Placement

With traditional hardware deployments, IT workloads are maintained in silos that require separate management planes. Administrators must use separate panes of glass for maintenance and troubleshooting, and excess system capacity is wasted as unused computing resources. If a site incident were to occur, these traditional deployment models must have spare resources available to facilitate recovery of the workload. Experion PKS IT HIVE solves these problems by providing a secure extension of resources in a central datacenter location. Using Honeywell supplied Premium Platform hardware installed at the customer's datacenter, Experion PKS IT HIVE extends multiple remote site FTE networks into a central location to provide for:

- Simpler administration and maintenance
- Centralized view of all Experion systems running at the remote sites
- Choice to run all workloads remotely, all workloads in the datacenter, or any combination of workloads in between
- The choice to connect to workloads from the datacenter to facilitate central control room operations
- Disaster recovery space in the event of an incident at a local site
- Maximization of system resources by consolidating multiple remote systems into a highly-available, centralized Premium Platform cluster located in the datacenter.

Secure Extension of Automation Networks

The core technology behind Experion PKS IT HIVE is the network virtualization stack that provides a secure and reliable tunnel over a customer's existing redundant LAN or WAN cabling. Using these redundant networks, the Virtual Private Network (VPN) appliance provides an extension of the remote network into the datacenter, allowing virtual

machines to communicate and traverse the network to meet the demands of the control system.

Lower Facility Costs

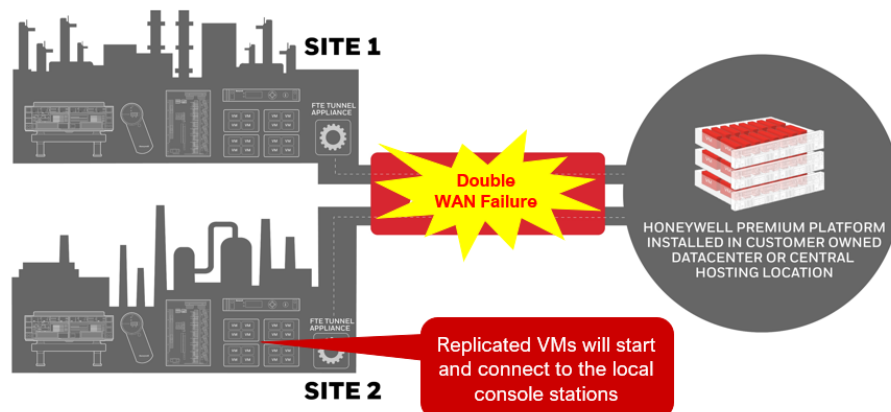
The consolidation of workloads into the datacenter allows Honeywell customers to simplify the burdens associated with managing and administering numerous remote systems. Using the central platform, operations such as patching, antivirus updates, and backups can be performed from the datacenter location. And by maximizing resource utilization in the datacenter, customers can reduce the amount of networking and compute resources that are necessary to run workloads at the remote site, resulting in decreased maintenance and refresh expenditures.

Advanced Replication Features

Experion PKS IT HIVE utilizes advanced replication technology to automatically copy essential workloads between the remote and datacenter locations. In the event of a double WAN or LAN failure, Experion PKS IT HIVE can readily start the replicated workloads to quickly restore operations.

Disaster Recovery

The failure of hardware of server or workstation in legacy systems can often result in a long and complicated delay in the restoration of the workload to service. Without resources readily available to host the workload, it would sometimes take days for administrators to procure new hardware and restore the workload to operation. With Experion PKS IT HIVE, administrators can use the resources available in the remote datacenter to create a central disaster recovery facility. In the event of an incident at the remote site, the workload can be quickly restored in the datacenter and made readily available for operations.



If a double failure of the WAN were to occur, Experion PKS IT HIVE can recover replicated workloads at the remote site

How can Experion PKS IT HIVE boost your organization?

- Reduce facility costs by reducing the amount of networking and compute resources that are necessary to run at the process site
- Use a central datacenter location to host workloads from multiple remote sites
- Gain choice in where you want to run your IT workloads – applications are no longer bound to running at the remote sites
- Centrally administer and manage your IT workloads
- Use existing redundant WAN/LAN links to securely tunnel FTE to a remote datacenter and to avoid dedicated and expensive new WAN infrastructure
- Create a central disaster recovery facility for multiple remote process sites
- Full protection in the event of any WAN outage.

For More Information

Learn more about Honeywell Experion® solutions visit www.honeywellprocess.com or contact your Honeywell Account Manager.

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