IBM DataPower Gateway appliance and firmware V7.1 deliver the next-generation hardware platform and provide an extensible architecture and modules for advanced security and integration

Table of contents
1 Overview
2 Key prerequisites
3 Planned availability date
3 Description
6 Program number
6 Publications
7 Technical information
9 Ordering information
12 Terms and conditions
16 Prices
17 AP distribution
17 Corrections

At a glance

IBM® DataPower® Gateway and firmware V7.1 deliver the following:

- A new DataPower Gateway appliance offering utilizes an extensible and modular architecture to offer a rich set of functionality in a single, consolidated product through licensed modules on both physical and virtual appliance form factors.
- The latest generation hardware platform is designed to provide increased performance and scalability to meet the needs of mission-critical applications.
- A single mobile, web, and cloud gateway solution integrates industry-proven access management capabilities of IBM Security Access Manager into the DataPower platform. This enables:
  - Secure, integrated, controlled, and optimized access to web, native, and hybrid mobile applications, which include those that were developed for IBM Worklight®
  - Reduced cost and time-to-value by securing access to a wide variety of applications and workloads, which include mobile, web, cloud, and APIs, with a single gateway platform deployed in the DMZ
  - Enforced, dynamic, context-based access policies, to improve overall security posture, through seamless integration with IBM Security Access Manager for Mobile
  - Traditional, web access management security on DataPower Gateway with web single sign-on, session management, and access policy enforcement for multi-factor authentication
- Delivers an easy-to-use, security-enhanced B2B integration in a software module.
- Empowers users with additional authentication capabilities for environments that are based on Microsoft™ technology.
- Provides reliability, availability, and serviceability enhancements.

Overview

DataPower gateway appliances are positioned to act as security and integration gateways for a full range of mobile, web, API, service-oriented architecture (SOA), business-to-business (B2B), and cloud workloads in a single, highly secure, highly consumable, DMZ-ready appliance.
DataPower Gateway is a new modular and extensible appliance offering in physical and virtual form factors. The physical appliance is built on the latest generation hardware platform designed to provide increased capacity, performance, and serviceability to meet mission-critical infrastructure requirements. In addition, firmware V7.1 delivers enhanced advanced security processing capabilities for mobile, web, and B2B workloads through flexible software modules.

DataPower Gateway is the new product name of a consolidated appliance offering that utilizes an extensible and modular architecture to offer the functionality provided by three products listed below, in a single, consolidated product through software modules on both physical and virtual appliance form factors:

- WebSphere® DataPower Service Gateway XG45
- WebSphere DataPower Integration Appliance XI52
- WebSphere DataPower B2B Appliance XB62

The new DataPower Gateway physical appliance is:

- Built on the latest generation, purpose-built hardware platform designed to provide increased capacity, performance, flexibility and serviceability as compared to its predecessors
- A single, consolidated, 2U high-density rack mount design

Firmware V7.1:

- Delivers new modular firmware architecture with new software modules
- Enables advanced security for mobile and web applications through a software module that is built on industry-leading IBM Security Access Manager technology, capabilities that includes:
  - A highly scalable reverse proxy for user access control and web single sign-on
  - An integrated enforcement point for context-based access policies of IBM Security Access Manager for Mobile
- Combines key access management features of IBM Security Access Manager with the inherent capabilities of DataPower Gateways for message-level security, IT platform security, and application integration. Users can implement a single gateway to help protect and securely integrate:
  - Mobile applications
  - Browser-based web applications and portals
  - APIs
  - SOA environments
  - B2B applications
- Provides B2B capabilities that were previously unique to the WebSphere DataPower B2B Appliance XB62 as a software module
- Adds Kerberos S4U2Self functionality to provide flexible authentication for Microsoft environments
- Provides reliability, availability, and serviceability enhancements

**Note:** This announcement fulfills the statement of direction in Software Announcement **AP14-0369**, dated October 1, 2014.

### Key prerequisites

Firmware V7.1 requires a DataPower physical appliance or DataPower Virtual Edition.

For more details, refer to the **Hardware requirements** and **Software requirements** sections.
Planned availability date

November 21, 2014

Description

Emerging technology trends, like mobile and API management, allow businesses to expand the scope of valuable IT assets to new channels and use cases. These shifts in technology enable businesses to reach consumers, business partners, and clients anywhere in the world at any time. These new opportunities require the enterprise to accommodate additional security capabilities, access controls, and to manage the exponential growth in application traffic.

DataPower Gateway is the new name of a consolidated product that utilizes an extensible and modular architecture that offers the functionality provided by three existing products, namely WebSphere DataPower Service Gateway XG45, WebSphere DataPower Integration Appliance XI52 and WebSphere DataPower B2B Appliance XB62, in a single consolidated product through optional software modules on both physical and virtual form factors.

The modular design that is used by the new DataPower Gateway appliance provides existing DataPower Service Gateway XG45 functionality as the base product and Integration Appliance XI52 and B2B Appliance XB62 capabilities as optional software modules.

The DataPower Gateway physical appliance form factor includes:

- Purpose-built, DMZ-ready, 2U high-density rack mount design
- Latest-generation, high performance hardware technology that is designed to provide increased capacity, performance, flexibility, and serviceability compared to its predecessors
- Hardware cryptography accelerator card to improve performance of both transport, secure sockets layer (SSL) or transport layer security (TLS), and message level security processing
- Increased serviceability with multiple, field-replaceable parts
- Improved hardware diagnostics to help identify problems
- Two network I/O features for increased flexibility, throughput, and reduced latency
  - Eight 1 Gigabit Ethernet ports
  - Two 10 Gigabit Ethernet ports
- Embedded Hardware Security Module (HSM) optional physical module provides enhanced protection of cryptographic keys that is Federal Information Processing Standard (FIPS) 140-2 Level 3 certified

DataPower Gateway appliances and firmware V7.1 utilizes an extensible and modular architecture and provides enhanced security and integration support for mobile, web, and B2B workloads through optional software modules. They provide a consolidated mobile, web, and cloud gateway solution that integrates industry-proven, access management capabilities of IBM Security Access Manager into the DataPower platform. This enables users to implement a single gateway as policy enforcement point to provide security, control, optimization and integration for a full range of workloads helping to simplify infrastructure, reduce cost and improve time to value.
Converged policy enforcement and advanced security for mobile and web applications, which exploit the industry-leading capabilities of IBM Security Access Manager, include:

- A highly scalable reverse proxy for user access control, web single sign on, and session management
- The ability to enforce fine-grained, security policies in a high-performance environment to protect mission-critical web and mobile applications
- A converged, policy enforcement point to reduce network hops, reduce management complexity, and provide easier, single entry point for all types of traffic that include mobile, API, SOA, B2B, and cloud
- An ability to enable advanced authentication methods to enforce web and mobile security policies, such as, context-based access, one-time passwords and multi-factor authentications
- The capability to use predefined configuration patterns for securing, controlling, and optimizing mobile, web and API workloads

**Note:** IBM Security Access Manager Proxy module is required for the converged policy enforcement point functionality and is available on the following DataPower models:

- DataPower Gateway
- DataPower Gateway Virtual Edition (Developer, Production and Non-Production versions)
- WebSphere DataPower Service Gateway XG45 (2426 models only)
- WebSphere DataPower Service Gateway XG45 Virtual Edition (Developer, Production, and Non-Production versions)
- WebSphere DataPower Integration Appliance XI52 (2426 models only)
- WebSphere DataPower Integration Appliance XI52 Virtual Edition (Developer, Production, and Non-Production versions)
- WebSphere DataPower B2B Appliance XB62 (2426 models only)

The Developer version of DataPower Gateway Virtual Edition includes the IBM Security Access Manager Proxy module in the base product at no additional charge. With this offering, you can have easy-to-use, security-enhanced B2B integration that:

- Provides B2B functionality that is available in existing WebSphere DataPower B2B Appliance XB62 as a software module
- Includes B2B protocol policy enforcement, access control, message filtering, and data security
- Supports EDIINT AS1, AS2, ebMS 2.0 protocols plus IBM MQ File Transfer Edition integration
- Includes EDI, XML and Binary payload routing
- Includes Trading Partner Profile Management for B2B governance
- Includes full features interface for B2B configuration and transaction viewing

**Note:** The B2B module is required for B2B integration functionality and is available on the following DataPower models:

- DataPower Gateway
- DataPower Gateway Virtual Edition
- WebSphere DataPower Service Gateway XG45 (2426 models only)
- WebSphere DataPower Service Gateway XG45 Virtual Edition
- WebSphere DataPower Integration Appliance XI52 (2426 models only)
- WebSphere DataPower Integration Appliance XI52 Virtual Edition
The Developer and Non-Production versions of DataPower Virtual Edition include the B2B module in the base product at no additional charge.

Integration and mainframe connectivity that:

- Provides integration functionality available in WebSphere DataPower Integration Appliance XI52 and B2B Appliance XB62 as a software module.
- Includes any-to-any message transformation between a wide range of data formats including text, binary, COBOL copybooks, industry standards and custom formats.
- Offers database connectivity to allow reading and writing of data to relational databases with support for IBM DB2®, IBM IMS™ DB, Oracle, Sybase, and Microsoft SQL Server.
- Supports IBM IMS Connect and IMS Callout capability to allow easy connectivity to and from IMS transactions.

**Note:** The Integration module is required for this integration and mainframe connectivity functionality and is available on the following DataPower models:

- DataPower Gateway
- DataPower Gateway Virtual Edition

The Developer and Non-Production versions of Virtual Edition include the Integration module in the base product at no additional charge.

Firmware V7.1 provides flexible, security policy enforcement for Kerberos environments by using S4U2Self. This can help provide protocol transition support by using S4U2Self. This enables transition into Kerberos environments even when the consumer used another authentication mechanism.

**Accessibility by people with disabilities**

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at:


**Reference information**

For information on IBM Security Access Manager Proxy for DataPower, refer to Software Announcement AP14-0399, dated October 14, 2014.

For additional information on IBM API Management V3.0 (On-premise), refer to Software Announcement AP14-0140, dated April 22, 2014.


For additional information on IBM PureApplication® System W1500, refer to AP12-0106, dated April 11, 2012, and to Software Announcement AP13-0034, dated January 8, 2013.

For additional information on WebSphere DataPower Virtual Editions, refer to Software Announcement AP12-0443, dated October 23, 2012.

For information on the WebSphere DataPower Service Gateway XG45, refer to Software Announcement AG11-0158, dated October 4, 2011.


### Availability of national languages

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### Program number

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### Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

### Publications

Documentation for DataPower appliances and features is available at the product documentation site

Specified operating environment

Hardware requirements

For attended installation, this appliance requires a laptop computer running Windows™ or Linux™ in which to plug a USB to serial console adapter cable. The cable is included.

DataPower firmware V7.1 supports the following DataPower physical and virtual appliances and their supported software options:

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DataPower Gateway Virtual Edition requires one of the following:

- Machine that supports VMware vSphere ESXi V5.0, V5.1 or V5.5 editions: Standard, Enterprise, and Enterprise Plus
- Machine that supports VMware Workstation V10
- Machine that supports VMware Player V6
- Machine that supports VMware Fusion V6
- Machine that supports Citrix XenServer V6.2
- IBM PureApplication System W1500 or W2500 Version 2.0
- PureApplication Service on SoftLayer with x86 hardware
- IBM SoftLayer bare metal instances using supported hypervisors

Minimum virtual resources for each virtual edition appliance: 4 GB vCPU and 4 GB RAM

Physical specifications

Dimensions

8436-52X and 8436-53X models

Height: 88.9 mm (3.5 in.)
Width: 438 mm (17.25 in.)
Depth: 584 mm (23 in.)
Weight: 21 kg (46.2 lb)
Electrical
8436-52X and 8436-53X models (Each contain two 720-watt power supplies)

100 - 127 (nominal) V AC; 50 Hz or 60 Hz; 10.0 A
200 - 240 (nominal) V AC; 50 Hz or 60 Hz; 5.0 A

Standards
This system supports or complies with the following standards:

- Multiprocessor Specification (MPS) 1.4
- Hardware-enabled to meet the International Organization for Standardization (ISO) 9241, Part 3

Equipment approvals and safety

- Japan VCCI, Class A
- Australia/New Zealand AS/NZS CISPR 22, Class A
- Korea KN22, Class A, KN24
- Taiwan BSMI CNS 13438 Class A; CNS 14336
- China CCC
- IEC 60950-1

Homologation
This product is not certified for direct connection by any means whatsoever to interfaces of public telecommunications networks. Certification may be required by law prior to making any such connection. Contact an IBM representative or reseller for any questions.

Software requirements
DataPower Virtual Edition requires one of the following:

- VMware vSphere V5.0, V5.1 or V5.5 editions: Standard, Enterprise, and Enterprise Plus
- VMware Workstation V10
- VMware Player V6
- VMware Fusion V6
- Citrix XenServer V6.2

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

Customer responsibilities
This product is designated for customer setup. Customer setup instructions are shipped with the product.

Installability:
Each IBM DataPower Gateway appliance requires approximately 30 minutes for installation. Installation includes unpacking, rack-mounting, connecting network and console cables, and powering on the system. Additional time is required to configure the software.
Packaging

The DataPower Gateway appliance is shipped in a single package.

The appliance carton contains:

- Appliance
- Two power cords
- Installation Guide
- Quick Start Guide
- Safety Pointer sheet
- Resource Kit CD
- Warranty flyer
- Console serial cable
- Rack-mount kit, including two rack power cords

Security, auditability, and control

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

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

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorised_portfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

http://www.ibm.com/partnerworld/wps/bplocator/

Product group:

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Product category: Appliance
# DataPower Gateway

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B2B Module for DataPower Gateway Virtual Edition
Processor Value Unit
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S&S reinstatement 12 Months D1B0PLL

TIBCO Enterprise Message Service Module for DataPower Gateway
Virtual Edition for Non Production Environments
Processor Value Unit
License + S&S 12 Months D1AZKLL
Annual Software Subscription & Support Renewal E0KHBLL
S&S reinstatement 12 Months D1AZVL

B2B Module for WebSphere Service Gateway XG45 Virtual Edition
(S725-390)
Processor Value Unit
License + S&S 12 Months D1B0ULL
Annual Software Subscription & Support Renewal E0KH9LL
S&S reinstatement 12 Months D1B0ULL

B2B Module for WebSphere DataPower Integration Appliance XIS2
Virtual Edition (S725-391)
Processor Value Unit
License + S&S 12 Months D1B0YLL
Annual Software Subscription & Support Renewal E0KHPLL
S&S reinstatement 12 Months D1B0PLL

B2B Module for WebSphere DataPower Service Gateway XG45 (S725-K51)
Per Application Instance
License + S&S 12 Months D1AZ8LL
Annual Software Subscription & Support Renewal E0KHSLL
S&S reinstatement 12 Months D1AZ9LL

B2B Module for WebSphere DataPower Integration Appliance XIS2
(S725-K53)
Per Application Instance
License + S&S 12 Months D1AZALL
Annual Software Subscription & Support Renewal E0KH3LL
S&S reinstatement 12 Months D1AZBLL

Business Critical Service Upgrade:

DataPower Gateway
Business Critical Service upgrade per Appliance Install
upgrade 12 Months D1AS2LL
Subsequent upgrade 12 Months E0KFRLL

DataPower Gateway with HSM Card
Business Critical Service upgrade per Appliance Install
upgrade 12 Months D1AT3LL
Subsequent upgrade 12 Months E0KFULL

Business Critical Service Upgrade is available in the following:

Australia, China, South Korea, Hong Kong, India, Indonesia, Japan, Malaysia, Pakistan, Philippines, New Zealand, Singapore, Sri Lanka, Taiwan, Thailand, and Vietnam.

Hard Drive Retention Service Upgrade:

DataPower Gateway
Hard Drive Retention Service upgrade per Appliance Install
Initial 12 Months D1AT0LL
Subsequent 12 Months E0KF5LL

DataPower Gateway with HSM Card
Hard Drive Retention Service Upgrade per Appliance Install
upgrade 12 Months D1AT4LL
Subsequent upgrade 12 Months E0KFVLL

Hard Drive Retention Upgrade is available in the following:
Australia, China, South Korea, Hong Kong, India, Indonesia, Japan, Malaysia, New Caledonia, New Zealand, Pakistan, Philippines, Singapore, Sri Lanka, Taiwan, Thailand, and Vietnam.

**Note:** Country-specific line cords are included with each order that is based on the ship-to address.

For ordering information on the IBM Security Access Manager Proxy module, refer to **AP14-0399**, dated October 14, 2014.

### Charge metric

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<td>Per Appliance Install</td>
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<td>Software Options for IBM DataPower Gateway</td>
<td>5725-T07</td>
<td>Per Application Instance</td>
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<td>IBM DataPower Gateway Virtual Edition</td>
<td>5725-T09</td>
<td>Per Authorized User Per Processor Value Unit</td>
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<td>5725-J90</td>
<td>Per Processor Value Unit</td>
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<td>IBM WebSphere DataPower Integration Appliance XI52 Virtual Edition</td>
<td>5725-J91</td>
<td>Per Processor Value Unit</td>
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Metric definitions are available at


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More information regarding IBM DataPower technology can be found in the comprehensive portfolio of education services which is available from the WebSphere Education team. The curriculum provides a unique training value built on exclusive product knowledge, a complete education experience, and flexible options.


To learn more about IBM Software Services or to contact a Software Services sales specialist, visit [http://www.ibm.com/software/sw-services/](http://www.ibm.com/software/sw-services/)

**License Information number**

The program’s License Information will be available for review on the IBM Software License Agreement website [http://www.ibm.com/software/sla/sladb.nsf](http://www.ibm.com/software/sla/sladb.nsf)

**Limited warranty applies**

Yes

**Limited warranty**

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

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This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Appliance Subscription and Support (Appliance Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice.

IBM DataPower Virtual Edition is supported for the lifecycle of the corresponding IBM DataPower firmware version. IBM DataPower Virtual Edition V7.1 has the same end of support date as the IBM DataPower firmware V7.1.

IBM DataPower provides a minimum of two years of support for each firmware release beginning at the general availability of the release. IBM DataPower customers with active subscription and support are entitled to the latest three levels of firmware support. These releases with the latest updates will be available on the support website. Releases of the IBM DataPower firmware that are older than two years and are not within the three latest levels of firmware are subject to withdrawal of support.

You will receive a notification of discontinuance of firmware support with 12 months notice.

For additional information, visit

http://www.ibm.com/support/docview.wss?rs=2362&uid=swg21246298

This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support also provides you with access to updates (modifications or fixes), and releases.

**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.

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**Other terms**

**Volume orders (IVO)**

No
IBM International Passport Advantage Agreement

Passport Advantage applies
Yes, and through the Passport Advantage website at

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

Usage restriction
Yes. Adding, removing, or replacing hardware components of DataPower Gateway System must be performed by IBM.

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

System i® Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.
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http://www.ibm.com/financing
### AP distribution

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*Brunei Darussalam, Indonesia, Cambodia, Lao People's Democratic Republic, Malaysia, Philippines, Singapore, Thailand, and Vietnam
**Bangladesh, Bhutan, India, Sri Lanka, Maldives, Nepal, and Afghanistan

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### Corrections

**(Corrected on November 26, 2014)**
Corrected the URL in the Publications section.

**(Corrected on October 14, 2014)**
The Description section is revised.