



IBM Software Group

WebSphere® Business Monitor V6.1.2

Business space and dashboards



@business on demand.

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This presentation will introduce you to the new business space feature, which includes the monitor dashboard widgets and some new features in those widgets

Agenda

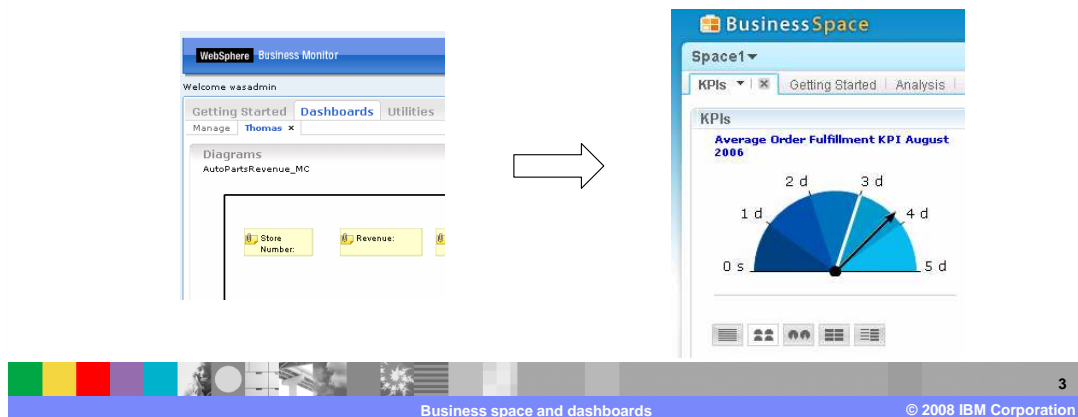
- Business space overview, deployment, usage
- Enhancements to dashboard widgets



This is the agenda for this presentation. You will see an overview of business space, including installation, deployment and usage. You will also see some of the changes and enhancements to the monitor dashboard widgets.

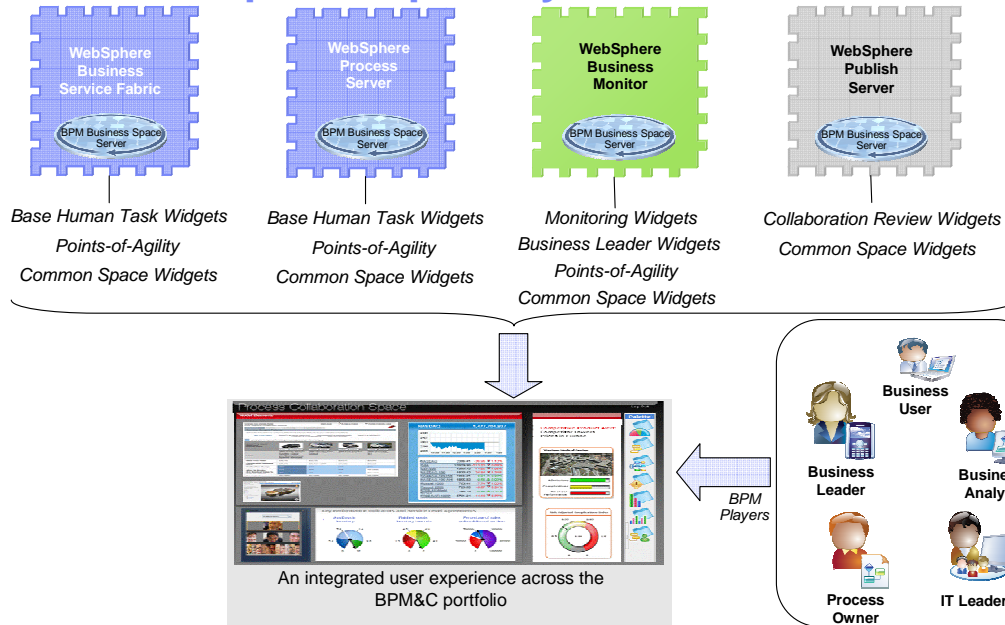
Introduction

- Business space is a new user interface framework for the Business Process Management (BPM) suite of products.
- The Web dashboard was the basis upon which the business space was built.



Business space is a new user interface framework which is now used for the BPM suite of products. Since it was built from the Monitor dashboard framework, the business space dashboard looks similar to the Monitor dashboards from previous releases. In the screen captures on this slide, you can see the similarity. There are some new concepts and capabilities, but the business space is like the previous dashboard in that it is built using Web 2.0 technologies and it has a tabbed user interface for managing your pages.

Business space capability



Business Space is enabled in several products including WebSphere Business Service Fabric, WebSphere Process Server, WebSphere Business Monitor and WebSphere Business Modeler. Each product provides a set of widgets to the business user based on the functionality of the product. On this slide you can see the types of widgets that are provided by each product. With this approach you will see an integrated user interface which brings the different widgets into a common business space.

Business space concepts

1 Common framework that is shipped in products

2 Business space palette shows widgets of interest for each space

3 Business space content is an integrated view of widgets from various sources

4 Content connected with representational state transfer (REST) services to the BPM portfolio

city	OrderAndTask Key	COMPLETED	country	Monitoring Context Timer	Order End Time	Order Fulfillment Duration	Order Start Time	Dr
Raleigh	o1	*	USA	0 s	August 9, 2006 3:20:05 AM	2 d, 0 h, 0 m, 0 s	August 7, 2006 3:20:05 AM	SH
Toronto	o2		Canada	0 s	August 13, 2006 4:14:55 AM	4 d, 0 h, 0 m, 0 s	August 7, 2006 4:14:55 AM	SH
Mexico City	o3		Mexico	5 m, 16 s				NE
Raleigh	o4		USA	5 m, 16 s				NE

BusinessSpace interface showing a table of orders, KPIs (Average Order Fulfillment KPI, Average Order Price KPI), and a Google Calendar widget. The interface is powered by WebSphere.

REST API boxes at the bottom: WebSphere Process Server, WebSphere Publishing Server, WebSphere Business Monitor, WebSphere Business Fabric.

In this slide you can see a screen capture of a typical business space where different widgets from various applications come together. Using Web 2.0 technology and REST services, these widgets interact asynchronously with the backend services to display the data on your page. A palette provides a list of the widgets that are available to you, so you can drag these widgets anywhere on the page, and you can configure the page layout to tailor the display to your preferences.

Widgets by product

<i>BPM product</i>	<i>Widgets enabled</i>		
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 	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
WebSphere Publishing Server	Reviewing: <ul style="list-style-type: none"> • Draft models • Released models • Draft models manager • Released models manager • Publishing server status • Model access control 		
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 • Team list 	Real-time Business Configuration <ul style="list-style-type: none"> • Business Rules 	
WebSphere Business Services Fabric	Real-time Business Configuration <ul style="list-style-type: none"> • Business Variables 		

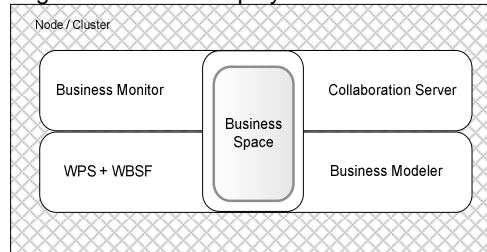
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This table shows you the different widgets that are available for each of the products, and the list of widgets that are common across all of the products, such as Google gadgets and various viewers. For WebSphere Business Monitor, you see widgets that are a carry over from the previous release, such as KPI, instances, and alerts. But there are also some new features for these widgets which are discussed later on in this presentation.

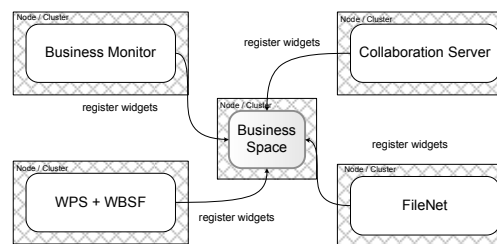
Business space deployment

- Single business space EAR
- Deployed by first installed product. Subsequent product installations use existing instance.
- Each product registers widgets, service endpoints, and space/page templates upon installation
 - ▶ Automatic for stand-alone server and toolkit
 - ▶ Manual process for clusters – see information center section for installing in a highly available environment
- Widgets and their backing services do not have to reside on the same server.

Single node/cluster deployment



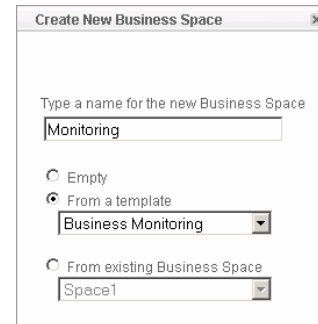
Multi node/cluster deployment



The business space is installed as an EAR file on one of the application servers in your environment. It is deployed by the first product that you install, then subsequent product installations register new widgets for the business space. If you are installing multiple products into a stand-alone server where the products share the same underlying application server, then the installation and configuration of business space is automatically performed by the installation program. Also, for the Monitor toolkit, the business space installation is automatic as well. However, when you are installing in a clustered environment or in a multi-server environment, the widget registration is not done by the installer. You will need to perform several steps manually including installing the database, configuring the data source, deploying the business space EAR files, and updating the widget endpoint registration files.

Spaces and pages

- Spaces contain pages, which contain widgets.
- A space can be created from:
 - ▶ Scratch (empty)
 - ▶ Space template
 - ▶ Existing space (copy)
- A page can be created from:
 - ▶ Scratch (empty)
 - ▶ Page template
 - ▶ Existing page (copy)
- Spaces and pages can be shared with other users.
- Spaces and pages can be imported and exported, in the form of metadata files.



The business space consists of spaces and pages. You can have multiple spaces and each space can have multiple pages and each page can have multiple widgets. Each space and page is represented with a tab so you can easily switch between them. You can create spaces and pages from scratch, from a template or from a copy of another one. Templates are preconfigured elements which can save you some time depending on your needs.

You can specify sharing for other users for your spaces and pages, and identify viewers versus editors. You can also export and import spaces and pages so you can easily share your spaces and pages with other people.

User access control

- Spaces and pages have separate access lists that contain users and groups.
- Users and groups can have view or edit access to a space or page
- Users and groups can be granted view or edit access to a page
 - ▶ Results in implicit view access to the parent space.
- Space and page ownership:
 - ▶ Any user can create a space.
 - ▶ A user who creates a space or page immediately becomes its owner.
 - ▶ Owners implicitly have edit access, plus extra privileges.
- Note: Data access control is independent of space and page access control. It is left up to each widget to manage its user access to data it provides.



There is a separate access list for each space and page. You can specify that a user or group have view or edit privilege. If a user is given access to a page, but not its parent space, then the user is given implicit view access to the parent space. When you create a space or page, you become its owner so you have the ability to edit it, assign privileges and even to delete it. Note that the access to the data is independent of this access list, so the widget needs to manage its own access list for security of the data.

User access rights

	Space	Page
Viewer	<ul style="list-style-type: none"> ▪ Can view space. ▪ Can view space properties. ▪ Can browse accessible pages in space. 	<ul style="list-style-type: none"> ▪ Can view page. ▪ Can view page properties. ▪ No palette available.
Editor	<ul style="list-style-type: none"> ▪ All of space viewer rights above ▪ Can create pages. ▪ Can edit space properties. 	<ul style="list-style-type: none"> ▪ All of page viewer rights above ▪ Can edit page (add and remove widgets, change layout) ▪ Can configure widgets on page ▪ Can edit page properties. ▪ Palette available.
Owner	<ul style="list-style-type: none"> ▪ All of space editor rights above ▪ Can share space (grant access) ▪ Can delete space. 	<ul style="list-style-type: none"> ▪ All of page editor rights above ▪ Can share page (grant access) ▪ Can delete page.
Super-user	<ul style="list-style-type: none"> ▪ All of space owner rights above ▪ Can change owner. ▪ No access control restrictions. 	<ul style="list-style-type: none"> ▪ All of page owner rights above ▪ Can change owner. ▪ No access control restrictions.



This table lists the access rights by privilege for both spaces and pages. A viewer can view information but not edit information. An editor can edit spaces, pages and properties. An owner can perform functions such as edit, share and delete.

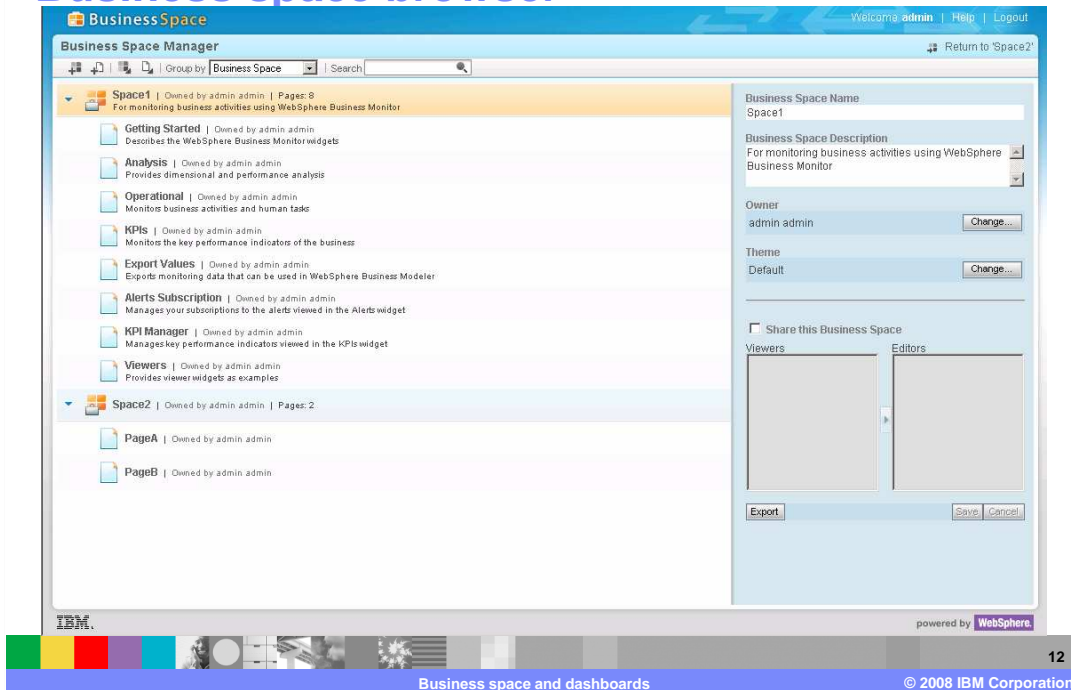
Logging into business space

- URL: <http://<host:port>/BusinessSpace>
- Toolkit:



This slide lists the URL to give you access to business space. If you are in the Monitor toolkit, then there is an option in the server menu to give you access to business space, but you can also use the URL to access it. This slide also shows a screen capture of the login page where you will need to enter your user ID and password.

Business space browser



The screenshot displays the Business Space Manager interface. At the top, it says "BusinessSpace" and "Welcome admin | Help | Logout". Below that, it shows "Business Space Manager" with a search bar and a "Return to 'Space2'" link. The main area is divided into two columns. The left column lists business spaces and their contents. The right column shows the details for the selected space, "Space1".

Business Space Manager

Group by: Business Space | Search

Space1 | Owned by admin admin | Pages: 8
For monitoring business activities using WebSphere Business Monitor

- Getting Started** | Owned by admin admin
Describes the WebSphere Business Monitor widgets
- Analysis** | Owned by admin admin
Provides dimensional and performance analysis
- Operational** | Owned by admin admin
Monitors business activities and human tasks
- KPIs** | Owned by admin admin
Monitors the key performance indicators of the business
- Export Values** | Owned by admin admin
Exports monitoring data that can be used in WebSphere Business Modeler
- Alerts Subscription** | Owned by admin admin
Manages your subscriptions to the alerts viewed in the Alerts widget
- KPI Manager** | Owned by admin admin
Manages key performance indicators viewed in the KPIs widget
- Viewers** | Owned by admin admin
Provides viewer widgets as examples

Space2 | Owned by admin admin | Pages: 2

- PageA** | Owned by admin admin
- PageB** | Owned by admin admin

Business Space Name
Space1

Business Space Description
For monitoring business activities using WebSphere Business Monitor

Owner
admin admin

Theme
Default

Share this Business Space

Viewers

Editors

powered by **WebSphere**

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The business space browser allows you to browse through spaces for which you have access. You can use a filter to search across the business space name, description and owner. You can edit properties such as name and description. You can select a theme to change the color theme of the window. You can also specify the access list for sharing the space with other users. You can also delete a space if you are the owner.

In the upper left corner there are icons which allow you to add a space or to add a page to a space. There are also icons to export and import a space or a page.

Business space page

The screenshot displays the BusinessSpace interface for 'Space1'. The top navigation bar includes 'Welcome admin | Help | Logout' and 'Browse Spaces'. Below the navigation, there are tabs for 'Getting Started', 'Analysis', 'Operational', 'Export Values', 'Alert Subscription', 'KPI Manager', and 'Viewers'. The main content area is divided into three sections: 'Diagrams', 'KPIs', and 'Alerts'. The 'Diagrams' section has a message: 'To begin using this widget, configure the widget settings by clicking Configure from the widget menu.' The 'KPIs' section contains a table with columns for 'KPI Name', 'Status', 'Value', 'Target', and 'Value in Range'. The 'Alerts' section has buttons for 'Mark Read', 'Mark Unread', 'Forward Alert', and 'Remove', along with pagination controls showing 'Page 0 of 0' and 'Results 0 to 0 of 0'. The bottom of the page features a colorful bar and the text 'Business space and dashboards' and '© 2008 IBM Corporation'.

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	[Progress bar]
Average Order Price KPI (Dollars)		575	300	[Progress bar]
Declined Order KPI		4	3	[Progress bar]
Order Count KPI		20		[Progress bar]
Percent of Orders Approved KPI		20	90	[Progress bar]
Ship Count KPI		4		[Progress bar]

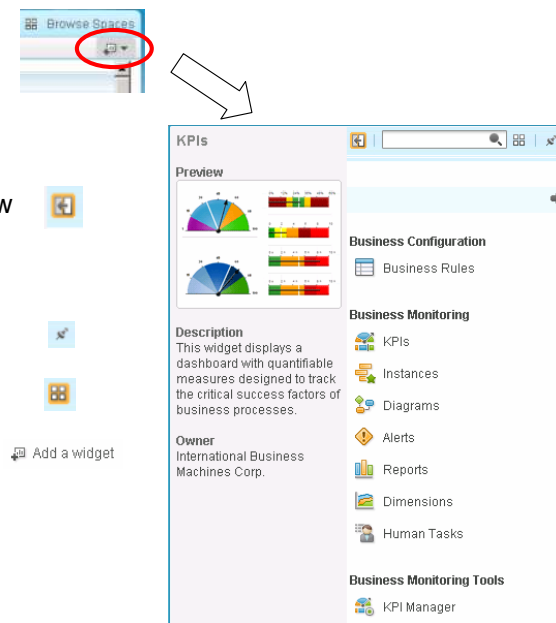
When you click on a specific space in the space browser then you see the page browser where you can click on a tab to view any page in the given space. The current space is listed in the header. Pages are opened as selectable tabs. In this example, the KPIs page in a space called Space1 is being displayed. There is an arrow next to each space name and page name where you can access a menu to perform additional functions. There is also an x icon which is used to close the page. Note that closing a page does not remove a page from a space, it hides the view of the page.

Page layout can be selected at the time that you create the page and anytime thereafter, so you can adjust the number of rows and columns in the page.

Pages display the widgets that have been added to the page, and in this example you see widgets for Diagrams, KPIs and Alerts.

Widget palette

- Categorized
- Filterable by search term - searches across all widget details including name, description, category, and owner
- Provides widget details and preview image in “pop-out” panel
- Widgets can be dragged onto the canvas
- Pin palette to allow multiple drag operations
- Display icons or names
- “Add a widget” dialog provides alternate way to add widgets to canvas



The widget palette can be accessed by click on the icon in the upper right corner of the page.

You can enter a search term which is handy if you have a long list of widgets. The text that you enter is searched across all the details of the widgets including name, description, category and owner.

You can click to pop out details about the widgets. As you see in this screen capture, the details are shown for the KPIs widget. You can click on the icon again to remove the pop out.

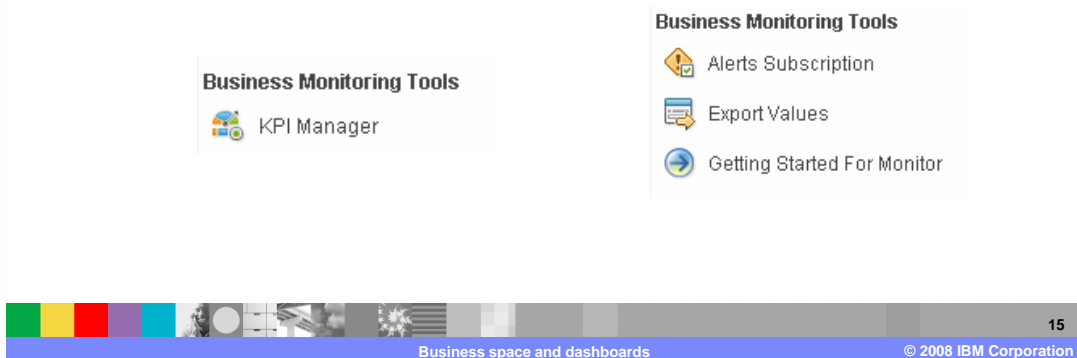
From the palette, you can drag widgets onto a page. If you have multiple drag operations to perform, then you can pin the palette so that the palette will not close after each drag operation.

There is an icon to switch the display between icons and text. In this sample you see the text displayed for each widget.

Instead of using the palette, you can click the links on the page to add a widget from a popup list.

Monitor utilities and getting started

- The existing Monitor 6.1 utilities and the Getting Started function are now implemented as widgets.



In the previous release, the utilities and getting started function were handled as separate entities from the dashboard views. In this release they have been repackaged as widgets so they are handled just like any of the other dashboard widgets. They show up on the widget palette and you can add them to any page. The screen captures on this slide show you how they appear on the widget palette.

Dashboard migration

- Monitor 6.1 Web dashboard page definitions and widget preferences must be migrated into Business Space.
 - ▶ <server>\scripts.wbm\migration\dashboards\upgradePages.bat
- Each Web dashboard page becomes a page within the target business space.
- In addition, the business space will support importing previously exported Monitor 6.1 Web dashboard files into a business space as new pages.

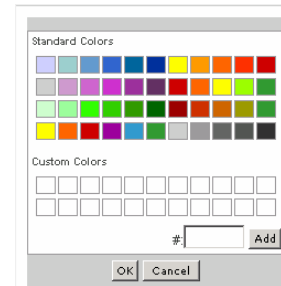


If you have existing Web dashboard definitions and you want to upgrade to the business space environment, then there is a script which will convert the dashboard pages into business space pages. The upgradePages script converts each dashboard page into a page within the specified target business space. Also, you can use the import feature within business space to import any Web dashboards which were exported from the previous release.


Color picker for KPI

- Choose colors by entering hex values or by selecting from a palette.

Range Name	Start Value	End Value	Color	Icon	Delete
Day 1	= [0 d 0 h 0 m 0 s]	< [1 d 0 h 0 m 0 s]		<input checked="" type="checkbox"/>	
Day 2	= [1 d 0 h 0 m 0 s]	< [2 d 0 h 0 m 0 s]		<input checked="" type="checkbox"/>	
Day 3	= [2 d 0 h 0 m 0 s]	< [3 d 0 h 0 m 0 s]			
Day 4	= [3 d 0 h 0 m 0 s]	< [4 d 0 h 0 m 0 s]			
Day 5	= [4 d 0 h 0 m 0 s]	< [5 d 0 h 0 m 0 s]			

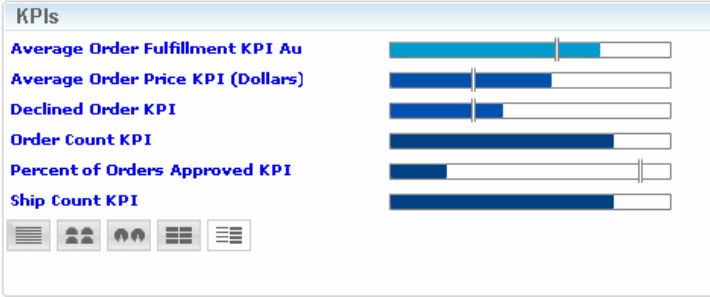


A new feature in this release is the color chooser which is available when you are selecting colors for ranges in the KPI manager. When you click on the color icon for a range, a color picker dialog is displayed where you can select a standard color from the palette. You can also enter the hex value for a color and add it to the custom color palette so that it can be used again at a later time.

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Simplified KPI gauge

- View a simplified form of gauges to maximize real estate and the number of KPIs you can monitor at one time



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A new KPI gauge is available which shows your KPIs in a simplified view. Unlike the KPI table view, this doesn't show the numerical values but instead shows just the KPI name and a bar which represents the value relative to the target. And instead of showing each range color, only the color represented by the range for the current value is shown. This should reduce the footprint of the view within the page and make the status of the KPIs readily apparent.

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In-line chart format switch

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

KPI Name	Status	Value	Target	Value in Range
Average Order Fulfillment KPI August 2005		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

KPIs

Average Order Fulfillment KPI August 2005

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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A nice new feature of the KPI widgets is the 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. There is a set of five icons below the widget, and at any time, you can click on one of the other icons to instantaneously change the view format. The five formats include the four views from the previous release plus the new simple view.

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Instances view child context personalization

ing Time	Update Order Database Processing Time	Check Order Handling Policy for Automatic Approval	Order HandlingReceive	Check Customer Account Status
0.891 s	£	£	£	£

Instances

show/hide Filter Sort Format Advanced Cooperative

Select the monitoring contexts to personalize:

- ClipsAndTasks(Across all versions)
- Order Handling(Across all versions)
 - Order Handling(default)
 - Check Order Handling Policy for Automatic Approval
 - Order HandlingReceive
 - Check Customer Account Status
 - Review Order
 - Update Order Database
 - Cancel Order and Send Notification
 - Ship Order to Customer

Include model specific versions

Select a default monitoring context

Select the columns to display.

Available:

- COMPLETED
- Ship Order to Customer Instance ID
- Ship Order to Customer Process Instance ID

Selected:

- Ship Order to Customer Processing Time

* Number of rows to display: 10

* Refresh rate (in seconds): 60

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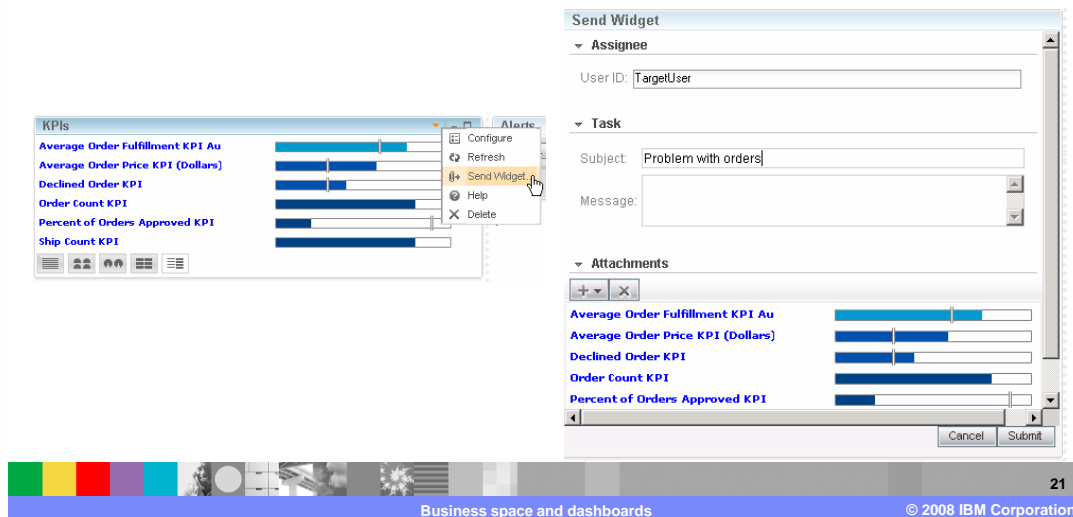
In the previous release you did not have the ability to personalize the display of child monitoring contexts in the instances view. In this release a monitoring context navigator has been added to each tab on the configuration page for the instances widget. You can select which monitoring context to configure, so now you can easily control the columns, filtering, sorting and format of any monitoring context in the model version.

By default, the tabs display the list of monitoring contexts for all versions of the models deployed as is indicated with the "Across all versions" label next to the model name. You can also click to specify which model version to configure. There is a button to set the default monitor context. The default monitoring context is always highlighted within the list of models as you click other tabs in the configuration page.

A check mark next to the monitoring context name indicates that preferences have previously been saved for that monitoring context.

Create human task

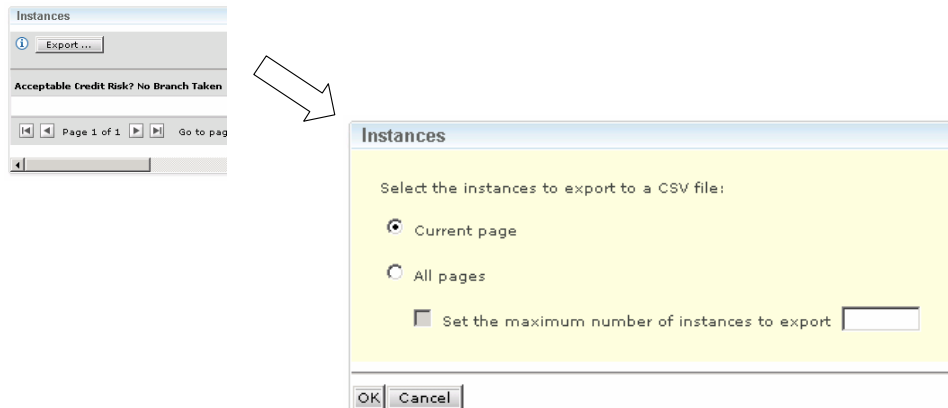
- The human task widget launches with a screen capture of the widget to be included in the task as an attachment.



A new feature in this release provides the capability to send a widget 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. A screen capture of the KPI or alert is sent along with the human task. 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,

Export instances data to CSV

- The instances widget has an export button which you can use to export the data to a comma delimited file.



A new feature on the instances view is the export option. This export should not be confused with the 'Export values' widget which is used to send data back to Modeler. The instances export allows you to export the instances data to a comma delimited file for use in programs such as spreadsheets. You can select to export on the currently displayed page of data, or all pages of data. You can also set a limit on the number of records to export.

Summary

- Covered the new features in the dashboard including integration with business space



In summary, you have seen an overview of the monitor dashboards, changes to some of the views in the dashboards and the integration of the dashboard into the business space.

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