



IBM Software Group

WebSphere Business Services Fabric

Foundation Pack overview



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In the presentation you are provided with an overview of WebSphere® Business Services Fabric Foundation Pack.

Agenda

- What is the Foundation Pack ?
- Foundation Pack tools
- Business dynamic assembler
- Business services repository
- Subscriber manager
- Governance manager
- Performance manager



WebSphere Business Services Fabric consists of the IBM Business Services Foundation Pack and the IBM Business Services Tool Pack that help simplify business, governance and process interoperability challenges associated with business services in an SOA. This presentation only covers Foundation Pack; Tool Pack is covered in a separate presentation. Here you will cover a description of the Foundation pack and provide a high level overview of the business dynamic assembler, business service repository, subscriber manager, governance manager and performance manager

What is the Foundation Pack ?

- Provides a highly scalable, runtime policy definition and enforcement engine
- Controls and automates entitlement of business services
- Provides visibility and monitoring of service oriented processes and applications.
- Provides end-to-end governance of business services through design-time, run-time, deploy-time, and manage-time.
- Stores and manages business services, policies, and business service entitlements.
- Enables business service adaptation and delivery based on content, context, and contract



The Web Sphere Business Service Fabric Foundation Pack provides a highly scalable, runtime policy definition and enforcement engine that enables dynamic service assembly and service behavior adaptation based on content, context, and contract. It controls and automates entitlement of business services for subscribers, enabling creation, control, and management of service packages to subscribers across the ecosystem. Integrates with leading security and identity management products. It provides visibility and monitoring of service oriented processes and applications. Includes multi-perspective views and enables drill-down analysis of events and exceptions. It provides end-to-end governance of business services through design-time, run-time, deploy-time, and manage-time. It stores and manages business services, policies, and business service entitlements. And lastly it enables business service adaptation and delivery based on content, context, and contract

Foundation Pack tools

- Dynamic assembler - Highly scalable dynamic service binding and execution engine
- Governance manager – Control point for business service model changes, visibility, and collaboration
- Business services repository - Business service model and business policy repository
- Subscriber manager - Controls and automates business service entitlements



In this slide you will provide a high level insight into Web Sphere Business Services Foundation Pack tools and assets. First is the Business Services Dynamic Assembler which is a highly scalable runtime engine that performs dynamic assembly of services based on business service policies and assertions. The Business Services Dynamic Assembler provides business agility through policy driven run-time assembly of business services.

Second is the Business Services Governance Manager which is a Web based tool that is used to govern business services through the development life cycle of the service that is the design, deployment, and management stages. The Business Services Governance Manager enforce consistency and coherency of business service model within the Business Services Repository component.

Third is the Business Services Repository, which is a standard-based business service model repository that captures information about business services, channels, business policies, and service subscribers. The Business Services Repository supports discovery and federation of data from WebSphere Service Registry and Repository and standards based Lightweight Directory Access Protocol systems.

Fourth is the Business Services Subscriber Manager, which is a Web based tool that manages business service entitlements using an organizational enrollment and subscription model. It enables the creation, control, and management of service portfolios for subscribers across a business ecosystem, and operates with leading security and identity management products.

And lastly, the Business Services Performance Manager, which is a tool that provides visibility and monitoring of business services-based solutions. This module includes a set of visibility services that enable administrators to monitor the behavior and performance of their business services.

Business services dynamic assembler

- Is a highly scalable run time engine that selects the best service provider based on the operating context of a request.
- Extends the WebSphere Process Server runtime by introducing a metadata driven dynamic service assembly engine.
- It is packaged as SCA component providing simple implementation



The WebSphere Business Services Dynamic Assembler determines the best service provider or endpoint that is to be used at runtime based on the incoming request, business environment and context of the request. It analyzes the incoming business service request and the related relevant policies as per the operating context and from that assembles one composite policy or selection policy.

Once the selection policy has been determined candidate endpoints are chosen that match the criteria established by the selection policy. These candidates are then ranked and tiered. The most appropriate endpoint candidate is selected as the binding for the current request. The business service request is then sent to that particular end point or service provider to be processed.

The Business Dynamic Assembler extends the WebSphere Process Server runtime by introducing a metadata driven dynamic service assembly engine.

The Dynamic Assembler is packaged as a Service Component Architecture (SCA) component and is managed by the SCA runtime within the WebSphere Process Server.

There are further extensions available for the dynamic assembler component giving users more visibility and control in the dynamic selection process run by this engine. These extensions and more deep dive into the dynamic assembler is provided in subsequent presentations.

Business services repository

- Business service model repository for business service meta-data, policies, and subscribers
- Ability to federate meta-data from other repositories such as WebSphere Services Registry and Repository and LDAP registries
- Conflict detection during collaborative development
- Comprehensive version control and change tracking
- Powerful search and browse capabilities



This chart walks through an overview of the Business Services Repository. This is a business services model repository for industry specific service meta data, business policies, domain ontology's and service subscriptions. It supports discovery and federation of data from other repositories like WebSphere Registry and Repository and Lightweight Directory Access Protocol systems. This enables easier integration of WebSphere Business Services Fabric in any existing enterprise environment.

It is a core component of the Business Services Fabric and is local to it.

Further the business services repository provides comprehensive version control, change tracking and conflict detection capabilities in a collaborative environment. It also has powerful secure Web based search and browse tools that increase visibility into contents of the repository.

Business services subscriber manager

- Controls and automates entitlement of business services for service consumers
- Support for self-service and assisted enrollment models
- Manage Business Service portfolios for subscribers
- Federates subscriber information from LDAP directories

The screenshot shows the 'Manage Users Subscriptions' section of the Business Services Subscriber Manager. It features a search bar and a table with columns for User ID, Name, Available Services, and Subscribed Services. The table lists several users and their associated services.

User ID	Name	Available Services	Subscribed Services
admin	System Administrator	13	12
challara	Challara Laxmanayyer	13	12
kaplaner	Matthew Kaplan	13	12
parthip	Parthi Chaitra	13	7
radhak	Radhya Bhatn	13	12
tanuger	Tiffany Cooper	13	12
trayap	trayapne	13	5



Next look at Business Services Subscriber Manager component, which provides the ability to control and automate entitlement of business services for subscribers. It enables the creation, control and management of service portfolios for subscribers across a business ecosystem, and integrates with leading security and identity management products. It enables administrators to represent complex organization hierarchies in the Business Services Repository and capture meta-data relating to subscribers. Business Services Subscriber Manager also enables flexible business service portfolio provisioning through either self-service or assisted provisioning. It can be integrated with existing identity manage systems like LDAP and WebSphere Virtual Member Manager to subscribe and enroll enterprise users and groups access to business services.

Business services governance manager

- Manage life cycle changes to Business Services meta-data
- Control meta-data promotion between environments
- Open APIs for integration with enterprise change management systems such as Rational® ClearCase®
- Define policies for collaborative development
- Notifications through e-mail to users when changes are made

Manage Changes

Filter

Status: All In-Review Pending Approved Rejected
 Published

Submission: All
 Date: _____

Submitter's Last Name: _____
 Change List ID: _____

View 10 messages at a time

1 messages

Page 1 of 1

Change List ID	Date Submitted	Submitter	Status	Short Description
21	Wed Jan 31 22:07:43 CST 2007	Agent Developer	<input checked="" type="checkbox"/> In-Review	JK Agent Services Project

My Services

My Inbox

- My Services
 - Business Services Repository
 - Governance Manager
- Configure Environments
- Configure Namespaces
- Configure Projects
- Configure Repository
- Import/Export
- Manage Changes
- Performance Manager
- Subscriber Manager

Service Portfolio

Help

This Governance Manager module of Web Sphere Business Services Fabric provides the ability to manage and control life cycle changes to business services. In a multi-authoring environment this module facilitates viewing, approval and rejection of metadata changes, and publishing of approved changes to the Business Services Repository. To ensure data integrity it provides tools to validate meta-models to ensure accuracy and correctness before publishing to Business Services Repository.

The Governance Manager enables creation of namespaces and environments to manage metadata in the Business Services Repository more efficiently. Through this module you can export or import Business Services Repository catalogues. It also provides open API's for integration with enterprise change management systems such as Rational Clear Case.

Business services performance manager

- Provides visibility and monitoring of composite business services.
- Provides contextual views of business service performance and enables drilldown analysis of events and exceptions.
- Out of the box reports supporting
 - ▶ Business Service Invocation Summary
 - ▶ Business Service Usage
 - ▶ Web service Performance Summary
 - ▶ End point Performance Summary
- Integration with Tivoli products - ITCAM for SOA



The Performance Manager provides visibility and monitoring of service-oriented processes and applications. This module includes multi-perspective views and enables drill-down analysis of events and exceptions in a loosely coupled, service oriented business ecosystem. The Performance Manager provides greater visibility across service oriented business processes and functions. The performance analysis is in terms of the Key Performance Measures, such as total number of business message transactions for a business service, average response time of a business service, and the number of failed transactions. It is designed for seamless interoperability with leading business activity monitoring and Web services management tools, like WebSphere Business Monitor and ITCAM for SOA.

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