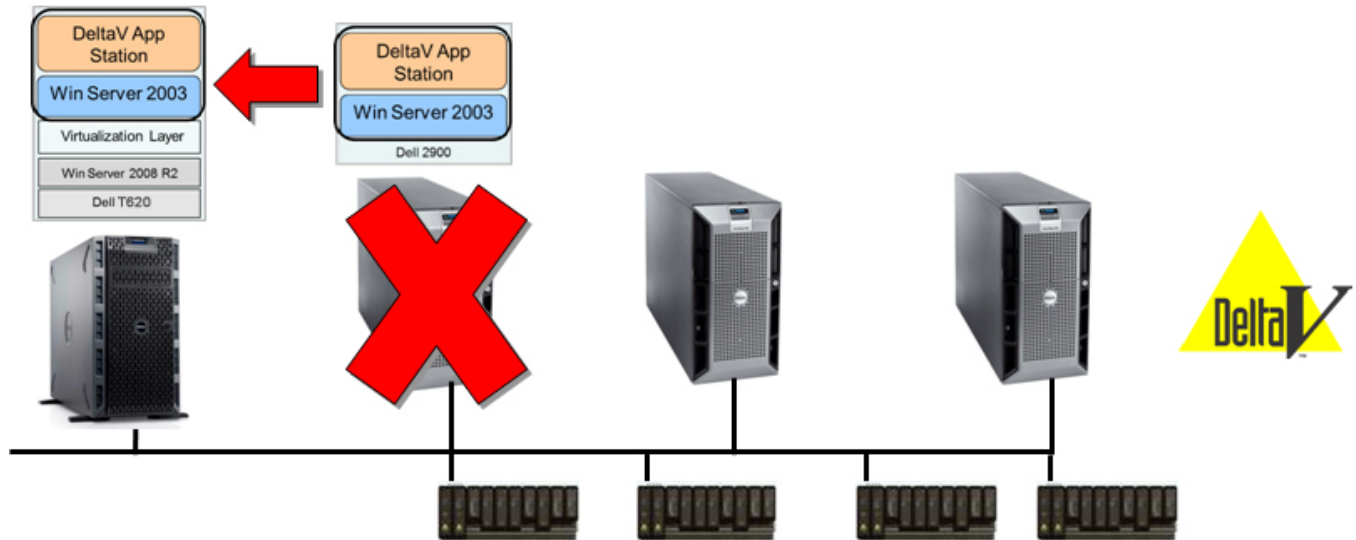


DeltaV™ Obsolete Server Replacement



Legacy DeltaV servers running in virtual machines in new server hardware.

- Extend system life without software upgrades
- Increase reliability with new server hardware
- Fully tested and supported virtualization platform

Introduction

Computer hardware is constantly changing to provide faster and more powerful platforms for more demanding applications. The life expectancy for computer hardware and operating systems is often just a few years, much shorter than many manufacturers would like for their control systems. As a result, many manufacturers find

themselves with aging computer hardware that is difficult to replace because computer vendors no longer sell models which support the older operating systems and drivers required for legacy control system. Computer virtualization technology now provides the ability to replace older computers with newer hardware running the same legacy operating systems and applications in virtual machines. The DeltaV™ Obsolete Server Replacement provides new server hardware to replace legacy servers for DeltaV v9.3.1 and v10.3.1.

The new servers utilize Windows Server 2008 R2 with virtual machines to run legacy DeltaV software on Windows Server 2003. With DeltaV Obsolete Server Replacement you can replace out-of-date workstations and upgrade your computer hardware without upgrading your application software.

Benefits

Extend system life without software upgrades.

Replace aging server hardware with new equipment without disruptions of software upgrades. Virtualization makes software and hardware upgrades independent.

Increase reliability with new server hardware.

Don't risk running your plant with obsolete computer hardware. Replace aging computers with new hardware which is more reliable and easier to maintain.

Fully tested and supported virtualization platform.

DeltaV Obsolete Server Replacements are rigorously tested and supported by Emerson for use in your on-line or off-line legacy DeltaV system.

Product Description

DeltaV Obsolete Server Replacement enables you to replace an older server with a newer server running legacy DeltaV software in a virtual machine. With the Obsolete Server Replacement, you get a new Dell server running Windows Server 2008 that includes a virtual machine running Windows Server 2003. You can then install legacy DeltaV software (v9.3.1 or v10.3.1) within the virtual machine the same as you did with the original workstation hardware. The virtualization software is included with standard Windows Server 2008 R2 operating system on the host computer. And of course, the obsolete server replacement is fully tested and supported by Emerson for use in your on-line or off-line legacy DeltaV system.

Ordering Information*

Description	Model Number
DeltaV Obsolete Server Replacement for DeltaV v9.3.1	
DeltaV Obsolete Server Replacement - Rack-mount (DeltaV v9.3.1) <ul style="list-style-type: none"> • Rack-mount server – Dell R720 (see specifications below) • Processors: Single Six Core CPU • Drives: Two 600 GB SAS drives in RAID 1 array for 600GB available storage • DVD: Windows Server 2003 virtual machine template and installation software 	SE2522V1M99
DeltaV Obsolete Server Replacement - Rack-mount (DeltaV v9.3.1) <ul style="list-style-type: none"> • Rack-mount server – Dell R720 (see specifications below) • Processors: Dual (2) Six Core CPU • Drives: Six 600 GB SAS drives in RAID 10 array for 1.8 TB available storage • DVD: Windows Server 2003 virtual machine template and installation software 	SE2522V2M99
DeltaV Obsolete Server Replacement - Tower (DeltaV v9.3.1) <ul style="list-style-type: none"> • Tower chassis server – Dell T620 (see specifications below) • Processors: Single Six Core CPU • Drives: Two 600 GB SAS drives in RAID 1 array for 600GB available storage • DVD: Windows Server 2003 virtual machine template and installation software 	SE2521V1M99
DeltaV Obsolete Server Replacement - Tower (DeltaV v9.3.1) <ul style="list-style-type: none"> • Tower chassis server – Dell T620 (see specifications below) • Processors: Dual (2) Six Core CPU • Drives: Six 600 GB SAS drives in RAID 10 array for 1.8 TB available storage • DVD: Windows Server 2003 virtual machine template and installation software 	SE2521V2M99

*Ordering information does not include DeltaV licenses or DeltaV media. Existing legacy DeltaV workstation licenses may be re-assigned to replacement servers. DeltaV workstation and media may be ordered separately.

Ordering Information*

Description	Model Number
DeltaV Obsolete Server Replacement for DeltaV v10.3.1	
DeltaV Obsolete Server Replacement - Rack-mount (DeltaV v10.3.1) <ul style="list-style-type: none"> • Rack-mount server – Dell R720 (see specifications below) • Processors: Single Six Core CPU • Drives: Two 600 GB SAS drives in RAID 1 array for 600GB available storage • DVD: Windows Server 2003 virtual machine template and installation software 	SE2524V1M99
DeltaV Obsolete Server Replacement - Rack-mount (DeltaV v10.3.1) <ul style="list-style-type: none"> • Rack-mount server – Dell R720 (see specifications below) • Processors: Dual (2) Six Core CPU • Drives: Six 600 GB SAS drives in RAID 10 array for 1.8 TB available storage • DVD: Windows Server 2003 virtual machine template and installation software 	SE2524V2M99
DeltaV Obsolete Server Replacement - Tower (DeltaV v10.3.1) <ul style="list-style-type: none"> • Tower chassis server – Dell T620 (see specifications below) • Processors: Single Six Core CPU • Drives: Two 600 GB SAS drives in RAID 1 array for 600GB available storage • DVD: Windows Server 2003 virtual machine template and installation software 	SE2523V1M99
DeltaV Obsolete Server Replacement - Tower (DeltaV v10.3.1) <ul style="list-style-type: none"> • Tower chassis server – Dell T620 (see specifications below) • Processors: Dual (2) Six Core CPU • Drives: Six 600 GB SAS drives in RAID 10 array for 1.8 TB available storage • DVD: Windows Server 2003 virtual machine template and installation software 	SE2523V2M99

***Ordering information does not include DeltaV licenses or DeltaV media. Existing legacy DeltaV workstation licenses may be re-assigned to replacement servers. DeltaV workstation and media may be ordered separately.**

SE2521 - DeltaV Obsolete Server Replacement, Tower - General Specifications [Dell T620 server]

- Hot-pluggable drive backplane
- Redundant, hot-pluggable 750W power supplies
- 4 Ethernet ports 2 on motherboard and 2 on an add-in dual-port NIC
- 6 USB ports on back panel
- Integrated graphics controller with wide screen support (wide screen has been tested using our supported Dell P2213 monitor at 1680x1050 resolution and 16 bit color depth using a direct connection to the VGA port.
- DVD-R/W drive
- RD1000 backup storage unit and removable 160GB cartridge
- USB mouse (2 button w/ scroll)
- Local USB country keyboard and Local power cord option
- Includes Windows Server 2008 Standard Edition pre-installed with Hyper-V. Includes 10 server CAL licenses.
- OS License Certification Label
- Tower dimensions (without bezel): 443.5mm H w/feet x 304.5mm W x 708.7D with bezel
- Tower weight 43.3 kg (95 lb.), maximum configuration
- Vibration: Operating: 0.26G at 5Hz to 350Hz for 2 minutes , Storage: 1.54Grms Random Vibration at 10Hz to 250Hz for 15 minutes
- Shock: Operating Shock: 1 shock pulse of 41G for up to 2ms, Storage: 6 shock pulses of 71G for up to 2ms
- Servers do not support multi-monitors or sound cards (no speakers provided with servers)



DeltaV Obsolete Server Replacement - Tower Chassis Single Six Core CPU

SE2521V1M99 – For DeltaV v9.3.1

SE2523V1M99 – For DeltaV v10.3.1

- Drives: Two 600GB or greater SAS hard-drives in a RAID 1 Array for 600GB available storage
- Single CPU - Intel Xeon E5-2620 2.00GHz 6 cores
- Memory: 16GB

DeltaV Obsolete Server Replacement - Tower Chassis Dual Six Core CPU with Redundnat Disk Storage

SE2521V2M99 – For DeltaV v9.3.1

SE2523V2M99 – For DeltaV 10.3.1

- Drives: Six 600GB or greater 15K RPM SAS hard-drives in RAID 10 array for 1.8 TB available storage
- Two CPUs - Intel Xeon E5-2620 2.00GHz 6 cores
- Memory: 16GB

SE2522 - DeltaV Obsolete Server Replacement, Rack-mount - General Specifications [based on Dell R720]

- 2U Rack-mountable chassis with sliding ready rails and cable management arm
- 16GB Memory
- 4 Ethernet ports all on the motherboard [no add-in NIC cards]
- 4 USB ports – 2 back panel and 2 on front panel
- Integrated graphics controller with wide screen support (wide screen has been tested using our supported Dell P2213 monitor at 1680x1050 resolution and 16 bit color depth using a direct connection to the VGA port.
- Hot-pluggable drive backplane
- Redundant, hot-pluggable 870W power supplies
- Includes Windows Server 2008 Standard Edition pre-installed with Hyper-V. Includes Server 2008 image DVD. Includes 10 server CAL licenses.
- DVD+/- R/W drive
- USB mouse (2 button w/ scroll)
- Local USB country keyboard
- Local power cord option
- Rack Server Dimensions 29.31" (74.4cm) D x 17.5" (44.43cm) W x 3.4" (8.64cm) H with bezel attached
- Rack Server Weight 50.71 lbs. (23 Kg), maximum configuration
- Note: Servers do not have PS/2 ports or parallel ports. Will require the use of a USB DeltaV dongle.



Environmental

- Vibration: Operating: 0.26G at 5Hz to 350Hz for 2 minutes, Storage: 1.54Grms Random Vibration at 10Hz to 250Hz for 15 minutes
- Shock: Operating: 1 shock pulse of 41G for up to 2ms, Storage: 6 shock pulses of 71G for up to 2ms
- Servers do not support multi-monitors, sound cards (no speakers provided with servers)

DeltaV Obsolete Server Replacement – Rack-mount, Single Six Core CPU

SE2522V1M99 – For DeltaV v9.3.1

SE2524V1M99 – For DeltaV v10.3.1

- Two SAS hard-drives, 600GB or greater in a RAID1 array for 600GB available storage
- Single CPU - Intel Xeon E5-2620 2.00GHz, 6 cores

DeltaV Obsolete Server Replacement – Rack-mount, Dual Six Core CPUs with Redundant Disk Storage

SE2522V2M99 – For DeltaV v9.3.1

SE2524V2M99 – For DeltaV v10.3.1

- Six SAS hard-drives 600GB (or greater) drives in a RAID10 array for 1.8 TB available storage
- Two CPUs- Intel Xeon E5-2620 2.00GHz, 6 cores

Specifications Common to all Host Servers

All computers must be installed in a dust-free, contaminant-free environment. These computers are not suitable for mounting in industrial environments unless they are mounted in enclosures that provide the necessary dust-free and contaminant-free environment. Environment must meet **Class G1** level for airborne contaminants per the ISA standard **ISA-71.04-1985, Environmental Conditions for Process Measurement and Control Systems: Airborne Contaminants.**

Temperature: Operating 10° to 35°C (50° to 95°F) Storage -40° to 65°C (-40° to 149°F)

Relative humidity: 20% to 80% (non-condensing)

Altitude : Operating -15.2 to 3048 m (-50 to 10,000 ft.), Storage -15.2 to 10,668 m (-50 to 35,000 ft.)

Related Products

- **DeltaV Virtual Studio** is an integrated DeltaV application environment designed for easy implementation and management of virtual DeltaV control systems for both off-line and on-line production systems. Virtual machine templates are provided for automatic generation and configuration of DeltaV workstations and controller hardware. *For more information, see product data sheet for DeltaV Virtual Studio.*
- **DeltaV Virtualization Hardware.** Thoroughly tested and supported computer and peripheral devices for use with DeltaV Virtual Studio. Hardware includes host servers, storage area network (SAN), thin clients, network switches, and related hardware required for DeltaV Virtualization. *For more information, see product data sheet for DeltaV Virtualization Hardware.*

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To locate a sales office near you, visit our website at:

www.EmersonProcess.com/DeltaV

Or call us at:

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Europe, Middle East: 41.41.768.6111

North America, Latin America: +1 800.833.8314 or
+1 512.832.3774

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