BulletChart Control Reference

Compare a KPI with its target and qualitative ranges.

Reference **Controls** **Charts** BulletChart

Available from FrameworX 10.1.6.

The BulletChart (bullet graph) shows one KPI as a bar against a target marker, over 2 to 5 shaded bands that mark poor, satisfactory and good ranges. It is a compact replacement for a gauge on dashboards and KPI tiles, horizontal or vertical.

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Requirements

This component is Portable. It runs both on Windows and on Web Pages hosted on any platform.

Clients: works in the Rich Client and in the web client (HTML5), with the same values and layout on both. Verified on FrameworX 10.1.6.

Configuration

1. Go to **Displays / Draw**.
2. In the Components Panel, select **Charts**, then choose **BulletChart**.
3. Click or drag-and-drop the component into the drawing area.
4. Double-click the object to open the configuration window.

Data Binding

- **LinkedValue**: the KPI value (a number, a tag or an expression).
- **TargetLink**: optional target, drawn as a marker (a number or a tag).
- The scale is static, from **MinValue** to **MaxValue**.

Behavior

- **BandCount** (2 to 5) sets the number of bands; **Band1Limit** to **Band4Limit** set their limits.
- The worst band is the darkest. With **HighIsGood** set to false, the high end of the scale is the worst.
- With **ShadeBands** set to false, each band given its own color (Band1Fill to Band5Fill) is drawn at full strength; bands left on the default color keep the shading.
- A value or target outside the scale stops at the end of the scale, while the value text shows the real number. A missing value draws no bar and shows a dash.

Properties

Property	Description	Default
LinkedValue	The KPI value.	(empty)
TargetLink	Optional target value, drawn as a marker.	(empty)
MinValue	Start of the scale.	0
MaxValue	End of the scale.	100
BandCount	Number of bands, 2 to 5.	3
Band1Limit	Upper limit of band 1.	60
Band2Limit	Upper limit of band 2.	80
Band3Limit	Upper limit of band 3 (BandCount 4 or 5).	90
Band4Limit	Upper limit of band 4 (BandCount 5).	95
ShadeBands	Shade the bands from dark (worst) to light (best).	true
HighIsGood	High values are good. Set to false when low values are good.	true

Vertical	Draw the chart vertically, with the bar growing from the bottom.	false
Label	Optional caption.	(empty)
ShowValueText	Show the value as text.	true
ValueFormat	Format of the value text.	0.##
ShowScale	Show the scale.	true
ScaleDivisions	Number of scale divisions.	4
ScaleFormat	Format of the scale labels.	0.##
LabelFontSize	Font size of the caption and texts.	12
LabelFontFamily	Font family of the caption and texts.	Verdana
Localize	Enable runtime text localization.	false

Colors follow the Display theme by default: each color property has a theme slot. Set an explicit color (#AARRGGBB) only to override the theme. Color properties: **ValueBarFill** (theme accent), **TargetStroke**, **LabelForeground** and **Band1Fill** to **Band5Fill**.

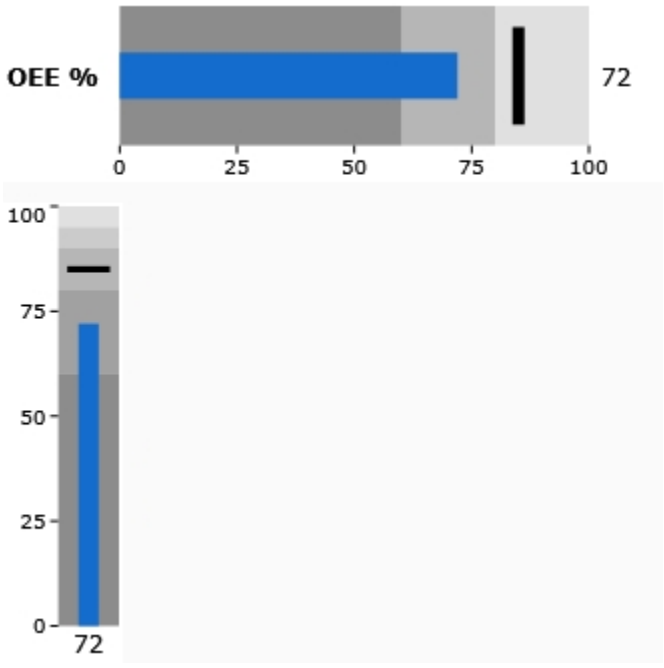
Example

An OEE KPI on a dashboard: **Label** `OEE %`, **LinkedValue** 72 (in a real solution, a tag such as `@Tag.Line1/OEE`), **TargetLink** 85, scale 0 to 100, and the default three bands with limits 60 and 80.

The bar ends at 72, in the middle band; the target marker stands at 85, in the best band; the value text reads 72. The second chart in the image is the same KPI with **Vertical** set to true and **BandCount** 5.

Runtime Execution

At runtime the bar and the target marker move as the bound values change. The image shows a horizontal and a vertical BulletChart in the Rich Client; the web client draws the same charts.



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