

## NSR Technical Notice

NSR24-TN01

**Important**

Issued on 21<sup>st</sup> May 2024

### 1. New firmware for AIS MKD released

APP 1.55, new firmware for NSI-1000 MKD was released.

[ PROGRAM VERSION ]		
[ MKD VERSION ]	BACK	
BOOT: 2.02 20230216		
APP : 1.55 20240516		
[ TX VERSION ]		
MB : V2.0.4-T3_20240401		
[ HARDWARE ]		
FLASH1:OK	COM :OK 115200	NSI105:V222
SDRAM :OK	TOUCH :OK	KDU [2] RF [2]
AUDIO :OK	NET :OK	ECDIS[2] PILOT[2]
		S1[2], S2[2], S3[0]

**Note:** Transponder firmware needs upgrading to TX version V2.0.4 for those V2.0.X. This issue should have been informed by email in April. If TX version is V1.X.X, please see 4.

### 2. Purpose of new firmware

The new firmware fixes the bugs causing below problems:

- The GPS antenna data A/B/C/D are wrongly displayed in the same figure for both external GPS and internal GPS though they are different. It's only a displaying error while transmitting data is correct.
- Alarm may occur on MKD and transponder may become abnormal after navigation status is kept as MOORED or ANCHORED for long time.

### 3. Scope of products affected

All NSI-1000 shipped from NSR between **Feb 4<sup>th</sup> and May 15<sup>th</sup> 2024** need upgrading with above firmware. Serial numbers for affected products are as below:

SI230401, SI230402, SI230403, SI230405, SI230406, SI230407, SI230408, SI230409, SI230410, SI230412, SI230413, SI230414, SI230415, SI230416, SI230417, SI230418, SI230419, SI230420, SI230421, SI230422, SI230423, SI230424, SI230425, SI230426, SI230427, SI230428, SI230429, SI230430, SI230431, SI230434, SI230435, SI230436, SI230437, SI230438, SI230439, SI230440, SI230441, SI230442, SI230443, SI230444, SI230445, SI230447, SI230448, SI230449, SI230450, SI230451, SI230452, SI230453, SI230454, SI230455, SI230456, SI230457, SI230458, SI230459, SI230460, SI230461, SI230462, SI230463, SI230464, SI230465, SI230512, SI230513, SI230514, SI230515, SI230517, SI230518, SI230519, SI230520, SI230521, SI230522, SI230523, SI230524, SI230525, SI230526, SI230527, SI230528, SI230529, SI230530, SI230531, SI230532, SI230533, SI230534, SI230535, SI230536, SI230537, SI230538, SI230539, SI230540, SI230541, SI230542, SI230543, SI230544, SI230545, SI230546, SI230547, SI230548, SI230549, SI230550, SI230551, SI230552, SI230553, SI230554, SI230555, SI230556, SI230557, SI230558, SI230559, SI230560, SI230561, SI230562,

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SI230563, SI230564, SI230565, SI230566, SI230567, SI230568, SI230569, SI230570, SI230571, SI230572, SI230573, SI230574, SI230575, SI230576, SI230577, SI230578, SI230579, SI230580, SI230581, SI230582, SI230583, SI230584, SI230585, SI230586, SI230587, SI230588, SI230589, SI230590, SI230591, SI230592, SI230593, SI230594, SI230595, SI230596, SI230597, SI232504, SI232505, SI232506, SI232507, SI232508, SI232509, SI232510, SI232511, SI232512, SI232513, SI232514, SI232515, SI232516, SI232517, SI232518, SI232519, SI232520, SI232521, SI232522, SI232523, SI232524, SI232525, SI232526, SI232527, SI232528, SI232529, SI232530, SI242754, SI242755, SI242756, SI242757, SI242758, SI242759, SI242760, SI242761, SI242762, SI242763, SI242764, SI242765, SI242766, SI242767, SI242768, SI242769, SI242770, SI242771, SI242772, SI242773, SI242774, SI242775, SI242776, SI242777, SI242778, SI242779, SI242781, SI242782, SI242783, SI242784, SI242826, SI242831, SI242832, SI242833, SI242834, SI242835, SI242836, SI242837, SI242838, SI242839, SI242840, SI242841, SI242842, SI242843, SI242844, SI242845, SI242846, SI242847, SI242848, SI242849, SI242850, SI242851, SI242852, SI242853, SI242854, SI242855, SI242856, SI242857, SI242858, SI242859, SI242860, SI242861, SI242862, SI242863, SI242864, SI242865, SI242866, SI242867, SI242868, SI242869, SI242870, SI242871, SI242872, SI242873, SI242874, SI242875, SI242877, SI242878, SI242879, SI242880, SI242881, SI242882, SI242883, SI242884, SI242885, SI242886, SI242887, SI242888, SI242889, SI242890, SI242891, SI242892, SI242893, SI242894, SI242895, SI242896, SI242897, SI242898, SI242899, SI242900, SI242901, SI242902, SI242903, SI242904, SI242905, SI242906, SI242907, SI242908, SI242909, SI242910, SI242911, SI242912, SI242913, SI242914, SI242915, SI242916, SI242917, SI242918, SI242919, SI242920, SI242921, SI242922, SI242923, SI242924

**4. History information for NSI-1000 hardware and software**

Shipped from NSR	Hardware in transponder		Firmware versions	
	Main PCB	Interface PCB	TX version	MKD APP version
Before 14/01/2021	NSI101(early)	NSI105(early)	V1.4.X (last V1.4.9)	V1.1.X (last V1.19)
14/01/2021-04/02/2024	NSI101	NSI105	V1.5.X (last V1.5.3)	V1.3.X (last V1.39)
After 04/02/2024	NSI101A	NSI105A	V2.0.X (last V2.0.4)	V1.5.X (last V1.55)

**Note:**

1. The firmware upgrading in this notice is only applied for those products shipped from NSR since Feb 4<sup>th</sup>, 2024.
2. Difference between NSI101/NSI105 and NSI101A/NSI105A can be seen in attached photos.

**Photos of PCBs**

