IBM Blockchain on Bluemix High Security Business Network service plan delivers a blockchain business network in an IBM Secure Service Container on the IBM cloud

Table of contents

1 Overview
2 Key prerequisites
2 Planned availability date
2 Description
2 Program number
3 Publications
3 Technical information
3 Ordering information
4 Terms and conditions
5 Prices

At a glance

IBM(R) Blockchain on Bluemix(R): High Security Business Network service plan delivers the following features:

- A private, permissioned blockchain business network that consists of four blockchain peers and a Certificate Authority (CA), which runs on the IBM cloud
- Blockchain network that runs in a single-tenant environment within an IBM Secure Service Container, isolating the communications among network peers
- A network that is built on a version of the Linux(TM) Foundation's Hyperledger fabric that is tested and certified by IBM
- A dashboard in Bluemix to configure, monitor, and manage the network
- Environment isolation through a Secure Service Container that protects contents and data
- Other security features that include:
  - Hardware cryptographic accelerators
  - Tamper-proof cards for key management
  - Protection against misuse of privileged user credentials
  - Data privacy
  - Malware protection
- An option that leverages runtimes and other services on Bluemix to create applications

Overview

Blockchain provides a platform for a new generation of transactional applications.

- Provides a single version of the transaction details, which are formed through consensus and stored to an immutable, distributed ledger.
- Provides greater transparency.
- Improves efficiency with common business logic executed independently by all relevant parties.

These benefits hold the promise of streamlining many current complex, inefficient, and slow business processes. With blockchain, you can redesign the most fundamental business transactions for a new world of secure digital interactions.
The IBM Blockchain on Bluemix service offers different use plans:

- Starter developer plan for self-service developer use, currently in beta
- High Security Business Network for enterprise use

The High Security Business Network plan delivers a secure, isolated compute environment in the IBM cloud, which contains a network of co-located blockchain peers. It has a unique set of security features that make it ideally suited for workloads with sensitive data, such as use cases in regulated industries.

To begin building and simulating blockchain networks for your business with high security and performance needs, sign up for the High Security Business Network service plan through IBM Blockchain on Bluemix.

### Key prerequisites

Blockchain on Bluemix requires access to an internet connection.

### Planned availability date

October 20, 2016

### Description

Blockchain on Bluemix High Security Business Network service plan provides:

- A blockchain business network in an IBM Secure Service Container with a four peer business network and Certificate Authority (CA).
- Protection against misuse of privileged user credentials. Blockchain operating environments and data are protected by Secure Service Containers against access and abuse by root users, system administrator credentials, and other privileged user access.
- Malware protection. Blockchain data and software is protected from malware.
- Protection of peers (nodes). Blockchain peers (nodes) can run in protected, isolated environments to prevent deliberate or unintentional leakage of information from one party's environment to another.
- Data privacy. All data is encrypted, between peers and at rest.
- Key safety. Identity, communications, and data privacy are safeguarded by having all keys in a secure services container. Security can be further enhanced with Secure Key, where keys are stored in a Hardware Security Module which is tamper-resistant and certified to Federal Information Processing Standard (FIPS) 140-2 Level 4 service.
- Optimized cryptography. Cryptographic optimizations offload hashing and symmetric encryption to hardware accelerators, and optimize digital signatures to reduce drain on general processor performance.
- Record of compliance with highly auditable operating environment. Hardware and firmware audit logs provide information about any critical actions that are performed on the system, such as replacing hardware or changing configurations. This allows those changes to be audited, including verification of unauthorized actions.
- Consumability. Interfaces to the High Security Business Network service are performed though simple APIs that remove need for complicated administrative tasks

### Program number
Program number | Program name
--- | ---
5737-B18 | IBM Blockchain on Bluemix

### Offering Information

Product information is available on the [IBM Offering Information](https://www.ibm.com) website.

More information is also available on the [Passport Advantage](https://www.ibm.com) and [Passport Advantage Express](https://www.ibm.com) website.

### Publications

Not applicable.

### Services

**Software Services**

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, contact your Lab Services Sales or Delivery Leader.

### Technical information

#### Specified operating environment

**Software requirements**

For information on software requirements, see [IBM Blockchain on Bluemix](https://www.ibm.com).

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.

#### Planning information

**Packaging**

This offering is distributed electronically. No media is included.

### Ordering information

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

Product group: IBM Cloud

Product: IBM Blockchain on Bluemix (5737-B18)
Product category: Hybrid Integration

**Passport Advantage**

**IBM Blockchain on Bluemix**

<table>
<thead>
<tr>
<th>Program name/Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Blockchain High Security Business Network Base Network Instance per Month</td>
<td>D1QVJLL</td>
</tr>
</tbody>
</table>

**Charge metric**

<table>
<thead>
<tr>
<th>Program name</th>
<th>PID number</th>
<th>Charge metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Blockchain on Bluemix</td>
<td>5737-B18</td>
<td>Instance</td>
</tr>
</tbody>
</table>

**Metric definition:**

**Instance:** Instance is a unit of measure by which the IBM SaaS can be obtained. An Instance is access to a specific configuration of the IBM SaaS. Sufficient entitlements must be obtained for each Instance of the IBM SaaS made available to access and use during the measurement period specified in Client’s Proof of Entitlement (PoE) or Transaction Document.

**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 Passport Advantage Agreement, the International Passport Advantage Express Agreement, the Cloud Services Agreement and associated Service Descriptions, or the IBM SaaS Terms of Use.

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

**Subscription**

The IBM International Passport Advantage Agreement and the IBM SaaS Terms of Use or the IBM Cloud Services Agreement (CSA) and the Service Description govern your use of this offering.

**Technical support**

Technical support is provided for IBM SaaS and enabling software, as applicable, during the subscription period. Any enhancements, updates and other materials provided by IBM as part of any such technical support are considered to be part of IBM SaaS or enabling software, as applicable, and therefore governed by the SaaS Terms of Use or the CSA and associated Service Description.

Refer to additional technical support information in the IBM Software as a Service Terms of Use document for the program.

**Terms of Use**

The program’s *Terms of Use and CSA Service Description* document is available on the Software as a Service terms website.

**Limited warranty**

If warranted, refer to the warranty as stated in the Terms of Use document or the Cloud Services Agreement for this offering.
<table>
<thead>
<tr>
<th><strong>Money-back guarantee</strong></th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volume orders (IVO)</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Passport Advantage applies</strong></td>
<td>Yes, information is available on the Passport Advantage and Passport Advantage Express website.</td>
</tr>
<tr>
<td><strong>Software Subscription and Support applies</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>IBM Operational Support Services - SoftwareXcel</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Other support</strong></td>
<td>Passport Advantage</td>
</tr>
<tr>
<td><strong>System i Software Maintenance applies</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Variable charges apply</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Educational allowance available</strong></td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**Statement of good security practices**

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 lawful, 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**
**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 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 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 customers. Rates are based on a customer’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.

Financing from IBM Global Financing helps you preserve cash and credit lines, enables more technology acquisition within current budget limits, permits accelerated 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 customers.

**Trademarks**

IBM, Bluemix, Passport Advantage, System i and Express are registered trademarks of IBM Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

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:

Term of use

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

IBM United States