



IBM Software Group

WebSphere Business Process Management Suite V6.2

Business space overview



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This presentation provides an introduction to the new features provided by the business space component in the WebSphere® Business Process Management Suite V6.2

Goals

- Goal of this presentation
 - ▶ Provide an overview of the business space framework and how the business process management (BPM) products it
 - ▶ Provide an overview of business space strategy and topology
 - ▶ Provide some samples of business space use cases
- You will learn:
 - ▶ The basics of business space, its architecture and topology



The goal of this presentation is to provide an overview of the WebSphere business space framework and at a high level show how it is used with the different products within the WebSphere BPM portfolio.

Each of the BPM products that use the business space component will cover the details of their specific functions.

There is also a separate presentation that covers how to get started with the business space.

Business space - overview

- New, ready-to-run Web 2.0 BPM client for business users
- Provides a single, rich, holistic user experience
- Unifying front end for IBM's BPM products to access business related data
- Web browser based
- Blurs the distinction between business and IT
- Not a separate product



The business space component is the new, ready to use Web 2.0 BPM client for business users.

Business space unifies the business process management user interface space for business users.

This allows them to work in a single window for all the business activities taking place in different BPM products in the suite.

Business space is a mash-up of BPM widgets targeted for a business user.

Business space is not a separate product but part of the BPM products.

Business space concepts

The screenshot displays the 'Your Business Space' dashboard. At the top, there's a navigation bar with 'Welcome admin', 'Help', and 'Logout'. Below it, a 'Page1' tab is active. The main area contains several widgets: a table of instances, two KPI gauges (Average Order Fulfillment KPI and Average Order Price KPI), and a Google Calendar. A right-hand sidebar lists various management tools like 'Business Monitoring Tools', 'Solution Management', and 'Tasks and Workflow'. At the bottom, a 'BPM portfolio' section shows four REST API boxes connected to WebSphere servers. Four numbered callouts (1-4) explain key concepts: 1. Business Space common framework, 2. Business space palette, 3. Business space content, and 4. Content connected with REST services.

city	ClipsAndTasks Key	COMPLETED	country	CreationTime	Monitoring Context Timer	Order End Time	Order Fulfillment Cost	Order Fv
Raleigh o1		*	USA	January 12, 2009 0 s	3:04:11 PM	August 9, 2008 3:20:05 AM	15.222720916933562	2 d, 0 h, 0 m
Toronto o2		*	Canada	January 12, 2009 0 s	3:04:11 PM	August 11, 2008 4:14:55 AM	29.397692350071997	4 d, 0 h, 0 m
Toronto o5			Canada	January 12, 2009 1 d, 18 h, 43 m, 3 s	3:04:11 PM			0 s

Annotations:

- Business Space common **framework** shipped in all BPM products
- Business space **palette** shows widgets of interest for each space
- Business space **content** is an integrated view of **widgets** from various sources
- Content connected with representational state transfer (**REST**) services to the BPM portfolio

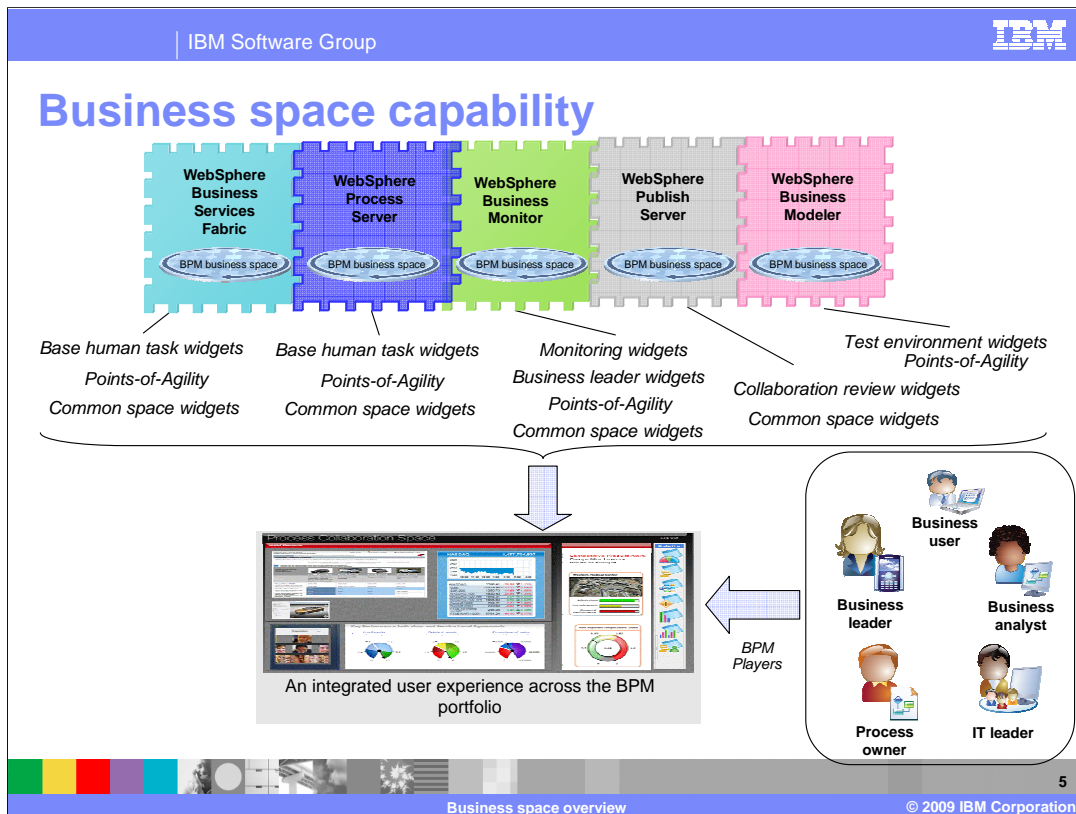
This slide shows a screen capture of a typical business space where different widgets from various applications come together. In the example shown here, the widgets are from the WebSphere Business Monitor and the Google calendar.

The business space framework is included with each of the BPM products in the WebSphere BPM suite.

Additionally, each BPM product ships a set of product specific widgets that plug into framework, extending the framework for the given product.

The palette provides a list of the widgets that you can use to compose your Business Space view. You can drag these widgets anywhere on the page, and can tailor the page layout to meet your preferences. Each widget provides a way of representing specific content from a data source such as WebSphere Business Monitor or the Google calendar.

The representational state transfer services, known as REST, are used to exchange data between the widgets on the screen and the applications providing the data.



The relationship between the BPM products and Business Space is shown here. The widgets for each product are registered with WebSphere Business Space.

The different roles in an organization can share the same business space, or a separate business space can be created for different business objectives. With this approach you will see an integrated user interface which brings the different widgets into a common business space. The architecture allows widgets to be provided from different sources and available for business users within a business space.

Business Space is enabled in the WebSphere Business Service Fabric, WebSphere Process Server, WebSphere Business Monitor, and WebSphere Business Modeler products in the BPM V6.2 suite. Each of these products provides a set of product specific widgets relevant to the function it performs, as listed below the product. There are common widgets like Viewers, Google gadgets and others that are included with all the products. Each of the products has a set of widgets termed as Points of Agility. These widgets allow business user to make changes to the process that affect the execution of the process. For example, included with the WebSphere Process Server are the Business Rule widgets that allow business user to view and make changes to the rules, thereby affecting the decisions made by the running process.

The details of the product specific widgets are discussed with their respective product presentations.

Business space – value proposition

- Empowering the various business user and roles
- Integrate creation of the business user experience with authoring of the business application itself
- Enable collaboration between all participants in the BPM process
- Transform IT administration into a business-centric and solution-centric experience



The key value proposition of the WebSphere Business Space is shown here.

First is **empowering the business user**. This is enabling the business user, particularly the business leader with the information they need to view and monitor the entire business process in a holistic manner in a single rich UI.

The second is to **integrate creation of the business user experience with authoring of the business application itself**. This is to enable highly skilled developers and business users to create and deliver rich content for a broader audience of BPM users across a range of roles.

Third is to **enable collaboration between all participants in the BPM process**. It enables collaboration on the day-to-day activities across role boundaries like human tasks and coordination, strategy, review, modeling of processes, and organizational navigation.

Last is to **transform IT administration into a business-centric and solution-centric experience**. This enables shifting the focus of the business user experience away from deployment-centric to business application-centric administration. IT administration is then integrated into the BPM life cycle / optimization process.

Business space – components

- Business space is not a separate product. It is included as part of the each BPM product
- The first product in a new environment installs business space and registers it's widgets
- Two Java™ EE applications are installed as part of business space framework:
 - ▶ **Business Space Manager**
 - ▶ **IBM BSPACE Widgets**
- Other products register their widgets when they are installed

Enterprise Applications

Use this page to manage installed applications. A single application can be deployed onto r

Preferences

Start Stop Install Uninstall Update Rollout Update Remove File

Select	Name	Applica
<input type="checkbox"/>	AppScheduler	➔
<input type="checkbox"/>	BPCECollector_AIMCP020Sandbox01_server1	➔
<input type="checkbox"/>	BPCEExplorer_AIMCP020Sandbox01_server1	➔
<input type="checkbox"/>	BPCEContainer_AIMCP020Sandbox01_server1	➔
<input type="checkbox"/>	BusinessRulesManager	➔
<input type="checkbox"/>	BusinessSpaceManager	➔
<input type="checkbox"/>	DefaultApplication	➔
<input type="checkbox"/>	HTM_PreddefinedTaskMsg_V620_AIMCP020Sandbox01_server1	➔
<input type="checkbox"/>	HTM_PreddefinedTasks_V620_AIMCP020Sandbox01_server1	➔
<input type="checkbox"/>	IBM_BSPACE_WIDGETS	➔



Business space is not a separate product but bundled with each of the BPM products. Each BPM product has the WebSphere Business Space common framework components, which are the two Java EE applications, Business Space manager, and IBM BSpace Widgets.

The Business Space framework is installed as part of the BPM product installation. In addition to the common framework, each BPM product will install and register their product specific widgets with the business space as part of their installation. The product specific widgets allow the business user to interact with the relevant business data for the given BPM product.

In a more complex topology where the widgets are on a separate server than the Business Space framework, the widgets can be registered manually with the framework.

Widgets in BPM V6.2

BPM product	Available widgets		
Common widgets (for all products)	Editors and Viewers: <ul style="list-style-type: none"> • Presentation • Spreadsheet • Web Viewer (URLs) • Feed Viewer 	Google Tools: <ul style="list-style-type: none"> • Google Gadgets • Google Calendar 	
WebSphere Business Monitor	Business Monitoring: <ul style="list-style-type: none"> • Reports • Instances • Human Tasks • KPIs • Dimensions • Diagrams • Alerts • KPI history and prediction 	Monitoring Tools: <ul style="list-style-type: none"> • Export Values • Alert Subscriptions • KPI Manager • Getting Started 	Human Tasks: <ul style="list-style-type: none"> • My Team's Tasks • Send Widget <p>(These widgets also require WebSphere Process Server)</p>
WebSphere Business Modeler Publishing Server	Reviewing: <ul style="list-style-type: none"> • Draft Models • Released Models • Publishing Server Status • Model Access Control • Getting Started Publishing Server • Publishing Server Manager • Comments 		
WebSphere Process Server	Human Tasks: <ul style="list-style-type: none"> • Task Information • Available Tasks • My Tasks • Task Creation (Dojo and Lotus® Form) • Tasks Created by Me • Human Workflow Diagram • T List 	Real-time Business Configuration <ul style="list-style-type: none"> • Business Rules • Security Manager • Business Calendar Manager • Health Monitor 	

The list of BPM widgets for each of the BPM products in the suite are listed here. Many of the widgets were initially introduced with version 6.1.2. The ones highlighted in blue were added with the 6.2 releases.

The common widgets are shipped with all the products. They contain the editors, viewers and some Goggle Tools like the gadgets and calendar. The editors and viewers allow the widgets to interact with Power Point presentations, Spreadsheets, other Web sites, and RSS and Atom feeds.

The widgets included in **WebSphere Business Monitor V6** are the Business Monitoring widgets and tool widgets. These look similar to the widgets currently available in WebSphere Business Monitor V6.1 Dashboard. Additionally, widgets related to Human tasks are also included with WebSphere Business Monitor V6.1.2.

The Widgets included in **WebSphere Business Modeler Publishing Server V6** are used to interact with the published models. They provide access control to the models and a way to provide feedback on the draft models. They are all available as a set through the reviewing business space template.

The Widgets included in **WebSphere Process Server V6** are used to interact with human tasks and the Business Rules. With version 6.2 additional administration widgets have been included. The security manager, the business calendar, and the Health monitor.

Widgets in BPM V6.2

BPM product	Available widgets		
WebSphere Business Services Fabric	Process agility: <ul style="list-style-type: none"> • Business variables 	Administration tools: <ul style="list-style-type: none"> • Application browser • Business service browser • Vocabulary browser • Change set 	Authoring tools: <ul style="list-style-type: none"> • Business service details • Application details • Vocabulary details • Point of agility policy editor • Business service lifecycle management
WebSphere Business Modeler	Interactive process design: Test environment <ul style="list-style-type: none"> • Work with processes • Claim available tasks • View process instance history • Work on tasks • Enter data into forms • Change parameter values for business rules • Visual step process viewer • Visual trace step 		

- The *test environment* business space for the *Interactive Process Design* feature of WebSphere Business Modeler is very specific for this function
 - ▶ It cannot be customized by the business user



The Widgets included in **WebSphere Business Service Fabric V6** are used to interact with the business variables, change sets, application flow, business policy, and business rules.

The Widgets included in **WebSphere Business Modeler V6** are used with a new feature called interactive process design which allows a business user to publish and run a human centric business process directly from WebSphere Business Modeler. This feature launches a Web browser and starts a special test environment business space for the selected business process.

As you can see there is a complete set of widgets needed to start, claim and run a business process.

Section

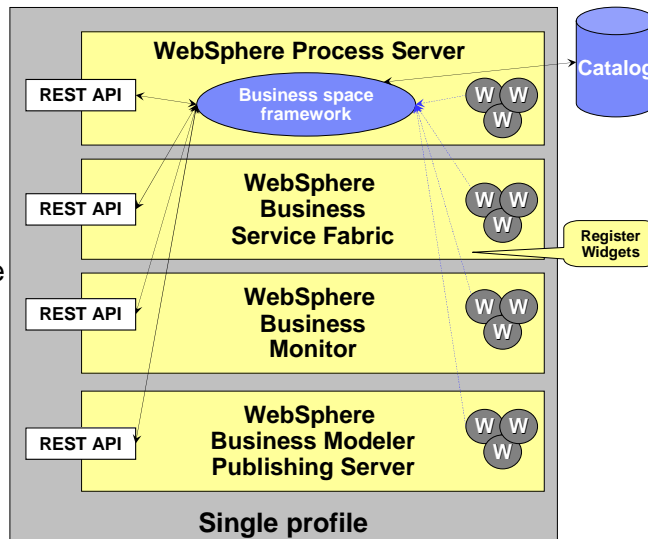
Business space: Strategy and topology



The next section covers the Business Space strategy and topology.

Installation strategy – Single server

- Business Space framework is installed with the first BPM product installation (WebSphere Process Server in this example)
- Subsequent product installations on the same profile will only register their widgets to the Business Space Framework
- Widgets use REST APIs to get or update business data from the servers



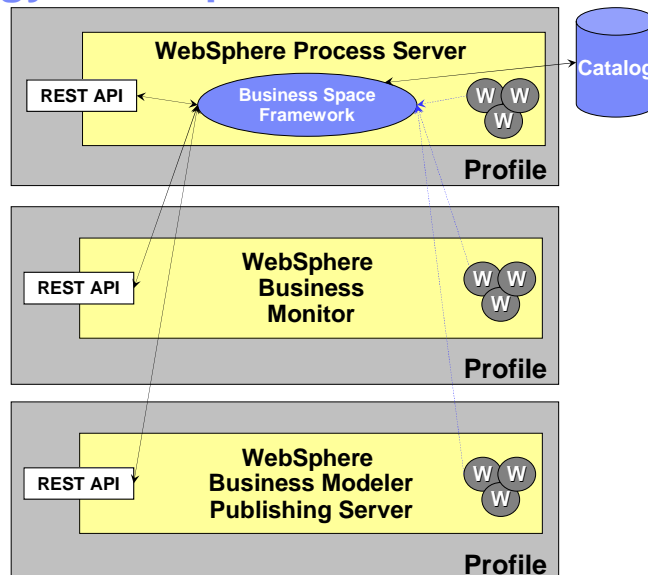
This picture shows the business space with multiple BPM products installed in the same profile. The business space framework applications are installed as part of the first BPM product installation. The example shown here has the WebSphere Process Server installed before other BPM products, and hence the Business Space framework is installed as part of its installation. The Business Space widgets of WebSphere Process Server are also registered with the framework at this time.

The installation and profile augmentation of subsequent BPM products like WebSphere Business Service Fabric, WebSphere Business Monitor, and WebSphere Business Modeler Publishing Server will only register their widgets with the already installed Business Space framework.

At runtime, the widgets in the Business Space will use the REST APIs to get or update the business data from various BPM products.

Installation strategy – Multiple servers

- Business space framework is installed with the first BPM product installation (WebSphere Process Server in this example)
- For V6.2, you will have to manually register (add) and enable the widgets from subsequent installation of the BPM products
 - ▶ Widget registration
Instructions to register widgets are described in product information center
- Widgets use REST APIs to get or update business data from the servers



Enabling the WebSphere Business Space in a clustered environment requires manual configuration – this is documented in product information center

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Business space overview

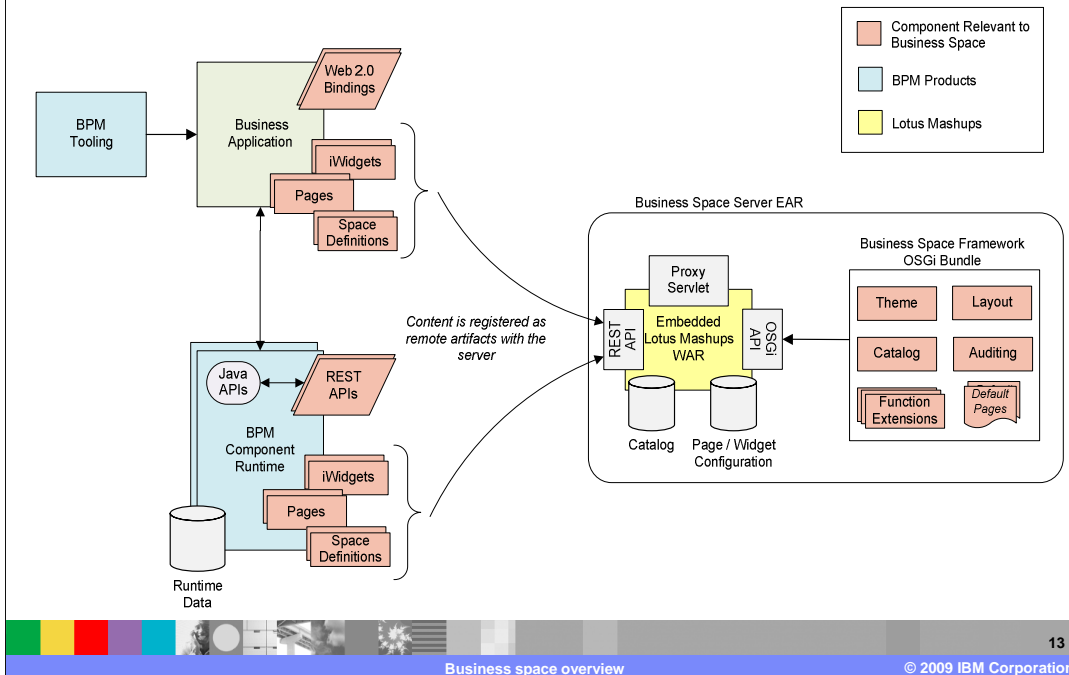
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This picture shows the Business Space when multiple BPM products are installed into different servers within a Network Deployment cell.

The main thing that is different between this configuration and the single server configuration is the registration of the product widgets that are running in the other nodes. The widgets have to be manually registered with the business space framework.

Detailed information on how to manually register widgets can be found in the product information center.

Business space - Deliverables



This picture shows the different deliverables as part of the business space implementation. Core to the business space is the embedded Lotus Mash-up application that provides the foundation for the business space. Part of the WebSphere Business Space framework is the different bundles that provide the theme, layout, cataloging, and other functions.

The Widgets provided by the BPM runtime are based on Lotus iWidgets.

The BPM product runtime provides the REST based APIs that are used by the widgets to interact with the BPM product business data.

The architecture allows business applications to provide their own iWidgets bundled within the application using the REST based APIs. Using this extended model, application specific widgets can then be used by business users in the context of a business space.

Section

Business space UI: Examples



The next section provides some examples of Business Space.

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Sample – Publishing server

Review published Process Models

Explore process models

Add comments to process model

Item	Subject	Status	Priority	Type	Owner	Modified
SpecialWorkRequest	Parallel work		0		wpsadmin	1/14/09...

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Here is an example of the business space for the WebSphere Business Modeler Publishing Server. Here you see the Review page, with the widgets to explore the models and add comments.

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Sample: Widgets from Business Monitor

- Table, half gauge, full gauge, bar, simple

KPI Name	Status	Value	Target	Value in Range
Average Order Fulfillment KPI August 2006		3 d, 18 h, 0 m, 0 s	3 d, 0 h, 0 m, 0 s	
Average Order Price KPI (Dollars)		575	300	
Declined Order KPI		4	3	
Order Count KPI		20		
Percent of Orders Approved KPI		20	90	
Ship Count KPI		4		

Page 1 of 1 Go to page: Results 1 to 6 of 6

Format Switch Icons:

KPIs

Average Order Fulfillment KPI August 2006

Average Order Price KPI (Dollars)

Declined Order KPI

KPIs

Average Order Fulfillment KPI Au

Average Order Price KPI (Dollars)

Declined Order KPI

Order Count KPI

Percent of Orders Approved KPI

Ship Count KPI

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Shown here are some examples for the KPI widgets chart format switch. You can initially set the chart format when you configure the widget. But then if you decide that you want to view the KPIs in a different layout you do not have to go back to re-configure the widget.

Sample: Creating human task

- The human task widget launches with a screen capture of the widget to be included in the task as an attachment

The screenshot illustrates the process of creating a human task from a Business Space widget. On the left, a 'KPIs' widget displays several performance metrics with progress bars. A context menu is open over the widget, with the 'Send Widget' option highlighted. An arrow points from this menu option to the 'Send Widget' dialog box on the right. The dialog box contains the following fields:

- Assignee:** TargetUser
- Task:** Problem with orders
- Message:** (empty text area)
- Attachments:** A screenshot of the KPIs widget is attached to the task.

At the bottom of the dialog box are 'Cancel' and 'Submit' buttons. The overall interface is titled 'Business space overview' and includes a copyright notice for © 2009 IBM Corporation.

Another example of Business Space widget is the capability to send a task to another person. If you are viewing a dashboard KPI or alert and notice something that requires attention, then you can invoke an action to create a new human task to have the issue investigated. In this example, the 'Send Widget' function is selected from the KPIs widget, and then a screen capture of the KPIs is sent as an attachment along with the task.

Summary

- Business space unifies the BPM UI space for business users
 - ▶ Allows them to work in a single window for all the business activities taking place in different BPM products in the suite
- For BPM V6.2, Business Space functions are included in these products:
 - ▶ WebSphere Business Service Fabric
 - ▶ WebSphere Process Server
 - ▶ WebSphere Business Monitor
 - ▶ WebSphere Business Modeler Publishing Server
 - ▶ WebSphere Business Modeler



In summary, the new business space framework provides a unified BPM user interface targeted for you as a business user.

You now have more control over the data visualization you want to see for the various BPM sources and from external sources.

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