



# IBM Upward Integration for Microsoft System Center, V4.0 is now available for ordering in IBM System x ordering systems

## Table of contents

<b>1</b>	<a href="#">Overview</a>	<b>6</b>	<a href="#">Technical information</a>
<b>2</b>	<a href="#">Key prerequisites</a>	<b>8</b>	<a href="#">Ordering information</a>
<b>2</b>	<a href="#">Planned availability date</a>	<b>9</b>	<a href="#">Terms and conditions</a>
<b>2</b>	<a href="#">Description</a>	<b>11</b>	<a href="#">Prices</a>
<b>5</b>	<a href="#">Program number</a>	<b>12</b>	<a href="#">Order now</a>
<b>6</b>	<a href="#">Publications</a>		

## At a glance

The IBM® Upward Integration for Microsoft™ System Center provides IT administrators with the ability to integrate the management features of the System x® and BladeCenter® servers with Microsoft System Center.

The main features in the Integration Suite for Microsoft System Center are:

- Integrated end-to-end management of System x hardware with monitoring of both physical and virtual server health
- OS deployment with latest IBM firmware and driver update management
- Automated VM migration based on server health or power consumption
- Hardware configuration and firmware and driver updates with ability to check for latest updates from the IBM website
- Power on and off blades using Microsoft System Center Console
- Capability to author configuration packs to perform compliance checking on IBM System x or BladeCenter x86 blade servers
- Capability to manage servers remotely independent of operating system state
- One year of Software Subscription and Support is included with the license

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: SE001).

## Overview

The IBM Upward Integration for Microsoft System Center, V4.0 provides IT administrators with the ability to integrate the management features of the System x and BladeCenter servers with Microsoft System Center. IBM expands Microsoft System Center server management capabilities by integrating IBM hardware management functionality, providing affordable, basic management of physical and virtual environments to reduce the time and effort required for routine system administration. It provides the discovery, configuration, monitoring, event management, and power monitoring needed to reduce cost and complexity through server consolidation and simplified management.

For your convenience, the IBM Upward Integration for MSSC V4.0 is offered as software only or bundled with the Virtual Media Key or with the Entry Virtual Media Key. The IBM Virtual Media Key options work as an upgrade to the Integrated Management Module by providing full remote control of your System x servers.

The IBM Virtual Media Key allows administrators to fully manage servers remotely, regardless of server or operating system condition.

Microsoft System Center combined with the management features of IBM System x and BladeCenter servers enhance and extend Microsoft's operating systems, virtualization technologies, and hardware service management to help you dramatically reduce complexity and cost.

The IBM Upward Integration for Microsoft System Center provides:

- Basic platform management:
  - Automated discovery of physical and virtual server, network and storage resources from multiple vendors
  - Automated reporting of hardware problems and collection of system service information
  - Simplified installation and update processes for operating systems and system firmware
- Virtualization management: Ability to manage physical and virtual resources including support for and across multiple virtualization platforms
- Energy monitoring
  - Monitoring and trend analysis of electrical energy usage and thermal characteristics, including servers and other facilities equipment such as uninterruptible power supplies, power distribution units, sensors, probes, and computer room air conditioning units
- Energy management
  - Setting and managing to energy usage limits across one or more servers
- One year of software Subscription and Support is included with the license.

Software Subscription and Support renewals for all features are aligned through Passport Advantage® Express® or Passport Advantage , reducing the administrative burden of keeping your Subscription and Support up to date.

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## Key prerequisites

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Refer to the [Technical information](#) section.

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## Planned availability date

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December 14, 2012

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## Description

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### **IBM Upward Integration for Microsoft System Center, V4.0**

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IBM Upward Integration for Microsoft System Center, v4.0 consists of the following:

- IBM Hardware Management Pack for Microsoft System Center Operations Manager 2012, Version 4.0
- IBM Hardware PRO Pack for Microsoft System Center Virtual Machine Manager 2012, Version 4.0
- IBM Deployment Pack for Microsoft System Center Configuration Manager 2012, Version 4.0
- IBM System Updates for Microsoft System Center Configuration Manager 2012, Version 4.0
- IBM Configuration Pack for Microsoft System Center Configuration Manager 2012, Version 4.0
- One year of software subscription and support

### ***IBM Hardware Management Pack for Microsoft System Center Operations Manager 2012, Version 4.0***

The IBM Hardware Management Pack for Microsoft System Center Operations Manager 2012, Version 4.0 provides clients with the enhanced features of Microsoft System Center Operations Manager to manage the health state of IBM System x servers, blades, and BladeCenter chassis.

Key features of the IBM Hardware Management Pack for Microsoft System Center Operations Manager 2012, Version 4.0 include:

- Rich monitoring of the health of BladeCenter chassis and BladeCenter modules using the SNMP protocol
- Extensive monitoring of the health of hardware components for IBM System x servers and BladeCenter x86 and x64 blades running Windows™
- Comprehensive monitoring of the health of software stacks for managing IBM hardware
- The easy determination of overall system health by the aggregation of hardware health monitors

The IBM Hardware Management Pack for Microsoft System Center Operations Manager 2012, Version 4.0 offers the following additional new fee-based features and enhancements:

- Power Monitoring of UEFI/IMM System x servers and blades running Windows 2012 & R2 offers the ability to monitor overall system power usage and generates alerts when power consumption rises above predefined consumption thresholds
- BladeCenter and blade hardware health correlation and event propagation provides the ability to monitor BladeCenter-specific hardware health conditions under the Windows health explorer view giving a complete summary of BladeCenter component health and detailed event reporting
- Remote power on and off of blade servers enables Operations Manager console operators to control the boot up or shut down of blade servers using new actions listed in the Operations Manager console
- SW Stack Advisor detects the presence of IBM Hardware Management Pack software dependencies (BIOS features, drivers, and so on) and makes appropriate configuration recommendations based on its findings in order to reduce prerequisite dependencies for health monitoring

### ***IBM Hardware PRO Pack for Microsoft System Center Virtual Machine Manager 2012, Version 4.0***

The IBM Hardware Performance and Resource Optimization Pack for Microsoft System Center Virtual Machine Manager 2012, Version 4.0 provides the ability to monitor and manage alerts for the physical host resources in a virtualized environment.

IBM Hardware PRO Pack for Microsoft System Center Virtual Machine Manager 2012, Version 4.0 offers the following fee-based (only) features and enhancements:

- Detailed system health information for physical servers hosting virtual machines while managing Hyper-V or Virtual Server environments
- Comprehensive health state monitoring of physical processors, memory, hard disks, fans, power supplies, temperature, and voltage on IBM System x and BladeCenter x86 and x64 servers that host virtual environments
- Advisory PRO tips in the event of existing or predictive hardware problems that warrant VMM administrative operations
- Automated VM Migration support based on power consumption threshold exceptions for UEFI/IMM System x servers and blades running Windows 2008 & R2, Hyper V, or Virtual Server

- BladeCenter and blade hardware health correlation and event propagation for the ability to monitor the health status of associating blades and BladeCenter chassis hardware components

### ***IBM Deployment Pack for Microsoft System Center Configuration Manager 2012, Version 4.0***

IBM Deployment Pack for Microsoft System Center Configuration Manager 2012, Version 4.0 provides the ability to configure IBM hardware components prior to deploying Windows operating systems using Microsoft SCCM. It provides a convenient, integrated user interface that assists with the end-to-end deployment scenarios in environments where IBM-specific configuration steps are required (including RAID, IMM, RSA2, BMC, and BIOS/UEFI).

Key features of the IBM Deployment Pack for Microsoft System Center Configuration Manager 2012, Version 4.0 include:

- IBM-specific drivers
- Scriptable hardware configuration tools for the Windows Pre-installation Environment (WinPE)
- Sample configuration files and scripts including unattended and sysprep answer files
- The latest drivers to support the most current IBM System x servers

The IBM Deployment Pack for Microsoft System Center Configuration Manager 2012, Version 4.0 offers the following additional new fee-based features and enhancements:

- A new wizard offering Automated SEP integration which streamlines the process of downloading IBM System Enablement Packs and importing them into System Center Configuration Manager when new IBM hardware is released to market.

### ***IBM System Updates for Microsoft System Center Configuration Manager 2012, Version 4.0***

IBM System Updates for Microsoft System Center Configuration Manager 2007, Version 3.0 acquires IBM system firmware and Windows device driver information for IBM hardware, publishes updates onto Microsoft Windows Server Update Services (WSUS), and enables seamless update management for Windows systems running on IBM System x or BladeCenter x86 blade servers.

IBM System Updates for Microsoft System Center Configuration Manager 2012, Version 4.0 includes:

- Support for acquiring the latest IBM System x ToolsCenter UpdateExpress System Pack Installer
- Ability to select individual firmware and driver updates from the IBM website, or complete IBM UpdateExpress System Packs (UXSPs) and deposit them in a local user defined repository of choice
- Ability to publish updates to Microsoft WSUS servers and manage the sequence of applying updates in a customizable deployment package
- Support for handling System Enablement Pack (SEP) for hardware currency
- Capability to update deployment and conformance reviews through the SCCM console

The IBM System Updates for Microsoft System Center Configuration Manager 2012, Version 4.0 offering provides the following additional new fee-based features and enhancements:

- Automatically check for the latest updates from IBM website
- Easily view and expire updates on the WSUS server through user interface enhancements
- Export update information to an excel file for detailed comparison

- View new update deployment result log files from the Windows Server Update Services server to assist with installation and deployment error conditions

### **IBM Configuration Pack for Microsoft System Center Configuration Manager 2012, Version 4.0**

IBM Configuration Pack for Microsoft System Center Configuration Manager 2012, Version 4.0 provides clients with the capability to author uEFI/IMM configuration packs for doing compliance checking on IBM System x or BladeCenter x86 blade servers through Microsoft System Center Configuration Manager.

IBM Configuration Pack for Microsoft System Center Configuration Manager 2012, Version 4.0 offers the following fee-based (only) features and enhancements:

- Support for authoring uEFI/IMM configuration packs for IBM System x or BladeCenter x86 blade servers
- The ability to import configuration packs to MS SCCM and assign them to SCCM client collections
- Ability to view compliance results through the SCCM console

**Note:** IBM Advanced Settings Utility needs to be deployed on each individual client before running a compliance check.

### **IBM Virtual Media Key**

The IBM Virtual Media Key options work as an upgrade to the Integrated Management Module by providing full remote control of your System x servers. The IBM Virtual Media Key allows administrators to fully manage servers remotely, regardless of server or operating system condition with:

- Remote viewing of video with graphics resolution up to 1080 x 1024 regardless of the server state
- Access to the server, using the keyboard and mouse from a remote client
- The ability to map a client CD, DVD, or USB flash drive to the remote server
- The ability to mount an ISO image to use as a virtual drive on the remote server
- The ability to use Windows-based Remote Desktop Protocol (RDP)
- The ability to capture the last Windows blue screen for later problem determination

### **Accessibility by people with disabilities**

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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](http://www.ibm.com/able/product_accessibility/index.html)

### **Section 508 of the US Rehabilitation Act**

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IBM Upward Integration Module for Microsoft System Center V4.0 is capable as of December 14, 2012, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the US Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

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## **Program number**

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Program number	VRM	Program name
5641-U01	4.1.0	IBM Upward Integration for MSSC w/IMMv2 Adv v4.x w/1 Yr S&S

## Product identification number

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Program PID number

5641-U01

## Business Partner information

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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=212-510>

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## Offering Information

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Product information is available via the Offering Information website

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

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## Publications

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No hardcopy publications are shipped with this program.

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 20 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.

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## Technical information

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### Specified operating environment

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#### **Hardware requirements**

IBM System x and BladeCenter servers are listed on the IBM ServerProven® website

<http://www-03.ibm.com/servers/eserver/serverproven/compat/us/>

#### **Software requirements**

For information on additional support, certification, version information, or network operating systems, visit

<http://www-03.ibm.com/servers/eserver/serverproven/compat/us/>

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.

## **Compatibility**

IBM System x and BladeCenter servers are listed on the IBM ServerProven website

<http://www-03.ibm.com/servers/eserver/serverproven/compat/us/>

## **Limitations**

Refer to the [Software requirements](#) section for operating system limitations.

## **Performance considerations**

For information on additional support, certification, version information, or network operating systems, visit

<http://www-03.ibm.com/servers/eserver/serverproven/compat/us/>

## **Planning information**

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Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express . Product upgrades and technical support are provided by the Software Subscription and Support (Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of SoftwareSubscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option, if available.

## **Packaging**

For software products in this announcement, physical media and hardcopy documentation are not included in the deliverable package. The softwarecode is preinstalled on the System hardwareand enabled to the level of entitlement that is purchased.

After receipt of an order, the Business Partner or customer will be required to register and accept Passport Advantage or Passport Advantage Express terms and conditions. The product includes the licenseand one year of 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. 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**

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IBM Upward Integration Module for Microsoft System Center V4.0 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.

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## Software Services

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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/>

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## Ordering information

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### **Charge metric**

Program name	PID number	Charge metric
IBM Upward Integration for MSSC w/IMMV2 Adv v4.x w/1 Yr S&S	5641-U01	Per Managed Server

### **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 Managed Server entitlements for each server managed by the program.

### **Order handling**

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To allow for ease of order submission, the offerings in this announcement can be configured in conjunction with eligible System x hardware, software, and license-only configurations that can be created for this product based on existing supported System x hardware system units in a given business environment.

Licenses for offerings in this announcement include Software Subscription and Support. Software Subscription and Support renewals for all features are aligned through Passport Advantage Express or Passport Advantage , reducing the administrative burden of keeping your Subscription and Support up to date.

If a new release of a given offering in this announcement is made generally available in Passport Advantage after the announcement of the offering in System x ordering systems, you may elect to take delivery of any release generally available for that offering during the product registration process.

Eligible software products offered and selected during the ordering process with each System are preinstalled on the system unit for which the product was ordered. Optionally, software and license-only orders can be created for these products based on existing supported System units in the business environment.

Orders placed for the eligible offerings in this announcement will be routed and fulfilled through Passport Advantage Express . Invoicing for the initial license orders will occur through the System x order management systems. Subscription and Support renewals will be managed through Passport Advantage .



Passport Advantage allows you to have a common anniversary date for Software Subscription and Support renewals. The anniversary date, established at the order ship date for the initial product acquisition, will remain unchanged while your Passport Advantage Agreement remains in effect. New software purchases initially include 12 full months of Subscription and Support coverage. Subscription and Support in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date but managed and invoiced through Passport Advantage. Thereafter, all Software Subscription and Support will renew at the common anniversary date and include 12 full months of Subscription and Support.

**New license**

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Orders for new licenses will be accepted now.

**Basic license**

The license offerings below are available for stand-alone purchase. To order these programs, specify the type model number, order type description, one-time charge (OTC) feature number with quantity, and supply feature, or the SEO (single entity offering) number as indicated and listed in the tables below. After receipt of your order, you will be requested to register through Passport Advantage Express to allow for entitlement of support. Upon registration completion you will be provided with a pdf document with instructions to receive updates. The one-time charge for the product includes the license and one year of Software Subscription and Support.

Type model number feature description	OTC billing feature number	Supply feature number	SEO number
5641-U01 IBM Upward Integration for MSSC w/IMMV2 Adv v4.x			
Per Managed Server with 1 Year SW S&S	0439	N/A	00Y4504

**Customization options**

Select the appropriate feature numbers to customize your order with delivery options desired. These features can be specified on the initial order.

**Expedite shipments**

Feature	Description
3445	Expedite

Expedite shipments will be processed to receive 72-hour delivery from the time IBM Software Delivery and Fulfillment (SDF) receives the order.

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**Terms and conditions**

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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 Agreement, and the International Passport Advantage Express Agreement.

## **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 year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired.

### **License Information form number**

License Information form number GC52-1389.

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>

Access to IBM System fix downloads will be granted upon entitlement validation. The terms and conditions for fixes will be covered under the License Agreement for Machine Code, International Program License Agreement, International License Agreement for Non-Warranted Programs and/or other terms provided with the fix, as applicable.

### **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

### **IBM International Passport Advantage Agreement**

#### **Passport Advantage applies**

Yes, and through the Passport Advantage website at

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

**Usage restriction**

Yes

**Software Subscription and Support applies**

Yes. The offerings in this announcement include one year 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.

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**Statement of good security practices**

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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.

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**Prices**

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For current prices, contact IBM at 888-Shop-IBM (746-7426) or visit

<http://www-03.ibm.com/systems/x/>

To locate the web price, search on the feature number in the Search field.

Type model number feature description	OTC billing feature number	SEO number
5641-U01 IBM Upward Integration for MSSC w/IMMV2 Adv v4.x		
Per Managed Server with 1 Year SW S&S	0439	00Y4504

### Business Partner information

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM , you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

### IBM Global Financing

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IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

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

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For more financing information, visit

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

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### Order now

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To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)  
Fax: 800-2IBM-FAX (242-6329)  
Internet: [callserv@ca.ibm.com](mailto:callserv@ca.ibm.com)  
Mail: IBM Teleweb Customer Support  
ibm.com® Sales Execution Center, Americas North  
3500 Steeles Ave. East, Tower 3/4  
Markham, Ontario  
Canada  
L3R 2Z1

Reference: SE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

**Note:** Shipments will begin after the planned availability date.

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<http://www.ibm.com/legal/us/en/>

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>