



IBM Platform Cluster Manager - Standard Edition V4.1 allows you to manage a complex cluster as a single system

Table of contents

1 Overview	4 Publications
2 Key prerequisites	4 Technical information
2 Planned availability date	7 Ordering information
2 Description	9 Terms and conditions
3 Product positioning	11 Prices
3 Program number	12 Order now

At a glance

IBM® Platform Cluster Manager - Standard Edition V4.1 offers:

- Operating system (OS) provisioning and maintenance
- Software components deployment and management
- Customizable cluster monitoring
- Historical cluster usage and performance reporting
- Seamless integration with xCAT to deliver greater scalability
- Easy-to-use, centralized web interface

Overview

IBM Platform Cluster Manager - Standard Edition V4.1 is easy-to-use, powerful, cluster management software for technical computing clusters. It allows system administrators to manage a complex cluster as a single system by automating deployment of the operating system and software components, as well as complex management activities such as provisioning and maintenance of a cluster. It provides centralized monitoring with alerts and customizable alert actions.

Platform Cluster Manager - Standard Edition has the following unique capabilities:

- Operating system (OS) provisioning. It supports Red Hat Enterprise Linux™ family operating systems for both x86_64 and POWER® systems. It can provision the operating system together with software components.
- Kits framework simplifies software deployment and maintenance in a technical computing environment. This framework is used within an x86 ecosystem to deploy software like InfiniBand drivers, GPU runtime software, and so on.
- Robust and scalable monitoring system that is easy to extend and customize. The monitoring capability expands the entire infrastructure that includes server, networking, and storage. The monitoring agent uses the same technology as is used in IBM Platform LSF® and IBM Platform Symphony® offerings.
- Easy-to-use, centralized web portal that allows administrators to access and manage the cluster from anywhere.
- Reports on statistics of the cluster usage and performance.
- Greater management scalability via embedded xCAT technology. Platform Cluster Manager - Standard Edition can scale up to 1000 nodes via GUI.

IBM Platform Cluster Manager - Standard Edition delivers the following benefits:

- Faster, time-to-cluster readiness
- Reduced infrastructure and management costs
- Improved administrator productivity
- Increased cluster uptime
- Greater management scalability

IBM Platform Cluster Manager - Standard Edition V4.1 runs on the latest generation of IBM System x® iDataPlex®, IBM PureSystems™, and other rack-based and blade servers. It is also supported on industry-standard, non-IBM x86 hardware. By pre-qualifying and certifying these platforms, IBM can help you reduce the risk of deploying and managing the mission-critical compute clusters.

Licenses for offerings in this announcement include Software Subscription and Support. Software Subscription and Support contracts are managed in Passport Advantage®. Refer to the [Software Subscription and Support applies](#) section of this announcement for further details.

If a new release of the offering in this announcement is made generally available in Passport Advantage after the announcement of the offering in System x ordering systems, clients with valid Software and Subscription contracts may elect to take electronic delivery of the latest release.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Key prerequisites

- A cluster computing environment comprised of two or more servers.
- A head node that has at least one network interface
- A supported operating system preinstalled on the head node.
- Access to the operating system media or image file used for installation of the operating system on all nodes in the cluster.
- Non-head nodes that can be set to PXE boot.

For additional information, refer to the [Technical information](#) section.

Planned availability date

March 15, 2013

Description

IBM Platform Cluster Manager - Standard Edition

Easy-to-use, comprehensive cluster management software

IBM Platform Cluster Manager - Standard Edition makes it easy to deploy and manage a technical computing cluster. It provides a robust set of cluster management capabilities that includes cluster provisioning, cluster monitoring, and node management. All the functions required to operate a cluster are installed at once and are tightly integrated. The next-generation web portal provides a single point of access into the cluster. It makes it easy to manage a complex cluster as a single system.

Flexible and powerful

IBM Platform Cluster Manager - Standard Edition allows administrators to define provisioning templates for ease of software package management on cluster nodes. Adding or removing software components can be done without rebooting the operating system. The kits framework allows third-party users to package multiple software components with the configuration, then deploy them into the cluster nodes. The cluster monitoring data is stored in a relational database for reporting and analysis.

Seamless integration with IBM hardware

IBM Platform Cluster Manager - Standard Edition runs on various types of IBM servers that include the most recent iDataPlex release, IBM PureSystems , rack-based servers, as well as Power® based systems. It provides monitoring capability for IBM server, storage and networking systems for efficient utilization of the overall infrastructure.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Product positioning

IBM Platform Cluster Manager - Standard Edition V4.1 is easy-to-use, powerful, cluster management software that improves the productivity of Technical Computing users by reducing the cluster management complexity.

Platform Cluster Manager - Standard Edition V4.1 delivers a comprehensive set of cluster provisioning, monitoring and reporting capabilities for technical computing users. It automates the deployment of the operating system and software components, as well as complex activities such as provisioning and maintenance of a cluster. The centralized, user friendly, user interface allows system administrators to manage a complex cluster as a single system from anywhere.

IBM Platform Cluster Manager - Standard Edition delivers the following benefits:

- Faster, time-to-cluster deployment
- Reduced infrastructure management costs
- Improved administrator and user productivity
- Increased cluster up time for high system availability
- Greater cluster provisioning capability

Program number

Program number	VRM	Program name
5641-CM6	4.1.0	Platform Cluster Manager, V4.1 with one-year S&S
5641-CM7	4.1.0	Platform Cluster Manager, V4.1 with three-year S&S
5641-CM8	4.1.0	Platform Cluster Manager, V4.1 with five-year S&S
5641-CMG	4.1.0	Platform Cluster Manager, V4.1 Term License with one-year S&S

Product identification number

5641-CM6
5641-CM7
5641-CM8
5641-CMG

Offering Information

Product information is available via the Offering Information website

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

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=213-015>

Publications

No hardcopy publications are shipped with this program.

The following publications and documentation are shipped with the product and available on the web:

- Installing IBM Platform Cluster Manager - Standard Edition
- Administering IBM Platform Cluster Manager - Standard Edition
- Getting Started with IBM Platform Cluster Manager - Standard Edition (Admin)
- Release Notes for IBM Platform Cluster Manager - Standard Edition 4.1

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 50 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements

The IBM Platform Cluster Manager - Standard Edition requires the following hardware:

- Minimum requirements for management node:
 - 2.5 GB of physical memory (RAM) for management node
 - 80 GB free disk space
 - At least one Ethernet interface
 - DVD drive

- Minimum requirements for compute node for stateful package-based installation
 - 1 GB of physical memory (RAM) for compute node
 - 40 GB free disk space
 - One Ethernet interface
- Minimum requirements for stateless installation
 - 4 GB of physical memory (RAM)
 - One Ethernet interface

Software requirements

One of the following operating systems is required:

- Red Hat Enterprise Linux 6.3 x86 64-bit
- Red Hat Enterprise Linux 6.3 POWER
- Red Hat Enterprise 5.8 x86 64-bit (non-head node)
- CentOS 6.3 x86 64-bit (non-head node)

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.

Companion products

Typical use of this product is in conjunction with HPC workload managers such as IBM Platform LSF, IBM Platform Symphony, Oracle Grid Engine, PBS, Maui/Moab, and Hadoop.

Compatibility

Platform Cluster Manager - Standard Edition V4.1 is compatible with most cluster technologies. Compatibility is limited by the operating systems supported.

Limitations

Refer to the [Terms and conditions](#) section of this announcement or to the License Information document that is available on the IBM Software License Agreement website

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

Performance considerations

The performance of this product depends upon many factors, including the number of nodes in the cluster, the number of users querying the system, and the frequency of queries. As these increase, the scheduling cycle and user response time will increase.

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, at no additional charge.

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Access the IBM Support Portal

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Access the online Service Request tool

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

Planning information

You must provide at least the minimum hardware and software environments in which the IBM Platform Cluster Manager - Standard Edition will operate. It is recommended to assign a systems administrator who has responsibility for planning, installation, maintaining, and administering the program.

While the installation procedures for Platform Cluster Manager are easy, fast, and have been tested carefully, as with any installation, it is prudent to ensure that backups exist and you prepare for the installation in advance.

Customer responsibilities

Refer to the [Limitations](#) section.

Installability

IBM Platform Cluster Manager - Standard Edition V4.1 requires the head node to have a fresh install of Red Hat Enterprise Linux 6.3 x86 64-bit in basic server mode or Red Hat Enterprise Linux 6.3 POWER .

Packaging

After receipt of an order, the Business Partner or user client will be required to register and accept Passport Advantage or Passport Advantage Express® terms and conditions. The product includes the license and Software Subscription and Support.

Your Proof of Entitlement 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; for example, number of processors, number of users) and quantity acquired.

For software products in this announcement, physical media and hardcopy documentation are not included in the deliverable package. The software code is delivered only through electronic download.

Platform Cluster Manager - Standard Edition V4.1 is distributed on multiple DVD media options and available for electronic download with multiple eAssemblies. Included are:

- IBM International Program License Agreement (L-ACHG-8ZBK4F) in multiple languages
- Release notes
- Installation or User's Guide
- Required files

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

Platform Cluster Manager - Standard Edition uses the security and auditability features of the system in which it is installed. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

This product is only available via Passport Advantage . It is not available as shrinkwrap.

Charge metric

Program name	Part number or PID number	Charge metric
IBM Platform Cluster Manager	5641-CM6	Managed Server (Document link:) with one-year S&S
IBM Platform Cluster Manager	5641-CM7	Managed Server with three-year S&S
IBM Platform Cluster Manager	5641-CM8	Managed Server with five-year S&S
IBM Platform Cluster Manager	5641-CMG	Managed Server Term License with one-year S&S

Managed Server

Managed Server is a unit of measure by which the program can be licensed. A server is a physical computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or client devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server.

Licensee must obtain entitlements for each server running the program and for each server being managed by the program.

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- At the end of each term (most commonly 12 months), the license may be renewed for an additional term (at the prevailing price). When licensee renews the Term License in the second term, and in each term thereafter, this is referred to as a "Subsequent Term License plus Software Subscription and Support". If the license is not renewed, licensee will no longer have the rights to use the program, will no longer be entitled to the benefits of Software Subscription and Support, and licensee must destroy all copies of the program.

Orders for new licenses will be accepted now. Electronic download ability begins on the planned availability date.

To order the programs described in this announcement, specify the type model number, order type description, supply feature, and quantity of desired licenses for the appropriate one-time charge (OTC) features listed in the tables below.

After receipt of your order, you will be requested to register through Passport Advantage Express to allow for entitlement for support and notification of upgrades. Upon registration completion you will be provided with a website for the electronic download. The one-time charge for the product includes the license and Software Subscription and Support.

Single entity offering (SEO) numbers in the table below can be ordered through ibm.com. The SEO numbers in the table below are equivalent to the type model number, description, supply feature, and OTC billing feature numbers as designated in the table. After receipt of your order, you will be requested to register through Passport Advantage Express to allow for entitlement for support and notification of upgrades. Upon registration completion, you will be provided with a website for the electronic download. The one-time charge for the product includes the license and Software Subscription and Support.

Program number and feature description	Supply feature number	OTC billing feature number	SEO number
5641-CM6 IBM Platform Cluster Manager V4.x Standard Edition Per Managed Server with one-year SW S&S	NA	0472	00AE200
5641-CM7 IBM Platform Cluster Manager V4.x Standard Edition Per Managed Server with three-year SW S&S	NA	0473	00AE201
5641-CM8 IBM Platform Cluster Manager V4.x Standard Edition Per Managed Server with five-year SW S&S	NA	0474	00AE202
5641-CMG IBM Platform Cluster Manager V4.x Standard Edition Per Managed Server Term License with one-year SW S&S	NA	0478	00AE203

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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

These programs are licensed under the IBM Program License Agreement (IPLA). IBM includes one, three, or five years of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired.

License Information form number

L-ACHG-8ZBK4F

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).

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

Software Subscription and Support applies

Yes. The offerings in this announcement include one year, three years, or five years of Software Subscription and Support (Software Maintenance) in the price of the license.

Program Technical Support

Technical support of a program product will be available for a minimum of three years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates, releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education 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

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic services is a web-enabled solution that offers an exclusive no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary elements: Electronic Services news page and Electronic Services Agent.

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To learn how Electronic Services can work for you, visit

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

Prices

For additional information and current prices, contact your local IBM representative.

Program number and feature description	OTC billing feature number	SEO number
5641-CM6 IBM Platform Cluster Manager V4.x Standard Edition Per Managed Server with one-year SW S&S	0472	00AE200
5641-CM7 IBM Platform Cluster Manager V4.x Standard Edition Per Managed Server with three-year SW S&S	0473	00AE201
5641-CM8 IBM Platform Cluster Manager V4.x Standard Edition Per Managed Server with five-year SW S&S	0474	00AE202
5641-CMG IBM Platform Cluster Manager V4.x Standard Edition Per Managed Server Term License with one-year SW S&S	0478	00AE203

Pricing terms

Prices in the following PDF prices link are suggested list prices on day of announcement for the U.S. only. They are provided for your information only. Dealer prices may vary, and prices may also vary by country. IBM list price does not include tax or shipping and is subject to change without notice.

[ENUS-213-015-LIST_PRICES_2013_02_05.PDF](#)

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