

European
Global Navigation
Satellite Systems
Agency

Concluding Remarks

Fourth Annual GNSS Raw Measurements Taskforce Workshop

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Signal-In-Space Accuracy (SISA) consultation



- Three questions on usage of SISA and SIS status flags contained within the navigation messages to be provided after the workshop **via email**
- Replies expected by the end of next week, i.e. **Friday 5 of June**

1. Do your solutions/receivers use the SIS flags as the mean for determining the SIS status of satellite according to Table 7 in Galileo OS SDD Is.1.0 2016?

2. In case you use SISA, do you use it for other purposes different than checking SISA Index=255, that is SISA=NAPA to assess the SIS health status?

3. In case the definition of the SISA value would be modified, in order to support ARAIM as a User Range Accuracy parameter, would it impact your receiver or application? If so, which impact?

SISA INDEX	SISA VALUE
255	No Accuracy Prediction Available (NAPA)
0.....254	Not NAPA

Table 5. SISA Index values relevant to the assessment of the SIS Status

SISA Index	SISA Value
0.....49	0cm to 49cm with 1cm resolution
50.....74	50cm to 0.98m with 2cm resolution
75.....99	1m to 2m with 4cm resolution
100.....125	2m to 6m with 16cm resolution
126.....254	Spare
255	No Accuracy Prediction Available (NAPA)

Table 76. SISA Index Values

The measurements database: datalogs and other relevant documents



Measurements Task Force - Measurements Database

Search Criteria									
Smartphone	GNSS Chipset Manufacturer	Dynamics	Type of Scenario	Data Recorded On	Duration (minutes)	Place	Dual Frequency	AGC	Operator
ALL	Broadcom	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL

Search Result												
Smartphone	GNSS Chipset Manufacturer	Dynamics	Type of Scenario	Data Recorded On	Duration (minutes)	Place	Dual Frequency	AGC	Operator	email	Description	Link
Samsung S8	Broadcom	Static	Open Sky	03-09-2017	180	Munich	NO	NO	Airbus			https://drive.google.com/open?id=1nYMYAfbaa6q8hPUdmXmgt-x81y1wDIHf
Huawei P10	Broadcom	Van	SubUrban	07-12-2017	180	Munich	NO	NO	Airbus			https://drive.google.com/open?id=1p_U8NelM7f5JxPQmJ8FHJEJy_IDsSuN
Xiaomi Mi8	Broadcom	Static	Open Sky	09-10-2018	180	Munich	YES	NO	Airbus			https://drive.google.com/open?id=1KG65ROKwCAOZmnhlw-J-BrTAiBAKE8

The database is accessible through Google docs at:
<https://docs.google.com/spreadsheets/d/1Li4aKf43eJipZGweWpEIRHaRgj4tSacZ9WNuPHObt88/copy>

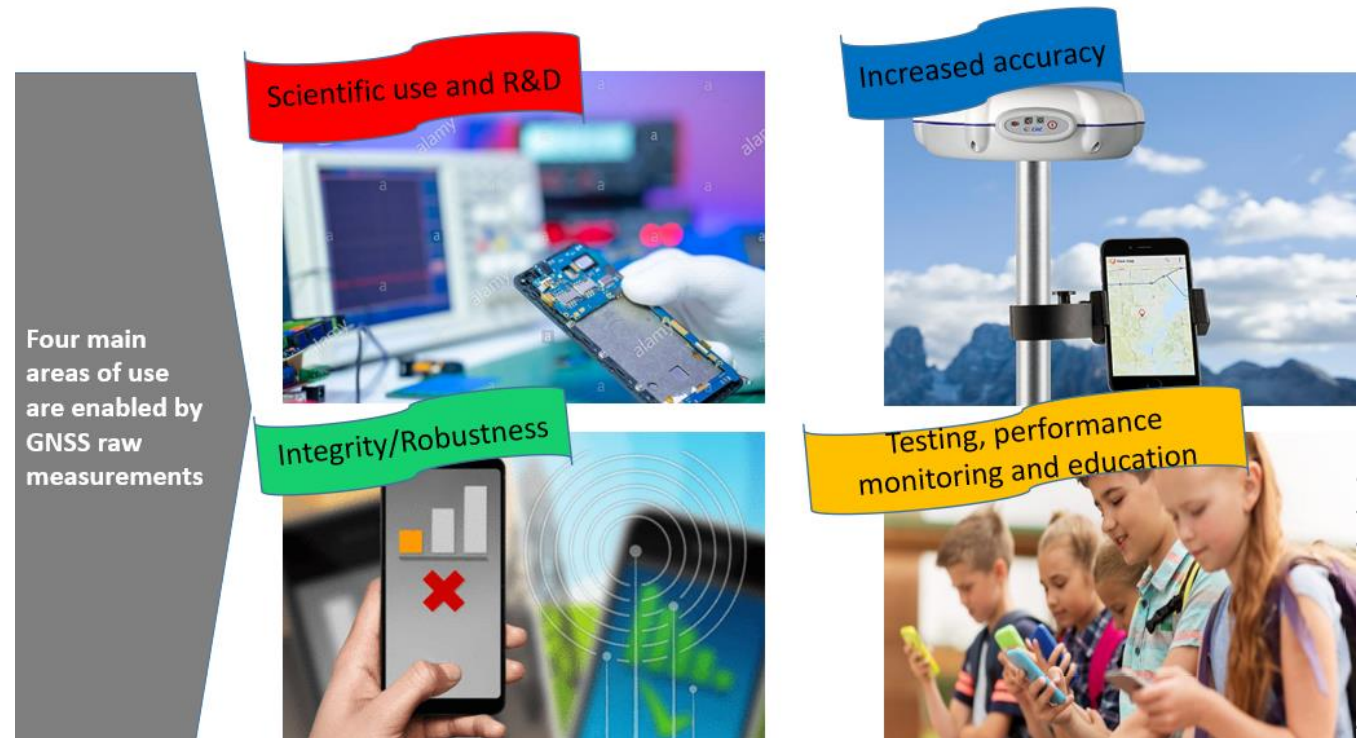
Feedback more than welcome!



- Any feedback on the workshop format, length, topics...
- Any suggestions on what the task force could do..

via email to:
martin.sunkevic@gsa.europa.eu

Big thank to all presenters!



Linking space to user needs



How to get in touch:



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