

Service Note

Experion Server Upgrade



Increase System Performance and Reduce Unplanned Downtime

Experion Server Upgrades offer continued support along with an enhanced performance of the latest hardware technology by using Windows 2008 Server operating system software and the current Experion software release.

Experion Server Upgrades

The Experion server platform is offered in various platform options to meet the site needs and desires for implementation. Many of these are also packed along with the current LCNP4



board into offerings through the Kits and Enhancements (K&E) program. The server platforms are split into Standard and Performance categories with rack mount and tower options available. Platforms in both categories are tested, qualified, and fully supported

for any of the Experion server node types. The hardware delivered through upgrade kits or regular models will provide hardware and operating system software only. Experion media and licensing must be ordered separately if an upgrade of the Experion system software is also being performed.

The operating system software will be Windows 2008 Server for the current Experion R410 and R400 releases.

Performance Servers

Honeywell offers servers for different customer needs. The servers classified as Performance servers provide additional performance and robustness (ie. faster processors and options such as RAID5 drives and redundant power supplies) now found in the standard servers. Depending on the node and size of the system the recommended server will vary. For best overall system performance the top end servers are suggested.



- 1U or 2U Rack mount and one tower configuration available
 - Rack ready servers include mounting rails and cable management arm
 - All require meter deep cabinet
- Intel 2.2GHz or higher multi-core (4 or 6) processor
- Four 146GB 2.5" SAS, 15K RPM hot plug hard drives



- Default RAM of 4GB
- Dual hot-plug redundant power
- Dual embedded integrated Broadcom Gigabit Ethernet NIC

Standard Servers

The servers in the Standard server category are qualified and supported Experion hardware but may not be recommended for heavily loaded or complex system needs. For normal system use they will be well suited although increased performance may still be achieved through use of the Performance options.

- Tower configuration
- 1.8 GHZ or better quad-core processor
- 500GB hard drive(s) in following configurations:
 - Qty 1 non-RAID
 - Qty 3 in RAID5
- Default RAM of 4GB
- Dual embedded integrated Broadcom Gigabit Ethernet NIC



Benefits

Previous Experion platforms are becoming more difficult to support due to spare parts availability as succeeding platform generations are brought to market. Parts availability coupled with the issue of software qualification—operating system versions, plus Honeywell qualification of software—present a situation that is most easily managed by upgrading to current platforms. The current generation servers provide a way to replace the previous platform with new technology and increase the life of the Experion nodes, while providing the benefits of increased speed and better performance.

Qualified Releases

Honeywell has tested and qualified the servers on the following Experion releases:

- R400 and higher for all servers
- The HP-based DL380 rack ready server will support the R3xx releases as well as the R4xx releases

Mounting Considerations

The rack ready-based platforms will only mount in the Honeywell meter deep cabinet offering or a third party PC rack using the mounting rails supplied. The server is too deep to mount in any other Honeywell cabinet or console.

Honeywell Platform Model Numbers

- MZ-PCSV61 – Dell PE R320 rack ready performance server
- MZ-PCSV71 – Dell PE T320 tower standard server
- MZ-PCSV72 – Dell PE T320 tower standard server, RAID5
- MZ-PCSV73 – Dell PE T320 tower performance server
- MZ-PCSV81 – HP DL380 rack ready performance server

Note: The Honeywell Platform models listed will also require the appropriate Microsoft Operating System model number based on the Honeywell software release selected.

Honeywell Upgrade Kit Model Numbers

- TP-ZE2ER1 ESVT upgrade on HP DL380-based server
- TP-ZE2ER2 ESVT upgrade on Dell R320-based server
- TP-ZE2ET1 ESVT upgrade on Dell T320-based Performance server
- TP-ZE2EL1 ESVT upgrade on Dell T320-based Standard server
- TP-ZAC2R2 ACE-T upgrade on HP DL380-based server
- TP-ZAC2R3 ACE-T upgrade on Dell R320-based server
- TP-ZAC2T2 ACE-T upgrade on Dell T320-based Performance server
- TP-ZAC2L2 ACE-T upgrade on Dell T320-based Standard server

Note: All upgrade kits include the LCNP4 board installed and provide the Microsoft Operating System software in the deliverables based on software release selected at time of order.

Return Material Requirements

When utilizing the Honeywell K&E offerings, all displaced material must be returned to Honeywell. For the LCN-connected Experion Server Upgrade kits, the following must be returned:

- Computer platform
- LCNP4 board

For More Information

Learn more about how Honeywell's Experion Server Upgrades can increase server performance and reduce unplanned downtime, visit our website www.honeywellprocess.com or contact your Honeywell account manager.

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