Usage of the clients components

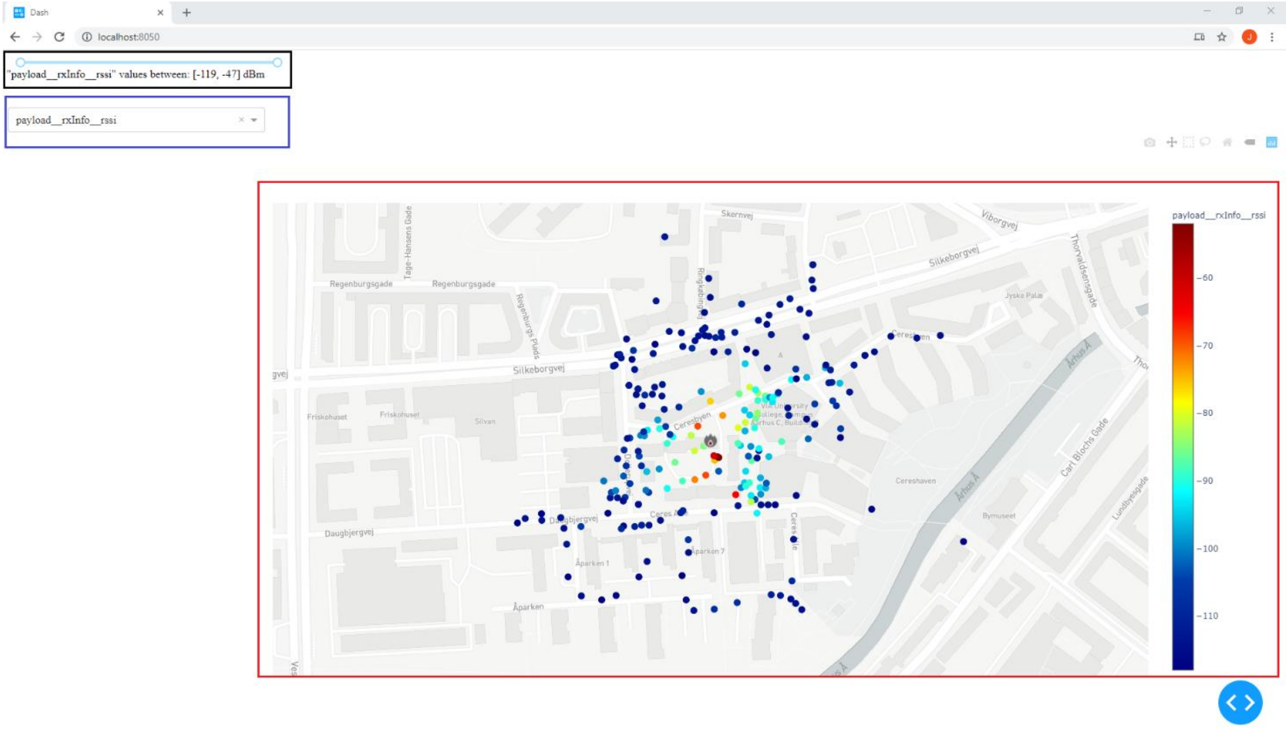

Figure 1: Map with marked components: RangeSlider(black), Dropdown(blue), map(red)

Black (RangeSlider)

The range slider is made to filter on the endpoint values that are accepted according to the value selected in the dropdown. The available range are defined as the datasets minimum and maximum value in the given category. The slider updates every time a new value is selected in the dropdown.

It got 2 sliders to handle tasks where a very small window is needed in the middle of the ranges.

There are 100 steps on the range slider.

The text below the RangeSlider with the squared parenthesis (in Figure(2) values [-119, -47]) will update when the either of the 2 sliders are selected.

*Tip: To fully get how it works it's recommended to select the dropdown value "distance" and select different values on the slider.

Blue (Dropdown)

The dropdown consists of metadata that are available for the endpoints configured on the map. It defaults to the value payload_rxInfo_rssi. Further metadata types are available from the dropdown are:

payload__rxInfo__rssi

The payload_rxInfo_rssi are the rssi that are received on the concentrator from the payload sent from the endpoint

payload__rxInfo__loRaSNR

The payload_rxInfo_rssi are the Signal-Noise-Ratio that are received on the concentrator from the payload sent from the endpoint

payload__rxInfo__channel

The payload__rxInfo__channel is the channel which the payload are received on. This should correspond directly to the 'payload__txInfo__frequency'

payload__txInfo__frequency

The payload__txInfo__frequency are the frequency which the endpoint has transmitted the payload on. This should correspond directly to the 'payload__rxInfo__channel'

Latitude

The Latitude is the latitude coordinate of where the endpoint has transmitted.

Longitude

The Longitude is the longitude coordinate of where the endpoint has transmitted.

distance

The distance is self-calculated Haversine-distance between the gateway coordinates and the endpoint coordinates.

Red(Map)

The map is a representation of the Endpoints form their Lat and Lon coordinates. The color of the endpoints is based on the value they got from the dropdown. The color is explained on the colorbar to the right of the map.

The map will discard some of the endpoints when the RangeSlider is moved to where these endpoints are not in the RangeSlider defined interval.

When the interval from the RangeSlider are changed, the colorbar on the right becomes more precise which gives a higher resolution of the remaining endpoints in this interval.