

# SKF @ptitude Observer v13.2.1 release summary

## Requirements

### Software and FW requirements

- Recommended IMx-1 GW firmware version – 3.5
- Recommended IMx-1 Sensor firmware version – 3.4
- Recommended IMx firmware version – 7.8

## Resolved bugs

- VSTS#296525 – Resolved an issue with the **Set Speed** function in the FFT plot, which is causing unhandled exceptions for a few UI languages
- VSTS#301321 – Resolved bug in **Multiple Point Update Wizard**, which causes application crash after an attempt to update F1 type parameter in Dynamic Envelope Order tracking points
- VSTS#310220 – Resolved an issue with the **Calculated Machine Speed** feature when post-processing sometimes not finishing for the **External speed input** option
- VSTS#253430 – Resolved an issue when **Auto scaling** in **Trend Plot** does not consider custom band's trend values
- VSTS#304345 – Resolved an issue with parameter **Max.numbers of measurements** for diagnosis recalculations (Options/Data), which always applies as hardcoded 40000 and can cause performance issues in large databases. Now editing of this parameter works as it should
- VSTS#303239 – Resolved an issue with Modbus Export function, which is preventing F1-F5 data sharing in case Custom Bands enabled in IMx8 point
- VSTS#337988 – Software speed on machine parts does not work for Microlog points in Observer 13.2
- VSTS#337988 – Fixed an issue where Microlog points would no longer receive speed values if they came from a software derived speed point

## Enhancements and optimisations

- VSTS#304346 - Optimisation of Alarm list handling in Observer makes Acknowledging Alarms process several times faster.
- VSTS#304399, 304402 - Optimisation of IMx-1 sensor configuration handling in Observer, which before caused high consumption of RAM and enormous load for SQL Server for large installations with few hundreds of IMx-1 sensors per database.
- VSTS#306721 – Small UI changes of Machine Speed tab UI

Calculated speed from spectrum       External speed input

Dynamic-IMx-One-Acc-Ch1

[ 7000 ] [ 6993.75 ] ⓘ      To: [ 8000 ] [ 8006.25 ] ⓘ

[ 1 ]      Speed range [cpm]: [ 6993.75; 8006.25 ]

Note: The speed search range is rounded to nearest FFT bin.

## Rail Track Monitoring features

### Web client

- VSTS#254300 – The map does not zoom out and stays at the same zoomed points in Google maps if the user re-applies the filter
- VSTS#303845 – Travel direction of measurement points to be shown in noise monitoring application (requires IMx FW 7.8) filter

### Phoenix API

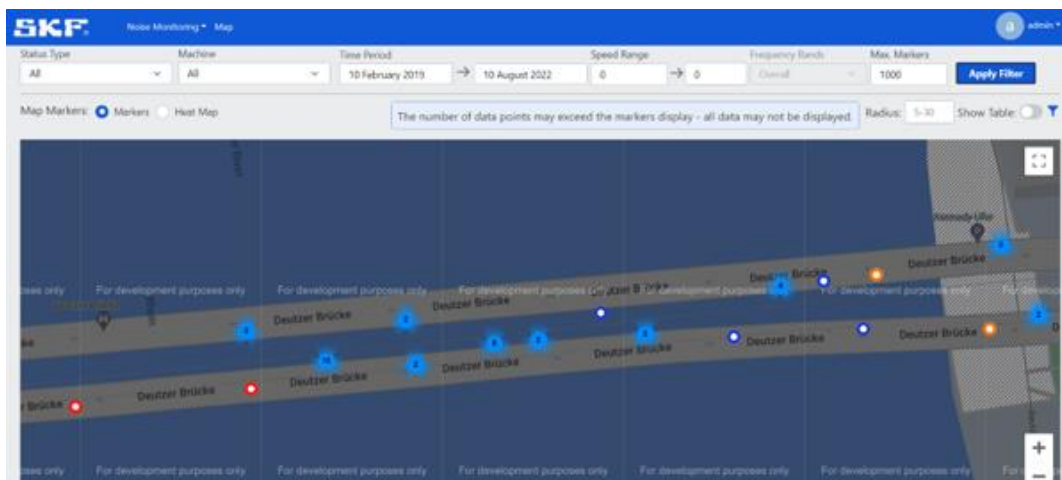
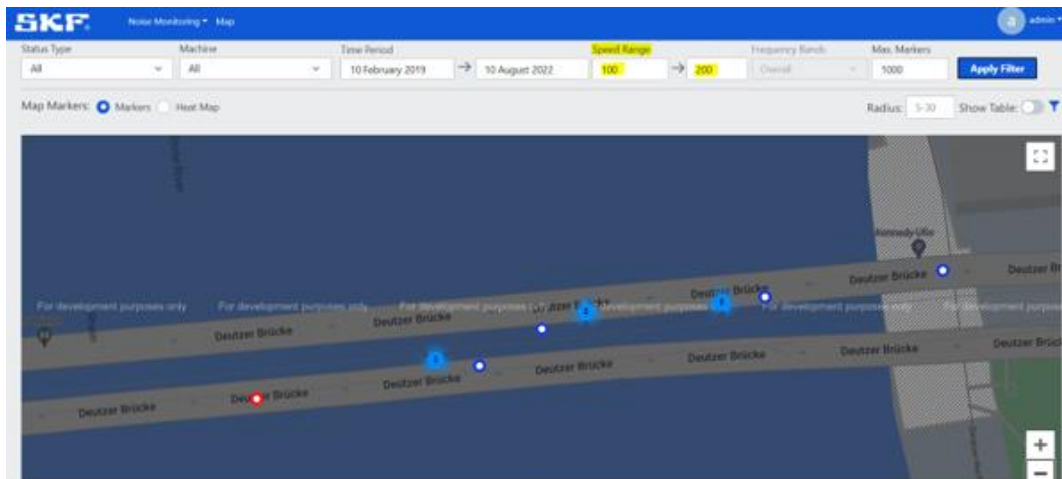
- VSTS#180734 – API changes to fetch direction from firmware and return to web client in Noise monitoring application

### Bug Fixes (Web client)

- VSTS#302319 – Metro: Record correction action is unable to save the action for Defect not fixed
- VSTS#303477 – The calendar is hiding behind the banner

**The map does not zoom out and instead stays at the same zoomed points in Google maps if the user re-applies the filter**

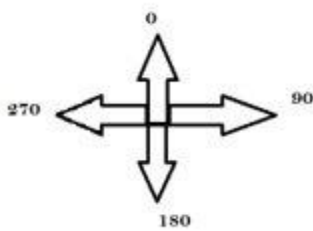
If the user zooms in for a particular measurement point and then changes any of the filter settings and re-applies the filter option, the Google map zooms out, and all the measurement points would appear. Instead, the map should stay at the same zoomed points and disappear if it does not fall under the conditions of the applied filter.



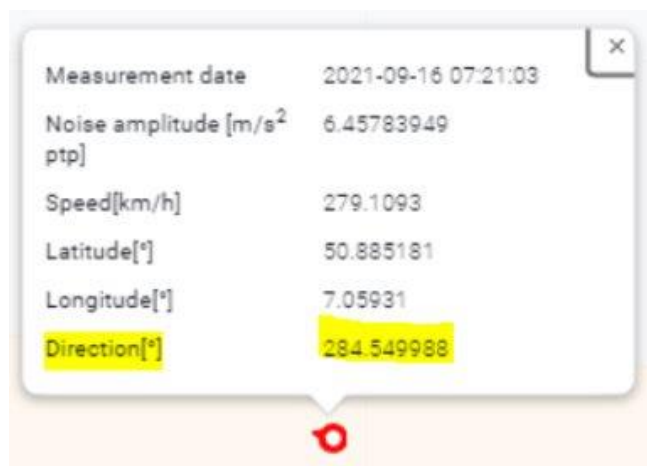
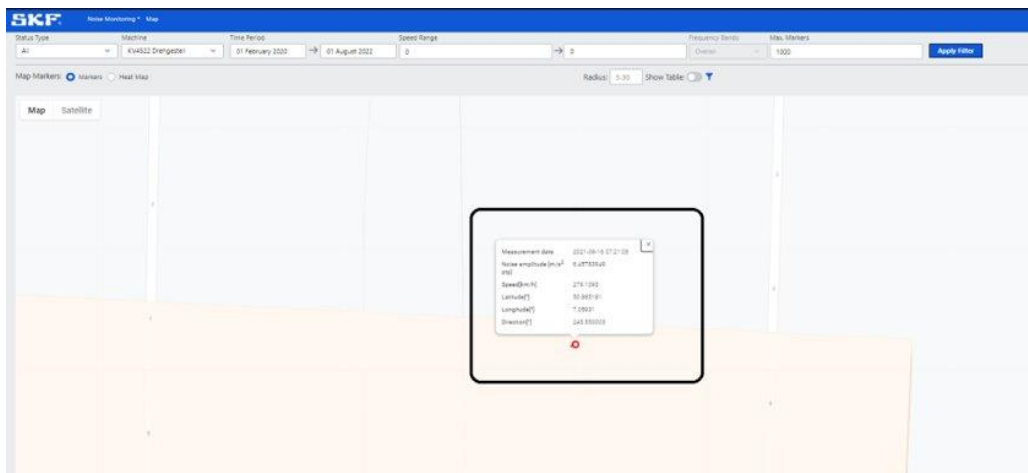
## Travel direction of measurement points to be shown in noise monitoring application

For the noise monitoring application, the users can now also see the direction in which the tramway travels. The measurement point, if zoomed, has a pointed arrow that indicates the direction in which the vehicle is moving.

The direction is indicated, keeping the below thumb rule in consideration.



This is how the points would look in the web client and on hover. The measurement details popup also displays **Direction** as a newly added parameter.



## API changes to fetch direction from firmware and return to web client in Noise monitoring application

Firmware changes were done to add the direction of travel in the GPS location (requires external communication module GPS50M) and return in the **gpsloc** parameter.

IDMeasurement	Comment
393268	+50.937247+006.971142+0057/01.2/055613/011.7/031.4
393267	+50.937142+006.971061+0060/01.4/055611/014.9/046.9
393266	+50.937061+006.970916+0061/01.4/055609/017.2/050.3
393265	+50.937018+006.970823+0062/01.2/055608/016.4/056.2

Related API changes are done in the **shocksAmplitude** to fetch this direction from **MeasurementInformation** table and return so that this parameter can be used to display the direction of travel of these points in the corresponding Noise monitoring web application.

GET /v1/mainline/{machineId}/shocksAmplitude List noise amplitude of machines.

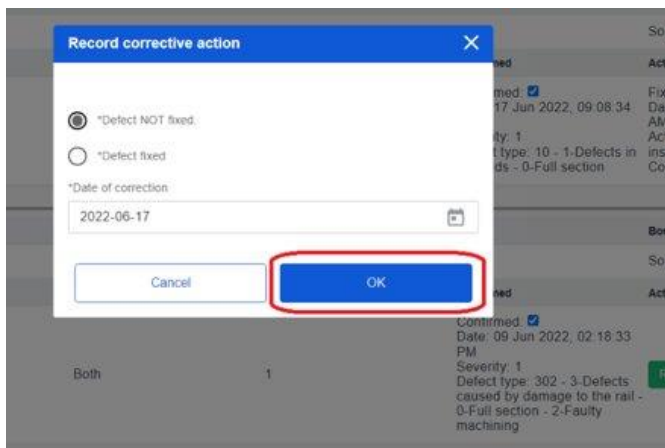
```

NoiseMonitor {
  idpoint (integer, optional): IDPoint,
  idmeasurement (integer, optional): IDMeasurement,
  micName (string, optional): Name of the mic,
  machineId (integer, optional): Id of the machine,
  latitude (number, optional): Latitude,
  longitude (number, optional): Longitude,
  numberofCustomBands (integer, optional): Number of Bands,
  speed (number, optional): Speed,
  readingTime (string, optional): ReadingTime of trend,
  frequencyband1amp (number, optional): Frequency of Band1,
  frequencyband2amp (number, optional): Frequency of Band2,
  frequencyband3amp (number, optional): Frequency of Band3,
  frequencyband4amp (number, optional): Frequency of Band4,
  overallAmplitude (number, optional): Amplitude,
  frequencyband1Name (string, optional): Name of 1st frequencyBand,
  frequencyband2Name (string, optional): Name of 2nd frequencyBand,
  frequencyband3Name (string, optional): Name of 3rd frequencyBand,
  frequencyband4Name (string, optional): Name of 4th frequencyBand,
  overallfrequencybandName (string, optional): Name of 5th frequencyBand,
  enableAlarmF0 (boolean, optional): Enable Alarm F0,
  enableAlarmF1 (boolean, optional): Enable Alarm F1,
  enableAlarmF2 (boolean, optional): Enable Alarm F2,
  enableAlarmF3 (boolean, optional): Enable Alarm F3,
  overallEnableAlarm (boolean, optional): Enable Alarm F3,
  warningLevelF0 (number, optional): Warning Level F0,
  warningLevelF1 (number, optional): Warning Level F1,
  warningLevelF2 (number, optional): Warning Level F2,
  warningLevelF3 (number, optional): Warning Level F3,
  overallWarningLevel (number, optional): Warning Level F4,
  alarmLevelF0 (number, optional): Alarm Level F0,
  alarmLevelF1 (number, optional): Alarm Level F1,
  alarmLevelF2 (number, optional): Alarm Level F2,
  alarmLevelF3 (number, optional): Alarm Level F3,
  overallAlarmLevel (number, optional): Alarm Level F4,
  direction (number, optional): Direction of the measurement
}

```

## Metro: Record correction action is unable to save the action for “Defect not fixed”

Application was unable to save the "record correction action" for defect not fixed, which is now resolved.



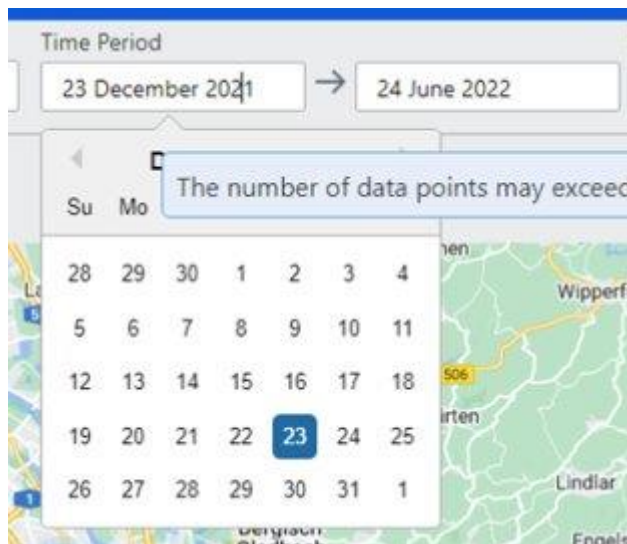
Line	From	To	Bound				
NEL	HBF	OTP	North Bound				
ID	Date	Chainage	Rail	Analyst Severity	Confirmed	Action	Charts
19	12 Jul 2022, 07:56:38 AM	5455-56466	Both	0	No defect could be confirmed Date: 12 Jul 2022, 07:57:26 AM	N/A	
18	12 Jul 2022, 07:55:47 AM	0-0	Both	1	No defect could be confirmed Date: 12 Jul 2022, 09:09:22 AM	N/A	
16	23 Mar 2021, 06:08:19 AM	0-0		4	Confirmed: <input checked="" type="checkbox"/> Date: 24 Mar 2021, 09:29:20 AM Severity: 1 Defect type: 100 - 1 - Defects in rail ends - 0-Full section - 0-Transverse break without apparent origin	Fixed Date: 24 Mar 2021, 09:35:11 AM Action: The tracks were inspected to confirm the defect. Measurements of the defect size were taken Comment:	Select chart...



## Calendar was hiding behind the banner in Noise monitoring application

The user was unable to modify the month from the banner because it was hiding behind the banner, which is now resolved.

Before:



After:

