Change Log

11/15/2017 v1

Document created

11/22/2017 v2

Added details to all sections

12/04/2017 v3

Updated and added screens and details:

"1.1 Row Selection"

"1.4 Column Freezing"

"1.13.1.2 Hightlight Row - Dark Theme"

"2.7 Support for Predix theming"

"3.3 Multiple Column Sort"

12/06/2017 v4

Updated and added screens and details:

"1.11.3 Drag & drop column reordering"

"1.1.1 Row Selection - Single"

12/XX/2017 v4

Updated and added screens and details:

"1.8 Custom grouping by row or column" on page 27

Changed horizontal separator line to \$gray4:

"2.7.1 Light Theme"

Changed vertical separator line to \$gray4:

"1.4.3 Column Freezing, Step 3 - Frozen Column"

12/12/2017 v5

Changed separation line color specs to match appearance:

"2.7.1 Light Theme"

"1.4.3 Column Freezing, Step 3 - Frozen Column"

Changed position and size details:

"2.4 Inline editing"

Changed colors of selected rows and zebra stripes:

"1.1 Row Selection"

Removed Section 6

12/13/2017 v6

Added Error Handeling for Inline Edit:

"2.4.7 Inline editing - Simple Error"

"2.4.8 Inline editing - Error with Message"

12/13/2017 v7

Changed Select Row Color for Light & Dark Theme:

"1.1 Row Selection"

Added Reordering Column Width:

"3.3.4 Multiple Column Sort - Large Selection 99+" "3.3.5 Multiple Column Sort - None Selected"

Added Dark Theme Specs:

"1.11.3.2 Drag & drop column reordering, Step 3 -Drag - Dark"

12/20/2017 v8

Changed measurment details:

"3.4 Sort Indicators"

Changed colors:

"1.8.2 Custom grouping by row or column, Step 2

"1.17.3 Expandable Row, Light"

"1.17.4 Expandable Row, Dark"

Purpose:

The purpose of this document is to provide Vaadin with details on the GE Digital requirements for estimating purposes. Please note the engagement will be run in Agile fashion with iterative approach to design and development.

Use Case:

As a user, I want to analyze or edit my data in a tabular format in a data-grid, so that I can easily scroll through my data results, sort, filter, hide or include data to understand the data and/or edit the data.

Description:

A data-grid displays data in a tabular format. The data-grid allows the user to scan, analyze, compare, filter, sort, and manipulate information to derive insights and commit actions. Data-Grids structure data in rows and columns, and are particularly useful when you've got lots of information to display. They make it easier for the user to read numeric or text and find specific information.

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1. Data Display & Selection

1.1 ROW SELECTION

1.1.1 Row Selection - Single

1.1.1.1 Row Selection - Single, Default

	LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
\circ	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
\circ	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
\circ	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
\circ	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
\circ	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
\circ	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
\circ	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
\circ	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
\circ	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
\circ	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

Highlight a row of data via a single click in the row or and affordance such as a checkbox or radio button located in the row. Needs to support single row selection as well as multi-row selection. Assume to include all functionality here: https://cdn.vaadin.com/vaadin-grid/3.0.2/demo/selection.html

Note:

We already have the special column for multiple row-selection, add the `singleselect` boolean property to it.

1.1.1.2 Row Selection - Single, Selected

	LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
0	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
•	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepres sure	——fill: \$select-default ——font: \$white
\circ	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
\circ	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
\circ	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
\circ	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
\circ	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
\circ	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
0	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
\circ	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

1.1.2 Row Selection - Multiple

1.1.2.1 Row Selection - Multiple- Light

(2)	LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	— \$gray5
	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

Highlight a row of data via a single click in the row or and affordance such as a checkbox or radio button located in the row. Needs to support single row selection as well as multi-row selection. Assume to include all functionality here: https://cdn.vaadin.com/vaadin-grid/3.0.2/demo/selection.html

Note:

We already have the special column for multiple row-selection, add the `singleselect` boolean property to it.

1.1.2.2 Row Selection - Multiple - Dark

					Actions 🗸	_
(2)			POINT			
•	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
☑	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure —	- \$gray13
•	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
•	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
•	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
☑	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
•	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
•	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
•	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

1.1.3 Row Selection - Plain Zebra Striping

1.1.3.1 Row Selection - Plain Zebra Striping - Light

(3) LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio —	\$gray3
	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure —	
	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio —	
	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure —	
	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio —	
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

1.1.3.2 Row Selection - Plain Zebra Striping - Dark

□ (2) LAST OCCURANCE ↓ ASSET PATH POINT UNITS METER □ 2014-02-17, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-compression ratio □ 2014-02-18, 19:33:51 /Unit1/HRSG/ 39VS11 m/s crank-frame-discharge pressure □ 2014-02-19, 19:33:51 /Unit1/HRSG/ 39VS11 m/s crank-frame-velocity □ 2014-02-21, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-compression ratio □ 2014-02-22, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-discharge pressure □ 2014-02-23, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-velocity □ 2014-02-24, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-compression ratio □ 2014-02-25, 19:33:51 /Unit1/HRSG/ 39VS11 m/s crank-frame-compression ratio □ 2014-02-26, 19:33:51 /Unit1/HRSG/ 39VS11 m/s crank-frame-discharge pressure						Actions 🗸	-
2014-02-18, 19:33:51	(2)			POINT			
2014-02-19, 19:33:51 /Unit1/HRSG/ 39VS11 m/s crank-frame-suctionpressure — Sgray15 2014-02-20, 19:33:51 /Unit1/HRSG/ 39VS11 m/s crank-frame-velocity 2014-02-21, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-dischargepressure 2014-02-22, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-suctionpressure 2014-02-24, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-velocity 2014-02-25, 19:33:51 /Unit1/HRSG/ 39VS11 m/s crank-frame-compression ratio	•	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-20, 19:33:51 /Unit1/HRSG/ 39VS11 m/s crank-frame-velocity 2014-02-21, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-compression ratio 2014-02-22, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-discharge pressure 2014-02-23, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-suction pressure 2014-02-24, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-velocity 2014-02-25, 19:33:51 /Unit1/HRSG/ 39VS11 m/s crank-frame-compression ratio	•	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
■ 2014-02-21, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-compression ratio ■ 2014-02-22, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-discharge pressure ■ 2014-02-23, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-suction pressure ■ 2014-02-24, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-velocity ■ 2014-02-25, 19:33:51 /Unit1/HRSG/ 39VS11 m/s crank-frame-compression ratio	•	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure —	– \$gray15
2014-02-22, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-dischargepressure 2014-02-23, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-suctionpressure 2014-02-24, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-velocity 2014-02-25, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-compressionratio	-	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-23, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-suctionpressure 2014-02-24, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-velocity 2014-02-25, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-compressionratio	•	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
□ 2014-02-24, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-velocity □ 2014-02-25, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-compression ratio	-	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-25, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-compressionratio	•	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
		2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-26, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-dischargepressure		2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
	-	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

1.1.4 Row Selection - With Zebra Striping

1.1.4.1 Row Selection - With Zebra Striping - Light

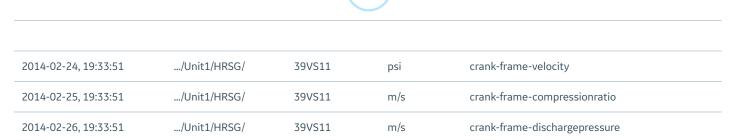
(2)	LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio — \$gray3
~	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure \$gray5
	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

1.1.4.2 Row Selection - With Zebra Striping - Dark

					Actions 🗸
(2)			POINT		
•	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
~	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
•	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure —
•	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
•	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
☑	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
•	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

1.2 INFINITE SCROLLING/LAZY LOADING

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure



px-spinner, 100% Add: 2px stroke inside & outside

When the user scrolls to end of list, the component grabs the next x set of results. UI displays px-spinner as bottom row of table while the next batch of results loads. Amount of rows to load should be a variable configurable by the app developer.

Note: Implemented, `iron-list` is under the hood

1.3 RETAIN SELECTION ON GETTING FOCUS

Existing functionality in the Vaadin data table

1.4 COLUMN FREEZING

1.4.1 Column Freezing, Step 1 - Hover

\$se	lect-	hove

: LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

Data Display & Selection

Ability to pin a column to allow for horizontal scrolling for tables with many columns. Right click on the column header, contextual menu is displayed with the option to pin or unpin the column. Pinned columns stay their current order in the list. Users can pin as many columns as they would like.

https://cdn.vaadin.com/vaadin-grid/3.0.2/demo/columns.html#freezing-columns

1.4.2 Column Freezing, Step 2 - Menu Selection

\$select-pressed

5 :LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
Freeze Column Hide Column	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

1.4.3 Column Freezing, Step 3 - Frozen Column

\$select-default	\$gray4			
LAST OCCURANCE ↓	T PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	nit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	nit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	nit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	nit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	nit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	nit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	nit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	nit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	nit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	nit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

1.4.4 Column Freezing, Column moves to the left - Step 1

1. User clicks the header of the "Units" column and selects "Freeze Column"

(0)	LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	Freeze Column	ame-compressionratio
	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	cranк-trame-dischargepressure
	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

1.4.5 Column Freezing, Column moves to the left - Step 2

The frozen column jumps to the left. Note how the column with check boxes is always frozen and remains in place in column 1.

(0)	UNITS	CCURANCE ↓	ASSET PATH	POINT	METER
	psi	-02-17, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-compressionratio
	psi	-02-18, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-dischargepressure
	m/s	-02-19, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-suctionpressure
	m/s	-02-20, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-velocity
	psi	-02-21, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-compressionratio
	psi	-02-22, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-dischargepressure
	psi	-02-23, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-suctionpressure
	psi	-02-24, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-velocity
	m/s	-02-25, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-compressionratio
	m/s	-02-26, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-dischargepressure

1.4.6 Column Freezing, Column moves to the left - Step 3

Once any column is frozen, a new option appears that allows the user to "Unfreeze all columns".

(0)	UNITS	CCURANCE ↓	ASSET PATH	POINT	METER
	psi	02-17, 19:33:51	/Unit1/HRSG/	Freeze Column	-frame-compressionratio
				Hide Column	
	psi	02-18, 19:33:51	/Unit1/HRSG/	Unfreeze All	·frame-dischargepressure
	m/s	-02-19, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-suctionpressure
	m/s	-02-20, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-velocity
	psi	-02-21, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-compressionratio
	psi	02-22, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-dischargepressure
	psi	02-23, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-suctionpressure
	psi	-02-24, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-velocity
	m/s	-02-25, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-compressionratio
	m/s	-02-26, 19:33:51	/Unit1/HRSG/	39VS11	crank-frame-dischargepressure

1.5 AUTO RESIZING ROW

Existing functionality in the Vaadin data table

Data Display & Selection

1.6 DIFFERENT ROW SIZING (ROWS OF VARYING HEIGHT)

LAST OCCURANCE	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG	39VS11	psi	crank-frame-dischargepressure- lorem-ipsum dolor sit ahmet dolor sit ahmet lorem
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/ 1236/4562/222 1/Unit1/H	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG	39VS11	m/s	crank-frame-dischargepressure

Row height is determined by the height of its cell contents.

Existing functionality in the Vaadin data table

→ align text to the top of the row

1.7 AUTO WRAP TEXT

LAST OCCURANCE	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG	39VS11	psi	crank-frame-dischargepressure- lorem-ipsum dolor sit ahmet dolor sit ahmet lorem
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG	39VS11	m/s	crank-frame-dischargepressure

 Auto wrap text strings to fit column width.

Auto wrap text strings to fit column width.

NOTE: There should be the ability in the back-end to allow the application to customize a column to override this ability to not allow the text to auto wrap.

Existing functionality in the Vaadin data table

1.8 CUSTOM GROUPING BY ROW OR COLUMN

1.8.1 Custom grouping by row or column, Step 1

Actions ∨	
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https://cdn.vaadin.com/vaadin-grid/3.0.2/demo/columns.html#column-grouping

LAST OCCURANCE	ASSET PATH	POINT	UNITS	: METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	Freeze Column onratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	Show Column pressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	Group By Column ssure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

Existing functionality in the Vaadin data table

Data Display & Selection

1.8.2 Custom grouping by row or column, Step 2



> crank-frame-velocity

1.8.3 Custom grouping by row or column, Step 3

Actions ∨

LAST OCCURANCE	ASSET PATH	POINT	UNITS
	atio		
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s
> crank-frame-dischargepres	ssure		
> crank-frame-suctionpressu	ıre		

1.8.4 Custom grouping by row or column, Step 4

				Actions ∨	
LAST OCCURANCE	ASSET PATH	POINT	UNITS	Clear Grouping	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi		
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi		
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s		
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s		
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi		
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi		
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi		
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi		
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s		
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s		
> crank-frame-dischargepressure					
> crank-frame-suctionpressure					
> crank-frame-velocity					

1.8.5 Custom grouping by row or column, Step 5

Actions ∨

LAST OCCURANCE	ASSET PATH	POINT	UNITS	: METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

1.9 AUTO RESIZING COLUMN

1.10 COLUMN HIDING

1.10.1 Column hiding, Step 1 - Default

https://cdn.vaadin.com/vaadin-grid/3.0.2/demo/columns.html#hiding-columns

LAST OCCURANCE	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

1.10.2 Column hiding, Step 2 - Menu Selection

Actions ∨

LAST OCCURANCE	ASSET PATH	: POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	Hide Column	k	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

1.10.3 Column hiding, Step 3 - Hidden Column

Actions ∨

LAST OCCURANCE ↓	ASSET PATH	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-dischargepressure

1.10.4 Column hiding, Step 4 - Open Menu

				Actions ~
LAST OCCURANCE ↓	ASSET PATH	UNITS	METER	✓ Last Occurance
2014-02-17, 19:33:51	/Unit1/HRSG/	psi	crank-frame-compressionratio	✓ Asset Path
2014-02-18, 19:33:51	/Unit1/HRSG/	psi	crank-frame-dischargepressure	Poin
2014-02-19, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-suctionpressure	✓ Units ✓ Meter
,		·	· · · · · · · · · · · · · · · · · · ·	V Meter
2014-02-20, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/	psi	crank-frame-compressionratio	
2014-02-22, 19:33:51	/Unit1/HRSG/	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-dischargepressure	

1.10.5 Column hiding, Step 5 - Column Shows

					Actions ∨
LAST OCCURANCE	ASSET PATH	: POINT	UNITS	METER	✓ Last Occurance
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	✓ Asset Path
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	✓ Poin ✓ Units
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	✓ Meter
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

1.11 DRAG & DROP COLUMN REORDERING

1.11.1 Drag & drop column reordering, Step 1 Hover

\$select-hover							
LAST OCCURANCE ↓ ASSET PATH UNITS METER							
2014-02-17, 19:33:51	/Unit1/HRSG/	psi	crank-frame-compressionratio				
2014-02-18, 19:33:51	/Unit1/HRSG/	psi	crank-frame-dischargepressure				
2014-02-19, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-suctionpressure				
2014-02-20, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-velocity				
2014-02-21, 19:33:51	/Unit1/HRSG/	psi	crank-frame-compressionratio				
2014-02-22, 19:33:51	/Unit1/HRSG/	psi	crank-frame-dischargepressure				
2014-02-23, 19:33:51	/Unit1/HRSG/	psi	crank-frame-suctionpressure				
2014-02-24, 19:33:51	/Unit1/HRSG/	psi	crank-frame-velocity				
2014-02-25, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-compressionratio				
2014-02-26, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-dischargepressure				

Click and hold on column header, drag to reorder columns.

https://cdn.vaadin.com/vaadin-grid/3.0.2/demo/columns.

html#reordering-and-resizing-columns

1.11.2 Drag & drop column reordering, Step 2 - Drag a few pixels

ASSET PATH	UNITS	METER
/Unit1/HRSG/	psi	crank-frame-compressionratio
/Unit1/HRSG/	psi	crank-frame-dischargepressure
/Unit1/HRSG/	m/s	crank-frame-suctionpressure
/Unit1/HRSG/	m/s	crank-frame-velocity
/Unit1/HRSG/	psi	crank-frame-compressionratio
/Unit1/HRSG/	psi	crank-frame-dischargepressure
/Unit1/HRSG/	psi	crank-frame-suctionpressure
/Unit1/HRSG/	psi	crank-frame-velocity
/Unit1/HRSG/	m/s	crank-frame-compressionratio
/Unit1/HRSG/	m/s	crank-frame-dischargepressure
	/Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG/	/Unit1/HRSG/ psi/Unit1/HRSG/ psi/Unit1/HRSG/ m/s/Unit1/HRSG/ psi/Unit1/HRSG/ psi/Unit1/HRSG/ psi/Unit1/HRSG/ psi/Unit1/HRSG/ psi/Unit1/HRSG/ psi

— 35 px height

Fill: \$white Opacity: 65%

Outline: 1px, \$select-pressed Header: \$select-pressed

Shadow: <div class="demo shadow-modal">Level 12:

Modal State</div>

1.11.3 Drag & drop column reordering1.11.3.1 Drag & drop column reordering, Step 3 - Drag - Light

LAST OCCURANCE ↓	UNITS	ASSET PATH	METER	
2014-02-17, 19:33:51	psi	/Unit1/HRSG/	crank-frame-compressionratio	
2014-02-18, 19:33:51	psi	/Unit1/HRSG/	crank-frame-dischargepressure	\$
2014-02-19, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-suctionpressure	
2014-02-20, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-velocity	
2014-02-21, 19:33:51	psi	/Unit1/HRSG/	crank-frame-compressionratio	
2014-02-22, 19:33:51	psi	/Unit1/HRSG/	crank-frame-dischargepressure	
2014-02-23, 19:33:51	psi	/Unit1/HRSG/	crank-frame-suctionpressure	
2014-02-24, 19:33:51	psi	/Unit1/HRSG/	crank-frame-velocity	
2014-02-25, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-compressionratio	
2014-02-26, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-dischargepressure	

Receiving area highlights in \$select-light

40 of 103

1.11.3.2 Drag & drop column reordering, Step 3 - Drag - Dark

LAST OCCURANCE ↓	UNITS	ASSET PATH	METER	- 35 px height
2014-02-17, 19:33:51	psi	/Unit1/HRSG/	crank-frame-compressionratio	Fill: \$gray19
2014-02-18, 19:33:51	psi	/Unit1/HRSG/	crank-frame-dischargepressure	Opacity: 65% Outline: 1px, \$select-default Header: \$select-light
2014-02-19, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-suctionpressure	Shadow: <div class="demo</td></tr><tr><td>2014-02-20, 19:33:51</td><td>m/s</td><td>/Unit1/HRSG/</td><td>crank-frame-velocity</td><td>shadow-modal">Level 12: Modal State</div>
2014-02-21, 19:33:51	psi	/Unit1/HRSG/	crank-frame-compressionratio	
2014-02-22, 19:33:51	psi	/Unit1/HRSG/	crank-frame-dischargepressure	— Receiving area highlights in
2014-02-23, 19:33:51	psi	/Unit1/HRSG/	crank-frame-suctionpressure	\$select-hover
2014-02-24, 19:33:51	psi	/Unit1/HRSG/	crank-frame-velocity	
2014-02-25, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-compressionratio	
2014-02-26, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-dischargepressure	
https://go.plostr.co		PLHOU		

1.11.4 Drag & drop column reordering, Step 4 - Dropped

LAST OCCURANCE ↓	UNITS	ASSET PATH	METER
2014-02-17, 19:33:51	psi	/Unit1/HRSG/	crank-frame-compressionratio
2014-02-18, 19:33:51	psi	/Unit1/HRSG/	crank-frame-dischargepressure
2014-02-19, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-suctionpressure
2014-02-20, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-velocity
2014-02-21, 19:33:51	psi	/Unit1/HRSG/	crank-frame-compressionratio
2014-02-22, 19:33:51	psi	/Unit1/HRSG/	crank-frame-dischargepressure
2014-02-23, 19:33:51	psi	/Unit1/HRSG/	crank-frame-suctionpressure
2014-02-24, 19:33:51	psi	/Unit1/HRSG/	crank-frame-velocity
2014-02-25, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-compressionratio
2014-02-26, 19:33:51	m/s	/Unit1/HRSG/	crank-frame-dischargepressure

Data Display & Selection

1.12 PAGINATION WITH USER CONFIGURABLE ROWS IN EACH PAGE

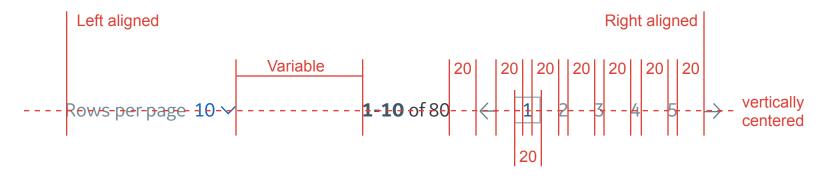
1.12.1 Pagination - Table

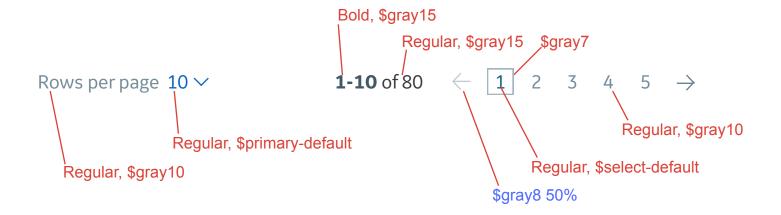
LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure
Rows per page 10 ∨				1-10 of 80 ← 1 2 3 4 5 →

UI for page numbers, next page, prev page, total number of pages

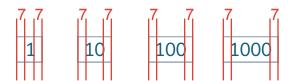
1.12.2 Pagination, Redlines

1.12.2.1 Pagination, Redlines - Light Theme

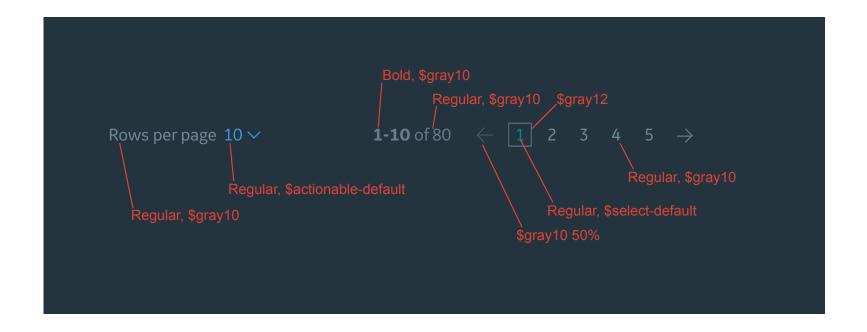




Multiple digits



1.12.2.2 Pagination, Redlines - Dark Theme



1.12.3 Pagination - Behavior

1.12 PAGINATION - BEHAVIOR

Principle explained with a simple case:

Rows per page 10 \vee 1-10 of 10 \leftarrow 1 \rightarrow hide pagination when the table has only10 items or less

Rows per page 10 \checkmark 1-10 of 30 \leftarrow 1 2 3 \rightarrow

Rows per page 10 \vee 1-10 of 30 \leftarrow 1 $\boxed{2}$ 3 \rightarrow

Rows per page 10 \vee 1-10 of 30 \leftarrow 1 2 $\boxed{3}$ \rightarrow

Less then 100 / maximum pages:

Rows per page 10 \vee 11-20 of 85 \leftarrow 1 2 3 4 5 \Rightarrow

Dynamic truncation in the beginning and the middle:

Rows per page 10 \vee 11-20 of 1800 \leftarrow 1 $\boxed{2}$ 3 ... 180 \Rightarrow

Rows per page 10 \vee 61-70 of 1800 \leftarrow 1 ... 5 $\boxed{6}$ 7 ... 180 \rightarrow

Rows per page 10 \vee 560-570 of 1800 \leftarrow 1 ... 56 $\boxed{57}$ 58 ... 180 \rightarrow

Dynamic truncation at the end:

Rows per page 10 \vee 1780-1790 of 1800 \leftarrow 1 ... 176 177 178 ... 180 \rightarrow

Rows per page 10 \vee 1790-1800 of 1800 \leftarrow 1 ... 178 179 180 \rightarrow

1.13 ABILITY TO HIGHLIGHT A ROW OR COLUMN

1.13.1 Hightlight Row

1.13.1.1 Hightlight Row - Light Theme

LAST OCCURANCE ↓	ASSET PATH	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	psi	crank-frame-compressionratio	_
2014-02-18, 19:33:51	/Unit1/HRSG/	psi	crank-frame-dischargepressure	-
2014-02-19, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-suctionpressure	-
2014-02-20, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-velocity	_
2014-02-21, 19:33:51	/Unit1/HRSG/	psi	crank-frame-compressionratio	\$status-yellow2
2014-02-22, 19:33:51	/Unit1/HRSG/	psi	crank-frame-dischargepressure	_
2014-02-23, 19:33:51	/Unit1/HRSG/	psi	crank-frame-suctionpressure	\$status-red2
2014-02-24, 19:33:51	/Unit1/HRSG/	psi	crank-frame-velocity	_
2014-02-25, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-dischargepressure	

API, UI and CSS variables for highlighting columns needed

We differentiate between Selection and Highlight. Selection is when the user selects a cell or a row to interact with it. Highlighting happens for example when a value exceeds a certain limit.

1.13.1.2 Hightlight Row - Dark Theme

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS		
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi –	crank-frame-compressionratio	\$status-yellow4
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure —	\$status-red4
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

1.13.2 Highlight Column

ASSET PATH	UNITS	METER
/Unit1/HRSG/	psi	crank-frame-compressionratio
/Unit1/HRSG/	psi	crank-frame-dischargepressure
/Unit1/HRSG/	m/s	crank-frame-suctionpressure
/Unit1/HRSG/	m/s	crank-frame-velocity
/Unit1/HRSG/	psi	crank-frame-compressionratio
/Unit1/HRSG/	psi	crank-frame-dischargepressure
/Unit1/HRSG/	psi	crank-frame-suctionpressure
/Unit1/HRSG/	psi	crank-frame-velocity
/Unit1/HRSG/	m/s	crank-frame-compressionratio
/Unit1/HRSG/	m/s	crank-frame-dischargepressure
	/Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG//Unit1/HRSG/	/Unit1/HRSG/ psi /Unit1/HRSG/ psi /Unit1/HRSG/ m/s /Unit1/HRSG/ psi /Unit1/HRSG/ psi /Unit1/HRSG/ psi /Unit1/HRSG/ psi /Unit1/HRSG/ psi /Unit1/HRSG/ psi

1.13.3 Highlight both

LAST OCCURANCE ↓	ASSET PATH	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	m/s	crank-frame-dischargepressure

1.14 API: SAVE & RESTORE LAYOUT (USER PREFERENCES)

RU: Make it as an application first to support user preferences

1.15 API: RESET TO DEFAULT LAYOUT

1.16 FIXED HEADER

1.16.1 Fixed Header - Fixed

LAST OCCURANCE	ASSET PATH	POINT	UNITS	METER	fixed header
2014-02-17, 19.33.31	/OHILL/HK3G/	234211	þsi	crank-tranie-compressionratio	
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

1.16.2 Fixed Header - Non Fixed

LAST OCCURANCE	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

1.17 EXPANDABLE TABLE ROW

1.17.1 Expandable Row, Step 1

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
> 2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
> 2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
> 2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
> 2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
> 2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
> 2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
> 2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
> 2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
> 2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
> 2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

Existing functionality in the Vaadin data table

Click on a row affordance, display area below the row with additional information. Should be flexible enough to display any component (such as a chart or a graph) inside the expanded area.

HVS: Is "HTML Container" the right term?

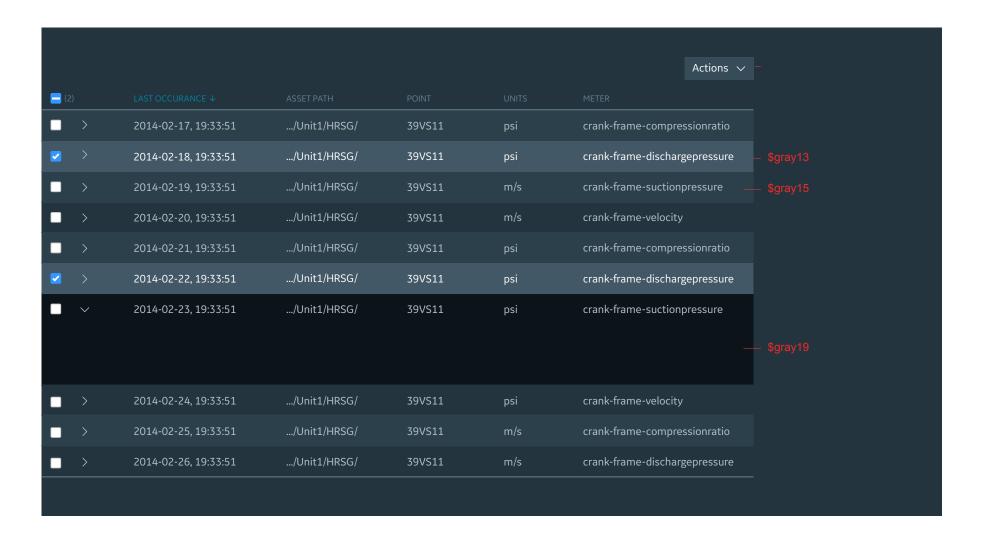
1.17.2 Expandable Row, Step 2

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	_
> 2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	_
> 2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	_
> 2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	-
> 2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	-
× 2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	— \$gray7
		Contai	inar		— Allow for a container
		Contai	IIICI		when open
		Conta			
> 2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
> 2014-02-22, 19:33:51 > 2014-02-23, 19:33:51	/Unit1/HRSG/			crank-frame-dischargepressure crank-frame-suctionpressure	
· · · · · · · · · · · · · · · · · · ·		39VS11	psi		
> 2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11 39VS11	psi psi	crank-frame-suctionpressure	
> 2014-02-23, 19:33:51 > 2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11 39VS11 39VS11	psi psi psi	crank-frame-suctionpressure crank-frame-velocity	

1.17.3 Expandable Row, Light

(2)	LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	— \$gray3
	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	— \$gray5
	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
~	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
					_	— \$gray7
	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	,5 - ,
	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

1.17.4 Expandable Row, Dark



1.18 API: HOVER ACTION

Ability to have hover over action to display more information on a cell in grid

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	Tooltip /	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/H R SG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

px-tooltip, light theme (use dark for dark theme)

1.19 MICROCHART IN A CELL

1.19.1 Spark Bar Chart

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER		
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	- للىن	— Allow for a microchart
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	than	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	للتت	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	thu	
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	للتت	
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	than	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	aalt	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	thu	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	aalt	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	thu	

Ability to display a small thumbnail chart or microchart in a cell in grid

Display a small thumbnail version of a chart or microchart in a cell to show information relevant to that row of the grid. e.g. a bar chart or line chart could be shown. On hover state, more information on that chart could be displayed or the enlarged chart could be displayed. See an example below.



2. Styling & Rendering

2.1 CUSTOM VALIDATORS

All default data types should be supported

Might need clarification

DN, ??: Boolean in cell, how to represent?
Boolean we don't want to say true or false
Randy: we have the devs validate their own data
AN: GE to show how Boolean would be shown
Consider having a checkbox?
AN: Follow up with Randy - is it just an API thing?

2.2 KEYBOARD NAVIGATION

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	VS11	n/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	si	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	33.00		crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

Existing functionality in the Vaadin data table

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(Tabbing seems to not work properly in the current Vaadin table demo)

2.3 ADD/DELETE ROW

2.3.1 Add/delete row - Hover

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

24px x 22px, \$primary-default

2.3.2 Add/delete row - Click

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	\$primary-pressed
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressi Delete Row	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

2.4 INLINE EDITING

2.4.1 Inline editing, Step 1 - Default State

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	Empty gutter for Row Actions
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

2.4.2 Inline editing, Step 2 - Hover

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER					
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio					
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure					
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure					
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity		10	16 j	10 16	10
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	•			0 0	
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure					
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure					
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity					
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio					
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure					

\$primary-default

2.4.3 Inline editing, Step 3 - Click

Data Grid Specifications | Table of Contents >

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

\$primary-pressed

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2.4.4 Inline editing, Step 4 - Before Edit

					\$primary-default
	\$primary-defau	ult -		\$gray10	\$gray5
	\$select-light			\$gray3	
LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	10, 16 ,10, 16 ,10,
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi v	crank-frame-compressionratio	\otimes
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

2.4.5 Inline editing, Step 5 - After Edit

					\$primary-default
LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/22	39VS11	psi v	crank-frame-compressionratio	$\otimes \oslash$
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	
·					

2.4.6 Inline editing, Step 6 - Saved

Confirmation Message needed?

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/22	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

2.4.7 Inline editing - Simple Error

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	cran Only Letters are allowed.
2014-02-21, 19:33:51	/Unit1/HRSG/22	39VS11	psi v	123
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

2.5 CONDITIONAL EDITABLE CELLS

Editable cells on hover: The text turns \$primary-default. A pencil Icon appears. The cursor changes.

API should be designed and implemented





Text in non-editable cells doesn't change color on hover. The cursor remains the same.

39V:1

2.6 API: ADDING NOTE/COMMENT

UI: vaadin-context-menu? + vaadindialog? for adding notes

2.7 SUPPORT FOR PREDIX THEMING

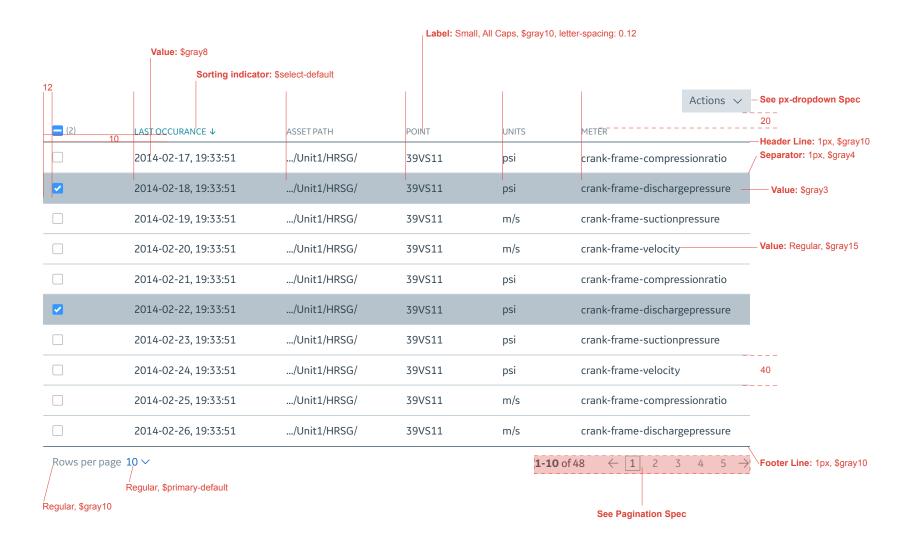
2.7.1 Light Theme

2.7.1.1 Light Theme - Without Redlines

Actions \(\times

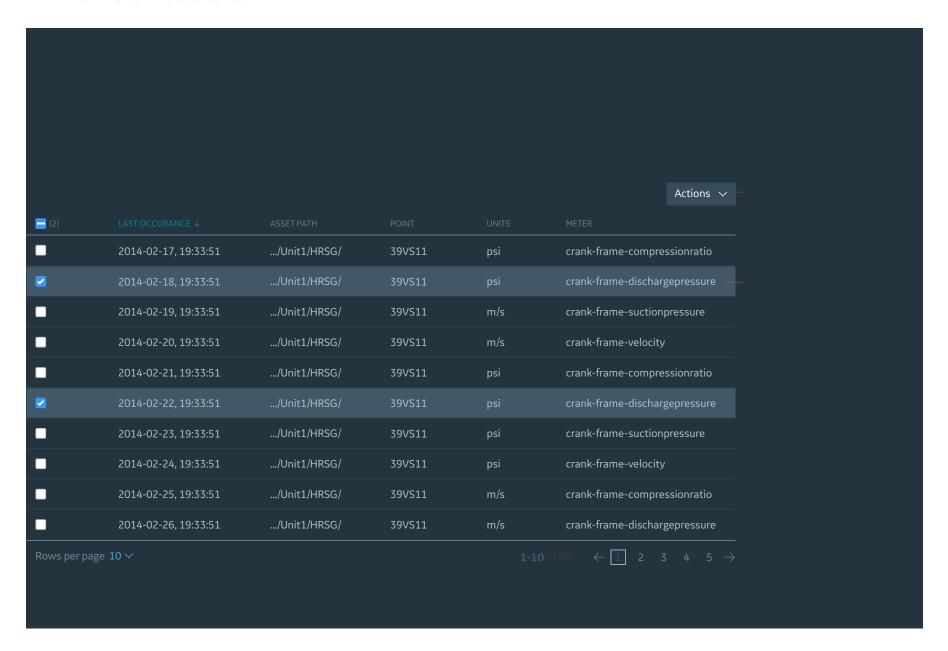
(2)	LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
~	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
~	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure
Rows per pag	of 48 \leftarrow 1 2 3 4 5 \rightarrow				

2.7.1.2 Light Theme - With Redlines



2.7.2 Dark Theme

2.7.2.1 Dark Theme - Without Redlines



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2.7.2.2 Dark Theme - With Redlines





3. Search

3.1 SORTING (CLIENT SIDE)

3.1.1 Simple Sorting Indicator

Chronologically

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	

Extend vaadin-grid-sorter to px-datagrid-sorter

Reverse Chronologically

LAST OCCURANCE ↑	ASSET PATH	POINT	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	

3.2 SINGLE COLUMN SORT

3.2.1 Single Column Sorting

2014-02-17, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-compression	ratio
	iiatio
✓ 2014-02-18, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-dischargepro	essure
☐ 2014-02-19, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-suctionpress	ure
☐ 2014-02-20, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-velocity	
☐ 2014-02-21, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-compression	ıratio
☐ 2014-02-22, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-dischargepro	essure
☐ 2014-02-23, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-suctionpress	ure
O14-02-24, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-velocity	
☐ 2014-02-25, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-compression	ıratio
☐ 2014-02-26, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-dischargepro	essure

The part of extended px-data-grid-sorter. Part of "px-data-table compatibility"

Existing functionality in the Vaadin data table

3.3 MULTIPLE COLUMN SORT

3.3.1 Multiple Column Sort - Checkbox Column - 1

(2)	LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
~	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
~	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

The part of extended px-data-grid-sorter. Part of "px-data-table compatibility"

Existing functionality in the Vaadin data table

Search

3.3.2 Multiple Column Sort - Checkbox Column - 2

	LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
~	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

3.3.3 Multiple Column Sort - Checkbox Column - 3

— (2)↑2	LAST OCCURANCE ↑1	ASSET PATH	POINT	UNITS	METER
~	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
~	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

3.3.4 Multiple Column Sort - Large Selection 99+

(99+) ↑2	LAST OCCURANCE ↑1	ASSET PATH	POINT	UNITS	METER
~	2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
~	2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
	2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
✓	2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
	2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
	2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
✓	2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
~	2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
~	2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
~	2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

3.3.5 Multiple Column Sort - None Selected

LAST OCCURANCE ↑ ASSET PATH POINT UNITS METER 2014-02-17, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-compressi	
2014-02-17, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-compressi	
☐ 2014-02-18, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-discharge	ressure
2014-02-19, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-suctionpre	essure
☐ 2014-02-20, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-velocity	
☐ 2014-02-21, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-compressi	onratio
2014-02-22, 19:33:51 /Unit1/HRSG/ 39VS11 psi crank-frame-discharge	oressure
	essure
☐ 2014-02-24, 19:33:51/Unit1/HRSG/ 39VS11 psi crank-frame-velocity	
☐ 2014-02-25, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-compressi	onratio
☐ 2014-02-26, 19:33:51/Unit1/HRSG/ 39VS11 m/s crank-frame-discharge	oressure

3.4 SORT INDICATORS

3.4.1 Basic Sort Indicators

Add support for px- themes

Existing functionality in the Vaadin data table

LAST OCCURANCE 11	ASSET PATH	POINT ↓2	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio

px-nav:up, height: 8px

px-nav:down, height: 8px

LAST OCCURANCE 11	ASSET PATH	POINT 42	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	

3.5 SERVER SIDE SORT

No changes needed if we will use our data provider API

Existing functionality in the Vaadin data table

Filtering should be available via an API as well so teams can customize the UI using other components.



4. Filtering

4.1 AUTO FILTERING

4.1.1 Auto filtering - Entire Table

Filte



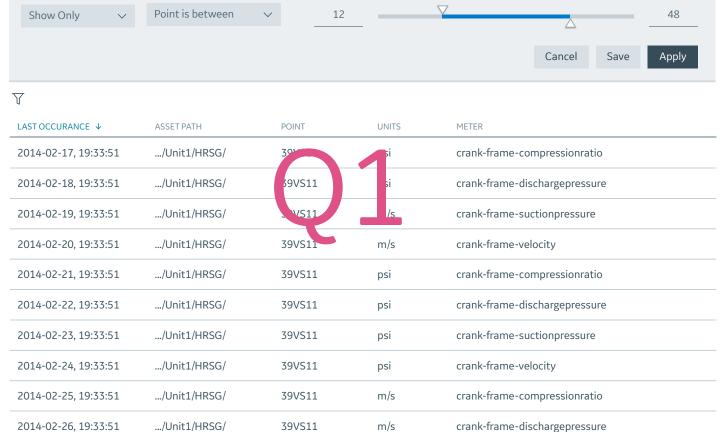
40px

LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure

Basic filtering for plain strings

Existing functionality in the Vaadin data table

4.2 NUMERIC RANGE FILTERING



Filtering UI needs to be designed and implemented, `px-slider` could be utilized

"Give me everything over 12% and below 48%"

4.3 DATE/TIME RANGE FILTERING



Depends on "Numeric range filtering", `px-rangepicker` could be utilized



LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS	Dri	crank-frame-compressionratio	
2014-02-18, 19:33:51	/Unit1/HRSG/	39 511	psi	crank-frame-dischargepressure	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS.		crank-frame-suctionpressure	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

4.4 PATTERN FILTERING

4.4.1 Pattern filtering, Step 1 - Default

Y					
LAST OCCURANCE ↓	ASSET PATH	POINT	UNITS	METER	
2014-02-17, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-18, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-19, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-suctionpressure	
2014-02-20, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-velocity	
2014-02-21, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-compressionratio	
2014-02-22, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-dischargepressure	
2014-02-23, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-suctionpressure	
2014-02-24, 19:33:51	/Unit1/HRSG/	39VS11	psi	crank-frame-velocity	
2014-02-25, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-compressionratio	
2014-02-26, 19:33:51	/Unit1/HRSG/	39VS11	m/s	crank-frame-dischargepressure	

— 16 px height

Default: \$gray15

Hover: \$primary-default
Pressed: \$primary-pressed

With Filters:

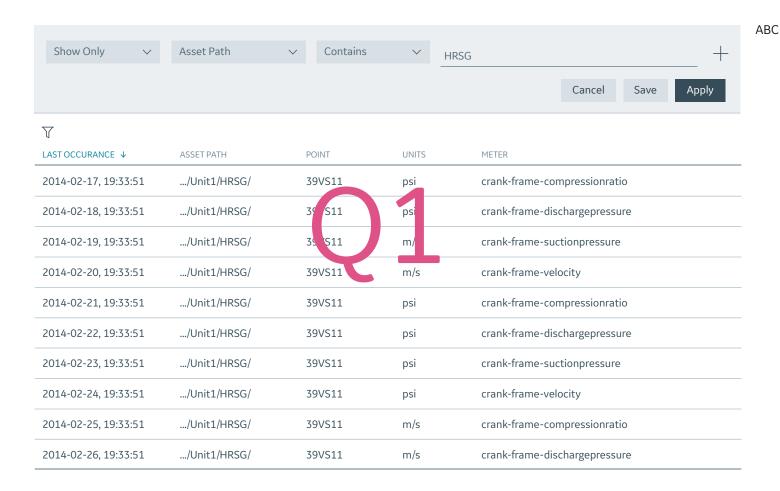
\$select-default (placeholder)

Display Rules	Column Label	Conditions	Value
Show only Hide Highlight	"Asset ID" or "Location" or "Color"	Equals Larger then Equals or larger then Smaller Equals or smaller then Starts with Ends with Contains Does not contain	Like "Truck 15", "San Francisco" or "Red"

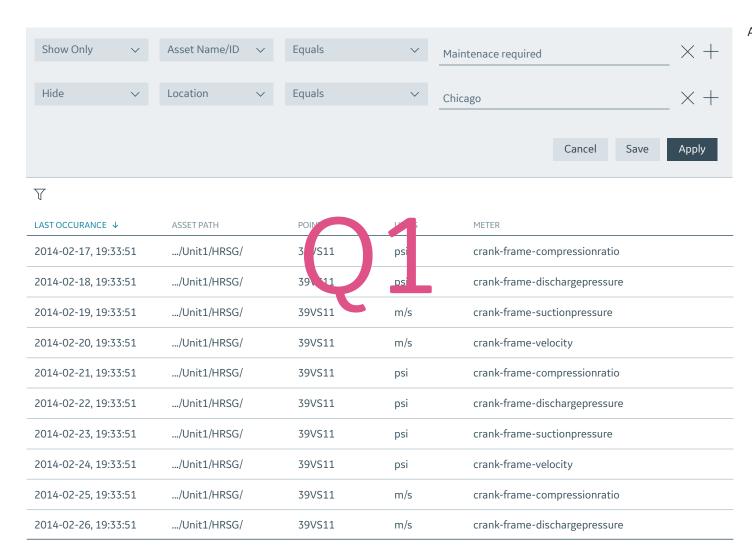
(equals/contains/starts with/wildcard)

No changes needed if we will use our data provider API

4.4.2 Pattern filtering, Step 2 - Simple Filter

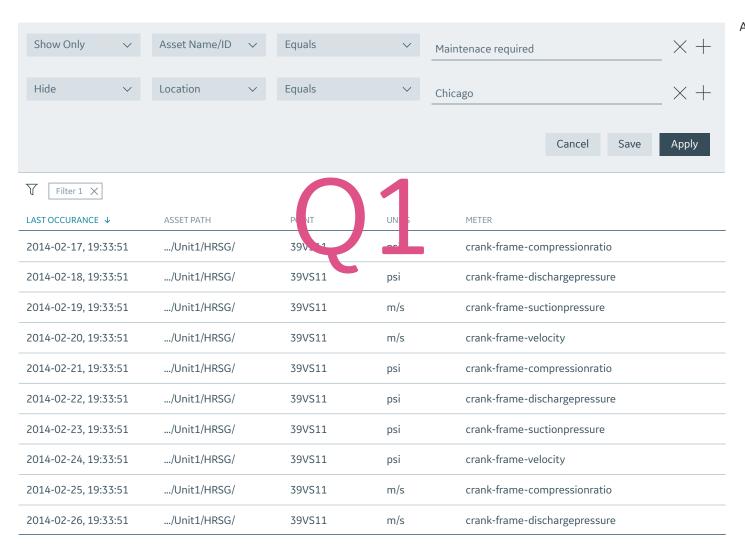


4.4.3 Pattern filtering, Step 3 - Two Rows



ABC

4.4.4 Pattern filtering, Step4 - Saved Filter



ABC

4.5 API: SERVER SIDE FILTER

No changes needed if we will use our data provider API

Existing functionality in the Vaadin data table

4.6 ABILITY TO ACCEPT GLOBAL FILTER CONDITIONS

New API, not sure if UI is needed



5. Printing & Exporting

5.1 API: RAW VALUE EXPORT

In case of remote data-provider we need to fetch all pages before exporting

5.2 API: ABILITY TO EXPORT ONLY THE DISPLAYED/FILTERED DATA

Depends on "Raw Value Export"

5.3 API: EXPORT TO XLSX

Depends on "Raw Value Export" https://github.com/SheetJS/js-xlsx

5.4 API: EXPORT TO CSV

Depends on "Raw Value Export"