

# IBM Spectrum Fusion HCI bare metal Red Hat OpenShift Container Platform simplifies deployment and operations of mission-critical workloads

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## Overview

IBM Spectrum<sup>(R)</sup> Fusion HCI is a container-native hybrid cloud data platform for Kubernetes applications on Red Hat<sup>(R)</sup> OpenShift<sup>(R)</sup> Container Platform. It features an appliance form-factor, hyperconverged infrastructure along with integrated software-defined storage to meet the storage requirements of modern, stateful Kubernetes applications. IBM Spectrum Fusion HCI is designed to make it easy to deploy and manage container-native applications and their data on Red Hat OpenShift Container Platform.

IBM Spectrum Fusion HCI features include:

- Bare-metal deployment of Red Hat OpenShift Container Platform to eliminate performance and cost overhead of hypervisors
- Integrated software-defined cloud-native storage
- Integrated backup and restore of application-persistent volumes and metadata to both on-rack and off-rack backup targets
- High performance, low latency NVMe local storage
- Ready for production from power-on in as little as five hours
- Simple to scale compute and storage in the field
- Single point of contact for support of the complete solution

## Key requirements

IBM Spectrum Fusion HCI requires Red Hat OpenShift Container Platform, which must be purchased separately by the client from Red Hat or an authorized Red Hat partner. The [IBM<sup>\(R\)</sup> Storage Modeller](#) tool provides guidance for the number of OpenShift entitlements that are required for an IBM Spectrum Fusion HCI configuration.

## Planned availability date

May 5, 2022.

Availability within a country is subject to local legal requirements.

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## Description

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### **Hyperconverged infrastructure with integrated data services for mission-critical applications**

Organizations are under increasing pressure to deliver cloud-native application experiences on premises in the safety of the private data center. Kubernetes and Red Hat OpenShift Container Platform provide an ideal cloud-native experience that is portable everywhere. However, organizations often struggle to transition container-based applications, such as IBM Cloud<sup>(R)</sup> Paks, out of pilot and into production. They lack skills to build Red Hat OpenShift environments that perform well under load. They lack simple, consistent approaches for ensuring application resiliency and application high availability required by mission-critical applications. And often, the container-based applications cannot effectively leverage existing investments in storage devices.

IBM Spectrum Fusion HCI is the next-generation converged infrastructure designed for containers. It includes built-in integrated data services to simplify deployment and operation of mission critical applications and IBM Cloud Paks on Red Hat OpenShift Container Platform.

Key features and capabilities include:

- Factory-integrated solution with hardware and built-in data services designed to address the needs of mission-critical applications on premises
- Storage-rich commodity x86 servers with NVMe flash drives that are cost effective, performant, and easy to scale
- Industry-standard Kubernetes Container Storage Interface (CSI) to provision high-performance storage volumes for stateful applications
- Simplified data management enables infrastructure and operations (I&O) teams to publish data services able to be consumed by application development teams as a service
- Data protection enables I&O teams to create policies to backup application data for recovery at any point in time and replicate data for high availability and disaster recovery data services
- Investment protection as I&O teams can build Kubernetes CSI storage classes that provide a consistent way to access data on existing storage devices, such as NAS filers and object stores
- Caching policies can be attached to the storage classes to provide high-performance access
- Single point of contact through the IBM support portal for support of the complete solution, both hardware and software, delivering simplified operations

### **Flexible configurations**

IBM Spectrum Fusion HCI configurations start at 6 nodes/192 physical cores and 92 TB raw storage and can be scaled up to 20 nodes/640 physical cores and 1524 TB of raw storage in a single rack. Three racks can be clustered to provide even larger Red Hat OpenShift clusters.

### **IBM Cloud Satellite<sup>(R)</sup>**

I&O teams can follow a guided experience to configure IBM Spectrum Fusion HCI hardware to host one or more IBM Cloud Satellite locations. IBM Spectrum Fusion data services are available to the IBM Cloud Satellite Locations on the IBM Spectrum Fusion HCI rack.

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

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Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web

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## Reference information

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For information about IBM Storage Expert Care Service and Support offering, see the following Services Announcements:

- IBM Storage Expert Care for IBM Spectrum Fusion with additional coverage options, [AS21-0020](#), dated August 31, 2021
- IBM Storage Expert Care for IBM Spectrum Fusion, [AS21-0016](#), dated August 10, 2021

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## Program number

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Program number	VRM	Program name
5771-PP7	2.2.0	IBM Spectrum Fusion HCI Appliance Software

  

Program number	Maintenance 3-month Program number	Maintenance 1-year Program number	Maintenance 2-year Program number	Maintenance 3-year Program number	Maintenance 4-year Program number	Maintenance 5-year Program number
5771-PP7	5771-PP4	5771-PP5	5771-PP8	5771-PP9	5771-PP2	5771-PP3

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## Offering Information

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Product information is available on the [IBM Offering Information](#) website.

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## Publications

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Publications for IBM Spectrum Fusion HCI can be found in [IBM Documentation](#).

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## Services

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### IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Systems Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Systems Lab Services consultants can perform infrastructure services for clients online or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Systems Lab Services is designed to help clients solve business challenges, gain new skills, and apply best practices.

Systems Lab Services offers a wide range of infrastructure services for IBM Power<sup>(R)</sup> servers, IBM Storage systems, IBM Z<sup>(R)</sup>, and IBM LinuxONE. Systems Lab Services has a global presence and can deploy experienced consultants online or onsite around the world.

For assistance, contact Systems Lab Services at [ibmsls@us.ibm.com](mailto:ibmsls@us.ibm.com).

To learn more, see the [IBM Systems Lab Services](#) website.

### IBM Consulting

As transformation continues across every industry, businesses need a single partner to map their enterprise-wide business strategy and technology infrastructure. IBM Consulting is the business partner to help accelerate change across an organization. IBM specialists can help businesses succeed through finding collaborative ways of working that forge connections across people, technologies, and partner ecosystems. IBM Consulting brings together the business expertise and an ecosystem of technologies that help solve some of the biggest problems faced by organizations. With methods that get results faster, an integrated approach that is grounded in an open and flexible hybrid cloud architecture, and incorporating technology from IBM Research<sup>(R)</sup> and IBM Watson<sup>(R)</sup> AI, IBM Consulting enables businesses to lead change with confidence and deliver continuous improvement across a business and its bottom line.

For additional information, see the [IBM Consulting](#) website.

### **IBM Technology Support Services (TSS)**

Get preventive maintenance, onsite and remote support, and gain actionable insights into critical business applications and IT systems. Speed developer innovation with support for over 240 open-source packages. Leverage powerful IBM analytics and AI-enabled tools to enable client teams to manage IT problems before they become emergencies.

TSS offers extensive IT maintenance and support services that cover more than one niche of a client's environment. TSS covers products from IBM and OEMs, including servers, storage, network, appliances, and software, to help clients ensure high availability across their data center and hybrid cloud environment.

For details on available services, see the [Technology support for hybrid cloud environments](#) website.

### **IBM Expert Labs**

Expert Labs can help clients accelerate their projects and optimize value by leveraging their deep technical skills and knowledge. With more than 20 years of industry experience, these specialists know how to overcome the biggest challenges to deliver business results that can have an immediate impact.

Expert Labs' deep alignment with IBM product development allows for a strategic advantage as they are often the first in line to get access to new products, features, and early visibility into roadmaps. This connection with the development enables them to deliver First of a Kind implementations to address unique needs or expand a client's business with a flexible approach that works best for their organization.

For additional information, see the [IBM Expert Labs](#) website.

### **IBM Security<sup>(R)</sup> Expert Labs**

With extensive consultative expertise on IBM Security software solutions, Security Expert Labs helps clients and partners modernize the security of their applications, data, and workforce. With an extensive portfolio of consulting and learning services, Expert Labs provides project-based and premier support service subscriptions.

These services can help clients deploy and integrate IBM Security software, extend their team resources, and help guide and accelerate successful hybrid cloud solutions, including critical strategies such as zero trust. Remote and on-premises software deployment assistance is available for IBM Cloud Pak<sup>(R)</sup> for Security, IBM Security QRadar<sup>(R)</sup>/QRoC, IBM Security SOAR/Resilient<sup>(R)</sup>, IBM i2<sup>(R)</sup>, IBM Security Verify, IBM Security Guardium<sup>(R)</sup>, and IBM Security MaaS360<sup>(R)</sup>.

For more information, contact Security Expert Labs at [sel@us.ibm.com](mailto:sel@us.ibm.com).

For additional information, see the [IBM Security Expert Labs](#) website.

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## Technical information

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### Specified operating environment

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#### Software requirements

None

#### IBM Support

[IBM Support](#) is your gateway to technical support tools and resources that are designed to help you save time and simplify support. IBM Support can help you find answers to questions, download fixes, troubleshoot, submit and track problem cases, and build skills. Learn and stay informed about the transformation of IBM Support, including new tools, new processes, and new capabilities, by going to the [IBM Support Insider](#).

#### Additional IBM support

##### IBM Client Engineering for Systems

Client Engineering for Systems is a framework for accelerating digital transformation. It helps you generate innovative ideas and equips you with the practices, technologies, and expertise to turn those ideas into business value in weeks. When you work with Client Engineering for Systems, you bring pain points into focus. You empower your team to take manageable risks, adopt leading technologies, speed up solution development, and measure the value of everything you do. Client Engineering for Systems has experts and services to address a broad array of use cases, including capabilities for business transformation, hybrid cloud, analytics and AI, infrastructure systems, security, and more. Contact Client Engineering for Systems at [sysgarage@ibm.com](mailto:sysgarage@ibm.com).

### Planning information

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#### Packaging

This offering is preloaded on IBM Spectrum Fusion HCI solution hardware. There is no physical media.

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## Ordering information

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Consult your IBM representative or IBM Business Partner.

### 5771-PP7 -IBM Spectrum Fusion HCI Appliance Software

Program number	Feature description	OTC feature number
5771-PP7	IBM Spectrum Fusion HCI Appliance Software per Virtual Processor Core Qty 1	2549
	IBM Spectrum Fusion HCI Appliance Software per Virtual Processor Core Qty 250	2550
	IBM Spectrum Fusion HCI Appliance Software Primary per Terabyte Qty 1	2548
	IBM Spectrum Fusion HCI Appliance Software Primary per Terabyte Qty 250	2547

<b>Program number</b>	<b>Feature description</b>	<b>OTC feature number</b>
	IBM Spectrum Fusion HCI Appliance Software Backup per Terabyte Qty 1	2546
	IBM Spectrum Fusion HCI Appliance Software Backup per Terabyte Qty 250	2545

<b>Program number</b>	<b>Feature description</b>	<b>Supply feature number</b>
5771-PP7	Electronic delivery	3450
	Media supply	5809

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

Extending coverage for a total of five years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses.

*Maintenance program number description*

<b>Maintenance program number</b>	<b>Description</b>
5771-PP4	IBM Spectrum Fusion HCI SWMA 3-month Registration
5771-PP5	IBM Spectrum Fusion HCI SWMA 1-year Registration
5771-PP8	IBM Spectrum Fusion HCI SWMA 2-year Registration
5771-PP9	IBM Spectrum Fusion HCI SWMA 3-year Registration
5771-PP2	IBM Spectrum Fusion HCI SWMA 4-year Registration
5771-PP3	IBM Spectrum Fusion HCI SWMA 5-year Registration

**5771-PP4 -IBM Spectrum Fusion HCI SWMA 3-month Registration**

<b>Maintenance program number</b>	<b>Feature description</b>	<b>OTC feature number</b>
5771-PP4	IBM Spectrum Fusion HCI SWMA 3-month Registration per Virtual Processor Core Qty 1	2520
	IBM Spectrum Fusion HCI SWMA 3-month Registration per Virtual Processor Core Qty 250	2519
	IBM Spectrum Fusion HCI Primary SWMA 3-month Registration per Terabyte Qty 1	2517
	IBM Spectrum Fusion HCI Primary SWMA 3-month Registration per Terabyte Qty 250	2518
	IBM Spectrum Fusion HCI Backup SWMA 3-month Registration per Terabyte Qty 1	2554
	IBM Spectrum Fusion HCI Backup SWMA 3-month Registration per Terabyte Qty 250	2553

**5771-PP5 -IBM Spectrum Fusion HCI SWMA 1-year Registration**

<b>Maintenance program number</b>	<b>Feature description</b>	<b>OTC feature number</b>
5771-PP5	IBM Spectrum Fusion HCI SWMA 1-year Registration per Virtual Processor Core Qty 1	2523
	IBM Spectrum Fusion HCI SWMA 1-year Registration per Virtual Processor Core Qty 250	2524
	IBM Spectrum Fusion HCI Primary SWMA 1-year Registration per Terabyte Qty 1	2522
	IBM Spectrum Fusion HCI Primary SWMA 1-year Registration per Terabyte Qty 250	2521
	IBM Spectrum Fusion HCI Backup SWMA 1-year Registration per Terabyte Qty 1	2526
	IBM Spectrum Fusion HCI Backup SWMA 1-year Registration per Terabyte Qty 250	2525

**5771-PP8 -IBM Spectrum Fusion HCI SWMA 2-year Registration**

<b>Maintenance program number</b>	<b>Feature description</b>	<b>OTC feature number</b>
5771-PP8	IBM Spectrum Fusion HCI SWMA 2-year Registration per Virtual Processor Core Qty 1	2529
	IBM Spectrum Fusion HCI SWMA 2-year Registration per Virtual Processor Core Qty 250	2530
	IBM Spectrum Fusion HCI Primary SWMA 2-year Registration per Terabyte Qty 1	2531
	IBM Spectrum Fusion HCI Primary SWMA 2-year Registration per Terabyte Qty 250	2532
	IBM Spectrum Fusion HCI Backup SWMA 2-year Registration per Terabyte Qty 1	2528
	IBM Spectrum Fusion HCI Backup SWMA 2-year Registration per Terabyte Qty 250	2527

**5771-PP9 -IBM Spectrum Fusion HCI SWMA 3-year Registration**

<b>Maintenance program number</b>	<b>Feature description</b>	<b>OTC feature number</b>
5771-PP9	IBM Spectrum Fusion HCI SWMA 3-year Registration per Virtual Processor Core Qty 1	2537

<b>Maintenance program number</b>	<b>Feature description</b>	<b>OTC feature number</b>
	IBM Spectrum Fusion HCI SWMA 3-year Registration per Virtual Processor Core Qty 250	2538
	IBM Spectrum Fusion HCI Primary SWMA 3-year Registration per Terabyte Qty 1	2535
	IBM Spectrum Fusion HCI Primary SWMA 3-year Registration per Terabyte Qty 250	2536
	IBM Spectrum Fusion HCI Backup SWMA 3-year Registration per Terabyte Qty 1	2556
	IBM Spectrum Fusion HCI Backup SWMA 3-year Registration per Terabyte Qty 250	2555

#### **5771-PP2 -IBM Spectrum Fusion HCI SWMA 4-year Registration**

<b>Maintenance program number</b>	<b>Feature description</b>	<b>OTC feature number</b>
5771-PP2	IBM Spectrum Fusion HCI SWMA 4-year Registration per Virtual Processor Core Qty 1	2510
	IBM Spectrum Fusion HCI SWMA 4-year Registration per Virtual Processor Core Qty 250	2509
	IBM Spectrum Fusion HCI Primary SWMA 4-year Registration per Terabyte Qty 1	2507
	IBM Spectrum Fusion HCI Primary SWMA 4-year Registration per Terabyte Qty 250	2508
	IBM Spectrum Fusion HCI Backup SWMA 4-year Registration per Terabyte Qty 1	2505
	IBM Spectrum Fusion HCI Backup SWMA 4-year Registration per Terabyte Qty 250	2506

#### **5771-PP3 -IBM Spectrum Fusion HCI SWMA 5-year Registration**

<b>Maintenance program number</b>	<b>Feature description</b>	<b>OTC feature number</b>
5771-PP3	IBM Spectrum Fusion HCI SWMA 5-year Registration per Virtual Processor Core Qty 1	2516
	IBM Spectrum Fusion HCI SWMA 5-year Registration per Virtual Processor Core Qty 250	2515
	IBM Spectrum Fusion HCI Primary SWMA 5-year Registration per Terabyte Qty 1	2551



Maintenance program number	Feature description	OTC feature number
	IBM Spectrum Fusion HCI Primary SWMA 5-year Registration per Terabyte Qty 250	2552
	IBM Spectrum Fusion HCI Backup SWMA 5-year Registration per Terabyte Qty 1	2512
	IBM Spectrum Fusion HCI Backup SWMA 5-year Registration per Terabyte Qty 250	2511

### Charge metric

The charge metric for these licensed products can be found in the following License Information documents:

Program identifier	License Information document title	License Information document number
5771-PP7	IBM Spectrum Fusion HCI Appliance Software	<a href="#">L-SVGY-CCXL5Q</a>

Select your language of choice and scroll down to the Charge Metrics section. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

## Terms and conditions

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

### Licensing

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

### Software Maintenance

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

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

### License Information number

The following License Information documents apply to the offerings in this announcement:

<b>Program identifier</b>	<b>License Information document title</b>	<b>License Information document number</b>
5771-PP7	IBM Spectrum Fusion HCI Appliance Software	<a href="#">L-SVGY-CCXL5Q</a>

Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

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**Limited warranty applies**

Yes

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**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, see the [IBM Support Guide](#).

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

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**Money-back guarantee**

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

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

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**Volume orders (IVO)**

Yes. Contact your IBM representative.

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**Passport Advantage applies**

No

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**Software Subscription and Support applies**

Yes. During the Software Subscription and Support period, for the unmodified portion of a program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the program and documentation.

- Technical assistance: A reasonable amount of remote assistance by telephone or electronically to address suspected program defects. Technical assistance is available from the IBM support center in the organization's geography.

Additional details regarding Technical Assistance, which includes IBM contact information, are provided in the [IBM Support Guide](#).

Software Subscription and Support does not include assistance for:

- The design and development of applications.
- Your use of programs in other than their specified operating environment.
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance.

Software Subscription and Support is provided only if the program is within its support timeframe as specified in the Software Support Lifecycle policy for the program.

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### **Variable charges apply**

No

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### **Educational allowance available**

15% to qualified educational institution clients.

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## **Statement of good security practices**

IT system security involves protecting systems and information through intrusion 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 regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

**Important:** IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

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## **Prices**

For all local charges, contact your IBM representative or your authorized IBM Business Partner.

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### **IBM Global Financing**

IBM Global Financing offers competitive financing to credit-qualified clients 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 client segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or go to the [IBM Global Financing](#) website for more information.

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Financing from IBM Global Financing helps you preserve cash and credit lines, enables more technology acquisition within current budget limits, can help accelerate implementation of economically attractive new technologies, offers payment and term flexibility, and can help match project costs to projected benefits. Financing is available worldwide for credit-qualified clients.

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## Regional availability

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Australia, People's Republic of China, Hong Kong, India, Indonesia, Republic of Korea, Macao, New Zealand, Philippines, Singapore, Sri Lanka, Taiwan, and Thailand

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