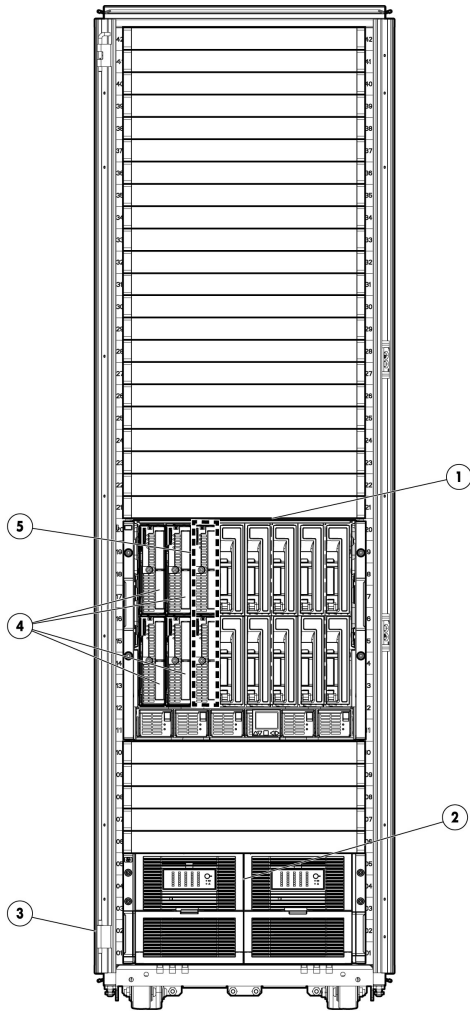
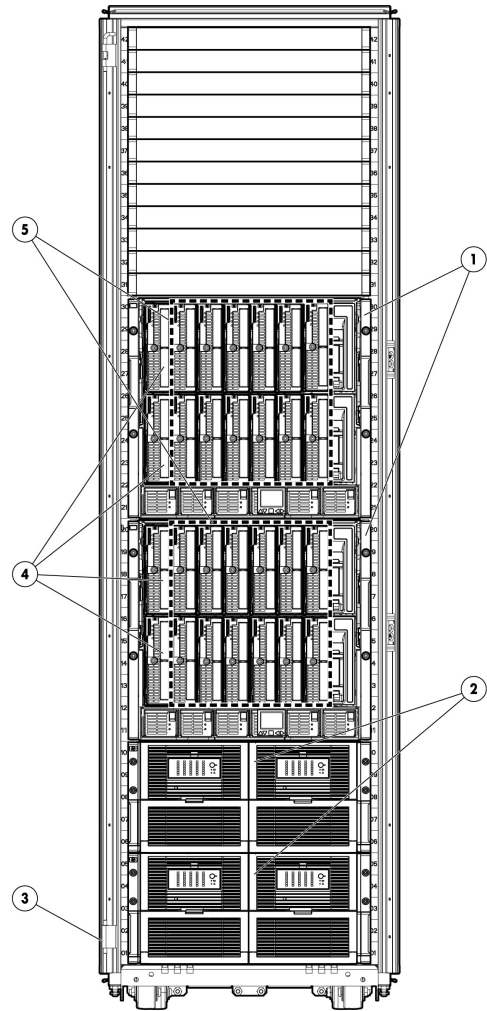


Overview



HP VirtualSystem CV2 Solution - Base with DAS

1. One (1) HP BladeSystem c7000 enclosures, Virtual Connect Flex-10, 3Gb SAS switches
2. One (1) HP MDS600 with thirty-five (35) 450GB SAS HDD as DAS
3. One (1) HP Universal Rack 10642 G2 1200mm Deep Rack
4. Four (4) HP ProLiant BL460c G7 management servers
5. Two (2) HP ProLiant BL460c G7 virtualization server blades with HP SmartArray P700m SAS controller

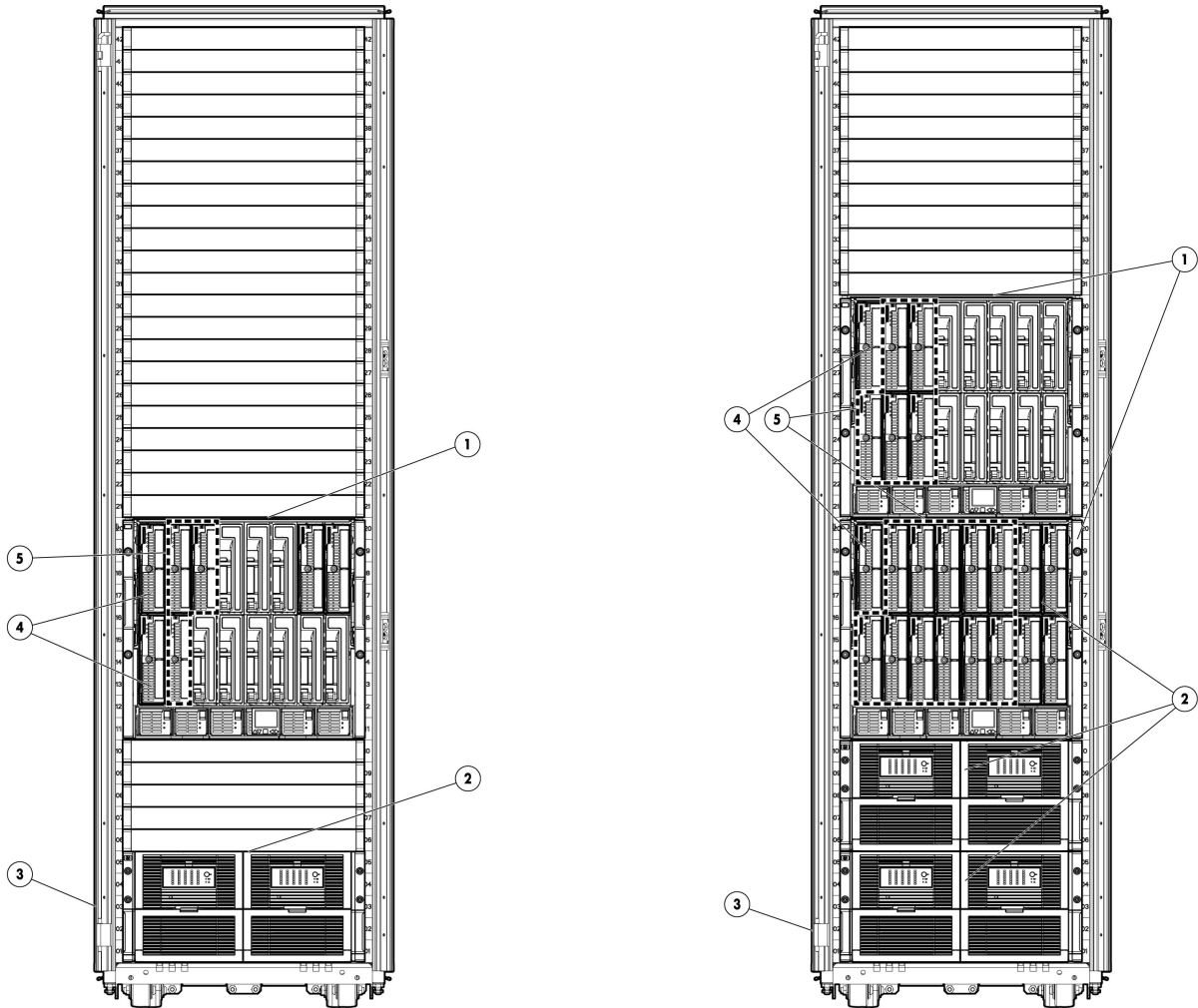


HP VirtualSystem CV2 Solution - Extended with DAS

1. Two (2) HP BladeSystem c7000 enclosures, Virtual Connect Flex-10, 3Gb SAS switches (1st enclosure only)
2. Two (2) HP MDS600 with total of one-hundred-forty (140) 450GB SAS HDD as DAS
3. One (1) HP Universal Rack 10642 G2 1200mm Deep Rack
4. Four (4) HP ProLiant BL460c G7 management servers
5. Twenty-four (24) HP ProLiant BL460c G7 virtualization server blades with HP SmartArray P700m SAS controller

Overview

HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V



HP VirtualSystem CV2 Solution - Base with SAN

1. One (1) HP BladeSystem c7000 enclosures, Virtual Connect Flex-10, 3Gb SAS switches
2. One (1) Two-node HP P4800 G2 42TB SAN
3. One (1) HP Universal Rack 10642 G2 1200mm Deep Rack
4. Two (2) HP ProLiant BL460c G7 management servers
5. Three (3) HP ProLiant BL460c G7 virtualization server blades

HP VirtualSystem CV2 Solution - Extended with SAN

1. Two (2) HP BladeSystem c7000 enclosures, Virtual Connect Flex-10, 3Gb SAS switches
2. One (1) Four-node HP P4800 G2 84TB SAN
3. One (1) HP Universal Rack 10642 G2 1200mm Deep Rack
4. Two (2) HP ProLiant BL460c G7 management servers
5. Sixteen (16) HP ProLiant BL460c G7 virtualization server blades

Overview

At A Glance

The HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V provides a revolutionary client virtualization solution built for tomorrow's demands today. It has been optimized on a Converged Infrastructure and is based on Microsoft and Citrix software running on HP server, storage and networking technologies optimized for virtualized environments; and includes three years of HP 24x7 hardware and software support.

The HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V is pre-configured, tested and optimized to provide easy deployment to users, allowing for fast implementation and minimizing reliance on IT resources. The solution is offered in two configurations: "Base" and "Extended". Both can be configured either with Direct Attached Storage (DAS) or Storage Area Network (SAN).

The HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V is built on well-established HP technologies and functionality including:

- HP BladeSystem c7000 enclosure
- HP ProLiant BL460c G7 server blade
- HP SmartArray P700m (with DAS configurations)
- HP MDS600 DAS or HP P4800 G2 LeftHand SAN for BladeSystem
- HP Virtual Connect Flex-10
- HP Insight Control
- Factory Integration through HP Factory Express assembles and tests the solution and our onsite installation and integration significantly reduces customer deployment time.
- HP support provides a single point of contact across all components; the servers, storage, operating system, HP software, Microsoft and Citrix software. Additional client VirtualSystem configuration services and other client VirtualSystem professional services are also available.

For more information about the HP VirtualSystem Client Virtualization, see: <http://www.hp.com/go/cv>

For more information about HP and Microsoft see: <http://www.hp.com/go/hyper-v>

For more information about HP and Citrix see: <http://www.hp.com/go/citrix>

For more information about HP Storage see: <http://www.hp.com/go/storage>

For more information about HP racks see: http://h18000.www1.hp.com/products/quickspecs/12402_div/12402_div.html

For more information about HP blades see: <http://h18004.www1.hp.com/products/blades/bladestem/index.html>

For more information about HP BladeSystem c7000 Enclosure see:

http://h18000.www1.hp.com/products/quickspecs/12810_div/12810_div.html

For more information about HP BladeSystem c-Class Interconnect and Mezzanine Components see:

<http://h18004.www1.hp.com/products/blades/components/c-class-interconnects.html>

<http://h18004.www1.hp.com/products/blades/components/c-class-adapters.html>

For more information about HP Services see: <http://www.hp.com/go/services>



How to Order

How to order the HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V

The HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V includes all of the HP hardware, HP software components plus factory integration, onsite installation and 3 yr of 24x7 hardware and software support. Microsoft Windows Server 2008 R2 Hyper-V is included in the solution part number below. Microsoft System Center Virtual Machine Manager (SCVMM) 2008 R2 must be purchased separately from Microsoft or its authorized resellers. Citrix XenDesktop 5.5 Platinum edition must be purchased separately from Citrix or its authorized resellers. However, installation and support services for both of the software are included in the HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V. All software will be installed on-site and integrated into customer active directory infrastructure.

The solution comes in "base" or "extended" configuration sizes with either a DAS or SAN storage implementation for both configurations; and orderable under HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V Solution (P/N: 671377-B21). See below for details.

With HP VirtualSystem CV2 Solution orders, the following services are included:

- Factory integration services through HP Factory Express to configure, rack, and cable the infrastructure in a rack
- Installation and start up services
- 3yr Critical Advantage Level 3 (24x7 hardware and software support with 6 hour call-to-repair), with the option to upgrade to higher service levels or extend to longer durations.

The Technology Services Installation Service is detailed in the installation and start up section below.



Standard Features

HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V

The HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V is based on Citrix XenDesktop 5.5 (must be purchased separately), Microsoft Windows Server 2008 Hyper-V R2, Microsoft System Center Virtual Machine Manager (must be purchased from Microsoft), HP Insight Control software, and the HP Insight Control for Microsoft System Center. All software will be installed on-site and integrated into customer active directory infrastructure.

A typical client virtualization solution usually takes six to twelve months from concept to production but with the HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V, it is possible to shorten that time to about one month with much of the complex and time-consuming work done by HP. And do that without compromising on performance, operating costs, information security, or user experience.

HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V is created on a Converged Infrastructure based on HP server, storage and networking technologies and designed specifically for a virtualized environment; innovative software from Citrix and Microsoft; and three years of HP 24x7 hardware and software support.

Pre-configured, tested and optimized this solution provides exceptional scale out for future growth and rapid installation and startup services ensures the fastest time-to-value for businesses.

- Fully integrated virtualization platform
- Characterized and tuned for Microsoft Hyper-V R2 SP1 and Citrix XenDesktop 5.5
- Accelerated time to deployment
- Onsite installation, integrated into customer environment
- Full solution supported by HP support
- Built on industry leading servers, storage, networking, with integrated management for automated virtual machine management
- Performance tested for typical workloads
- Exceptional power and cooling efficiency
- Resiliency designed into systems, configuration, and software
- Modular, expandable to accommodate growth affordably

Microsoft Windows Server 2008 Hyper-V R2

Windows Server 2008 R2 Hyper-V, the next-generation hypervisor-based server virtualization technology, is available as an integral feature of Windows Server 2008 R2 and enables you to implement server virtualization with ease. Hyper-V allows you to make the best use of your server hardware investments by consolidating multiple server roles as separate virtual machines (VMs) running on a single physical machine.

Administrators want flexibility in allocating computing resources for specific tasks. Virtualization technologies provide this flexibility by decoupling the hardware from the workload being performed. Windows Server 2008 Hyper-V R2 offers a robust, scalable hypervisor-based virtualization platform allowing enterprises to provision and manage virtual server workloads.



Standard Features

Citrix XenDesktop

Citrix XenDesktop is a desktop virtualization solution that provides IT teams with the flexibility to quickly deliver and refresh applications and/or virtual desktops, reduces the threat of potential data loss or theft, lowers the complexity and cost of desktop management, and provides end-users with the functionality of a stand-alone desktop.

For more information, visit:

<http://h18013.www1.hp.com/products/servers/software/citrix/virtualization/vdi/index.html>

HP Insight management software

HP Insight Foundation

- Managing the growing number of servers can be complex and expensive for your organization. IT managers need to address changing business needs with tools that meet the challenges of managing today's complex Datacenters
- HP provides management solutions that are designed to simplify a server's installation, configuration and maintenance throughout the entire server lifecycle. This provides the customer with higher levels of operational efficiency and highly reliable systems:

www.hp.com/go/foundation.

- The foundation pack includes
 - HP SmartStart
 - HP Management DVD
 - HP ProLiant Smart Update Firmware DVD
 - SmartStart version supported (minimum): SmartStart 8.50.

<http://www.hp.com/servers/smartstart>

HP Integrated Lights-Out 3 (iLO 3) (included with each model)

HP Integrated Lights-Out 3 (iLO) simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers. HP iLO functions without additional software and can be accessed from any location via a web browser. HP iLO works hand-in-hand with HP Systems Insight Manager, Insight Control suites, and Insight Dynamics for ProLiant, helping customers unleash the value of the ProLiant platform and deliver the highest possible quality of IT service. For more information, visit: www.hp.com/go/iLO

HP Factory Express Service

The included HP Factory Express Service consists of these steps:

- Unpack individual components, rack mount assemble
- Organize cabling
- Verify correct firmware versions for components, up/downgrade as needed
- Configure HP On-board Administrator (OA) for testing
- Configure HP Virtual Connect Flex-10
- Allocate DAS drives to physical servers (if DAS config)
- Configure HP P4800 for test, RAID 10 (if SAN config)
- Reset for shipping



Standard Features

Installation and Startup Service

The included onsite Installation and Startup Service consists of these steps:

- Upon delivery to customer's site, unpack and inspect for damages
- Integrate HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V in to customer's environment, power, network cabling
- Configuration of the network connections towards the customer environment and connection verification
- Configure software and hardware to the customer's network and Microsoft Active Directory environments. When done, the implementation will be configured and ready for the creation of the first master image
 - Collect information from customer (IP, server names, Microsoft Active Directory, etc)
 - Deploy OS on physical servers and enable Microsoft Hyper-V
 - Install HP PSP on physical servers
 - Create NIC teams and add to Microsoft Active Directory domain
 - (If SAN config) Install/configure HP P4800 MGMT SW, FOM - CMC on MGMT nodes
 - (If SAN config) Create and present HP P4800 volumes for MGMT servers and Hyper-V hosts
 - Create Microsoft Hyper-V Virtual Networks
 - (If SAN config) Create Failover Cluster for Management servers
 - (If SAN config) Create Failover clusters for VDI Hosts
 - Create infrastructure VMs on mgmt servers and add to domain
 - Install/configure HP Insight Control on MGMT nodes
 - Install Microsoft SQL
 - Install Citrix License Server
 - Install Microsoft SCVMM VM(s)
 - (If DAS config) Install PVS (install only, not configured)
 - Install DDC broker (install only, not configured)
- Familiarize customer with the equipment and with basic processes
- Instruct customer on how to place support calls

Warranty services

The VirtualSystem is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners. Hardware diagnostic support and repair is available for three years from date of purchase.

Beyond the warranty, 3 year Critical Advantage Level 3 is included as a part of the standard offering, providing 24x7 hardware and software support with 6 hour call-to-repair hardware support covering all components of the system. See Step 2, Choose HP Care Pack Support and Additional Services for more information.

NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>.



Standard Features

HP Financial Services

To support customers' transition, HP Financial Services (HPFS) can help in a way that you may not have considered. HPFS can help you invest in your business while preserving precious capital.

For more information, contact your local HP Financial Services Representative. In the United States, call 1-888-277-5942. In Canada, dial 1-800-HP-LEASE. For more information please visit: www.hp.com/hpfinancialservices for links to HP Financial Services around the world.

Rack Airflow Requirements

Rack 10000 G2 series cabinets

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The HP 10000 G2 Series racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels will result in improper cooling that can lead to thermal damage.



Configuration Information - Factory Integrated Models

NOTE: This section lists the standard features included in the HP VirtualSystem CV2

NOTE: All components are factory integrated and have been localized to US English.

NOTE: All VirtualSystem for Microsoft and Citrix configurations come standard with Factory Express configuration and onsite integration.

Step 1: Order HP's VirtualSystem CV2 for Microsoft and Citrix. Choose from one of the four configurations below which meets your virtualization and performance needs.

Models HP VirtualSystem CV2 for Citrix XenDesktop on Microsoft Hyper-V 671377-B21

HP VirtualSystem CV2 "Base" with DAS configuration includes the following:

One (1) HP Universal Rack 10642 G2 1200mm Rack includes:

- One (1) HP BLc7000 3 IN LCD ROHS Enclosure
 - Six (6) HP 2400W Platinum Efficiency FIO Power Supply bundle
 - One (1) HP BLc7000 1 PH FIO Power Module Opt
 - Ten (10) HP Active Cool 2000 Fan Bundle
 - Two (2) HP c7000 Onboard Administrator with KVM Option
- Two (2) HP Virtual Connect Flex-10 10Gb Enterprise Edition for BladeSystem c7000 (with License)
- Two (2) HP 3Gb SAS Switch BladeSystem (individual SAS interconnect PN)
- Two (2) HP ProLiant BL460c G7 Server (Virtualization host), each with:
 - Two (2) HP BL460c G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor
 - Twelve (12) HP 8GB 2Rx4 PC3-10600R-7 Kit
 - One (1) HP Smart Array P700m/512 4-ports Ext PCIe x8 SAS Controller
 - Two (2) HP 146GB 6G SAS 15K 2.5in DP ENT HDD
- Four (4) HP ProLiant BL460c G7 Server (Management station), each with:
 - Two (2) HP BL460c G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor
 - Twelve (12) HP 8GB 2Rx4 PC3-10600R-7 Kit
 - One (1) HP Smart Array P700m/512 4-ports Ext PCIe x8 SAS Controller
 - Two (2) HP 146GB 6G SAS 15K 2.5in DP ENT HDD
- Four (4) HP Ext Mini SAS 2m cable
- One (1) HP MDS600 with (35) 450GB LFF SAS Hard Disk Drive Bundle
- Four (4) HP Intelligent Mod PDU 40A NA/JPN Core (AF521A) or Two (2) HP PWR Monitoring PDU, 3PH,48A NA/JPN (AF916A) for NA/JPN region or Four (4) HP Intelligent Mod PDU 32A Intl Core (AF525A) for EMEA and AP (excluding Japan).
- One (1) HP 10642G2 1200mm Side Panels
- One (1) HP BLc7000 10K Rack Ship Brkt Opt Kit
- One (1) HP 10K Rack Airflow Optimization Kit
- Three (3) HP 10pk Carbonite 1U Universal Filler Panel
- Six (6) HP ICE Nm 1-Svr 24x7 Support
- One (1) HP Insight Software Media Kit
- One (1) HP Fctry Express Solution Package 4 SVC
- One (1) HP Fctry Express Blade Svr Pkg 4 SVC
- One (1) HP HP Fctry Exp Strg and Ntwking Pkg 4 SVC
- Six (6) HP IC ML-DL-BL SW Sup
- Six (6) Microsoft OS and Apps Support
- One (1) c7000 Enclosure HW Supp - 3y 4hr 24x7



Configuration Information - Factory Integrated Models

- One (1) HP VCEM BL-c7000 SW Support
- Six (6) BL4xxc Svr Bld HW Support
- Two (2) 3GB SAS BL Switch Support
- One (1) MDS600 HW Support
- One (1) HP VirSys CV2 Ctrix Basic DAS 200U SW Sup
- One (1) ProLiant Add On Options Installation SVC
- One (1) HP Virt Sys for CV2 Ctrix and MS Impl SVC
- Two (2) MS WS08 R2 Ent Ed 10CAL FIO Npi E,F,S SW
- Four (4) MS WS08 DataCnt2CPU FIO Npi Eng SW
- Two (2) HP 5m Multi-mode OM2 LC/LC FC Cable and Two (2) HP BLc 10Gb SR SFP+ Opt, or Two (2) HP 5m C-series Passive Copper SFP+ Cable
- Two (2) HP BLc VC 1Gb RJ-45 SFP Opt Kit
- 7ft Cat5e RJ45 cables (as needed)
- Four (4) 10A IEC320 C14 -- C13 4.5ft US PDU Cable

NOTE: Following software is required for this solution configuration but is not included in the part number. Must be purchased separately.

- Citrix XenDesktop 5.5 Platinum edition, licensed by user/device for 200 users
- MS System Center Virtual Machine Manager (SCVMM) Client for 200 users

HP VirtualSystem CV2 "Extended" with DAS configuration includes the following:

One (1) HP Universal Rack 10642 G2 1200mm Rack includes:

- Two (2) HP BLc7000 3 IN LCD ROHS Enclosures each with:
 - Six (6) HP 2400W Platinum Efficiency FIO Power Supply bundle
 - One (1) HP BLc7000 1 PH FIO Power Module Opt
 - Ten (10) HP Active Cool 2000 Fan Bundle
 - Two (2) HP c7000 Onboard Administrator with KVM Option
- Four (4) HP Virtual Connect Flex-10 10Gb Enterprise Edition for BladeSystem c7000 (with License)
- Four (4) HP 3Gb SAS Switch BladeSystem (individual SAS interconnect PN)
- Twenty-four (24) HP ProLiant BL460c G7 Server (Virtualization host), each with:
 - Two (2) HP BL460c G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor
 - Twelve (12) HP 8GB 2Rx4 PC3-10600R-7 Kit
 - One (1) HP Smart Array P700m/512 4-ports Ext PCIe x8 SAS Controller
 - Two (2) HP 146GB 6G SAS 15K 2.5in DP ENT HDD
- Four (4) HP ProLiant BL460c G7 Server (Management station), each with:
 - Two (2) HP BL460c G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor
 - Twelve (12) HP 8GB 2Rx4 PC3-10600R-7 Kit
 - One (1) HP Smart Array P700m/512 4-ports Ext PCIe x8 SAS Controller
 - Two (2) HP 146GB 6G SAS 15K 2.5in DP ENT HDD
- Eight (8) HP Ext Mini SAS 2m cable
- Two (2) HP MDS600 with (70 each in MDS600) 450GB LFF SAS Hard Disk Drive Bundle
- Four (4) HP Intelligent Mod PDU 40A NA/JPN Core (AF521A) or Two (2) HP PWR Monitoring PDU, 3PH, 48A NA/JPN (AF916A) for NA/JPN region or Four (4) HP Intelligent Mod PDU 32A Intl Core (AF525A) for EMEA and AP(excluding Japan).
- One (1) HP 10642G2 1200mm Side Panels



Configuration Information - Factory Integrated Models

- Two (2) HP BLc7000 10K Rack Ship Brkt Opt Kit
- One (1) HP 10K Rack Airflow Optimization Kit
- Two (2) HP 10pk Carbonite 1U Universal Filler Panel
- Twenty-eight (28) HP ICE Nm 1-Svr 24x7 Support
- One (1) HP Insight Software Media Kit
- One (1) HP Fctry Express Solution Package 4 SVC
- Two (2) HP Fctry Express Blade Svr Pkg 4 SVC
- Two (2) HP HP Fctry Exp Strg and Ntwking Pkg 4 SVC
- Twenty-eight (28) HP IC ML-DL-BL SW Sup
- Twenty-eight (28) Microsoft OS and Apps Support
- Two (2) c7000 Enclosure HW Supp - 3y 4hr 24x7
- Two (2) HP VCEM BL-c7000 SW Support
- Twenty-eight (28) BL4xxc Svr Bld HW Support
- Four (4) 3GB SAS BL Switch Support
- Two (2) MDS600 HW Support
- One(1) HP VirSys CV2 Ctrx Ext DAS 1800U SW Sup
- One (1) ProLiant Add On Options Installation SVC
- One (1) HP Virt Sys for CV2 Ctrx and MS Impl SVC
- Twenty-four (24) MS WS08 R2 Ent Ed 10CAL FIO Npi E,F,S SW
- Four (4) MS WS08 DataCnt2CPU FIO Npi Eng SW
- Four (4) HP 5m Multi-mode OM2 LC/LC FC Cable and Four (4) HP BLc 10Gb SR SFP+ Opt, or Four (4) HP 5m C-series Passive Copper SFP+ Cable
- Two (2) HP BLc VC 1Gb RJ-45 SFP Opt Kit
- Two (2) HP BLc SFP+ 1m 10GbE Copper Cable
- 4ft and 7ft Cat5e RJ45 cables (as needed)
- Eight (8) 10A IEC320 C14 -- C13 4.5ft US PDU Cable

NOTE: Following software is required for this solution configuration but is not included in the part number. Must be purchased separately.

- Citrix XenDesktop 5.5 Platinum edition, licensed by user/device for 1800 users
- MS System Center Virtual Machine Manager (SCVMM) Client for 1800 users

HP VirtualSystem CV2 "Base" with SAN configuration includes the following:

One (1) HP Universal Rack 10642 G2 1200mm Rack includes:

- One (1) HP BLc7000 3 IN LCD ROHS Enclosure
 - Six (6) HP 2400W Platinum Efficiency FIO Power Supply bundle
 - One (1) HP BLc7000 1 PH FIO Power Module Opt
 - Ten (10) HP Active Cool 2000 Fan Bundle
 - Two (2) HP c7000 Onboard Administrator with KVM Option
- Two (2) HP Virtual Connect Flex-10 10Gb Enterprise Edition for BladeSystem c7000 (with License)
- Two (2) HP 3Gb SAS Switch BladeSystem (individual SAS interconnect PN)
- Three (3) HP ProLiant BL460c G7 Server (Virtualization host), each with:
 - Two (2) HP BL460c G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor
 - Twelve (12) HP 8GB 2Rx4 PC3-10600R-7 Kit
 - Two (2) HP 146GB 6G SAS 15K 2.5in DP ENT HDD
- Two (2) HP ProLiant BL460c G7 Server (Management station), each with:
 - Two (2) HP BL460c G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor



Configuration Information - Factory Integrated Models

- Twelve (12) HP 8GB 2Rx4 PC3-10600R-7 Kit
- Two (2) HP 146GB 6G SAS 15K 2.5in DP ENT HDD
- One (1) HP P4800 G2 42TB SAS SAN Solution for BladeSystem - 2 node
- Four (4) HP Intelligent Mod PDU 40A NA/JPN Core (AF521A) or Two (2) HP PWR Monitoring PDU, 3PH, 48A NA/JPN (AF916A) for NA/JPN region or Four (4) HP Intelligent Mod PDU 32A Intl Core (AF525A) for EMEA and AP (excluding Japan).
- One (1) HP 10642G2 1200mm Side Panels
- One (1) HP BLc7000 10K Rack Ship Brkt Opt Kit
- One (1) HP 10K Rack Airflow Optimization Kit
- Three (3) HP 10pk Carbonite 1U Universal Filler Panel
- Five (5) HP ICE Nm 1-Svr 24x7 Support
- One (1) HP Insight Software Media Kit
- One (1) HP Fctry Express Solution Package 4 SVC
- One (1) HP Fctry Express Blade Svr Pkg 4 SVC
- One (1) HP Fctry Exp Dsk Array San Sw Pkg 4 SVC
- Five (5) HP IC ML-DL-BL SW Sup
- Five (5) Microsoft OS and Apps Support
- One (1) c7000 Enclosure HW Supp - 3y 4hr 24x7
- One (1) HP VCEM BL-c7000 SW Support
- Five (5) BL4xxc Svr Bld HW Support
- Two (2) 3GB SAS BL Switch Support
- One (1) P4800 G2 SAN Solution Support
- One (1) HP VirSys CV2 Ctrx Basic SAN 200U SW Sup
- One (1) ProLiant Add On Options Installation SVC
- One (1) HP Virt Sys for CV2 Ctrx and MS Impl SVC
- Three (3) MS WS08 R2 Ent Ed 10CAL FIO Npi E,F,S SW
- Two (2) MS WS08 DataCnt2CPU FIO Npi Eng SW
- Two (2) HP 5m Multi-mode OM2 LC/LC FC Cable and Two (2) HP BLc 10Gb SR SFP+ Opt, or Two (2) HP 5m C-series Passive Copper SFP+ Cable
- Two (2) HP BLc VC 1Gb RJ-45 SFP Opt Kit
- 7ft Cat5e RJ45 cables (as needed)
- Four (4) 10A IEC320 C14 -- C13 4.5ft US PDU Cable

NOTE: Following software is required for this solution configuration but is not included in the part number. Must be purchased separately.

- Citrix XenDesktop 5.5 Platinum edition, licensed by user/device for 200 users
- MS System Center Virtual Machine Manager (SCVMM) Client for 200 users

HP VirtualSystem CV2 "Extended" with SAN configuration includes the following:

One (1) HP Universal Rack 10642 G2 1200mm Rack includes:

- Two (2) HP BLc7000 3 IN LCD ROHS Enclosures each with:
 - Six (6) HP 2400W Platinum Efficiency FIO Power Supply bundle
 - One (1) HP BLc7000 1 PH FIO Power Module Opt
 - Ten (10) HP Active Cool 2000 Fan Bundle
 - Two (2) HP c7000 Onboard Administrator with KVM Option
- Four (4) HP Virtual Connect Flex-10 10Gb Enterprise Edition for BladeSystem c7000 (with License)
- Two (2) HP 3Gb SAS Switch BladeSystem (individual SAS interconnect PN)
- Sixteen (16) HP ProLiant BL460c G7 Server (Virtualization host), each with:



Configuration Information - Factory Integrated Models

- Two (2) HP BL460c G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor
- Twelve (12) HP 8GB 2Rx4 PC3-10600R-7 Kit
- Two (2) HP 146GB 6G SAS 15K 2.5in DP ENT HDD
- Two (2) HP ProLiant BL460c G7 Server (Management station), each with:
 - Two (2) HP BL460c G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor
 - Twelve (12) HP 8GB 2Rx4 PC3-10600R-7 Kit
 - Two (2) HP 146GB 6G SAS 15K 2.5in DP ENT HDD
- Two (2) HP P4800 G2 42TB SAS SAN Solution for BladeSystem - 2 node
- Four (4) HP Intelligent Mod PDU 40A NA/JPN Core (AF521A) or Two (2) HP PWR Monitoring PDU, 3PH,48A NA/JPN (AF916A) for NA/JPN region or Four (4) HP Intelligent Mod PDU 32A Intl Core (AF525A) for EMEA and AP(excluding Japan).
- One (1) HP 10642G2 1200mm Side Panels
- Two (2) HP BLc7000 10K Rack Ship Brkt Opt Kit
- One (1) HP 10K Rack Airflow Optimization Kit
- Two (2) HP 10pk Carbonite 1U Universal Filler Panel
- Eighteen (18) HP ICE Nm 1-Svr 24x7 Support
- One (1) HP Insight Software Media Kit
- One (1) HP Fctry Express Solution Package 4 SVC
- Two (2) HP Fctry Express Blade Svr Pkg 4 SVC
- Two (2) HP Fctry Exp Dsk Array San Sw Pkg 4 SVC
- Eighteen (18) HP IC ML-DL-BL SW Sup
- Eighteen (18) Microsoft OS and Apps Support
- Two (2) c7000 Enclosure HW Supp - 3y 4hr 24x7
- Two (2) HP VCEM BL-c7000 SW Support
- Eighteen (18) BL4xxc Svr Bld HW Support
- Two (2) 3GB SAS BL Switch Support
- Two (2) P4800 G2 SAN Solution Support
- One (1) HP VirSys CV2 Ctrx Ext SAN 1200U SW Sup
- One (1) ProLiant Add On Options Installation SVC
- One (1) HP Virt Sys for CV2 Ctrx and MS Impl SVC
- Sixteen (16) MS WS08 R2 Ent Ed 10CAL FIO Npi E,F,S SW
- Two (2) MS WS08 R2 DataCnt2CPU FIO Npi Eng SW
- Four (4) HP 5m Multi-mode OM2 LC/LC FC Cable and Four (4) HP BLc 10Gb SR SFP+ Opt, or Four (4) HP 5m C-series Passive Copper SFP+ Cable
- Two (2) HP BLc VC 1Gb RJ-45 SFP Opt Kit
- Two (2) HP BLc SFP+ 1m 10GbE Copper Cable
- 4ft and 7ft Cat5e RJ45 cables (as needed)
- Eight (8) 10A IEC320 C14 -- C13 4.5ft US PDU Cable

NOTE: Following software is required for this solution configuration but is not included in the part number. Must be purchased separately.

- Citrix XenDesktop 5.5 Platinum edition, licensed by user/device for 200 users
- MS System Center Virtual Machine Manager (SCVMM) Client for 1200 users

Step 2: Choose HP Care Pack Support and Additional Services

HP Service and Support HP 3yr Support Plus 24 is the required minimum support with HP VirtualSystem CV2



Configuration Information - Factory Integrated Models

for Microsoft and Citrix. The recommended service level is 3yr Critical Advantage Level 3. To choose support levels, select from one of the following support offers:

HP Support Plus 24 - 4yr or 5yr

NOTE: For a high return on your server and storage technology, our 3-year combined reactive support service delivers integrated onsite hardware/software support services available 24x7x365, including access to HP technical resources, 4-hour response onsite hardware support and software updates.

5yr Support Plus 24	HA110A5
4yr Support Plus 24	HA110A4
5yr Support Plus 24 w/DMR	HG930A5
4yr Support Plus 24 w/DMR	HG930A4

HP Proactive Select - 1yr, 3yr, 4yr, or 5yr

NOTE: Provides an assigned account support manager focused on technical and operational improvements specific to your business environment.

NOTE: With HP Proactive Select, you purchase credits that can be applied to any proactive service from our extensive menu that spans the entire lifecycle of your IT environment. For example, help with implementing a new technology, or proactive notification of critical network service problems.

NOTE: Available in packages of service credits, redeem them as you go, choosing the proactive services you need to fit your environment and critical IT and business goals.

NOTE: Care Pack Services for different duration and credit sizes are listed below.

HP 1Y Proactive Select 10 credits SVC	HK696A1
HP 1Y Proactive Select 30 credits SVC	HG921A1
HP 1Y Proactive Select 60 credits SVC	HG922A1
HP 1Y Proactive Select 180 credits SVC	HG923A1
HP 1Y Add 10 Proactive Select Credit SVC	HG924A1
HP 3Y Proactive Select 30 credits SVC	HK696A3
HP 3Y Proactive Select 90 credits SVC	HG921A3
HP 3Y Proactive Select 180 credits SVC	HG922A3
HP 3Y Proactive Select 540 credits SVC	HG923A3
HP 3Y Add 10 Proactive Select Credit SVC	HG924A3
HP 4Y Proactive Select 40 credits SVC	HK696A4
HP 4Y Proactive Select 120 credits SVC	HG921A4
HP 4Y Proactive Select 240 credits SVC	HG922A4
HP 4Y Proactive Select 720 credits SVC	HG923A4
HP 4Y Add 10 Proactive Select Credit SVC	HG924A4
HP 5Y Proactive Select 50 credits SVC	HK696A5
HP 5Y Proactive Select 150 credits SVC	HG921A5
HP 5Y Proactive Select 300 credits SVC	HG922A5
HP 5Y Proactive Select 900 credits SVC	HG923A5
HP 5Y Add 10 Proactive Select Credit SVC	HG924A5

HP Critical Advantage - 1yr, 3yr, 4yr, or 5yr

NOTE: Provides an assigned account team to deliver support and maintain uptime of business-critical, virtualized environments. An end-to-end infrastructure support solution (x86 server, OS/hypervisor, storage and network support), Critical Advantage



Configuration Information - Factory Integrated Models

provides flexible reactive hardware service levels, proactive services, and access to the Global Mission Critical Solution Center for business critical applications running on virtualized x86 infrastructures.

NOTE: Choose between Level 2 for 24x7 reactive or Level 3 for 6 hour Call-to-Repair.

Locate more information on Critical Advantage at the following URL:

http://intranet.hp.com/tsg/ams3/services/002/Service_Solutions_MC/Pages/CriticalAdvantage.aspx

5yr Critical Advantage L3	HK777A5
4yr Critical Advantage L3	HK777A4
3yr Critical Advantage L3	HK777A3
5yr Critical Advantage L3 w/DMR	HK780A5
4yr Critical Advantage L3 w/DMR	HK780A4
3yr Critical Advantage L3 w/DMR	HK780A3
5yr Critical Advantage L2	HK776A5
4yr Critical Advantage L2	HK776A4
3yr Critical Advantage L2	HK776A3
5yr Critical Advantage L2 w/DMR	HK779A5
4yr Critical Advantage L2 w/DMR	HK779A4
3yr Critical Advantage L2 w/DMR	HK779A3



Technical Specifications

HP VirtualSystem CV2 for Microsoft and Citrix	Dimensions	Height	42U, 78.89 in (200.4 cm)	
		Width	24 in (59.7 cm)	
		Depth	50.50 in (128.27 cm)	
	Shipping Dimensions	Height	86.22 in (219 cm)	
		Width	35.60 in (90.42 cm)	
		Depth	57.90 in (147.06 cm)	
	Weight (approximate)	CV2 (Base,DAS)	Static	1180 lb (535 kg)
		CV2 (Extended,DAS)	Static	2225 lb (1009 kg)
		CV2 (Base,SAN)	Static	1277 lb (579 kg)
		CV2 (Extended,SAN)	Static	2126 lb (964 kg)
	Color	Doors	Graphite Metallic	
		Frame	Carbon	
Clearance (for air flow and access)	Front	48 in (121.9 cm)		
	Rear	30 in (76.2 cm)		
Temperature range	Operating	50° to 95° F (10° to 35° C)		
	Non-Operating	-22° to 140° F (-30° to 60° C)		
Relative humidity	Operating	15 to 85% relative humidity (Rh) 28°C (82.4°F) maximum wet bulb temperature, non-condensing		
	Non-Operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F)maximum wet bulb temperature, non- condensing.		
Power Usage - maximum	CV2 (DAS)	4,658 watts (at 208V) - Base configuration 14,191 watts (at 208V) - Extended configuration		
	CV2 (SAN)	4,985 watts (at 208V) - Base configuration 12,405 watts (at 208V) - Extended configuration		
BTU rating, maximum	CV2 (DAS)	15,890 BTU/hour - Base configuration 48,410 BTU/hour - Extended configuration		
	CV2 (SAN)	17,000 BTU/hour - Base configuration 42,320 BTU/hour - Extended configuration		

NOTE: Operating temperature has an altitude derating of 1.8° F (1° C) per 1,000 ft (304.8 m). No direct sustained sunlight. Upper operating limit is 10,000 ft (3,048 m) or 70Kpa/10.1 psia. Upper non-operating limit is 30,000 ft (9,144 m) or 30.3 KPa/4.4 psia.

NOTE: To review maximum system power ratings for facilities planning purposes use the HP Power Advisor at: <http://www.hp.com/go/hppoweradvisor>.



Technical Specifications

Environmental-friendly products and approach

End-of-life management and recycling

Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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