ppyordanov / **Dynamic-Noise-and-Pollution-Map**   PRIVATE

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Client Position Check Window #62

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⊘ **Closed**   **ppyordanov** opened this issue on Dec 10, 2014 · 1 comment

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ppyordanov commented on Dec 10, 2014

There is a bug when checking the current position, causing the client to make requests to the SCK central server more often than needed (every 3-5 seconds) considering that the updates are sent every 30 seconds by the Smart Citizen Device. This needs to be debugged/ refactored.

🏷 **ppyordanov** added the bug label on Dec 10, 2014

👤 **ppyordanov** self-assigned this on Dec 10, 2014

╪ **ppyordanov** added this to the **Client Prototype** milestone on Dec 10, 2014

🏷 **ppyordanov** added the refactoring label on Dec 10, 2014

🔖 **ppyordanov** referenced this issue from a commit on Dec 10, 2014

⊙ [BUG-FIX] client time window bug was fixed, further input checking in… …   💬 8a7a1b8

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ppyordanov commented on Dec 10, 2014

The code refactoring has been completed on this stage. The operations carried out in relation to geolocation have been extracted in a separate function for better code readability:

```
function localize(){

    var date = new Date();
    var time_ms = date.getTime();

    location_id = navigator.geolocation.getCurrentPosition(
        //SUCCESS
        function(current_location){
            route_data.push(current_location);
            getSCKData(current_location, time_ms);

        },
        //FAIL
        function(error_message){
            console.log(error_message);
        },
        { enableHighAccuracy:true,timeout:10000}
    );

}
```

The previous method required the use of *navigator.geolocation.getWatchPosition(success, fail);*. This creates a continuous stream of GPS data retrieval that does not seem to be affected by timeout or *setInterval()* functions which is what the system needs in order to function properly when a specific temporal window value has been input by the user in the relevant field. This is what made it necessary to change the approach: *localize()* is currently making use of *navigator.geolocation.getCurrentPosition(success, fail);* which retrieves current device geolocation on request and can be configured with a timeout:

```
setInterval(localize, TIME_WINDOW);
```

Sidebar

Labels   ⚙
 bug
 refactoring

Milestone   ⚙
Client Prototype

Assignee   ⚙
 ppyordanov

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The *isNaN()* function verifies the field input. If invalid data has been provided, the default time window is used (30 000 ms):

```
//checking time window value
//window at least a second
var winVal = $("#window").val();
if(winVal!='' && isNaN(winVal)==false && winVal >= 1000){
    WINDOW = parseInt(winVal);
}
```

All of the events described above are fired on pressing the button to start route tracking. Logging and prompts are extensively used to let the user know what is happening at any point of time during the tracking process.

⊘ PY **ppyordanov** closed this on Dec 10, 2014

🔖 PY **ppyordanov** referenced this issue from a commit on Dec 10, 2014

● PY `[BUG_FIX] position tracking clearance re-introduced`   💬 3515e2e

PY

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