



IBM API Management V2.0 helps simplify your on-premise API management experience and utilize your existing IBM WebSphere DataPower Gateway appliances

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At a glance

API Management is a complete solution that helps you:

- Quickly register and configure your API management solution within minutes and rapidly create new APIs from existing business assets or cloud services through configuration and a no-coding approach
- Manage your APIs with business-level controls by setting varying levels of consumption entitlements and the ability to manage the application developer
- Transform and grow your business with insights through detailed analytics with structured filtered searches and navigation capabilities
- Acquire partners and innovative application developers, both internally and externally, through an attractive developer portal that can be tailored to your brand
- Use leading standard industry practices to help secure, control, and optimize access to your APIs
- Reduce resolution time with supplied operational monitoring and debugging capabilities

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Overview

Markets continue to change at a rapid pace. The expansion of the number of devices, such as smartphones, tablets, laptops, and so on as well as the growth of social media is presenting new and additional business opportunities for companies to create new channels with their customers and partners. To address these emerging opportunities, companies are opening up their data and services by exposing them as web APIs. A web API management solution is imperative to the success of externalizing the core services by providing easy assembly of new APIs, enabling security and different levels of service, providing management and insight to developers and business users, and socializing those APIs to developers, through communities and portals.

Today, IBM is announcing IBM API Management, a complete set of web API capabilities that can be deployed on-premise in an enterprise's data center. API Management integrates the most important features that are necessary to enable

the three most significant players in the API economy: application developers, business owners, and IT personnel.

API Management provides capabilities for creating, proxying, assembling, securing, and scaling the web APIs. This solution also provides detailed analytics and operational metrics to the business owner and a customizable developer portal to socialize the APIs and manage applications that can be used by the developers. The developer portal is available with self-service registration and provides links to social communities.

API Management complements the Software as a Service (SaaS)-based web API capabilities offered with IBM WebSphere® Cast Iron® Live Web API Services, but as an on-premise solution. Also, with the on-premise solution, you can now use your existing WebSphere DataPower® Gateway Appliances running firmware Version 6.0 to act as the API gateway.

API Management key benefits

API Management is a complete solution that offers critical web API capabilities, including:

- **Rapid API proxying and assembly:** API assembly and proxying capabilities are provided to allow rapid creation of new APIs from existing business assets or cloud services through configuration. These API assembly capabilities are enabled by seamless integration with IBM WebSphere Cast Iron .
- **Support for iterative development and API versioning:** Changes can be made dynamically to an existing API implementation. Reactivating new versions of the API can be performed in a nondisruptive, highly available manner.
- **Security and robust scalability capabilities:** Access to APIs can be managed using a combination of API key and secret, and application users can be authenticated using HTTP basic authentication or OAuth 2.0. The solution provides built-in caching, quota management, and flood control, and can be configured to exploit existing DataPower appliances.
- **Business analytics and operational metrics:** Detailed business analytics and operational metrics are provided to help you analyze how your company's products are utilized and how well the APIs are performing and being used by developers.
- **Ability to import existing APIs:** The API provider can derive Representational State Transfer (REST)-based APIs from existing enterprise services or combinations of services such as SOAP-based web services or relational database sources.
- **Nurturing of innovation:** The developer community can help the innovative application developers, whether they are internal or external, to develop applications. This can expand a business's brand loyalty and open new channels of business to attract existing partners.
- **Securely integrate with IBM DataPower Gateway:** API Management requires and integrates with IBM DataPower Gateway Appliances, which contain robust security capabilities and provides access control, integration, and optimized delivery of APIs and other enterprise resources.

Key prerequisites

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

Planned availability date

June 28, 2013: (Electronic distribution) - US English and national languages

July 12, 2013: (Media packs) - US English and national languages

Description

Today's dynamic business environments and economic uncertainties create a need for the organizations to work smarter in order to remain competitive and respond to changing demands for better and newer products and services at lower costs. Working smarter means having the agility to take advantage of new revenue opportunities and address competitive threats. It also means being able to optimize costs by lowering operational and maintenance expenses while increasing efficiency.

For many businesses, a primary barrier to business agility and cost optimization is IT complexity. To achieve business goals, IT must be able to quickly and easily deliver on the needs of the business while supporting innovation. API Management helps companies quickly orchestrate and create new web APIs, secure and manage the web APIs, gain business insight with analytics, socialize the web APIs in communities, and integrate their cloud services with on-premise applications and enterprise systems.

IBM offers a solution with IBM API Management to enable businesses to create, socialize, and manage their APIs. This solution can help you:

- Grow your business by entering the fastest growing business channel of APIs quickly
- Increase speed of innovation by sourcing developers, both internally and externally

The on-premise offering of IBM API Management offers a solution for companies and businesses to establish API management for their private, internal APIs, as well as public or protected, external APIs. This new on-premise offering provides the capabilities needed to externalize and manage your services as web APIs. With it, you can also use your existing DataPower Gateway Appliances running at a minimum firmware level of V6.0, which provides security capabilities, threat protection, traffic management, and optimized delivery of API workloads.

API Management delivers the following sets of capabilities in these focused areas:

- **Create and manage APIs to help reduce time to market and simplify operational management of the API**
 - Dynamic and highly-available API versioning capabilities
 - Snapshot the implementation with the ability to revert to previous state
 - Create new REST APIs from SOAP-based services
 - Support standard security mechanisms for API management such as OAuth and Basic Auth with a simplified user experience
 - Provide enhanced and detailed operational metrics
- **Manage APIs from a business perspective**
 - Support detailed analytics to support billing capabilities
 - Support expanded entitlement policies
 - Enhancements in analytics
- **Simplify and scale operations management experiences for an on-premise private cloud**
 - Small, minimal footprint to get started
 - Easy-to-use operations dashboard for management activities
- **Critical API security, control, and optimization capabilities delivered by IBM DataPower Gateway Appliances**
 - Provides high-performing, scalable, and dynamically managed API gateway that is fully integrated with the API Management Administration and Developer Portals
 - Provides policy enforcement point (PEP) for API access and traffic management

- Efficiently performs message payload processing and protocol conversions for integrating with existing company services and assets
- **Optionally utilize API assembly capabilities of IBM WebSphere Cast Iron for the rapid deployment of new APIs**
 - Enables rapid creation of new APIs from existing business assets or cloud services through a no-coding configuration-based approach
 - Allows you to create APIs based on SOAP-to-REST conversions, access to relational databases (IBM DB2® , Microsoft™ SQL Server, MySQL, and Oracle), access to salesforce.com, or by orchestrating an API implementation from multiple data sources
 - Defines human-readable error messages that an API can return, making it easier for your application developers to work with your API
 - Offers improved debugging capabilities that enable the API provider to understand and navigate both simple and complex assembly scenarios to troubleshoot errors and issues
 - Supports arrays and collections in the API assembly, enabling more complex assemblies and more formats in the API response messages

Reference information

For information on IBM WebSphere DataPower Appliance V6.0, refer to Software Announcement [213-172](#), dated April 23, 2013 .

For information on WebSphere Cast Iron Appliance XH40 firmware V6.4, refer to Hardware Announcement [113-083](#), dated April 23, 2013 .

For information on WebSphere Cast Iron Hypervisor Edition V6.4, refer to Software Announcement [213-185](#), dated April 23, 2013 .

Availability of national languages

Description	Availability date	Language
5725-L30	June 28, 2013	Multilingual - (Chinese Simplified, Chinese Traditional, English US, French, German, Italian, Japanese, Korean, Portuguese-Brazilian Spanish)

Program number

Program number	VRM	Program name
5725-L30	V2.0.0	IBM API Management

Education support

Education support will be provided for the products in this announcement.

IBM Global Services, IT Education Services, supports many IBM offerings.

Flexible training options

WebSphere education offers several training options to meet your budget and time goals. Many offerings are delivered in a traditional classroom setting, at either your location or an IBM training center. Online delivery options are also available. Instructor-led online classes are taught real-time by an IBM instructor in a virtual classroom setting. Or, for a more independent training experience, you can select from a wide variety of self-paced online courses that you complete on your schedule.

For more information about available WebSphere education offerings, including course locations and availability dates, visit

<http://www.ibm.com/websphere/education>

Role-based training paths can be found at

<http://www.ibm.com/software/websphere/education/paths/>

For additional IBM education, visit

<http://www.ibm.com/training/us>

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

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

API Management publications will be available on June 28, 2013, in the online Information Center. Visit

<http://pic.dhe.ibm.com/infocenter/apimgmt/v2r0m0/index.jsp>

Technical information

Specified operating environment

Hardware requirements

One of the following IBM DataPower Gateway Appliances is required for use with IBM API Management. The DataPower Appliance must be running a minimum firmware level of V6.0:

- IBM WebSphere DataPower Integration Appliance XI52
- IBM WebSphere DataPower Service Gateway XG45
- IBM WebSphere DataPower Integration Appliance XI50
- IBM WebSphere DataPower Integration Blade XI50B
- IBM WebSphere DataPower Integration Appliance XI52 Virtual Edition
- IBM WebSphere DataPower Service Gateway XG45 Virtual Edition

The following DataPower software features are required for use with IBM API Management:

- Application Optimization
- Data Integration Module, when using the DataPower XG45 or DataPower XG45 Virtual Edition

One of the following is required for use with IBM API Management to take advantage of the rich API assembly feature:

- IBM WebSphere DataPower Cast Iron Appliance XH40 firmware V6.4
- IBM WebSphere Cast Iron Hypervisor Edition V6.4

The API assembly feature allows you to create APIs based on SOAP-to-REST conversions, access to relational databases (IBM DB2 , Microsoft SQL Server, MySQL, and Oracle), access to salesforce.com, or by orchestrating an API implementation from multiple data sources. The Cast Iron Appliance must be running a minimum firmware level of V6.4.

The most current hardware requirements for IBM API Management will be available after April 29, 2013, at

<http://www.ibm.com/software/products/us/en/api-management>

For information on IBM WebSphere DataPower Appliances firmware V6.0, refer to Software Announcement [213-172](#), dated April 23, 2013 .

For information on IBM WebSphere DataPower Service Gateway XG45 and WebSphere DataPower Integration Appliance XI52 Virtual Editions, refer to Software Announcement [213-172](#), dated April 23, 2013 .

Software requirements

IBM API Management requires:

- One of the following browsers:
 - Microsoft Internet Explorer V9
 - Mozilla Firefox 17
 - Google Chrome 23
- One of the following hosting environments:
 - VMWare ESXi 4.1
 - IBM Workload Deployer 3.1.0.7
 - IBM PureApplication™ System W1500 1.0.0.4

The most current software requirements for IBM API Management V2.0 will be available after April 29, 2013, at

<http://www.ibm.com/software/products/us/en/api-management>

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

- API Management is distributed via electronic download and a set of physical media packs consisting of multiple DVDs.

- License Information document, form number L-SBRY-95CFW7

Software Services

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API Management

Product group: WebSphere

Product Identifier Description	Program number
IBM API Management V2.0	5725-L30

Product category: Application Integration Middleware Other

Product	Program number
IBM API Management V2.0	5725-L30

Passport Advantage

IBM API Management

Program name/Description	Part number
IBM API Management Administration and Developer Portal per Processor Value Unit	
License and Software Maintenance 12 mo Annual Software maintenance renewal	D0ZSZLL E0HP6LL
Software Maintenance reinstatement 12 mo	D0ZT0LL

IBM API Management Administration
and Developer Portal for non-production
per Processor Value Unit

License and Software Maintenance 12 mo	D0ZT1LL
Annual Software maintenance renewal	E0HP7LL
Software Maintenance reinstatement 12 mo	D0ZT2LL

Notes :

- IBM WebSphere Cast Iron API assembly capabilities can be used as an alternative for the rapid deployment of new APIs.
- API Management requires an IBM WebSphere DataPower Gateway to offer API security, control, and optimization capabilities.

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Media pack description	Part number
API Management v2.0 multilingual - Media pack	BA16SML

Charge metric

IBM API Management (Passport Advantage)

Program/service name	Program number	Charge unit description
IBM API Management	5725-L30	Per processor Value Unit (PVU)

Processor Value Unit (PVU)

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type, and model number at the website below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores. The PVU table can be found at

http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (refer to the web page below). If using Full Capacity licensing, Licensee must obtain PVU entitlements sufficient to cover all activated processor cores¹ in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using Virtualization Capacity licensing, Licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules at

http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_specific_virtualization_technologies.html

¹ An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes :

- Some programs may require licenses for the program and what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

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License Information form number

Program name	LI number
IBM API Management V2.0	L-SBRY-95CFW7

The programs' License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

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No

Passport Advantage applies

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IBM Operational Support Services -- SoftwareXcel

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Other support

Passport Advantage

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No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

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Reference: YE001

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Corrections

(Corrected on August 7, 2013)

The Hardware requirements section was revised.

(Corrected on April 30, 2013)

The date for the Availability of National Languages was changed to June 28, 2013.