

# IBM Cloud Pak for Integration V2020.2.1 adds support for Operators on Red Hat OpenShift Container Platform

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## At a glance

IBM Cloud Pak<sup>(R)</sup> for Integration V2020.2.1 builds on the previous release and is extended by the following enhancements:

- Provides Kubernetes Operators that manage every component of the Cloud Pak for Integration, enabling the Cloud Pak to be entirely Kubernetes native, and OpenShift<sup>(R)</sup> native. This enables automation at every level of the stack, including the platform itself and the applications that are built on the platform.
- Simplifies packaging, deployment, management, and updating of Cloud Pak for Integration on the Red Hat<sup>(R)</sup> OpenShift Container Platform.
- Includes Event Streams Operator that takes advantage of the open source Strimzi Operator published under the Cloud Native Computing Foundation.

## Overview

Cloud Pak for Integration offers a powerful integrated platform for deploying containerized integration capabilities as part of a Red Hat OpenShift Container Platform deployment environment. By making use of Cloud Pak for Integration, an organization can quickly connect applications, systems, and services as part of a managed, controlled, scalable, and security-rich environment.

Cloud Pak for Integration consists of several IBM<sup>(R)</sup> offerings that bring integration capabilities and features under a single integrated interface:

- IBM App Connect Enterprise
- IBM API Connect<sup>(R)</sup>
- IBM DataPower<sup>(R)</sup> Gateway Virtual Edition
- IBM MQ and MQ Advanced
- IBM Aspera<sup>(R)</sup> High-Speed Transfer Server
- IBM Event Streams

Entitlement to Cloud Pak for Integration enables organizations to use, under a single flexible license entitlement, the existing separate integration offerings and their integrated capabilities as a part of the Cloud Pak for Integration. This flexible approach enables organizations to modernize their infrastructure over time without disrupting their existing deployed environment.

### Cloud Pak for Integration Operators

Cloud Pak for Integration V2020.2.1 brings significant changes, adding Operators to help organizations improve software management in a Kubernetes environment. Operators are a method of packaging, deploying, and managing a Kubernetes application. Cloud Pak for Integration Operators provide:

- Repeatability of installation and upgrade
- Consistent configuration of Cloud Pak components
- Over-the-air updates for OpenShift components
- Deployment of the Cloud Pak into Kubernetes according to best practices from product development
- Ongoing operations (Day 2) capabilities such as database backup that can be implemented according to best practices

Operators ease the operational complexity of running software in Kubernetes. With the introduction of operators organizations can more seamlessly use the integration capabilities of Cloud Pak for Integration within the Red Hat OpenShift Container Platform. Operators are installed from the Operators catalog by using Red Hat Operator Lifecycle Manager. Operators are the native way to deploy and manage software in OpenShift.

In addition to streamlining software installation, Operators enable organizations to deploy application-level characteristics such as integrations to runtimes by using the same method as that used to declare the number of instances. This enables a full continuous integration, continuous delivery, and continuous deployment (CI/CD) pipeline, building everything needed to deploy an application with its dependencies. Operators are designed to provide organizations with control of deployment across OpenShift clusters or within namespaces.

The Cloud Pak for Integration Operators enable more flexible and agile deployments of the integration capabilities at the requested version or release level, which are deployed by Red Hat OpenShift as needed, with constant health checks of each system component.

The Cloud Pak for Integration makes use of the Red Hat Operator Lifecycle Manager helping users install, update, and manage the lifecycle of all Operators and their associated services running across their clusters and providing a consistent method for organizations to deploy only those components of Cloud Pak for Integration that are required. For example, if a specific installation requires only the Event Streams messaging capability, then the Operator pulls in only the Event Streams component.

#### **Notes:**

- Support for Operators as a method for deploying Cloud Pak for Integration replaces the use of Helm. The use of Operators with Cloud Pak for Integration can improve responsiveness and help achieve consistent outcomes.
- The Event Streams Operator takes advantage of the Open Source [Strimzi](#) Operator that is published under the Cloud Native Computing Foundation, and extends it to support the Cloud Pak for Integration.

#### **Deprecation**

Support for IBM Cloud™ Private foundation is removed in this release of IBM Cloud Pak for Integration.

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## **Key requirements**

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Cloud Pak for Integration V2020.2.1 runs in a Red Hat OpenShift environment that is included with the offering.

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## **Planned availability date**

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## Description

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Cloud Pak for Integration helps organizations integrate their business data and applications more quickly and easily across any cloud. In addition to the support for Operators, Cloud Pak for Integration V2020.2.1 includes the following key components and capabilities:

- IBM App Connect Enterprise (5724-J05) can connect applications, data, heritage systems, and modern technologies through a variety of integration styles. These styles can range from traditional service-oriented architectures (SOAs) to modern, agile, and event-driven models by virtualizing access to data wherever it resides for exposure as APIs. The solution enables you to:
  - Automatically copy and synchronize data between on-premises and cloud-based applications, eliminating potential for mismatched sources, formats, and standards
  - Access, transform, and combine data assets across all of your enterprise applications, databases, and systems, with the capability to expose them as APIs
- IBM API Connect (5725-Z22) offers a robust set of enterprise-grade API management capabilities. It delivers support for the clustering of a large number of nodes within a single data center and also across multiple data centers. API Connect provides key capabilities to enable users to:
  - Employ a security-rich method to expose existing systems of record, databases, or services through APIs to develop new mobile, Internet of Things (IoT), and web applications by applying built-in policies to help secure, control, and mediate API delivery with virtually unmatched scale
  - Rapidly publish, govern, socialize, analyze, monitor, and monetize APIs with built-in capabilities at every stage of the lifecycle, from planning, designing, and developing to testing, deploying, and retiring
  - Engage internal and external API consumers through both a company-branded self-service portal and community-building capabilities, driving API discovery and monetization, and broadening business and partnerships
  - Rely on automated and collaborative no-code testing to consistently produce high-quality APIs
  - Monitor API health and set up notifications to solve potential problems before clients see them
- IBM DataPower Gateway Virtual Edition (5725-T09) helps organizations meet the security and integration needs of a digital business in a single multichannel gateway. It provides security, control, integration, and optimized access to a full range of mobile, web, API, SOA, business-to-business, and cloud workloads. Organizations can rapidly expand the scope of valuable IT assets to new channels that provide clients, employees, and partners with security-rich access to critical resources.
  - Monitoring and management capabilities enable deep content introspection at wire speeds, while service request and response monitoring a robust platform for centralized management and control.
  - Threat protection and security deliver a robust firewall for the enterprise by using sophisticated checks.
  - Application-aware routing enables the classification of data requests based on service and application-level information.

All API interactions are logged and reported to the API Connect analytics component. This enables both runtime and historical analytics and reporting.

- IBM MQ and MQ Advanced (5724-H72) messaging middleware simplifies and accelerates the integration of diverse applications and business data across multiple platforms. The middleware uses message queues to facilitate the exchanges of information and provides a single messaging solution for cloud, mobile, Internet of Things (IoT), and on-premises environments. By

connecting virtually everything from a simple pair of applications to the most complex business environments, MQ helps organizations improve business responsiveness, control costs, reduce risk, and gain real-time insight from mobile, IoT, and sensor data.

- IBM Event Streams (5737-H33) helps organizations build intelligent, responsive applications that can react to events in real-time, to deliver more engaging customer experiences. Built on open source Apache Kafka technology, Event Streams adds capabilities that are needed for mission-critical workloads, and makes Kafka easy to run, manage, and consume for faster time to value. With robust connectivity to core systems, Event Streams makes real-time business critical data available to the next generation of event-driven applications. IBM has years of operational expertise running Apache Kafka for our customers, and can provide the support needed for large-scale production use.
- IBM Aspera High-Speed Transfer Server (5737-F70) combines the capabilities of IBM Aspera Enterprise Server and IBM Aspera Connect Server (Aspera Connect for Web Access) to provide data streaming functions (for example, IBM FASPStream for Data) and optimized bandwidth tiers. With patented Fast and Secure Protocol (FASP<sup>®</sup>) transport at its core, the Aspera High-Speed Transfer Server optimizes transfer throughput that is independent of distance and network conditions. This can typically yield a significant speed improvement over file transfer protocol or secure copy protocol (FTP/SCP) and HTTP, with end-to-end security and exceptional bandwidth control.

**Note:** Additional information about Cloud Pak for Integration can be found in [IBM Knowledge Center](#). For more information about each of the above components, see the Software Announcements listed in the [Reference information](#) section.

IBM Cloud Pak for Integration - Operations Dashboard Add-on includes cross-component monitoring and tracing capabilities for your cloud integration platform infrastructure capabilities. The Operations Dashboard Add-on can quickly analyze performance and latency problems across your integration components to help ensure that applications meet service level agreements. It delivers cross-component tracing for the following Cloud Pak for Integration components: App Connect Enterprise, API Connect, DataPower Gateway Virtual Edition, MQ, and MQ Advanced.

### **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 Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Report Request](#) website.

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## **Statement of general direction**

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IBM intends to offer Cloud Pak for Integration with support for Linux<sup>®</sup> on IBM Z<sup>®</sup> Integrated Facility for Linux (IFL) engines.

IBM intends to offer Cloud Pak for Integration as a Managed Service.

Statements by IBM regarding its plans, directions, and intent are subject to change or withdrawal without notice at the sole discretion of IBM. Information regarding potential future products is intended to outline general product direction and 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 IBM products remain at the sole discretion of IBM.

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## **Reference information**

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For additional information about Cloud Pak for Integration, see the following Software Announcements:

- Software Announcement [220-044](#), dated March 31, 2020
- Software Announcement [219-064](#), dated December 17, 2019
- Software Announcement [219-443](#), dated October 29, 2019
- Software Announcement [219-515](#), dated October 15, 2019
- Software Announcement [219-304](#), dated June 18, 2019

For additional information about Cloud Pak for Integration (formerly known as Cloud Integration Platform), see the following Software Announcements:

- Software Announcement [219-236](#), dated April 30, 2019
- Software Announcement [219-009](#), dated January 8, 2019

For information about the Red Hat OpenShift Container Platform, see the [Red Hat website](#).

For more information about API Connect, see the following Software Announcements:

- Software Announcement [218-489](#), dated November 13, 2018
- Software Announcement [218-018](#), dated March 13, 2018
- Software Announcement [220-133](#), dated April 28, 2020

For more information about App Connect Enterprise, see the following Software Announcements:

- Software Announcement [219-109](#), dated March 5, 2019
- Software Announcement [218-037](#), dated January 30, 2018

For more information about DataPower Gateway, see the following Software Announcements:

- Software Announcement [220-133](#), dated April 28, 2020
- Software Announcement [218-489](#), dated November 13, 2018
- Software Announcement [218-018](#), dated March 13, 2018
- Software Announcement [217-265](#), dated July 25, 2017
- Software Announcement [216-024](#), dated February 16, 2016
- Software Announcement [215-108](#), dated May 26, 2015

For more information about MQ and MQ Advanced, see the following Software Announcements:

- Software Announcement [220-094](#), dated April 2, 2020
- Software Announcement [219-487](#), dated December 3, 2019
- Software Announcement [219-254](#), dated July 9, 2019
- Software Announcement [219-220](#), dated April 2, 2019
- Software Announcement [219-015](#), dated February 5, 2019
- Software Announcement [218-246](#), dated July 3, 2018
- Software Announcement [218-069](#), dated March 13, 2018

For more information about Event Streams, see the following Software Announcements:

- Software Announcement [219-417](#), dated October 1, 2019
- Software Announcement [219-057](#), dated February 5, 2019

- Software Announcement [218-192](#), dated October 30, 2018
- Software Announcement [218-357](#), dated July 24, 2018

For more information about Aspera High-Speed Transfer Server, see the following Software Announcements:

- Software Announcement [218-553](#), dated November 13, 2018
- Software Announcement [218-520](#), dated October 16, 2018
- Software Announcement [218-303](#), dated May 29, 2018
- Software Announcement [218-169](#), dated March 20, 2018
- Software Announcement [217-051](#), dated November 7, 2017

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## Program number

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Program number	VRM	Program name
5737-I89	2020.2.1	IBM Cloud Pak for Integration

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## Publications

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See additional information about Cloud Pak for Integration in [IBM Knowledge Center](#).

For documentation on the other offerings within this announcement, see the **Publications** sections of the respective Software Announcements that are listed in the [Reference information](#) section.

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## Services

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### Software Services

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## Technical information

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### Specified operating environment

#### Hardware requirements

For specific hardware requirements for the offerings within this announcement, see the **Hardware requirements** sections of the respective Software Announcements listed in the [Reference information](#) section.

#### Software requirements

For specific software requirements for the offerings within this announcement, see the **Software requirements** sections of the respective Software Announcements listed in the [Reference information](#) section.

## **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](#).

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## **Planning information**

### **Packaging**

This offering is accessed through the internet. There is no physical media or electronic deliverable.

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### **Security, auditability, and control**

Cloud Pak for Integration uses the security and auditability features of the host software.

The client 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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## **Ordering information**

For ordering information, consult your IBM representative or IBM Business Partner, or go to the [Passport Advantage<sup>®</sup>](#) website.

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

These products may only be sold directly by IBM or by IBM Business Partners.

To locate IBM Business Partners in your geography, see the [Find a Business Partner](#) page.

### **Passport Advantage**

#### **IBM Cloud Pak for Integration (5737-I89)**

#### **Previously announced part numbers**

As a convenience, the following tables list previously announced part numbers:

<b>Part description</b>	<b>Part number</b>
IBM Cloud Pak for Integration Virtual Processor Core Committed Term License	D2689LL
IBM Cloud Pak for Integration Virtual Processor Core Committed Term License Upgrade	D268ALL
IBM Cloud Pak for Integration Virtual Processor Core License + SW Subscription & Support 12 Months	D20ZBLL
IBM Cloud Pak for Integration Virtual Processor Core Monthly License	D211KLL
IBM Cloud Pak for Integration Virtual Processor Core Annual SW Subscription & Support Renewal 12 Months	E0PPBLL
IBM Cloud Pak for Integration Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D20ZELL
IBM Cloud Pak for Integration-Operations Dashboard Add-On Virtual Processor Core	D25XKLL

<b>Part description</b>	<b>Part number</b>
License + SW Subscription & Support 12 Months	
IBM Cloud Pak for Integration-Operations Dashboard Add-On Virtual Processor Core Monthly License	D25XILL
IBM Cloud Pak for Integration-Operations Dashboard Add-On Virtual Processor Core Annual SW Subscription & Support Renewal 12 Months	E0QG2LL
IBM Cloud Pak for Integration-Operations Dashboard Add-On Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D25XLLL
IBM Cloud Pak for Integration Operations Dashboard Add-On Virtual Processor Core Committed Term License	D27ZXLL

### **Passport Advantage trade-up**

#### **IBM Cloud Pak for Integration (5737-I89)**

You must have previously acquired a license a precursor product to be eligible to acquire an equivalent licenses of the trade-up product.

There is no new ordering information in this release. As a convenience, the following table lists all currently available part numbers.

<b>Part description</b>	<b>Part number</b>
IBM Cloud Pak for Integration from Prior Programs Virtual Processor Core Trade Up License + SW Subscription & Support 12 Months	D20ZFLL
IBM Cloud Pak for Integration from Prior Programs Virtual Processor Core for IBM Z Trade Up License + SW Subscription & Support 12 Months	D20ZKLL

Consult your IBM representative or IBM Authorized Business Partner if you have any questions.

### **Cross-platform product for use on IBM Z**

Order the part numbers that follow when the product is used for either the development of code that will be deployed on IBM Z or when the product will be communicating or transferring data between a distributed server and a IBM Z. Otherwise order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

#### **IBM Cloud Pak for Integration (5737-I89)**

##### **Previously announced part numbers**

As a convenience, the following table lists previously announced part numbers:

<b>Part number description</b>	<b>Part number</b>
IBM Cloud Pak for Integration For IBM Z Virtual Processor Core Committed Term License	D268BLL
IBM Cloud Pak for Integration For IBM Z Virtual Processor Core Committed Term License Upgrade	D268CLL
IBM Cloud Pak for Integration Virtual Processor Core for IBM Z License + SW Subscription & Support 12 Months	D20ZILL
IBM Cloud Pak for Integration Virtual Processor Core for IBM Z Monthly License	D211LLL
IBM Cloud Pak for Integration Virtual Processor Core for IBM Z Annual SW	E0PPCLL

Part number description	Part number
Subscription & Support Renewal 12 Months	
IBM Cloud Pak for Integration Virtual Processor Core for IBM Z SW Subscription & Support Reinstatement 12 Months	D20ZJLL
IBM Cloud Pak for Integration-Operations Dashboard Add-On For IBM Z Virtual Processor Core Monthly License	D25XJLL
IBM Cloud Pak for Integration-Operations Dashboard Add-On For IBM Z Virtual Processor Core Annual SW Subscription & Support Renewal 12 Months	E0QG3LL
IBM Cloud Pak for Integration-Operations Dashboard Add-On For IBM Z Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D25XNLL
IBM Cloud Pak for Integration Operations Dashboard Add-On For IBM Z Virtual Processor Core Committed Term License	D27ZYLL

### Charge metric

The charge metrics for this licensed product can be found in the following License Information document:

Program name	PID number	License Information document number
IBM Cloud Pak for Integration V2020.2.1	5737-I89	<a href="#">L-RJON-BN7PN3</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.

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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<sup>(R)</sup> Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

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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**

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The following License Information document applies to the offering in this announcement:

<b>Program identifier</b>	<b>License Information document title</b>	<b>License Information document number</b>
5737-I89	IBM Cloud Pak for Integration V2020.2.1	<a href="#">L-RJON-BN7PN3</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.

### **Limited warranty applies**

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Yes

### **Limited warranty**

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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 about 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).

### **Program technical support**

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Technical support of a program version or release of a specific program within this offering will be available as long as:

- The program is still supported
- Your Software Subscription and Support for this offering is in effect

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If you require additional technical support from IBM for any individual program within this offering, contact your IBM representative or IBM Business Partner.

For additional information about the IBM Software Support Lifecycle Policy, see the [IBM Software Support Lifecycle Policy](#) website.

### **Money-back guarantee**

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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 (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

### **Volume orders (IVO)**

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No

### **Passport Advantage applies**

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Yes, information is available on the [Passport Advantage and Passport Advantage Express<sup>®</sup>](#) website.

### **Usage restrictions**

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Yes

For any usage restrictions, see the License Information document as listed in the [Terms and conditions](#) section.

### **Software Subscription and Support applies**

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Yes. 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 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.

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For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, go to the [Passport Advantage and Passport Advantage Express](#) website.

## **Variable charges apply**

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No

## **Educational allowance available**

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Not applicable.

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## **Statement of good security practices**

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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**

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The prices are unchanged by this announcement.

## **IBM Global Financing**

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