IBM SOA Policy Gateway Pattern for Red Hat Enterprise Linux brings visibility and control to your SOA

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At a glance

IBM® SOA Policy Gateway Pattern for Red Hat Enterprise Linux™

- Brings visibility and control to your service-oriented architecture (SOA)
- Delivers the ability to manage and control SOA services
- Provides the ability to establish and enforce policies for a service or for an individual service consumer
- Prevents unauthorized access to your enterprise services
- Leverages IBM WebSphere® Service Registry and Repository capability to provide service registration and lifecycle management
- Integrates with DataPower® to control and route web service requests

Overview

In today's competitive, ever-changing business world, organizations are growing faster than ever. The demand for new capabilities to help them lead the competition means that new business services are emerging rapidly. Companies need to be able to use these services to their advantage, and to react to changes in their environment more quickly, at both an IT and a business level.

IBM SOA Policy Gateway Pattern for Red Hat Enterprise Linux enables your business to control your enterprise and adapt quickly to change. By controlling precisely which clients can access which services, it helps you prevent service overload and unexpected outages, saving your business money. And by providing a single point to dynamically make policy changes, it enables your business to be much more reactive.

IBM SOA Policy Gateway Pattern for Red Hat Enterprise Linux can enable you to rapidly deploy all the components required to register and control services. These components are automatically pre-integrated to get you up and running faster than ever before. Use of the pattern will shrink the time taken for getting a system installed and set up from weeks to hours. With SOA Policy Gateway Pattern for Red Hat Enterprise Linux, a new environment for testing, staging, or production can be set up in a few clicks with the bare minimum of supplied information.

An SOA policy provides a dynamic interaction point to rapidly handle web service requests as they flow through the business. You can connect this pattern to a suitable DataPower appliance (7199 Model XI52 or XB62, or 7198 Model XG45) to provide policy enforcement for Web Services.
SOA policies enable you to:

- Define different endpoints for different classes of service. For example, a policy could be set to route service requests to a different endpoint for premium users, to provide a high quality of service with fastest response times.
- Implement traffic scheduling, by routing requests to different endpoints at different times of day. For example, you can route requests to a service hosted in an overseas data center overnight while regular backup takes place in the local center.
- Annotate the policies with service metadata and documents to describe their usage in your enterprise. You can use access control and establish a lifecycle with approval steps to control who is authorized to approve policy changes.
- Establish and automatically enforce contracts between consumers and providers using Service Level Agreements (SLAs). SLAs defined in the policy can determine how the service should behave and who should have access.
- Save money by preventing system outages and protecting your services. For example, to protect a back-end service, you could set a threshold limit for the number of requests that the service handles before a notification is sent, warning system administrators that request load is increasing. If the load approaches the set limit, throttling can be applied to queue requests to prevent the service being overwhelmed. If the number of service requests exceeds the set limit, the requests can be rejected.

Policy administration is provided via the Business Space user interface provided by WebSphere Service Registry and Repository.

IBM SOA Policy Gateway Pattern for Red Hat Enterprise Linux leverages IBM governance to register and manage services. This pattern delivers WebSphere Service Registry and Repository to provide policy authoring, catalog services, discover existing services, record consumer and provider contracts, author SLAs, and provide lifecycle management and visualization reports.

**Key prerequisites**

- IBM PureApplication™ System or IBM Workload Deployer for deployment
- DataPower Appliance (7199 Model XI52 or XB62, or 7198 Model XG45)

**Planned availability date**

September 14, 2012: Electronic delivery

**Description**

Service-oriented architecture (SOA) is the next evolutionary step to helping IT organizations meet their increasingly complex challenges. SOA has the potential to drive business flexibility, performance, and innovation by better aligning your information technologies to your business objectives. Maximizing this potential depends on how well you govern the services in your SOA throughout the lifecycle. It also depends on the ability to measure your success.

**Store, access, and manage information to support a successful SOA**

IBM SOA Policy Gateway Pattern for Red Hat Enterprise Linux delivers management and governance capabilities that allow you to get the most business value from your SOA with the ability to measure success. It facilitates storing, accessing, and managing service information, along with service consumer information, to easily select, invoke, govern, control, reuse, and report your services.
IBM SOA Policy Gateway Pattern for Red Hat Enterprise Linux helps you:

- **Encourage reuse** - The publish and find capabilities promote service reuse in SOA projects by allowing greater visibility of and easier access to existing services. Powerful search capabilities offer a natural and user-friendly way to find services by allowing you to progressively refine search results using attributes, document types, or classification. In addition, full-text search capability is available to search both metadata and the contents of documents stored in the system.

- **Enhance connectivity** - IBM SOA Policy Gateway Pattern increases runtime flexibility of applications via DataPower by enabling selection of services and enforcement of SLA policies based on service metadata.

- **Optimize service usage** - The manage capability enables management of service metadata, service interactions, service dependencies, and service redundancies. You can classify services based on business objectives, manage policies for service usage, and monitor how services are changed and versioned. Also, you can link related documents (such as PDF files) to service metadata. This capability helps you optimize the use of services in an SOA.

- **Control access** - Control the visibility of and access to service metadata for sharing and reuse by using role-based access. Using the access-control editor, you can easily set up access-control rules that align with your business.

- **Classify services** - Users can classify services and related metadata into groups that are meaningful in the domain of your organization and that align with your business needs.

- **Analyze the impact of changes** - The pattern provides support for analyzing the impact of changing a service. It includes graphical views to help users understand the service relationships and dependencies.

- **Manage the service lifecycle** - By creating user-definable entities and customizing the service lifecycle, you can configure the pattern precisely according to your business needs. You can implement best practices for service lifecycle management with the ability to promote services and lifecycle validations. Using customizable validators, you can guard transitions in the lifecycle states of services.

- **Generate reports** - Reporting becomes key in managing and measuring an SOA. WebSphere Service Registry and Repository provides robust reporting capabilities built on top of Eclipse Business Intelligence and Reporting Tools (BIRT).

**Control your SOA**

Prevent rogue services from consuming your system resources or becoming unexpected, unmaintained dependencies by using an SOA policy to define how services are allowed to behave within your infrastructure. Then have that policy automatically enforced with DataPower without ever writing any XSLT. Save money by preventing system outages, protecting your services using an SOA policy.

An SOA policy provides a dynamic interaction point to rapidly interact with service requests as they flow through the business.

- Use an SOA policy to define different endpoints for different classes of service. For example, a policy could be set to route service requests to a different endpoint for premium users to provide a high quality of service with fastest response times.

- Extend the policy with scheduling; route requests to different endpoints at different times of day. For example, set a route to a service hosted in an overseas data center overnight while regular backup takes place in the local center.

- Annotate the policies with service metadata and documents to describe their usage in your enterprise. Use access control and establish a lifecycle with approval steps to control who is authorized to approve policy changes.

- Protect a back-end service by setting a threshold limit for the number of requests that the service handles before a notification is sent, warning system administrators that request load is increasing. If the load approaches the limit, throttling can be applied to queue requests to prevent the service being
overwhelmed. If the number of service requests exceeds the limit, the requests can be rejected.

Connect this pattern to a suitable DataPower appliance (7199 Model XI52 or XB62, or 7198 Model XG45) to provide policy enforcement for Web Services. You can establish and automatically enforce contracts between consumers and providers using Service Level Agreements (SLAs). SLAs defined in a policy determine how the service should behave and who should have access.

**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 about IBM PureApplication System, refer to Software Announcement 212-117, dated April 11, 2012.

For information about IBM Workload Deployer, refer to Hardware Announcement 111-202, dated October 04, 2011.

**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**

No publications are shipped with this program.

**Technical information**

**Specified operating environment**

**Hardware requirements**

One of the following:

- IBM PureApplication System
- IBM Workload Deployer
**Software requirements**

IBM SOA Policy Gateway for Red Hat Enterprise Linux V2.0 offers significantly increased data protection, scalability, and performance for all its database-intensive operations which, based on IBM DB2® technology, are designed to manage data more effectively and efficiently. Greater availability is delivered through enhancements such as online, automated database reorganization. In addition, the increased scalability and the ability to leverage the latest in server technology help deliver increased performance of backup and recovery processes.

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**

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Product category: SOA Management

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License Information form number

L-SBRY-8USJYN IBM SOA Policy Gateway Pattern for Red Hat Enterprise Linux

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System i Software Maintenance applies
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Variable charges apply
No

Educational allowance available
Not applicable

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