



IBM Rack-mounted Hardware Management Console enables control and management of IBM POWER processor-based servers

Table of contents

1 Overview	7 Publications
2 Key prerequisites	7 Technical information
2 Planned availability date	10 Terms and conditions
2 Description	15 Prices
3 Statement of general direction	20 Order now
3 Product number	

At a glance

The Hardware Management Console (HMC) V7R760 is designed to deliver support for:

- RAID 1, enabling data redundancy and high levels of performance
- Power® servers and management of BladeCenter® power blade servers
- Up to 16 concurrent live partition mobility (LPM) activities with PowerVM®
- Latest web browsers

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

Overview

The Hardware Management Console (HMC) is updating its underlying appliance hardware to stay current with updates in hardware technology. The 7042-CR6 system is being replaced with the 7042-CR7.

RAID 1:

HMCs now offer a high-availability feature. The new 7042-CR7, by default, includes two hard drives with RAID 1 configured. If you prefer not to have RAID 1 enabled on the HMC, you can override it in the ordering system and remove the additional HDD from the order.

RAID 1 is also offered on both the 7042-CR6 and the 7042-CR7 as an MES upgrade option.

RAID 1 uses data mirroring. Two physical drives are combined into an array, and data is striped across the array. The first half of a stripe is the original data; the second half is a mirror (that is, a copy) of the data, but it is written to the other drive in the RAID 1 array.

RAID 1, which requires two physical drives, enables data redundancy.

Blade management:

The HMC gives systems administrators a tool for planning, virtualizing, deploying, and managing IBM Power System servers.

With the introduction of HMC V7R760, the HMC can now manage IBM BladeCenter Power Blade servers. This includes support for dual VIOS, live partition mobility between blades and rack servers, and management of both blades and rack servers from a single management console.

Removal of internal modem:

Future releases of the HMC hardware will not offer an internal modem option.

New features:

- Updated browser support: With the release of V7R760, the HMC now supports Mozilla Firefox 7 through 10 and Microsoft™ Internet Explorer 7 through 9.
- Capacity on Demand enhancements: To better support IBM Pooled Capacity on the Power 795 system, you can now order an unlimited amount of CoD days. The previous limit was 9999.

PowerVM management enhancements:

- IBM PowerVM and the HMC now support up to 16 concurrent live partition mobility (LPM) activities.
- You can specify the destination Fibre Channel port for any or all virtual Fibre Channel adapters during a live partition migration.
- You can create up to 20 partitions per processor core.
- During DLPAR add or remove of virtual I/O adapters to or from a VIOS, the HMC now automatically attempts to run the Add/Remove commands (cfgdev/rmdev) on the VIOS. In earlier releases, you would have to manually run these commands on the VIOS.

Supported models:

HMC V7R760 is the last release to be supported on models 7310-C04, 7315-CR2, and 7310-CR2. Future HMC releases will not be supported on C04 or CR2.

Key prerequisites

A POWER5, or later, processor-based server that supports an HMC

Planned availability date

November 16, 2012

Description

Transitioning from SDMC/IVM Management to HMC Management: Transitioning from SDMC management of blades to HMC management of blades simply requires the user to add the blades to the management domain of the new console (HMC). This can be performed without a blade server outage.

The process for converting IVM managed blades to be HMC managed is the same as the process for converting IVM managed rack servers to HMC managed rack servers. When converting from IVM to HMC managed blades, all partitions must be manually reconfigured and a blade server outage is required.

Refer to the Power Systems™ HW Information Center for more information.

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

Section 508 of the US Rehabilitation Act

The IBM 7042-CR7 Rack-mounted Hardware Management Console is capable as of September 17, 2010, when used in accordance with IBM's associated documentation, of minimally satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided the user attaches another system that contains the assistive technology necessary to interact through a command-line interface.

Statement of general direction

IBM intends to provide an automated process for transitioning from IBM Integrated Virtualization Manager (IVM) managed blades to IBM Hardware Management Console (HMC) managed blades, without a required blade server outage, in a future update to the HMC.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Product number

The following are newly announced features on the specific models of the IBM Power Systems 7042 machine type:

Description	MT	Model	Feature
Rack-mount Hardware Management Console	7042	CR7	
RAID 1 Upgrade for CR7	7042	CR7	EB2S
ADDTNL 8GB(1X8GB), 1.333GHZ DDR3 LP RDIMMS	7042	CR7	EM07
RFID Tags for Servers, Compute Nodes, Chassis, Racks, and HMCs	7042	CR7	ERF1
HMC CR5/CR6 Redundant Power Supply, 550 W	7042	CR7	EU02

The following are features already announced for the IBM Power Systems 7042 machine type:

Description	MT	Model	Feature
Internal Modem	7042	CR7	0033
Balanced Warehouse Solution Indicator	7042	CR7	0710
Manufacturing Routing Code for CSC	7042	CR7	0712
Hardware Management Console Licensed Machine Code v7	7042	CR7	0962
US TAA Compliance Indicator	7042	CR7	0983

Modem Cable - US/Canada and General Use	7042	CR7	1025
Smart Analytics System routing indicator	7042	CR7	1114
Custom Service Specify, Rochester Minn, USA	7042	CR7	1140
8GB Pluggable USB Memory Option	7042	CR7	1208
ADDTNL 500GB SATA HDD, 2.5" SLIM-HS	7042	CR7	1998
Widescreen LCD Monitor	7042	CR7	3632
IBM T120 Flat Panel Monitor	7042	CR7	3643
IBM T119 Flat Panel Monitor	7042	CR7	3644
IBM T117 Flat Panel Monitor	7042	CR7	3645
1.8 M (6-ft) Extender Cable for Displays (15-pin D-shell to 15-pin D-shell)	7042	CR7	4242
Extender Cable - USB Keyboards, 1.8M	7042	CR7	4256
One and only one rack indicator feature is required on all orders (#4650 to #4666).			
Rack Indicator- Not Factory Integrated	7042	CR7	4650
Rack Indicator, Rack #1	7042	CR7	4651
Rack Indicator, Rack #2	7042	CR7	4652
Rack Indicator, Rack #3	7042	CR7	4653
Rack Indicator, Rack #4	7042	CR7	4654
Rack Indicator, Rack #5	7042	CR7	4655
Rack Indicator, Rack #6	7042	CR7	4656
Rack Indicator, Rack #7	7042	CR7	4657
Rack Indicator, Rack #8	7042	CR7	4658
Rack Indicator, Rack #9	7042	CR7	4659
Rack Indicator, Rack #10	7042	CR7	4660
Rack Indicator, Rack #11	7042	CR7	4661
Rack Indicator, Rack #12	7042	CR7	4662
Rack Indicator, Rack #13	7042	CR7	4663
Rack Indicator, Rack #14	7042	CR7	4664
Rack Indicator, Rack #15	7042	CR7	4665
Rack Indicator, Rack #16	7042	CR7	4666
RFID Tags for Servers, Blades, BladeCenters, Racks, and HMCs	7042	CR7	5524
Full width Keyboard -- USB, US English, #103P	7042	CR7	5951
Full width Keyboard -- USB, French, #189	7042	CR7	5952
Full width Keyboard -- USB, Italian, #142	7042	CR7	5953
Full width Keyboard -- USB, German/Austrian, #129	7042	CR7	5954
Full width Keyboard -- USB, UK English, #166P	7042	CR7	5955
Full width Keyboard -- USB, Spanish, #172	7042	CR7	5956
Full width Keyboard -- USB, Japanese, #194	7042	CR7	5957
Full width Keyboard -- USB, Brazilian Portuguese, #275	7042	CR7	5958
Full width Keyboard -- USB, Hungarian, #208	7042	CR7	5959
Full width Keyboard -- USB, Korean, #413	7042	CR7	5960
Full width Keyboard -- USB, Chinese, #467	7042	CR7	5961
Full width Keyboard -- USB, French Canadian, #445	7042	CR7	5962
Full width Keyboard -- USB, Canadian French, #058	7042	CR7	5963
Full width Keyboard -- USB, Belgian/UK, #120	7042	CR7	5964
Full width Keyboard -- USB, Swedish/Finnish, #153	7042	CR7	5965
Full width Keyboard -- USB, Danish, #159	7042	CR7	5966
Full width Keyboard -- USB, Bulgarian, #442	7042	CR7	5967
Full width Keyboard -- USB, Swiss/French/German, #150	7042	CR7	5968
Full width Keyboard -- USB, Norwegian, #155	7042	CR7	5969
Full width Keyboard -- USB, Dutch, #143	7042	CR7	5970
Full width Keyboard -- USB, Portuguese, #163	7042	CR7	5971
Full width Keyboard -- USB, Greek, #319	7042	CR7	5972
Full width Keyboard -- USB, Hebrew, #212	7042	CR7	5973
Full width Keyboard -- USB, Polish, #214	7042	CR7	5974
Full width Keyboard -- USB, Slovakian, #245	7042	CR7	5975
Full width Keyboard -- USB, Czech, #243	7042	CR7	5976
Full width Keyboard -- USB, Turkish, #179	7042	CR7	5977
Full width Keyboard -- USB, LA Spanish, #171	7042	CR7	5978
Full width Keyboard -- USB, Arabic, #253	7042	CR7	5979
Full width Keyboard -- USB, Thai, #191	7042	CR7	5980
Full width Keyboard -- USB, Russian, #443	7042	CR7	5981
Full width Keyboard -- USB, Slovenian, #234	7042	CR7	5982
Full width Keyboard -- USB, US English Euro, #103P	7042	CR7	5983
Power Cord 4.3m (14-ft), Drawer to Wall/IBM PDU (250V/10A)	7042	CR7	6458
Power Cord 4.3m (14-ft), Drawer To OEM PDU (125V, 15A)	7042	CR7	6460

Power Cord 4.3m (14-ft), Drawer to wall/OEM PDU (250V/15A) U. S.	7042	CR7	6469
Power Cord 1.8m (6-ft), Drawer to wall (125V/15A)	7042	CR7	6470
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU (125V/15A)	7042	CR7	6471
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU (250V/16A)	7042	CR7	6472
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU (250V/10A)	7042	CR7	6473
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU, (250V/13A)	7042	CR7	6474
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU, (250V/16A)	7042	CR7	6475
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU, (250V/10A)	7042	CR7	6476
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU, (250V/16A)	7042	CR7	6477
Power Cord 2.7 M(9-foot), To wall/OEM PDU, (250V, 16A)	7042	CR7	6478
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU, (125V/15A or 250V/10A)	7042	CR7	6488
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU, (250V/10A)	7042	CR7	6493
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU, (250V/10A)	7042	CR7	6494
Power Cord (9-foot), To wall/OEM PDU, (250V, 10A)	7042	CR7	6495
Power Cord 2.7M (9-foot), To wall/OEM PDU, (250V, 10A)	7042	CR7	6496
Power Cable - Drawer to IBM PDU, 200-240v/10A	7042	CR7	6577
Power Cord 2.7M (9-foot), To wall/OEM PDU, (125V, 15A)	7042	CR7	6651
Power Cord 2.7M (9-foot), To wall/OEM PDU, (250V, 15A)	7042	CR7	6659
Power Cord 4.3m (14-ft), Drawer to wall/OEM PDU (125V/15A)	7042	CR7	6660
Power Cord 2.8m (9.2-ft), Drawer to wall/IBM PDU, (250V/10A)	7042	CR7	6665
Power Cord 4.3M (14-foot), Drawer to OEM PDU, (250V, 15A)	7042	CR7	6669
Power Cord (6-foot), To wall (125V, 15A), PT #59	7042	CR7	6670
Power Cord 2.7M (9-foot), Drawer to IBM PDU, 250V/10A	7042	CR7	6671
Power Cord 1.5M (5-foot), Drawer to IBM PDU, 250V/10A	7042	CR7	6672
Power Cord 2.7m (9-ft), Drawer to wall/OEM PDU, (250V/10A)	7042	CR7	6680
Power Cord (6-foot), To wall, (250V, 15A)	7042	CR7	6687
Ethernet Cable, 6M, Hardware Management Console to System Unit	7042	CR7	7801
Ethernet Cable, 15m, Hardware Management Console to System Unit	7042	CR7	7802
Mouse - USB, with keyboard Attachment Cable	7042	CR7	8841
USB Mouse	7042	CR7	8845
HMC/Server Order Linkage Indicator	7042	CR7	9069
Order Routing Indicator- System Plant	7042	CR7	9169
Language Group Specify - US English	7042	CR7	9300
Month Indicator	7042	CR7	9461
Day Indicator	7042	CR7	9462
Hour Indicator	7042	CR7	9463
Minute Indicator	7042	CR7	9464
Qty Indicator	7042	CR7	9465
Countable Member Indicator	7042	CR7	9466
Language Group Specify - Dutch	7042	CR7	9700
Language Group Specify - French	7042	CR7	9703
Language Group Specify - German	7042	CR7	9704
Language Group Specify - Polish	7042	CR7	9705
Language Group Specify - Norwegian	7042	CR7	9706
Language Group Specify - Portuguese	7042	CR7	9707
Language Group Specify - Spanish	7042	CR7	9708
Language Group Specify - Italian	7042	CR7	9711
Language Group Specify - Canadian French	7042	CR7	9712
Language Group Specify - Japanese	7042	CR7	9714
Language Group Specify - Traditional Chinese (Taiwan)	7042	CR7	9715

Language Group Specify - Korean	7042	CR7	9716
Language Group Specify - Turkish	7042	CR7	9718
Language Group Specify - Hungarian	7042	CR7	9719
Language Group Specify - Slovakian	7042	CR7	9720
Language Group Specify - Russian	7042	CR7	9721
Language Group Specify - Simplified Chinese (PRC)	7042	CR7	9722
Language Group Specify - Czech	7042	CR7	9724
Language Group Specify -- Romanian	7042	CR7	9725
Language Group Specify - Croatian	7042	CR7	9726
Language Group Specify -- Slovenian	7042	CR7	9727
Language Group Specify - Brazilian Portuguese	7042	CR7	9728
Language Group Specify - Thai	7042	CR7	9729
Full width Keyboard -- USB, US English, #103P	7042	CR7	EK51
Full width Keyboard -- USB, French, #189	7042	CR7	EK52
Full width Keyboard -- USB, Italian, #142	7042	CR7	EK53
Full width Keyboard -- USB, German/Austrian, #129	7042	CR7	EK54
Full width Keyboard -- USB, UK English, #166P	7042	CR7	EK55
Full width Keyboard -- USB, Spanish, #172	7042	CR7	EK56
Full width Keyboard -- USB, Japanese, #194	7042	CR7	EK57
Full width Keyboard -- USB, Brazilian Portuguese, #275	7042	CR7	EK58
Full width Keyboard -- USB, Hungarian, #208	7042	CR7	EK59
Full width Keyboard -- USB, Korean, #413	7042	CR7	EK60
Full width Keyboard -- USB, Chinese, #467	7042	CR7	EK61
Full width Keyboard -- USB, French Canadian, #445	7042	CR7	EK62
Full width Keyboard -- USB, Belgian/UK, #120	7042	CR7	EK64
Full width Keyboard -- USB, Swedish/Finnish, #153	7042	CR7	EK65
Full width Keyboard -- USB, Danish, #159	7042	CR7	EK66
Full width Keyboard -- USB, Bulgarian, #442	7042	CR7	EK67
Full width Keyboard -- USB, Swiss/French/German, #150	7042	CR7	EK68
Full width Keyboard -- USB, Norwegian, #155	7042	CR7	EK69
Full width Keyboard -- USB, Dutch, #143	7042	CR7	EK70
Full width Keyboard -- USB, Portuguese, #163	7042	CR7	EK71
Full width Keyboard -- USB, Greek, #319	7042	CR7	EK72
Full width Keyboard -- USB, Hebrew, #212	7042	CR7	EK73
Full width Keyboard -- USB, Polish, #214	7042	CR7	EK74
Full width Keyboard -- USB, Slovakian, #245	7042	CR7	EK75
Full width Keyboard -- USB, Czech, #243	7042	CR7	EK76
Full width Keyboard -- USB, Turkish, #179	7042	CR7	EK77
Full width Keyboard -- USB, LA Spanish, #171	7042	CR7	EK78
Full width Keyboard -- USB, Arabic, #253	7042	CR7	EK79
Full width Keyboard -- USB, Thai, #191	7042	CR7	EK80
Full width Keyboard -- USB, Russian, #443	7042	CR7	EK81
Full width Keyboard -- USB, Slovenian, #234	7042	CR7	EK82
Full width Keyboard -- USB, US English Euro, #103P	7042	CR7	EK83
S&H - No Charge	7042	CR7	ESC0
S&H	7042	CR7	ESC3

Model conversions

Not applicable

Feature conversions

Not applicable

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=112-175>

Publications

IBM Power Systems hardware documentation provides you with the following topical information: system overview; planning for the system; installing and configuring the system; working with consoles, terminals, and interfaces; managing system resources; working with operating systems and software applications; and troubleshooting, service, and support.

You can access the product documentation at

<http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/index.jsp>

Product documentation is also available on DVD (SK5T-7087).

Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

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

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

<http://www.ibm.com/services/learning/index.html>

Select your country, and then select the product as the category.

Technical information

Specified operating environment

Physical specifications

- Height: 43 mm (1.7 in)
- Width: 440 mm (17.3 in)
- Depth: 711 mm (28.0 in)
- Weight: 15.9 kg (35.1 lb)

To assure installability and serviceability in non-IBM industry-standard racks, review the installation planning information for any product-specific installation requirements.

Operating environment

- Temperature:

- System on: 10 to 35 degrees C (50 to 95 degrees F)
- System off: 5 to 45 degrees C (41 to 113 degrees F)
- Relative humidity:
 - System on: 20% to 80%
 - System off: 8% to 80%
- Acoustical noise emissions:
 - Idle: 6.1 bels
 - Operating: 6.1 bels
- Maximum altitude: 2,133 m (7,000 ft)

Power requirements

- Operating voltage: Sine-wave input (50 or 60 Hz) required; input voltage and frequency ranges automatically selected
 - Low range: 100 to 127 V ac
 - High range: 200 to 240 V ac
- Power source loading:
 - Minimum: 0.194 kVA
 - Maximum: 0.700 kVA
- Thermal output:
 - Minimum: 662 Btu/hr (194 watts)
 - Maximum: 2,302 Btu/hr (675 watts)

Equipment approvals and safety

- FCC - Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 4, Class A
- UL/IEC 60950-1
- CSA C22.2 No. 60950-1
- NOM-019
- Argentina IEC60950-1

Hardware requirements

- Each HMC must have access to a display, a keyboard, and a mouse.
- Information regarding supported Linux™ distributions on Power Systems servers is available at
<http://www-03.ibm.com/systems/power/software/linux/index.html>
- If you need redundant HMC function, the servers can be attached to two separate HMCs to address availability requirements. Environments may include 7310-C05, -C06, -CR3, -CR4, and 7042-C06, -C07, -C08, -CR4, -CR5 as well as 7042-CR6 HMCs. All HMCs must have the same level of HMC Licensed Machine Code.
- Higher availability configurations may require the use of an Ethernet hub. An Ethernet hub will provide a physical connection from the HMC to each server rather than a logical Ethernet connection over a LAN.
- Each console must be configured with feature number 0962.

Software requirements

The following web browsers have been tested for connection support with the HMC Licensed Machine Code Version 7 Release 7.6.0

- Microsoft Internet Explorer 6.0 through 9.0.
- Internet Explorer 7.0, or later, is required if you are using IPv6 addresses on the network interface over which the browser is connected.

If your browser is configured to use an Internet proxy, then local Internet addresses should be included in the exception list. Consult your network administrator for more information. If you still need to use the proxy to get to the HMC, enable "Use HTTP 1.1 through proxy connections" under the Advanced tab in your Internet Options window.

Limitations

- The HMC is a dedicated-function device used only for the control and service functions of the POWER5, or later, processor-based servers it manages. It is not available for use as a general purpose computing resource.
- An internal modem (#0033) is not allowed for Brazil or Honduras.

The HMC user interface is available in the following languages:

- Brazilian Portuguese
- Catalan
- Czech
- Dutch
- English
- French
- French/Canadian
- German
- Hungarian
- Italian
- Japanese
- Korean
- Polish
- Portuguese
- Russian
- Simplified Chinese
- Slovakian
- Spanish
- Traditional Chinese

However, integrated Repair and Verify for CRUs is available at this time in English only. Client who want access to the translated services guides will be directed to an external website from their HMC.

If additional assistance is required with interpreting English Repair and Verify:

- Contact the IBM Hardware Support Center (using the method you would normally use to obtain support for your hardware), and ask for Hardware Support. Be sure to have your HMC machine type and serial number available. Indicate that you have problems with translated Repair and Verify.
- An IBM Service Support Representative (SSR) may be dispatched to your site to assist with your Repair and Verify activity.
- The HMC and attached servers may not be accessible to you while the SSR is working.

Planning information

Cable orders

One Ethernet cable is required to attach the HMC to the system CPC. This cable can be customer-supplied or purchased from IBM .

Security, auditability, and control

This product uses the security and auditability features of the server operating system. Use of these facilities is optional. For servers with the IBM i operating system, the security measures supplied by IBM i are designed to reduce the risk of users changing or destroying data resources, but do not prevent it. The IBM i security features include the use of passwords, a security option to limit a user to only the functions provided by customer-designed menus, and a security option to limit read/write access for files, libraries, and folders during normal operations. To achieve increased security, the IBM i controls should be combined with physical security, division of duties, and other appropriate measures.

This product uses the security and auditability features of the AIX® 5.2, 5.3, or 6.1 operating system on an AIX partition that the HMC controls.

The HMC network connection to the partitions is based on a component of IBM's Reliable, Scalable Cluster Technology (RSCT) called Resource Monitoring and Control (RMC). The only operations permitted through this connection are hardware error event collection and hardware inventory data collection, dynamic LPAR resource movement coordination for AIX and Linux partitions, and partition shutdown and reboot for AIX and Linux partitions.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

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.

The Electronic Services news page is a single internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

Terms and conditions

Volume orders: Contact your IBM representative.

IBM Global Financing

Yes

Warranty period

One year

An IBM part or feature installed during the initial installation of an IBM machine is subject to a full warranty effective on the date of installation of the machine. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty effective on its date of installation. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

Warranty service

If required, IBM provides repair or exchange service depending on the types of warranty service specified for the machine. IBM will attempt to resolve your problem over the telephone, or electronically via an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend on the time of your call, machine technology and redundancy, and availability of parts. If applicable to your product, parts considered Customer Replaceable Units (CRUs) will be provided as part of the machine's standard warranty service.

Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country-specific and location-specific information.

CRU Service

IBM provides replacement CRUs to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request. CRUs are designated as being either a Tier 1 (mandatory) or a Tier 2 (optional) CRU.

Tier 1 (mandatory) CRU

Installation of Tier 1 CRUs, as specified in this announcement, is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

Tier 2 (optional) CRU

You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge.

Based upon availability, CRUs will be shipped for next business day (NBD) delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU. You may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

The following parts have been designated as Tier 1 CRUs:

- AC power cord
- Battery
- Covers, front and side

- Cooling fan
- Disk drive
- Display
- DVD drive cable
- DVD Drive
- External cables
- Heat/Fan sink
- Keyboard
- Memory DIMM
- Modem (requires 100 V - 240 V)
- Mouse
- PCI adapters
- SAS riser and signal cable
- System bezel
- System labels
- Tape, diagnostics, and firmware media
- USB cable

CRU and on-site service

At IBM's discretion, you will receive specified CRU service, or IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

Service level is:

- 9 hours per day, Monday through Friday, excluding holidays, next business day response. Calls must be received by 5:00 pm local time in order to qualify for next business day response.

Non-IBM parts service

Warranty service

IBM is now shipping machines with selected non-IBM parts that contain an IBM field replaceable unit (FRU) part number label. These parts are to be serviced during the IBM machine warranty period. IBM is covering the service on these selected non-IBM parts as an accommodation to their customers, and normal warranty service procedures for the IBM machine apply.

Warranty service upgrades

During the warranty period, warranty service upgrades provide an enhanced level of on-site service for an additional charge. Service levels are response-time objectives and are not guaranteed. See the Warranty services section for additional details.

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM . You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

Maintenance service options

CRU and on-site service

At IBM's discretion you will receive CRU service or IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose. The following on-site response-time objectives are available as warranty service upgrades for your machine. Available offerings are:

- 9 hours per day, Monday through Friday, excluding holidays, 4 hour average, same business day response
- 24 hours per day, 7 days a week, 4 hour average response, same day
- 24 hours per day, 7 days a week, 2 hour average response, same day

Customer Replaceable Units (CRUs) may be provided as part of the machine's standard warranty CRU Service except that you may install a CRU yourself or request IBM installation, at no additional charge, under the CRU and on-site service level specified above. For additional information on the CRU service, see the warranty information.

Maintenance services

If required, IBM provides repair or exchange service depending on the types of maintenance service specified for the machine. IBM will attempt to resolve your problem over the telephone or electronically, via an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM . You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed. The specified level of maintenance service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country-specific and location-specific information. The following service selections are available as maintenance options for your machine type.

On-site service

IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

Service levels are:

- 9 hours per day, Monday through Friday, excluding holidays, next business day response
- 9 hours per day, Monday through Friday, excluding holidays, 4 hour average response, same business day
- 24 hours per day, 7 days a week, 4 hour average response, same day
- 24 hours per day, 7 days a week, 2 hour average response, same day

Customer replaceable unit (CRU) service

If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, or hard disk drive), and depending upon the maintenance service offerings in your geography, IBM will ship the replacement CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request.

Based upon availability, CRUs will be shipped for next business day delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM . When return is required, 1) return instructions and a

container are shipped with the replacement CRU, and 2) you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

CRUs may be provided as part of the machine's standard maintenance service except that you may install a CRU yourself or request IBM installation, at no additional charge, under any of the On-site Service levels specified above.

Non-IBM parts service

Under certain conditions, IBM provides services for selected non-IBM parts at no additional charge for machines that are covered under warranty service upgrades or maintenance services.

This service includes hardware problem determination (PD) on the non-IBM parts (for example, adapter cards, PCMCIA cards, disk drives, and memory) installed within IBM machines and provides the labor to replace the failing parts at no additional charge.

If IBM has a Technical Service Agreement with the manufacturer of the failing part, or if the failing part is an accommodations part (a part with an IBM FRU label), IBM may also source and replace the failing part at no additional charge. For all other non-IBM parts, customers are responsible for sourcing the parts. Installation labor is provided at no additional charge, if the machine is covered under a warranty service upgrade or a maintenance service.

Warranty service upgrades

Usage plan machine

No

IBM hourly service rate classification

Two

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

Field-installable features

Yes

Model conversions

No

Machine installation

Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

Graduated program license charges apply

No

Licensed machine code

IBM Machine Code is licensed for use by a customer on the IBM machine for which it was provided by IBM under the terms and conditions of the IBM License Agreement for Machine Code, to enable the machine to function in accordance with its specifications, and only for the capacity authorized by IBM and acquired by the customer. You can obtain the agreement by contacting your IBM representative or visiting

http://www.ibm.com/servers/support/machine_warranties/machine_code.html

Machine using LMC Type Model: 7042-CR7

IBM may release changes to the Machine Code. IBM plans to make the Machine Code changes available for download from the IBM System P technical support website

<http://www14.software.ibm.com/webapp/set2/sas/f/hmc/home.html>

If the machine does not function as warranted and your problem can be resolved through your application of downloadable Machine Code, you are responsible for downloading and installing these designated Machine Code changes as IBM specifies. If you would prefer, you may request IBM to install downloadable Machine Code changes; however, you may be charged for that service.

Educational allowance

A reduced charge is available to qualified education customers. The educational allowance may not be added to any other discount or allowance.

The educational allowance is 15% for the products in this announcement.

Prices

Product charges

The following are newly announced features on the specific models of the IBM Power Systems 7042 machine type:

Description	Model Number	Feature Numbers	Initial/	RP	
			MES/Both/Support	CSU	MES
IBM 7042-CR7					
Internal Modem	CR7			Yes	
Balanced Warehouse Solution	CR7	0033	Both	Yes	No
CSC Routing Indicator	CR7	0710	Both	N/A	No
HMC LMC v7	CR7	0712	Initial	Yes	No
	CR7	0962	Both	Yes	No
US TAA Compliance Indicator	CR7	0983	Both	Yes	No
Modem Cable US/Canada and GU	CR7	1025	Both	Yes	No
Smart Analytics Sys routing	CR7	1114	Initial	N/A	No
Custom Serv. Specify, Roch	CR7	1140	Both	Yes	No
8GB Pluggable USB Memory Optio	CR7	1208	Both	Yes	No
500GB SATA HDD, 2.5in	CR7	1998	Both	Yes	No
NOTE: The monitor or display features are subject to a \$8 Electronic Waste Recycling Fee (15- to 34-inch video device.)					
widescreen LCD Monitor	CR7	3632	Both	Yes	No
IBM T120 Flat Panel Monitor	CR7	3643	Support	Yes	No
19in. Flat Panel Monitor	CR7	3644	Support	Yes	No
17in. Flat Panel Monitor	CR7	3645	Support	Yes	No

6Foot Extend.Cbl for Displays	CR7	4242	Both	Yes	No
Extender Cable USB Keybo 1.8M	CR7	4256	Both	Yes	No
One and only one rack indicator feature is required on all orders (#4650 to #4666).					
No Factory Integration Ind.	CR7	4650	Initial	N/A	No
Rack Indicator, Rack 1	CR7	4651	Initial	N/A	No
Rack Indicator, Rack 2	CR7	4652	Initial	N/A	No
Rack Indicator, Rack 3	CR7	4653	Initial	N/A	No
Rack Indicator, Rack 4	CR7	4654	Initial	N/A	No
Rack Indicator, Rack 5	CR7	4655	Initial	N/A	No
Rack Indicator, Rack 6	CR7	4656	Initial	N/A	No
Rack Indicator, Rack 7	CR7	4657	Initial	N/A	No
Rack Indicator, Rack 8	CR7	4658	Initial	N/A	No
Rack Indicator, Rack 9	CR7	4659	Initial	N/A	No
Rack Indicator, Rack 10	CR7	4660	Initial	N/A	No
Rack Indicator, Rack 11	CR7	4661	Initial	N/A	No
Rack Indicator, Rack 12	CR7	4662	Initial	N/A	No
Rack Indicator, Rack 13	CR7	4663	Initial	N/A	No
Rack Indicator, Rack 14	CR7	4664	Initial	N/A	No
Rack Indicator, Rack 15	CR7	4665	Initial	N/A	No
Rack Indicator, Rack 16	CR7	4666	Initial	N/A	No
RFID Tags for Servers, Blades	CR7	5524	Initial	N/A	No
Full width Key USB, US English	CR7	5951	Support	Yes	No
Full width Key USB, French	CR7	5952	Support	Yes	No
Full width Key USB, Italian	CR7	5953	Support	Yes	No
Full width Key USB, German/Aus	CR7	5954	Support	Yes	No
Full width Key USB, UK English	CR7	5955	Support	Yes	No
Full width Key USB, Spanish	CR7	5956	Support	Yes	No
Full width Key USB, Japanese	CR7	5957	Support	Yes	No
Full width Key USB, BrazilianP	CR7	5958	Support	Yes	No
Full width Key USB, Hungarian	CR7	5959	Support	Yes	No
Full width Key USB, Korean	CR7	5960	Support	Yes	No
Full width Key USB, Chinese	CR7	5961	Support	Yes	No
Full width Key USB, French Can	CR7	5962	Support	Yes	No
Full width Keyb-USB,Canad Fr	CR7	5963	Support	Yes	No
Full width Key USB, Belgian/UK	CR7	5964	Support	Yes	No
Full width Key USB, Swedish/Fi	CR7	5965	Support	Yes	No
Full width Key USB, Danish	CR7	5966	Support	Yes	No

Full width Key USB, Bulgarian	CR7	5967	Support	Yes	No
Full width Key USB, Swiss/Fr/G	CR7	5968	Support	Yes	No
Full width Key USB, Norwegian	CR7	5969	Support	Yes	No
Full width Key USB, Dutch	CR7	5970	Support	Yes	No
Full width Key USB, Portuguese	CR7	5971	Support	Yes	No
Full width Key USB, Greek	CR7	5972	Support	Yes	No
Full width Key USB, Hebrew	CR7	5973	Support	Yes	No
Full width Key USB, Polish	CR7	5974	Support	Yes	No
Full width Key USB, Slovakian	CR7	5975	Support	Yes	No
Full width Key USB, Czech	CR7	5976	Support	Yes	No
Full width Key USB, Turkish	CR7	5977	Support	Yes	No
Full width Key USB, LA Spanish	CR7	5978	Support	Yes	No
Full width Key USB, Arabic	CR7	5979	Support	Yes	No
Full width Key USB, Thai	CR7	5980	Support	Yes	No
Full width Key USB, Russian	CR7	5981	Support	Yes	No
Full width Key USB, Slovenian	CR7	5982	Support	Yes	No
Full width Key USB, US English	CR7	5983	Support	Yes	No
Pwr Crd 4.3m 14ft wall IBM PDU	CR7	6458	Both	Yes	No
Pwr Crd (14FT), Drwr - OEM PDU	CR7	6460	Both	Yes	No
Pwr Crd 4.3m 14ft wall OEM PDU	CR7	6469	Both	Yes	No
Pwr Crd 1.8m 6ft wall 125V/15A	CR7	6470	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6471	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6472	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6473	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6474	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6475	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6476	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6477	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6478	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6488	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6493	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6494	Both	Yes	No
To wall/OEM PDU, (250V, 10A)	CR7	6495	Support	Yes	No
Pwr Crd 2.7m 9ft wall 250V,10A	CR7	6496	Both	Yes	No
Power Cable Drawer to IBM PD	CR7	6577	Both	Yes	No
Pwr Crd 2.7m 9ft wall 125V,15A	CR7	6651	Both	Yes	No
Pwr.Cord(9ft),To wall/OEM PDU	CR7	6659	Both	Yes	No

Pwr Crd 14ft 4.3m wall OEM PDU	CR7	6660	Both	Yes	No
Pwr Crd 2.8m 9.2ft wall PDU	CR7	6665	Both	Yes	No
Pwr Crd 4.3M, Drwr - OEM PDU	CR7	6669	Both	Yes	No
Pwr Crd 6-FT, (125V,15A)PT#59	CR7	6670	Support	Yes	No
Pwr Crd 2.7M, Drwr - IBM PDU	CR7	6671	Both	Yes	No
Pwr Crd 1.5M, Drwr - IBM PDU	CR7	6672	Both	Yes	No
Pwr Crd 2.7m 9ft wall OEM PDU	CR7	6680	Both	Yes	No
Power Cord (6ft),To wall	CR7	6687	Support	Yes	No
	CR7	7801	Support	Yes	No
Eth Cbl 15M HW Management	CR7	7802	Both	Yes	No
Mouse-USB,Black KBD Att C	CR7	8841	Support	Yes	No
USB Mouse	CR7	8845	Both	Yes	No
HMC/Srv Order Linkage Ind	CR7	9069	Initial	N/A	No
Order Routing Indicator System	CR7	9169	Initial	N/A	No
Language Group Spcf-US Eng	CR7	9300	Initial	N/A	No
Month Indicator	CR7	9461	Initial	N/A	No
Day Indicator	CR7	9462	Initial	N/A	No
Hour Indicator	CR7	9463	Initial	N/A	No
Minute Indicator	CR7	9464	Initial	N/A	No
Qty Indicator	CR7	9465	Initial	N/A	No
Countable Member Indicator	CR7	9466	Initial	N/A	No
Language Group Spcf-Dutch	CR7	9700	Initial	N/A	No
Language Group Spcf-French	CR7	9703	Initial	N/A	No
Language Group Spcf-German	CR7	9704	Initial	N/A	No
Language Group Spcf-Polish	CR7	9705	Initial	N/A	No
Lang Group Specify - Norwegian	CR7	9706	Initial	N/A	No
Lang.Group Spcf-Portuguese	CR7	9707	Initial	N/A	No
Language Group Spcf-Spanish	CR7	9708	Initial	N/A	No
Language Group Spcf-Italian	CR7	9711	Initial	N/A	No
Language Gr Speci Canadian Frenc	CR7	9712	Initial	N/A	No
Language Group Spcf-Japanese	CR7	9714	Initial	N/A	No
Language Group Specify Tr Chin	CR7	9715	Initial	N/A	No
Language Group Spcf-Korean	CR7	9716	Initial	N/A	No
Language Group Spcf-Turkish	CR7	9718	Initial	N/A	No
Language Group Spcf-Hungarian	CR7	9719	Initial	N/A	No
Language Group Spcf-Slovakian	CR7	9720	Initial	N/A	No
Language Group Spcf-Russian	CR7	9721	Initial	N/A	No
Lang Group Spcf Simpl Chinese					

CR7	9722	Initial	N/A	No
Language Group Spcf-Czech	CR7	9724	Initial	N/A
Language Group Spcf-Romanian	CR7	9725	Initial	N/A
Lang Group Specify - Croatian	CR7	9726	Initial	N/A
Language Group Spcf-Slovenian	CR7	9727	Initial	N/A
Lang Group Specify - Braz Port	CR7	9728	Initial	N/A
Lang Group Specify - Thai	CR7	9729	Initial	N/A
RAID 1 Upgrade for CR7	CR7	EB2S	MES	Yes
Full width Key USB, US English	CR7	EK51	Both	Yes
Full width Key USB, French	CR7	EK52	Both	Yes
Full width Key USB, Italian	CR7	EK53	Both	Yes
Full width Key USB, German/Aus	CR7	EK54	Both	Yes
Full width Key USB, UK English	CR7	EK55	Both	Yes
Full width Key USB, Spanish	CR7	EK56	Both	Yes
Full width Key USB, Japanese	CR7	EK57	Both	Yes
Full width Key USB, BrazilianP	CR7	EK58	Both	Yes
Full width Key USB, Hungarian	CR7	EK59	Both	Yes
Full width Key USB, Korean	CR7	EK60	Both	Yes
Full width Key USB, Chinese	CR7	EK61	Both	Yes
Full width Key USB, French Can	CR7	EK62	Both	Yes
Full width Key USB, Belgian/UK	CR7	EK64	Both	Yes
Full width Key USB, Swedish/Fi	CR7	EK65	Both	Yes
Full width Key USB, Danish	CR7	EK66	Both	Yes
Full width Key USB, Bulgarian	CR7	EK67	Both	Yes
Full width Key USB, Swiss/Fr/G	CR7	EK68	Both	Yes
Full width Key USB, Norwegian	CR7	EK69	Both	Yes
Full width Key USB, Dutch	CR7	EK70	Both	Yes
Full width Key USB, Portuguese	CR7	EK71	Both	Yes
Full width Key USB, Greek	CR7	EK72	Both	Yes
Full width Key USB, Hebrew	CR7	EK73	Both	Yes
Full width Key USB, Polish	CR7	EK74	Both	Yes
Full width Key USB, Slovakian	CR7	EK75	Both	Yes
Full width Key USB, Czech	CR7	EK76	Both	Yes
Full width Key USB, Turkish	CR7	EK77	Both	Yes
Full width Key USB, LA Spanish	CR7	EK78	Both	Yes
Full width Key USB, Arabic	CR7	EK79	Both	Yes
Full width Key USB, Thai	CR7	EK80	Both	Yes
Full width Key USB, Russian				

Full width Key USB, Slovenian	CR7	EK81 Both	Yes	No
Full width Key USB, US English	CR7	EK82 Both	Yes	No
8GB (1x8GB) Memory	CR7	EK83 Both	Yes	No
RFID Tags for Compute Nodes	CR7	EM07 Both	Yes	No
S&H - No Charge	CR7	ERF1 Initial	N/A	No
S&H	CR7	ESC0 Both	Yes	No
HMC CR7 Redundant Power Su	CR7	ESC3 Initial	N/A	No
	CR7	EU02 Both	Yes	No

Alternative and maintenance service

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-112-175-LIST_PRICES_2012_10_03.PDF](#)

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