Historian User Guide

Written By: Alejandro Pagán Albertos

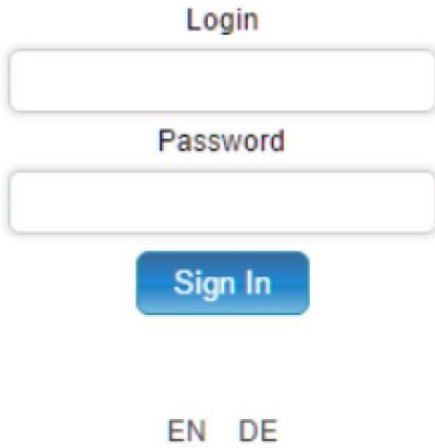This document was generated on 2022-05-17 08:43:04 PM (MST).

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INTRODUCTION

This is depreciated version of the guide - please refer to latest version [HERE](#)

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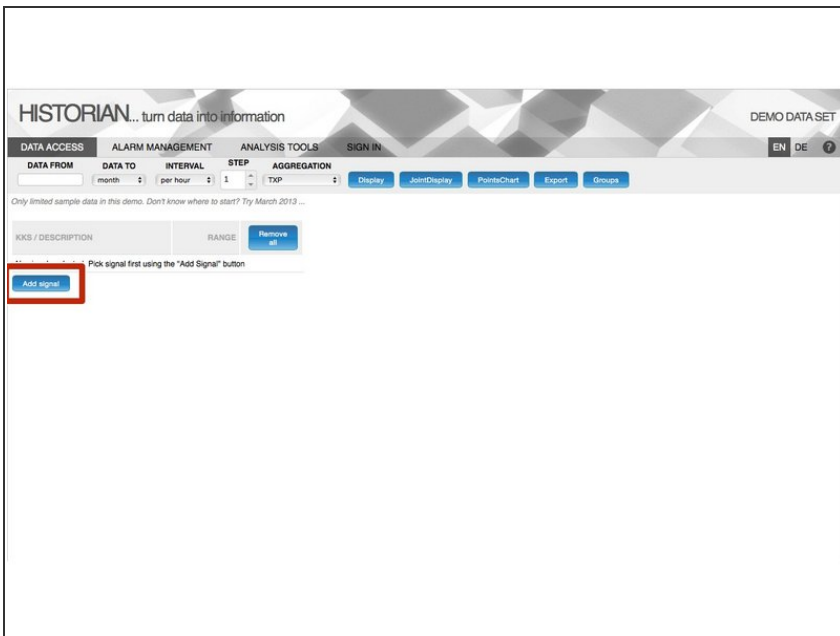
Step 1 — Historian User Guide

- Insert LOGIN and PASSWORD

Step 2

- To search for signal data, click Add signals button

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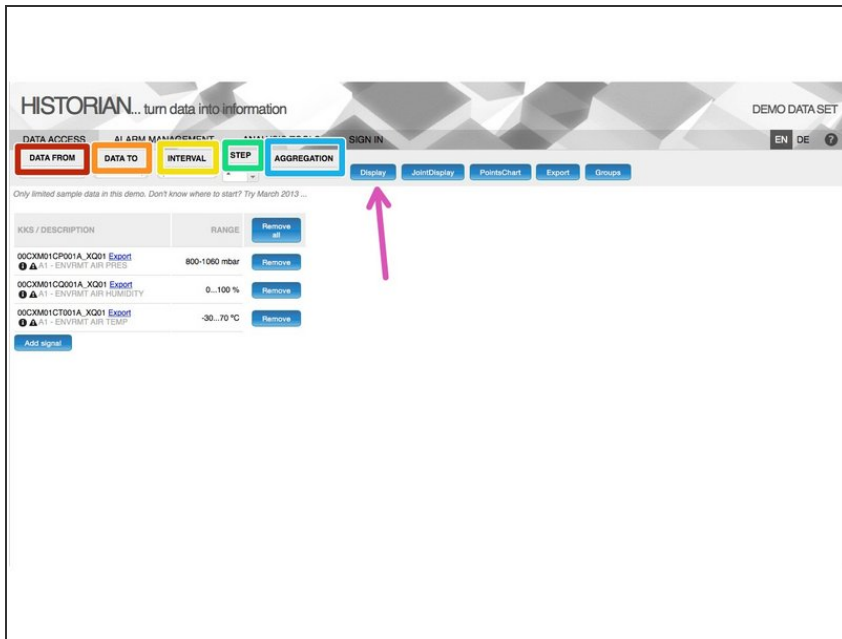© 2022 | omlex.dozuki.com/ | Page 3 of 17

Step 3
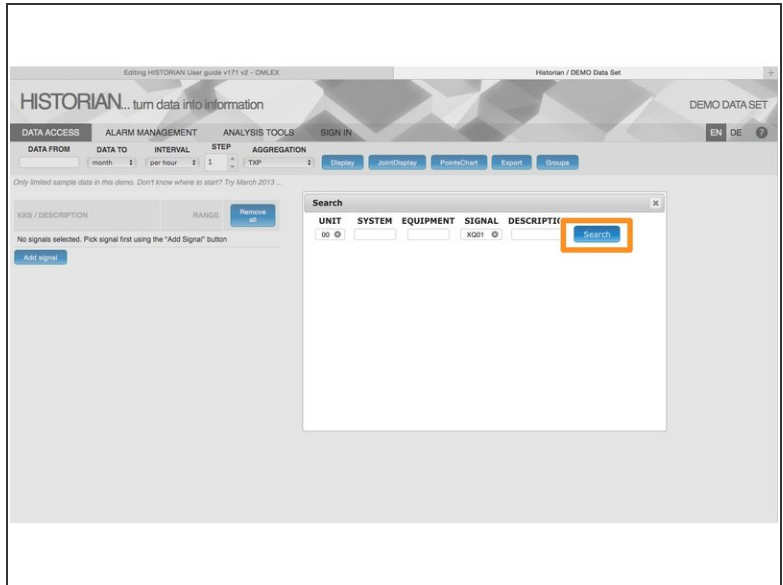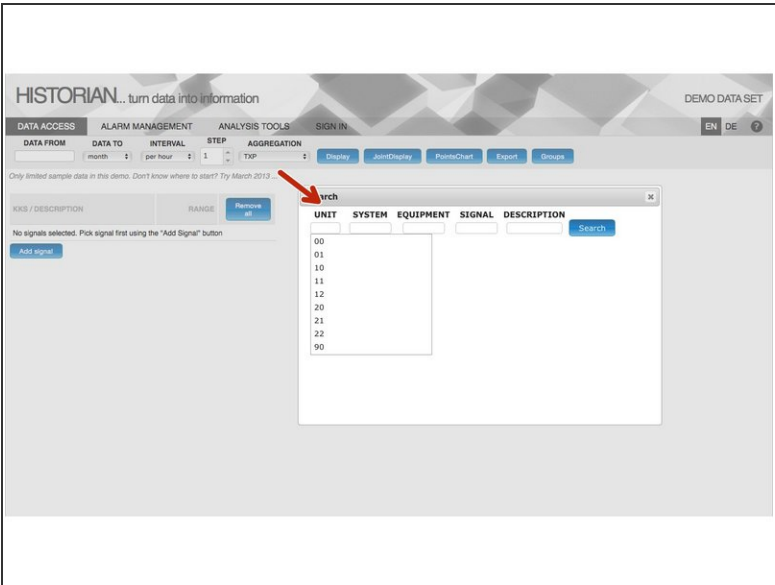
- Select the type of signal you want to search for.

- Select *SEARCH*

Step 4
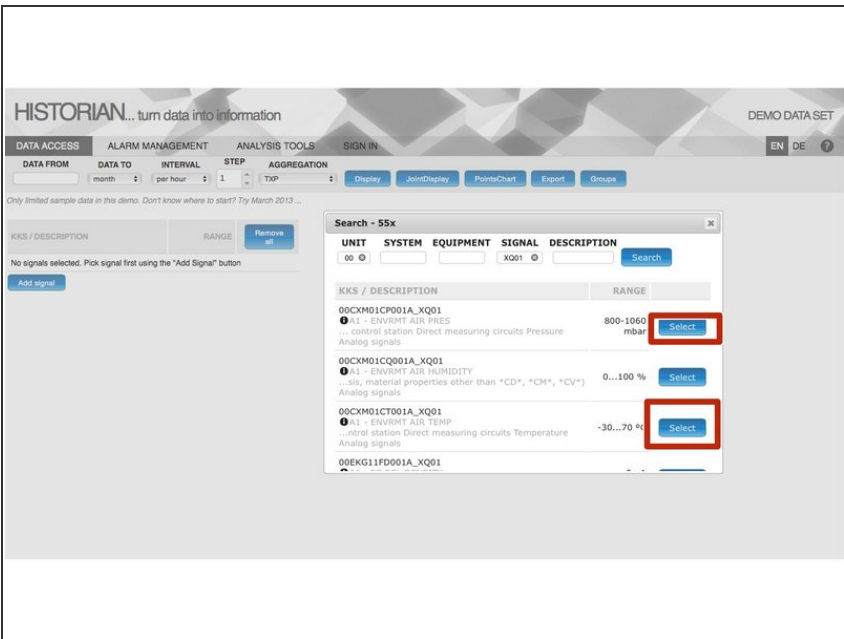
- Once you have the signal, you can choose the ones you want by clicking on *SELECT*

- You can select the signals that remain.

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Step 5

(i) After finding requested signals the users should specify the point of view they are requesting.

- DATA FROM – start of the requested data range

- DATA TO – end of the requested data range. May be specified either relatively (day, week, month, quarter, half-year, year, two years or ten years) or absolutely (value custom)

- INTERVAL – represents the aggregation interval (one value per second/minute/hour/day) or raw data

- STEP – aggregation step (usually 1 which means one value per one hour, etc.)

- AGGREGATION – aggregation method (OPC aggregation method such as Interpolative, Average, etc.) or TXP aggregation which should correspond to the aggregation method of the original system

- Cuando estén todos los datos, haremos click en DISPLAY

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Step 6
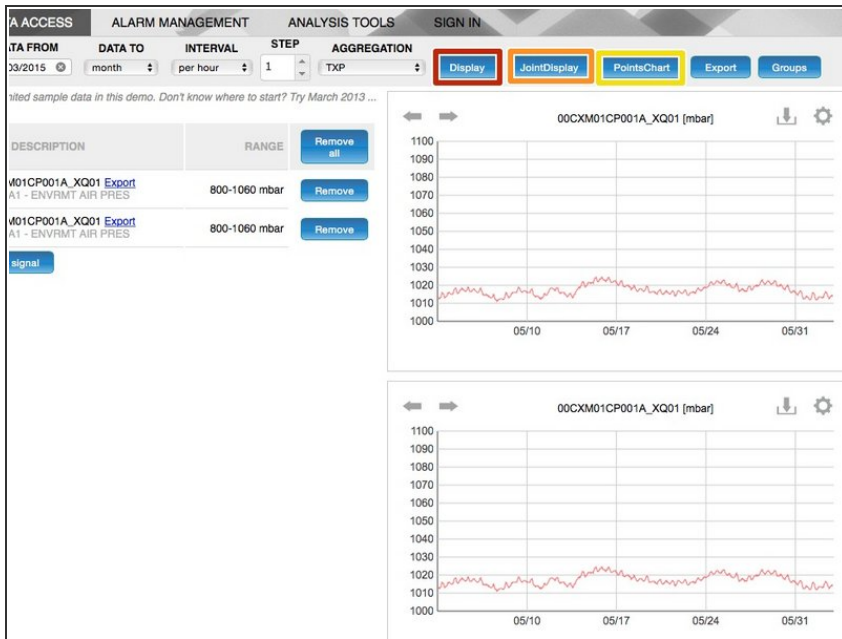
(i) Once the point of view is specified, users may show charts with signal values.

● Display – shows separate chart for each signal

● JointDisplay – show one chart containing all selected signals as separate series

● PointsChart – available only if exactly two signals are selected – the values of signals are used as axis points.

Step 7
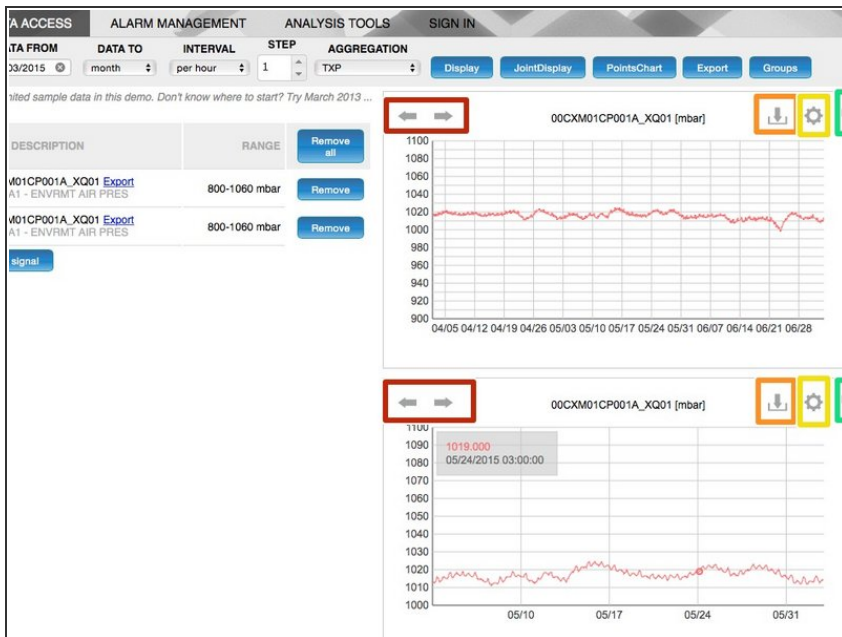
(i) Charts allow additional user interactions – user may:

● Browse through the previous/following time intervals using the left/right arrows

● Download chart as a PNG image

● Configure various aspects of the chart (series colors, axis) or zoom time range series using quick sliders

● Zoom chart to the whole screen

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Step 8

- There is a small icon next to the KKS sign that shows information in small

Step 9

- Also shows full detail of the signal

Step 10
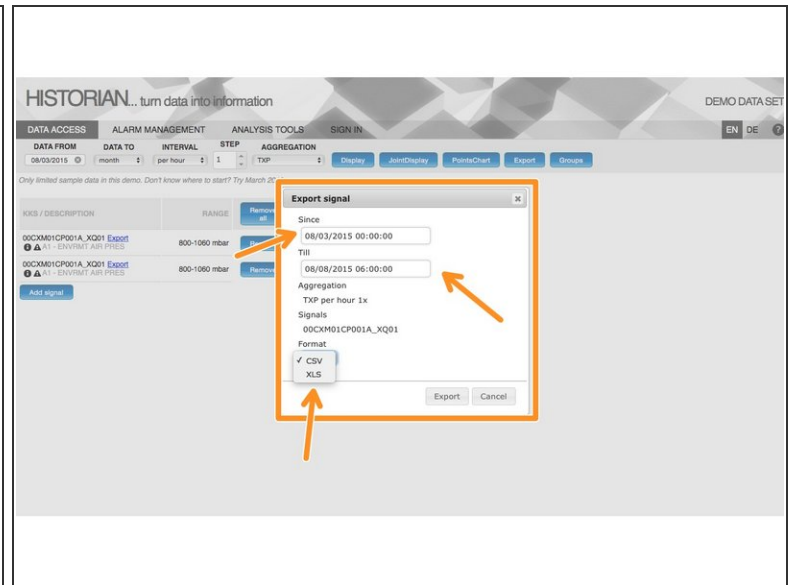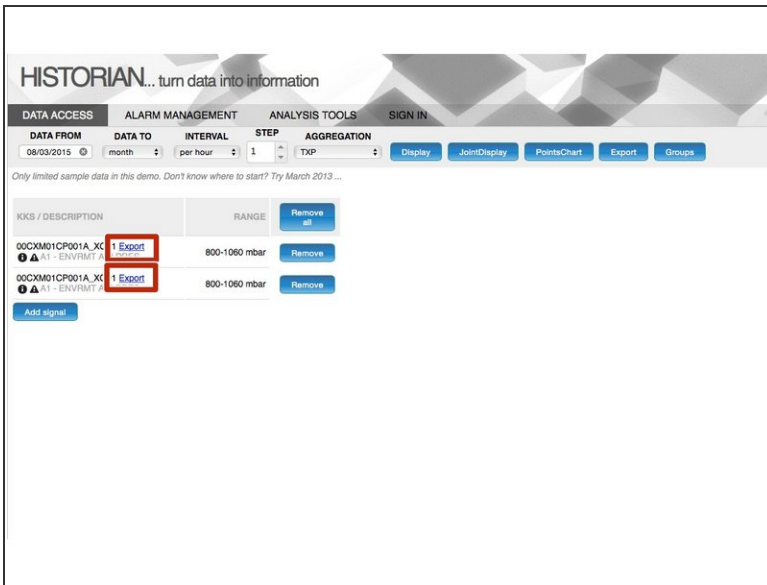
ⓘ Signal data may be exported either for one signal or for all signals at once.

● Click Export

● Exact time can be specified in the Export dialog (using hour, minutes and seconds) as well as export format (CSV or XLS).
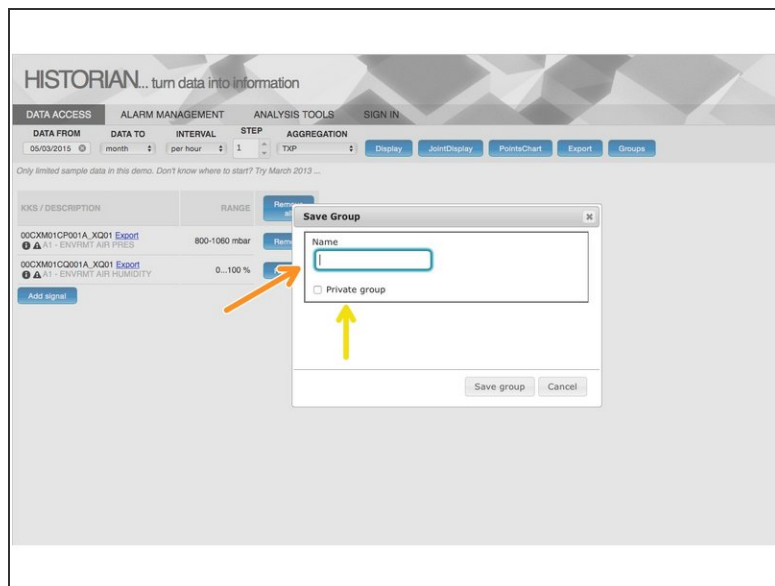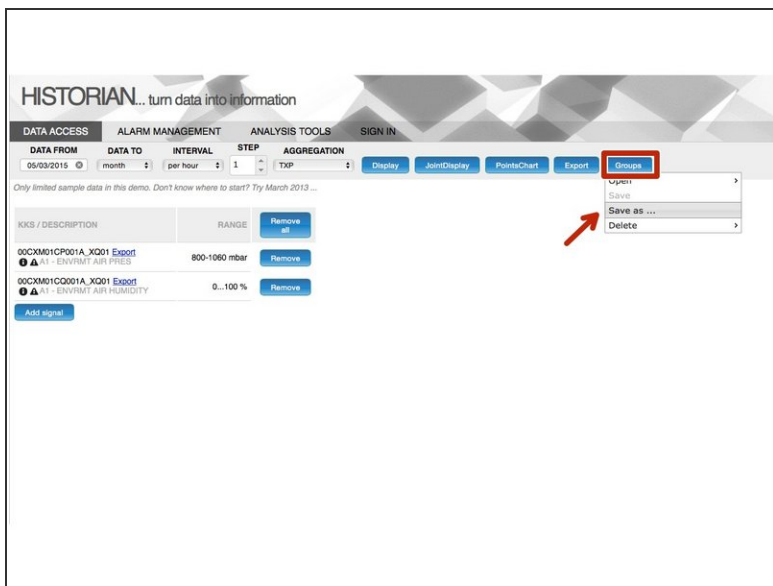
⚠ Joint export is not available for exporting raw data (as there is no way to pair particular values)

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Step 11

(i) Users can save the list of frequently used signals in the so-called Group and can be private or public

● Select GROUPS and SAVE AS

● Enter group name

● Select private or not

⚠ Once the group is saved, user may get back to the list at any time by simply opening the group.

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Step 12

ⓘ Alarm management serves as a browser page for Sequence of Events (SOE) data.

● Select ALARM MANAGEMENT

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Step 13

- The range can be specified either relatively (as a minute/hour/day/week before a timestamp) or absolutely (using custom range between two timestamps).

- The events can be filtered using their event types or by the properties of corresponding signals (eg. Unit/System/Equipment/Signal/Description).

Step 14

- Selected events can be exported into a CSV file by pressing the Export button at the bottom of the page.

- CSV exported

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Step 15

- ????
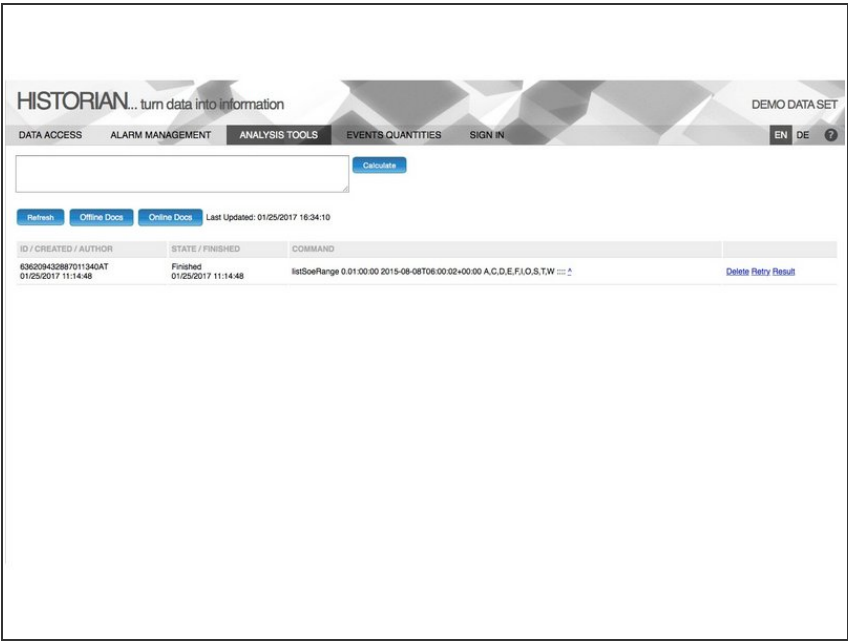
Step 16
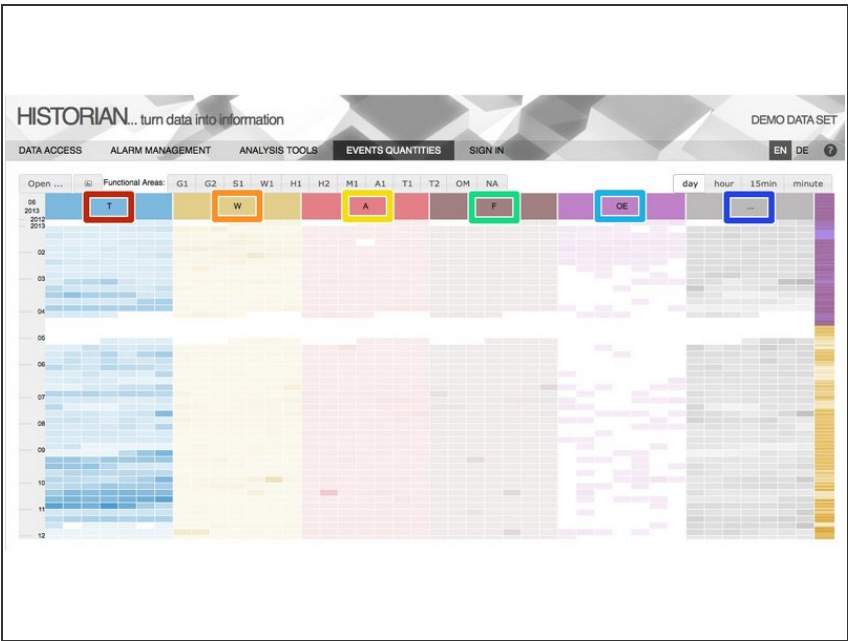
- (i) Events quantities provides a quick overview of the complete dataset. The overview represents separate columns for each event types.

- W for warnings

- T for tolerances

- A for alarms

- F for failures

- OE for operator events

- ... for summary of other types of events

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Step 17
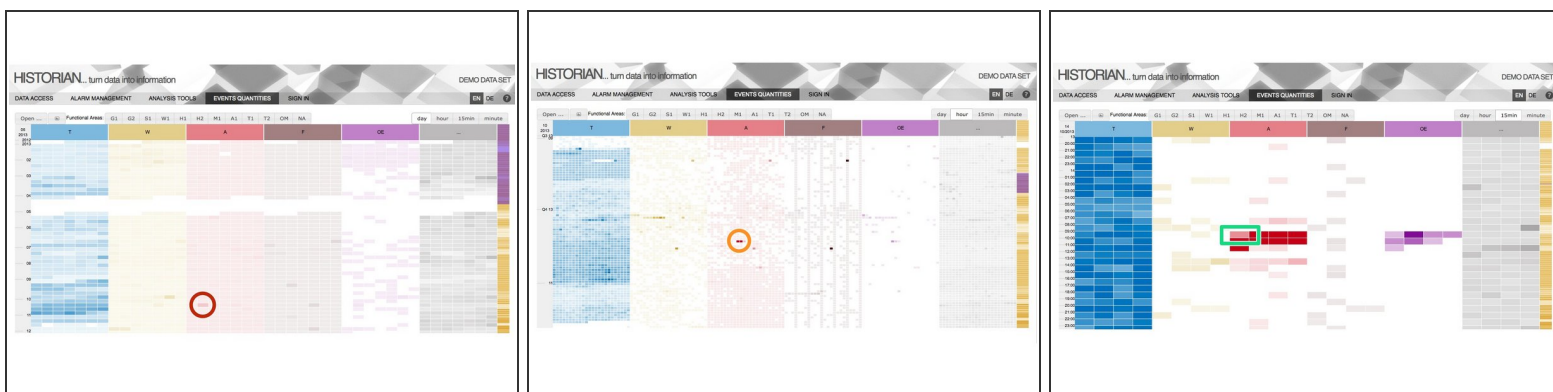

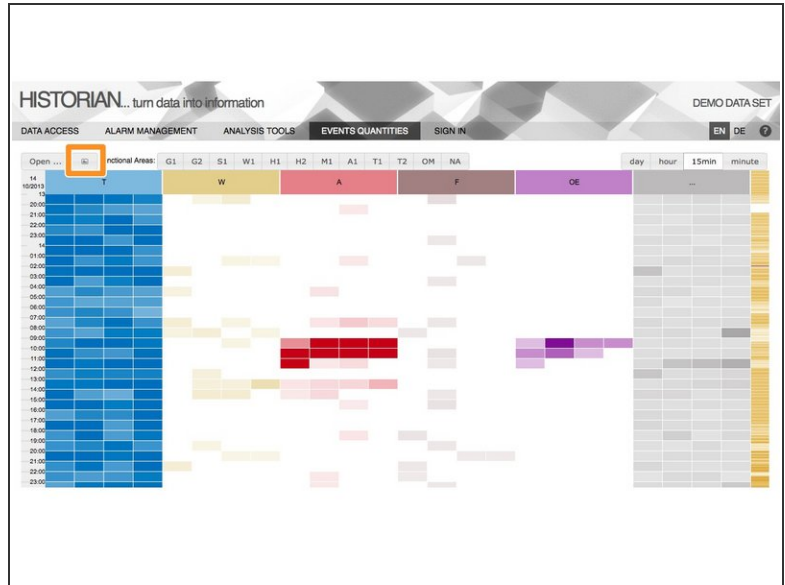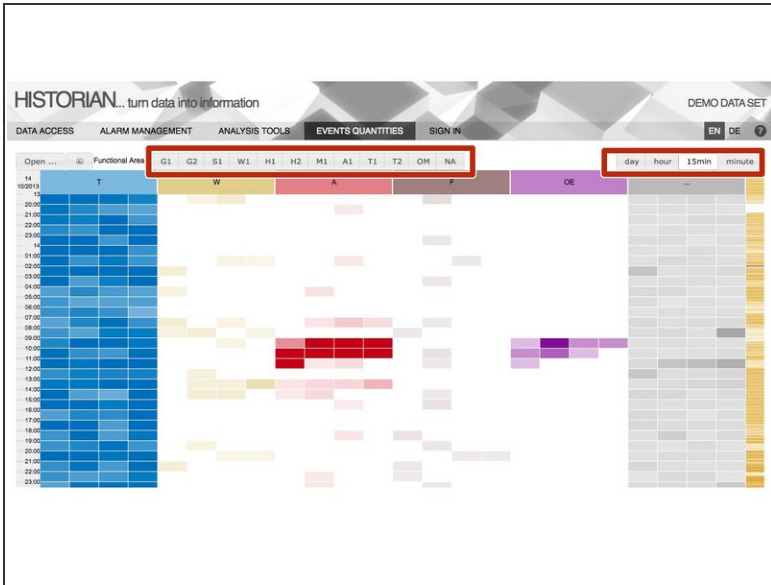(i) Each cell represents a particular time period (day/hour/15min/minute).

● Particular value can be shown by hovering a mouse cursor over the cell.

● Intensity of the color represents the number of events in particular cell
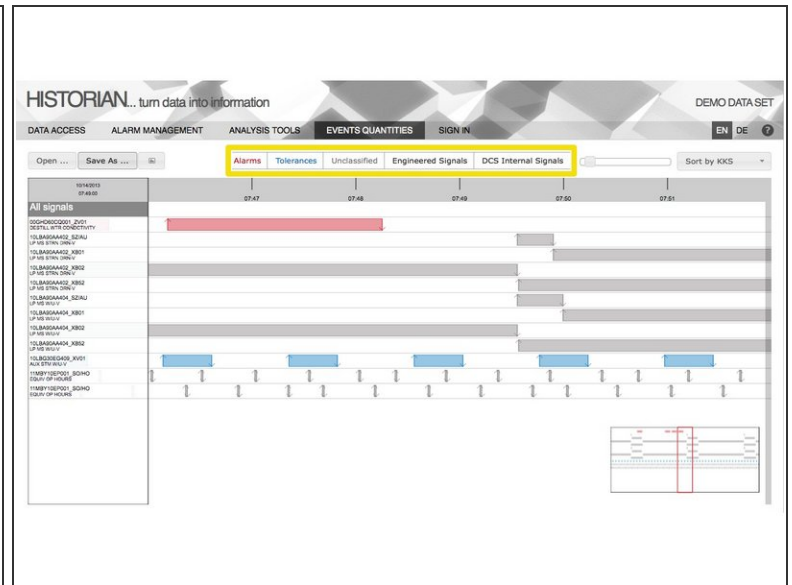
Step 18

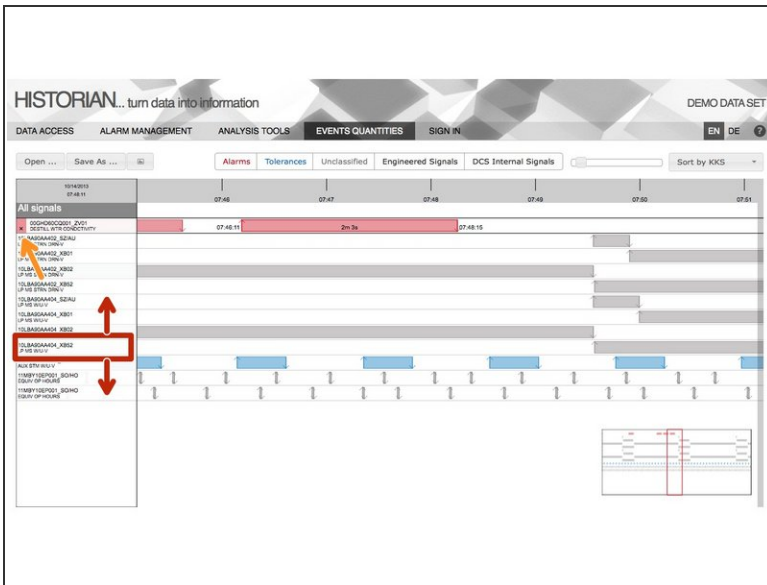● By clicking a cell, particular time range is selected and a detailed view is displayed.

● More detail

● More detail

Step 19

- The view can be filtered with respect to any functional area or their combination.

- For reporting purposes, the view can be also saved as a PNG file using the button with image icon.

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Step 20

ⓘ Detailed view allows users to precisely analyze the events inside the system, their exact timing, sequences and durations. Each row in this view represents a particular signals which appeared during the selected time range.

- Signals can be reordered (by simple drag and drop on their label)

- Hidden (by pressing the X mark next to the label of selected signal)

- The whole list can be filtered by their type (typically for Alarms, Warnings, Failures, Tolerances, Operator Events) or by their nature (Engineered Signals or DCS Internal Signals)

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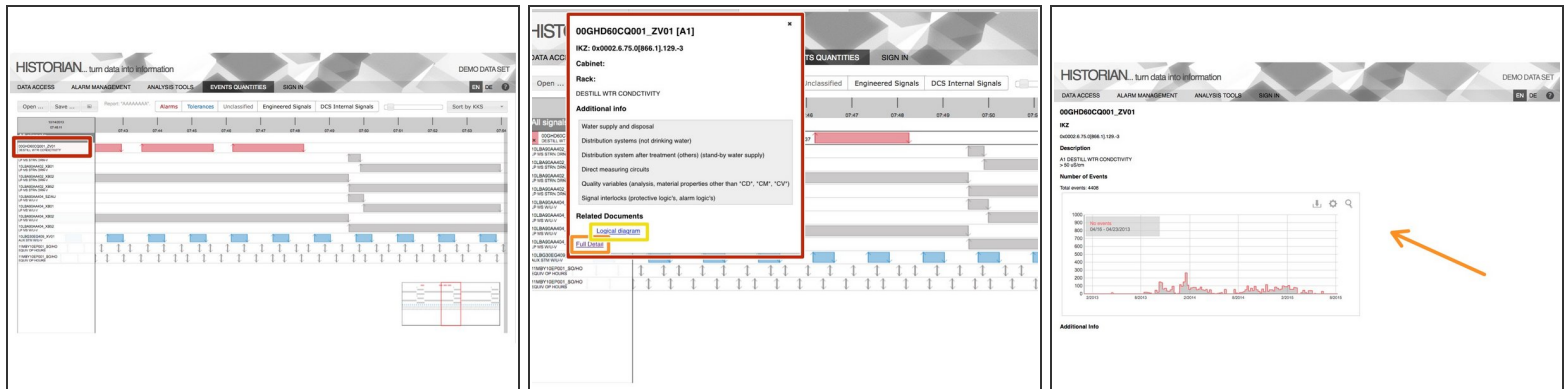
Step 21

- To have more information click

- Full detail

- Logical Diagram

Step 22
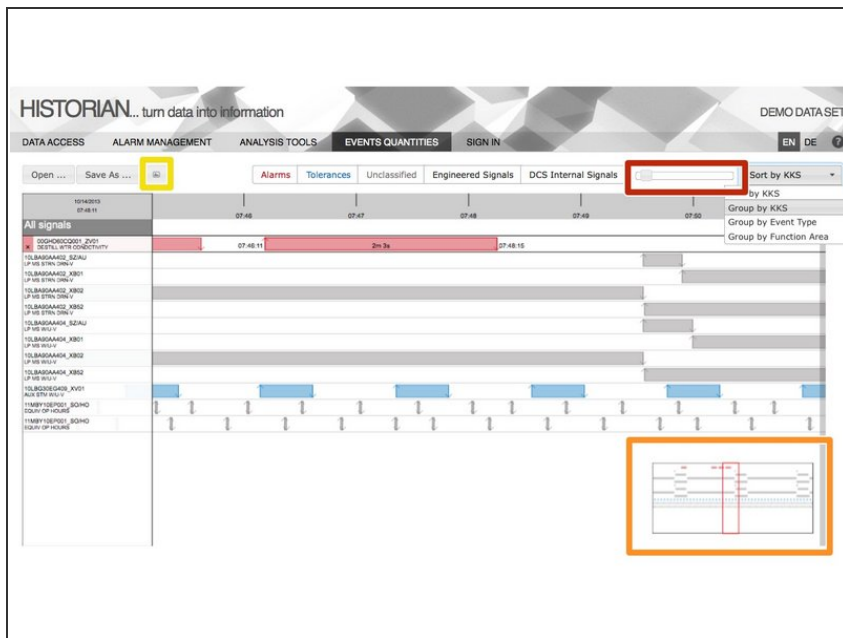
- The view can be zoomed (by dragging the zoom slider on the right top part of the page) or sorted.

- Right bottom part of the page contains a quick preview of the selected time range with all signals at once (to quickly spot important timestamps).

- Detailed view can be saved into a PNG picture by pressing the button with image icon.

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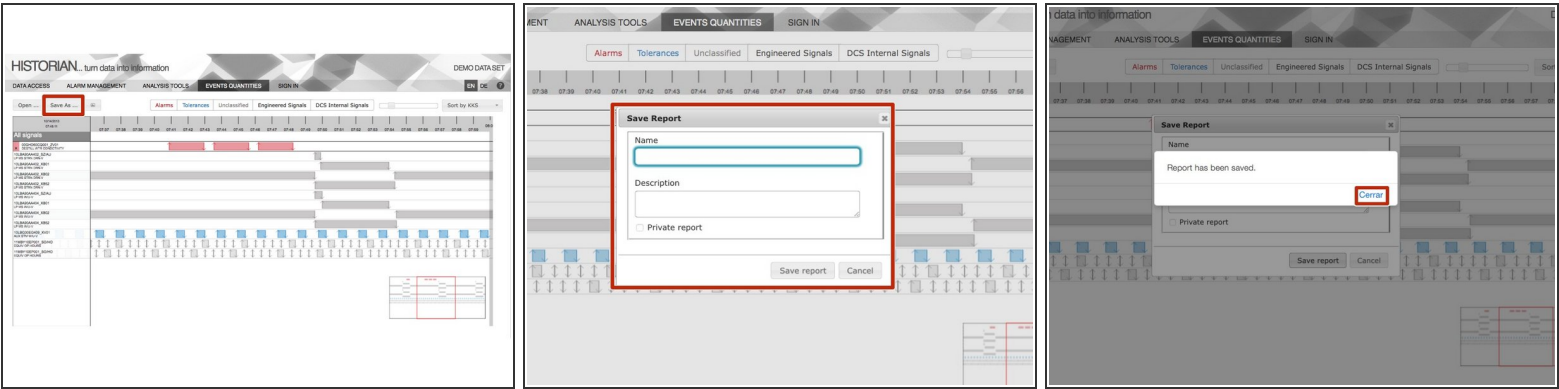
Step 23

(i) Current state of the page can be saved at any time using so-called Reports.

● Reports are created using the button Save as... and can be either public (all users can see them) or private (only for its creator).

Step 24

(i) If the OMLEX Historian application is configured in authorized mode, users are required to sign in prior using the application.

● This user management is done through the settings icon on the right part of the menu.

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