



IBM Power Systems Hardware Management Console delivers a virtual appliance format for increased deployment flexibility

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At a glance

The IBM^(R) Power SystemsTM Hardware Management Console (HMC) virtual appliance can be used to manage any of the systems that are supported by the version 8 HMC, which includes Power Systems servers with IBM POWER6^(R), POWER7^(R), and POWER8^(R) processors.

The Power Systems HMC virtual appliance offers these benefits:

- Provides hardware, service, and basic virtualization management for your Power Systems servers
- Offers the same functionality as the traditional HMC
- Runs as a virtual machine on an x86 server virtualized either by VMware ESXi or Red Hat KVM

Overview

With the introduction of the HMC virtual appliance, a new option gives clients additional flexibility to deploy an HMC to manage IBM Power Systems servers. Clients can use the option to provide the hardware and server virtualization to host the IBM supplied HMC virtual appliance.

Key prerequisites

Hardware:

- x86 64-bit hardware with hardware virtualization assists (IntelTM VT-x or AMD-V).
- Resources for the HMC virtual appliance VM: Four CPUs, 8 GB of memory, 160 GB of disk space, and two network interfaces.
- IBM Power Systems HMC Virtual appliance will also be included as part of all Pure Power^(R) Primary Manager Node Indicator 8374-01M feature EHKZ orders.

Software:

- Virtualization: Either VMware ESXi V5 or Red Hat Enterprise LinuxTM 6.x with KVM

Planned availability date

November 20, 2015

Description

The HMC virtual appliance enables clients to host the HMC virtual appliance as a virtual machine (VM) in their existing virtual environments or to provide a dedicated virtualized environment for the HMC virtual appliance. The hardware appliance HMC and the virtual appliance HMC function essentially the same.

The HMC virtual appliance can be used to manage any of the systems that are supported by the version 8 HMC, which includes Power Systems servers with IBM POWER6, POWER7, and POWER8 processors.

Clients can use Power Systems HMCs in any of the following configurations:

- Only hardware appliance HMCs
- Only virtual appliance HMCs
- A combination of hardware appliance and virtual appliance HMCs

Program number

Program number	VRM	Program name
5765-HMV	8.8.4	HMC virtual appliance

Product identification number

Program PID number	Maintenance 1-year PID number	Maintenance 3-year PID number
5765-HMV	5560-HMV	5662-HMV, 5663-HMV
	5661-HMV ALC	5664-HMV ALC

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Publications

No publications are shipped with this program.

Technical information

Specified operating environment

Hardware requirements

- x86 64-bit hardware with hardware virtualization assists (Intel VT-x or AMD-V)
- Resources for the HMC virtual appliance VM
 - Four CPUs, 8 GB of memory, 160 GB of disk space, and two network interfaces

Software requirements

- Virtualization
 - Either VMware ESXi V5, or later, or Red Hat Enterprise Linux 6.x with KVM

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

The HMC virtual appliance has a few differences from the hardware appliance HMC that are noted below;

- An activation engine which allows providing unique configuration during initial deployment
- Differences in the way the license acceptance dialog is presented
- Support for multiple virtual disks for additional data storage
- Format of physical media is not supported. This is supported through a virtual device attached to the VM.

Since the hardware and server virtualization is supplied by the client to run the HMC virtual appliance, this infrastructure that actually hosts the HMC virtual appliance is not monitored by IBM. The HMC virtual appliance does continue to monitor the Power Systems hardware just like the HMC hardware appliance. Both HMC form factors provide remote notification of system errors for the managed Power Systems servers.

Any software maintenance that is required for the HMC virtual appliance is done using the same procedure as is currently performed using fix central with the hardware based HMC. For further information on the HMC maintenance strategy, visit

<https://www-304.ibm.com/webapp/set2/sas/f/power5cm/home.html>

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement. Read about the Electronic Support portfolio of tools

<http://ibm.com/electronicssupport>

Access the IBM Support Portal

<http://ibm.com/support>

Access the online Service Request tool

<http://ibm.com/support/servicerequest>

Planning information

Packaging

The IBM HMC Virtual Appliance Standard Edition contain DVDs that include product installation documentation and files.

Your Proof of Entitlement (PoE) for this program is a copy of a paid sales receipt, purchase order, invoice, or other sales record from IBM or its authorized reseller from whom you acquired the program, provided that it states the license charge unit

(the characteristics of intended use of the program, number of processors, number of users) and quantity acquired.

Information about how you may obtain program services will be provided by the party (either IBM or its authorized reseller) from whom you acquired the program.

Electronic download is available for this offering:

- Prerequisite - SWMA and license announced as BT19 (customer entitled)
- Prerequisite - SWMA active in AAS / CHIS

How to get access to software downloads for customer-entitled products:

1. Go to ESS
<http://www.ibm.com/eserver/ess>
2. Enter your customer number during registration.
3. If CHIS service, select the contract number and use that for validation.
4. If brand SWMA, select the system number:
 - a. BT19 SWMA will get a dummy system number most of the time.
 - b. The customer should call the WW Software Key Support (phone number or email under Contacts on ESS).
 - c. Customer support will provide a system number value for registration.
 - d. If you have any other contracts with IBM for system-entitled products, you can use that information for registration (as access is per customer number or enterprise in US).
5. When registration is completed, go to Software download and find the software there (select OS and version and look for the license on the resulting list).

Ordering information

5765-HMV - HMC Virtualization Appliance V8.8.4

Description	OTC feature number
Per Install with 1-yr SWMA	C2LA
ESD	3450
Supply	5809

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after-license feature number.

- 5660-HMV HMC Virtualization Appliance R/R 1yr
- 5661-HMV HMC Virtualization Appliance A/L 1yr
- 5662-HMV HMC Virtualization Appliance Reg 3yr
- 5663-HMV HMC Virtualization Appliance Ren 3yr
- 5664-HMV HMC Virtualization Appliance A/L 3yr

5660-HMV - SW Maintenance Registration/Renewal 1 Year

Description	Feature number
Per Install registration with 1-yr SWMA	2192
Per Install renewal	2191

5661-HMV - SW Maintenance 1-Year After-License Charge

Description	Feature number
Per Install ALC	0882

5662-HMV - SW Maintenance Registration 3 Year

Description	Feature number
Per Install registration	1378

5663-HMV - SW Maintenance Renewal 3 Year

Description	Feature number
Per Install renewal	0380

5664-HMV - SW Maintenance 3-Year After-License Charge

Description	Feature number
Per Install ALC	A2EP

Charge metric

Media type	Media feature number	Media process charges feature number
DVD	3435	1100 Media Charge
DVD	3435	1101 Media No-Charge

Install

Install is a unit of measure by which the program can be licensed. An *install* is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage^(R) Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Subscription and Support (also referred to as Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

License Information number

LC27-8309

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

Yes. Contact your IBM representative.

Passport Advantage applies

No

Software Subscription and Support applies

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available,

electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Handbook at

<http://www.ibm.com/support/handbook>

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

For more information about the Passport Advantage^(R) Agreement, visit the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

15% to qualified educational institution customers.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

IBM Electronic Services

Electronic Service AgentTM and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support, all at no additional cost to you.

Now integrated into the base operating system of AIX^(R) V6.1, and AIX V7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure

Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type `smitty esa_main`, and select Configure Electronic Service Agent. In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

<http://www.ibm.com/support/electronic>

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent™ tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the symptoms, diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool is designed to securely transmit either via the Internet (HTTPS or VPN) or modem to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system.

For additional information, please refer to IBM Electronic Service Agent

<http://www.ibm.com/support/esa/>

More accurate reporting: Because system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, you are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, you can view system and support information in the My Systems and Premium Search sections of the Electronic Support website at

<http://www.ibm.com/support/electronic>

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with your IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, you are able to see search results that apply specifically to your systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

<http://www.ibm.com/support/electronic>

Prices

For all local charges, contact your IBM representative.

Software Maintenance

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

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- 5664-HMV HMC Virtualization Appliance A/L 3yr

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<http://www.ibm.com/financing>

AP distribution

Country/Region	Announced
AP IOT	
ASEAN *	Yes
India/South Asia **	Yes
Australia	Yes
Hong Kong	Yes
Macao	Yes
New Zealand	Yes
People's Republic of China	Yes
South Korea	Yes
Taiwan	Yes
Japan IOT	
Japan	Yes

* Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Philippines, Singapore, Thailand, Timor-Leste, and Vietnam

** Bangladesh, Bhutan, India, Maldives, Nepal, and Sri Lanka

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