

# IBM extends software modernization capabilities with IBM i Modernization Engine for Lifecycle Integration (IBM i Merlin)

## Table of contents

<a href="#">1 Overview</a>	<a href="#">5 Ordering information</a>
<a href="#">2 Key requirements</a>	<a href="#">5 Terms and conditions</a>
<a href="#">2 Planned availability date</a>	<a href="#">8 Prices</a>
<a href="#">2 Program number</a>	<a href="#">9 Order now</a>
<a href="#">3 Publications</a>	<a href="#">9 Regional availability</a>
<a href="#">4 Technical information</a>	

## At a glance

IBM<sup>(R)</sup> i Modernization Engine for Lifecycle Integration (IBM i Merlin) is an application development and modernization framework designed to help clients move IBM i software forward.

IBM i Merlin:

- Contains a set of tools that run in Red Hat<sup>(R)</sup> OpenShift<sup>(R)</sup> containers that guide and assist software developers in the modernization of IBM i applications
- Enables client applications to realize the value of a hybrid cloud, multiplatform continuous integration continuous delivery (CICD) implementation
- Makes it easy to expose IBM i-based business functions and data as services, using RESTful interface connections and enterprise message technologies to better participate in the hybrid cloud landscape
- Provides an integrated development environment (IDE) running in a container and accessed through a browser
- Gives clients the opportunity to take core Operations for Programs (\*PGM) or Operations for Service Programs (\*SRVPGM) written in native Integrated Language Environment<sup>(R)</sup> (ILE) languages, such as RPG and COBOL, and deploy them to other IBM i virtual machines (VMs)

## Overview

In today's IBM i ecosystem, clients are being challenged to use cloud technology, to adopt DevOps and CICD processes, and to incorporate concepts such as the Internet of Things (IoT) and artificial intelligence (AI). These challenges have made modernization a mandatory step into the future for IBM i clients.

At the same time, IBM and the industry are touting containers as one of the key technologies for the future of solution development. Additionally, most IBM clients have hybrid cloud as part of their strategy. With the creation of IBM i Merlin, IBM delivers a set of containerized applications that will act as a set of guides, or patterns, to help IBM i software developers more easily take on the task of moving into a DevOps, modular, services-oriented world. The IBM i Merlin tools will make it easier for clients to use a combination of on-premises IT infrastructure and one or more clouds.

IBM i Merlin delivers several benefits:

- Provides a unified, integrated framework from which you can select tools to build up your solutions.
- Offers an easy-to-use graphical user interface (GUI) to help you manage different tools. Though IBM i Merlin tools run in an OpenShift environment, the details of managing containers are transparent to users who have been working on IBM i for years.
- Makes it faster to deploy tools to assist IBM i operation and development work.
- Aims to provide a complete tool set to facilitate IBM i modernization work. You can have one-stop shopping to get software bundles to modernize IBM i. Such modernization covers programming tools, CICD, exposing existing programs as APIs, and more.
- Primarily supports Red Hat OpenShift (OCP) on Power<sup>(R)</sup>, which protects your investment on Power systems.
- Delivers an enterprise-level solution for IBM i clients that also includes third-party software to provide better experience and functionalities.

IBM i Merlin use cases include:

- Clients who want to respond more quickly to changing business requirements by developing software using DevOps and CICD tools and methods
- Clients who need to manage their source code in a modern source control management ecosystem, such as Git
- Businesses that want a development platform more easily adoptable for recent IT technologists
- Businesses with existing applications that need to participate in a hybrid cloud landscape
- Clients who have critical data and processes implemented in IBM Db2<sup>(R)</sup> for i and existing ILE-based applications, who need to expose those assets as REST APIs
- Businesses that are incorporating container-based applications in their IT landscape

---

## Key requirements

---

- IBM i with Rational<sup>(R)</sup> Development Studio (5770-WDS)
- Red Hat OpenShift Platform
- IBM i 7.4, or later

For details, see the [Hardware requirements](#) and [Software requirements](#) sections.

---

## Planned availability date

---

May 20, 2022, in Passport Advantage<sup>(R)</sup>

Availability within a country is subject to local legal requirements.

---

## Program number

---

Program number	VRM	Program name
5900-AN9	1.0.0	IBM i Modernization Engine for Lifecycle Integration

---

## Offering Information

---

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

More information is also available on the [Passport Advantage and Passport Advantage Express](#) website.

---

## Publications

---

None

---

## Services

---

### **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 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<sup>TM</sup>**

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>®</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>®</sup> for Security, IBM Security QRadar<sup>®</sup>/QRoC, IBM Security SOAR/Resilient<sup>®</sup>, IBM i2<sup>®</sup>, IBM Security Verify, IBM Security Guardium<sup>®</sup>, and IBM Security MaaS360<sup>®</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.

---

## Technical information

---

### Specified operating environment

---

#### *Hardware requirements*

An IBM Power server

#### *Software requirements*

- IBM i 7.4, or later
- IBM i with Rational Development Studio (5770-WDS)
- Red Hat OpenShift Platform

#### *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

---

### **Packaging**

This offering is delivered through the internet as an electronic download. There is no physical media.

---

## Ordering information

---

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

This program is available only through Passport Advantage.

### **Passport Advantage**

### **New part numbers**

IBM i Modernization Engine for Lifecycle Integration (5900-AN9) introduces the following part numbers:

<b>Part number description</b>	<b>Part number</b>
IBM i Modernization Engine for Lifecycle Integration Virtual Processor Core License + SW Subscription & Support 12 Months	D091ZZX
IBM i Modernization Engine for Lifecycle Integration Virtual Processor Core Annual SW Subscription & Support Renewal	E091YZX
IBM i Modernization Engine for Lifecycle Integration Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D0921ZX

### **Charge metric**

---

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

<b>Program number</b>	<b>License Information document title</b>	<b>License Information document number</b>
5900-AN9	IBM i Modernization Engine for Lifecycle Integration	<a href="#">L-LHIH-CDFL7G</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 Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

This product is available only through Passport Advantage.

## 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. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

## Software Maintenance

---

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 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 document applies to the offering in this announcement:

Program identifier	License Information document title	License Information document number
5900-AN9	IBM i Modernization Engine for Lifecycle Integration	<a href="#">L-LHIH-CDFL7G</a>

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

## 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, 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

---

## **Standard support**

Technical support of a program product version or release will be available for a minimum of three years from the planned availability date, as long as your Software Subscription and Support is in effect.

This technical support allows you to obtain assistance (by 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 also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, through an 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.

For additional information on the IBM Software Support Lifecycle Policies, see the [Standard and enhanced IBM support lifecycle policies](#) website.

---

## **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 (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)**

No

---

## **Passport Advantage applies**

Yes, information is available on the [Passport Advantage and Passport Advantage Express](#) website.

---

## **Software Subscription and Support applies**

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.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance by telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your users.) IBM provides Severity 1

assistance 24 hours a day, 7 days a week. For additional details, see 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, or failures caused by products for which IBM is not responsible under the applicable agreements.

Unless specified otherwise in a written agreement with you, IBM does not provide support for third-party products that were not provided by IBM. Ensure that when contacting IBM for covered support, you follow problem determination and other instructions that IBM provides, including in the [IBM Support Guide](#).

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**

---

No

---

**Educational allowance available**

---

Not applicable

---

**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.

---

**Prices**

---

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

**Business Partner information**

If you are an IBM Business Partner acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBMid and password are required to access the [IBM Passport Advantage](#) or [IBM PartnerWorld<sup>\(R\)</sup>](#) website.

**Passport Advantage**

For Passport Advantage information and charges, contact your IBM representative. Additional information is also available on the [Passport Advantage and Passport Advantage Express](#) website.

---

**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.

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government clients. Rates are based on a client's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

---

## Order now

---

To order, contact the IBM Digital Sales Center, 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). For more information, contact the IBM Digital Sales Center.

Phone: 800-IBM-4YOU (426-4968)

Fax: 800-2IBM-FAX (242-6329)

For IBM representative: [askibm@ca.ibm.com](mailto:askibm@ca.ibm.com)

For IBM Business Partner: [pwcs@us.ibm.com](mailto:pwcs@us.ibm.com)

IBM Digital Sales Offices  
1177 S Belt Line Rd  
Coppell, TX 75019-4642, US

The IBM Digital Sales Center, 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.

---

## Regional availability

---

American Samoa, Guam, Marshall Islands, Federated States of Micronesia, Northern Mariana Islands, Palau, Puerto Rico, United States, and US Virgin Islands

### **Trademarks**

IBM Consulting is a trademark of IBM Corporation in the United States, other countries, or both.

IBM, Integrated Language Environment, Power, Db2, Rational, Passport Advantage, IBM Z, PartnerWorld, IBM Research, IBM Watson, IBM Security, IBM Cloud Pak, QRadar, Resilient, i2, Guardium and MaaS360 are registered trademarks of IBM Corporation in the United States, other countries, or both.

Red Hat and OpenShift are registered trademarks of Red Hat Inc. in the U.S. and other countries.

Other company, product, and service names may be trademarks or service marks of others.

### **Terms of use**

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions,

and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at

[Terms of use](#)

For the most current information regarding IBM products, consult your IBM representative or reseller, or go to the [IBM worldwide contacts page](#)

[IBM United States](#)