

This presentation covers the three views that can display information about Key Performance Indicators (KPI) in WebSphere Business Monitor V6.



The goal of this presentation is to explain the three views that can be used to display KPI values and how to configure them to show data for specific process models. Other dashboard views are covered in separate presentations.



The agenda is to cover each view beginning with an overview of the capability and how to use the view and then a discussion on how to configure or edit the view to show data for a specific process model. Examples are shown throughout where necessary.



This section provides an overview of the gauges view.



The Gauges view is dedicated to displaying Key Performance Indicators (KPI). You must define a measure as a KPI in the Business Measures Editor (BME) before you can see that measure with this view.

KPI are defined in two ways:

- With a target value and then percentage upper and lower allowed deviation margins
- With absolute values for lower and upper limits

When configuring the Gauges dashboard view you can view either type of KPI, but you cannot combine both types in one portlet. You must create another Gauges view copy for the second type of KPI. The gauges view allows you to specify the minimum and maximum points on the gauge, but the color boundaries are determined by the definitions for targets and limits that you made in the Modeler.



This section will cover configuration of the gauges view.



When you click configure for this view, the first thing you must do is select which business measures model you want to display, then which of the KPI you want to display. If you mix and match the two types of KPI (those with a target and those with limits), you will not be able to get past the screen after this one, so it is important that you only select one type of KPI. You can select as many KPI as you like as you like as long as they are all the same type.

IBM Software Group	IBM
Gauge View Configuration	A.
Select the Gauges view layout.	
C 🖽 Horizontal C 🗊 Vertical C 🗑 Grid Layout	
Type the number of rows and columns.	
2 Rovs 2 Columns	
Select if the gauge displays its aggregate Key Performance Indicator value relative to the KPI target or the KPI limits.	
© KPI target O KPI limits KPI Type (depends on definition in BME)	
Select a color for each sector of the gauge.	
Sector Selected Palette	
Within Barrier	
Above	
Enter the minimum and maximum boundaries for each gauge.	
KPI Name 🛆 Gauge Minimum 🖉 Gauge Maximum 🗴	
ProcessScenario aggregates detail.Average Order Price 500.0 1750.0	
ProcessScenario aggregates detail.Average Process Duration 0.0 2400000.0 🔻	
ProcessScenario aggregates detail.Percentages of decisions requiring approval 0.0 50.0	
Show legend. Show informational text. Gauge	
Back Next Finish Cancel Optional Legend Min/Maxes	
WebSphere Business Monitor V6 – Configuring KPI Views © 2006	8 BM Corporation

After you click Next, you will see this page, where you can control the layout and the colors used in the gauge. You must also specify the minimum and maximum that you want to show for each gauge.

- A duration KPI must specify its gauge min/max using milliseconds (1000 milliseconds = 1 second).
- As mentioned on the previous page, you **must** specify what type of KPI you are displaying, whether limits or targets based. If you specify the wrong type, you will get an error message informing you that it is not a major problem to make a mistake. If you choose to show the legend, it will look different depending on the KPI types.
- Limit gauges show the legend below lower limit, within limits, above upper limit
- Target gauges show the legend **below target**, **on target**, **above target**



The preview page shows you what your view currently looks like based on your settings. You can click Back if there is a problem or Finish if they are correct.

When configuring a duration KPI, you had to specify its gauge min/max using milliseconds (1000 milliseconds = 1 second), but the final display will convert this to friendlier units as shown above in the top right gauge.



This section will cover editing the gauges view.



The pencil icon indicates that this slide provides information about the Edit mode. When you click Edit instead of Configure, you are presented with fewer options. Specifically, you cannot change which model or KPI are displayed. You can only affect the cosmetic behaviour, such as layout, colors, legend and help text.



This section will provide some examples of the gauges view.



Shown here is an example Gauge configured for a **limits** KPI with labels to help you understand what each of the previous settings affect in the final gauge view.

The KPI Lower Limit and Upper Limit values were defined when the business measures model was created in Modeler using the Business Measures Editor and they cannot be changed when you are configuring the dashboard view. The gauge minimum and maximum were specified when you configured the view. The limits can be toggled on or off in the gauges view configuration. The legend refers to the **limits**.



Shown here is an example Gauge configured for a **targets** KPI with labels to help you understand what each of the previous settings affect in the final gauge view.

The boundaries are defined as the target +/- (the upper/lower) percentage margins were defined when the business measures model was created in Modeler using the Business Measures Editor. They cannot be changed when you are configuring the dashboard view. The gauge minimum and maximum were specified when you configured the view.

The legend can be toggled on or off in the gauges view configuration. The legend refers to the **targets**.



This section will provide an overview of the Key Performance Indicators view.



This view, like the Gauges view, is dedicated to visualizing KPI. You must have already defined a measure as a KPI in order to see it displayed in the KPI view. The view provides a simple way of seeing the status (shown with an icon) and the value for a KPI measure. You can hover over the value to see more informative text if you like. You can also display non-numeric values like a date/time or a boolean, unlike the Gauges view. Status will show **Not available** for all target KPI, only limit KPI will show this as below, above or within limits.



This section will cover configuration of the Key Performance Indicators view.



The first configuration step is to select the model and which KPI to display.

IBN	/I Software Gr	oup				IBM
KPI View	Config Click to change icon	gurati	ion			Ł
Select icons t	o represent	KPI stat	tus:		Icon Palette Web Page I Selected image:	
Status	Selected	Palette			Selected image.	_
Below limit	0			Select new icon		
Within limits	~	Ē				
Above limit	•				888	
Show legen	d S	Show info	ormational text		OK Cancel	• •
				Option Lege Informa	ally show and and ation Text	
		WebSph	ere Business Monitor Vé) – Configuring k	(Pl Views © 2006 IB)	19 M Corporation

The next configuration step is a simple cosmetic setup and consists of choosing which icons you want to indicate below, above and within limits. There is a pre-defined palette to choose from, you simply click the palette link and then choose an icon. You can also choose whether or not to show the legend and the help text.



This section will cover editing the Key Performance Indicator view.



The steps for editing the KPI view are the same as those for KPI Configuration, except you cannot choose which model or which KPI to show. You can still change the cosmetics.



This section will provide an overview of the Scorecards view.



The Scorecards view is also dedicated to displaying KPI and visualizing their status. It allows you to group related KPI together into categories called **perspectives**, which allow you to look at the business performance from different perspectives. For example, you might group all financial KPI into a financial perspective, all satisfaction KPI into a **customer sat** perspective and so on. The KPI are displayed as a score against the target values that you set, therefore this view is primarily for target KPI. Limit KPI can also be added but the status, target and score values will not be populated.



There are four perspectives provided, each assigned a unique name and you can add or delete those perspectives from the list, or edit the existing names. You must then add at least one KPI to each perspective that you define.

IBM Software Group							IBM
Perspective Exam	ples						
 Sample scorecard Efficiency (custom 	sho [,]) per	wing spe	g Fina ctive	ancial (s	de	fault) ar	nd
Financial KPI Name	Status ↑↓	Value	Target	Score	↑↓		
ProcessScenario aggregates detail.Average Order Price	V	945.143	1,000		94%		
Efficiency KPI Name		î↓	Status †↓	Value	Target	Score	†↓
ProcessScenario aggregates detail.Average Process Dur	ation		Q	1 h, 47 m, 26 s	30 m		358%
ProcessScenario aggregates detail.Percentages of decis	ions requirin	ig approval	Q	96.429	25		386%
							25

The perspective name is shown above all of the KPI that have been added to that perspective and a KPI can be added to multiple perspectives at the same time if necessary.



This section will cover configuration of Scorecards views.



The first step in configuring a scorecard view is to specify what perspective names you want. You can add, delete or edit the pre-defined list and create your own as necessary.



The next step is to choose the model and the KPI, then a perspective and click Add or Remove to decide whether those KPI should belong to that perspective. Repeat this step for each perspective, ensuring that you have at least one KPI for each perspective.

	IBM Soft	ware Grou	qr				IBM
Score	ecard V	View	Co	nfigu	ation	Choose which	A.
	Select one or n	nore colum	ns to show	v in the View mo	de.	columns to display	
	Show the KP	I value colu	umn.	Show the K	PI target column	n. Show the KPI score column	
	Select the Scor	ecard view	layout:				
Select layout	• E Vertica	<u>a</u> 0	Horizo	ontal C	Grid Grid		
	Select icons to	represent	KPI status				
	Status Below target	Selected	Palette			Use Palette to set icons (as	
	On target		<u> </u>			for KPI view)	
	Above target	Q	Ē				
	Show legence Back Next	Finish	how inform Cancel	national text	lr	Optionally show Legend and Iformation Text	
			WebSph	ere Business Mo	nitor V6 – Confia	uring KPI Views © 2006 IB	29 M Corporation

The next configuration page determines whether you want to display all columns (you can toggle value, target and score) and what layout you want to use as this determines the layouts of the perspectives. Similar to the KPI view, you can use the palette to change the icons that represent the status.

KPI Name 14	Status †↓	Value	Target		Scor	e	†↓			
ProcessScenario aggregates detail.Average Order Price		945.143	1,000				94%			
Internal Business Process										
KPI Name		†↓	Status	†↓	Va	lue	Target		Score	
ProcessScenario aggregates detail.Average Process Duration					1 <mark>h, 4</mark> 7	m, 26 s	30 m	-		358
Dresses Scenario acquisites detail Dercentages of derivising acquising approval										
ProcessScenario aggregates detail.Percentages of decis	ions requirin	ig approval	Q			96.429	25			386
ProcessScenario aggregates detail.Percentages of decis Learning & Growth KPI Name ProcessScenario aggregates detail.Percentages of decis	ions requirin	ng approval	Q Status	ţŤ	Value 95.429	96.429 Target	25	Score	†↓ 3869	386
ProcessScenario aggregates detail.Percentages of decis Learning & Growth KPI Name ProcessScenario aggregates detail.Percentages of decis Customer	ions requirin	ng approval †↓ ng approval	C Status C	ţţ	Value 96.429	96.429 Target 25	25	Score	†↓ 3869	386
ProcessScenario aggregates detail.Percentages of decis Learning & Growth ProcessScenario aggregates detail.Percentages of decis Customer KPI Name	ions requirin ions requirin Status †↓	ig approval †↓ ig approval Value	Status Q Target	ţţ	Value 96.429 Scor	96.429 Target 25	25	Score	†↓ 3869	386

Shown here is an example using four perspectives. Notice that there is one or more KPI for each perspective.



This section will cover editing Scorecards views.



Editing a Scorecard view is the same as configuring one, except that you cannot edit the perspectives or choose which KPI are shown in each one. A preview page is also available.



In summary, this presentation provided an overview of the Gauges, Key Performance Indicators, and Scorecards views and described how to configure and edit each type of view.





34

Trademarks, Copyrights, and Disclaimers

The following terms are addemand	or registered trademarke of miterialional E			boun
IBM IBM(logo) e(logo)business AIX	CICS Cloudscape DB2 DB2 Universal Database	IMS Informix iSeries Lotus	MQSeries OS/390 OS/400 pSeries	Tivoli WebSphere xSeries zSeries
Java and all Java-based trademarks	s are trademarks of Sun Microsystems, Inc	. in the United States, other countries	, or both.	
Microsoft, Windows, Windows NT, a	and the Windows logo are registered trader	marks of Microsoft Corporation in the	United States, other countries, or	both.
Intel, ActionMedia, LANDesk, MMX,	Pentium and ProShare are trademarks of	Intel Corporation in the United States	s, other countries, or both.	
UNIX is a registered trademark of T	he Open Group in the United States and o	ther countries.		
Linux is a registered trademark of L	inus Torvalds.			
Other company, product and service	e names may be trademarks or service ma	irks of others.		
Product data has been reviewed for typographical errors. IBM may mak future direction and intent are subje services does not imply that IBM int Product in this document is not inten property rights, may be used insteam	accuracy as of the date of initial publication e improvements and/or changes in the pro- ct to change or withdrawal without notice, a ends to make such products, programs or nded to state or imply that only that program d.	on. Product data is subject to change duct(s) and/or program(s) described 1 and represent goals and objectives or services available in all countries in w m product may be used. Any function	without notice. This document co nerein at any time without notice. Iy. References in this document thich IBM operates or does busine ally equivalent program, that does	uld include technical inaccuracies or Any statements regarding IBM's to IBM products, programs, or ss. Any reference to an IBM Program s not infringe IBM's intellectual
Information is provided "AS IS" with EXPRESS OR IMPLIED. IBM EXP have no responsibility to update this Statement of Limited Warranty, Inte of those products, their published an accuracy of performance, compatibi services.	out warranty of any kind. THE INFORMAT RESSLY DISCLAIMS ANY WARRANTIES information. IBM products are warrantee mational Program License Agreement, etc nouncements or other publicly available s lify or any other claims related to non-IBM	TON PROVIDED IN THIS DOCUMEN OF MERCHANTABILITY, FITNESS i, if at all, according to the terms and d) under which they are provided. Info sources. IBM has not tested those pro products. IBM makes no representat	IT IS DISTRIBUTED "AS IS" WITH FOR A PARTICULAR PURPOSE conditions of the agreements (e.g. rmation concerning non-IBM prod ducts in connection with this publ ions or warranties, express or imp	40UT ANY WARRANTY, EITHER OR NONINFRINGEMENT. IBM shall , IBM Customer Agreement, ucts was obtained from the suppliers ucts on and cannot confirm the lied, regarding non-IBM products and
The provision of the information con licenses should be made, in writing,	tained herein is not intended to, and does to:	not, grant any right or license under a	any IBM patents or copyrights. Inc	uiries regarding patent or copyright
IBM Director of Licensing IBM Corporation North Castle Drive Armonk, NY 10504-1785 U.S.A.				
Performance is based on measuren how those customers have used IBI considerations such as the amount can be given that an individual user	nents and projections using standard IBM I M products and the results they may have of multiprogramming in the user's job strea will achieve throughput or performance im	benchmarks in a controlled environme achieved. The actual throughput or p am, the I/O configuration, the storage provements equivalent to the ratios s	ent. All customer examples descri erformance that any user will exp configuration, and the workload p tated here.	bed are presented as illustrations of erience will vary depending upon ocessed. Therefore, no assurance
© Copyright International Business	Machines Corporation 2006. All rights rese	erved.		
Note to U.S. Government Users - D	ocumentation related to restricted rights-U	se, duplication or disclosure is subject	t to restrictions set forth in GSA AI	OP Schedule Contract and IBM Corp.
	WebSphere Busi	iness Monitor V6 – Configuri	na KPI Views	© 2006 IBM Corpora