

Meeting: 18th Mediterranean AIS Expert Working Group

Place and date: Videoconference, 10 December 2021

Agenda item: AIS data manual retransmission by the MAREX participating Countries

Document number: MAREX 18/9/1

Submitted by Italy

Summary	This document presents the proposed solution for the AIS data manual retransmission to RS by the participating countries.
Action to be taken	As per paragraph 3.
Related documents	a) SSN/LRIT 9.4.4. b) RS instruction on the AIS data manual retransmission (28.10.2021)

1. Introduction

This paper is drafted as follow up to the 17th Mediterranean AIS Expert Working Group meeting (Action Point 13) whereby EMSA, Italy and Norway agreed to draft a document describing solutions on the stored data retransmission. The proposed solution was presented to the Member States at the SSN group meeting (SSN/LRIT 9.4.4).

2. MAREX AIS data manual retransmission

The MAREX solution for the manual retransmission of the stored data by AIS Data Providers¹ is based on the data files transfer by AIS Data Provider and the data uploading by the ICG personnel. To resent the stored data manually to MAREX, the solution requires certain tasks to be performed by the RS administrator and the AIS Data Providers NPR Administrators.

2.1 Member States tasks

- the AIS Data Provider restoring its system after disconnection, should extract the AIS data of the disconnection period from its DB,
- the extracted data shall be prepared in the standard NMEA format, with an IEC TAG Block containing, at minimum, a timestamp in the 'c' parameter for every sentence (example is presented below):
\c:1617167119,i:<O>ES</O>*17\!ABVDM,1,1,7,B,H3EfbW4T1=3000052mjnhP18222t,0*32,
- each VDM sentence must end with the end-of-line special characters "CR FL", as shown in the following picture:

```
\c:1624085998,i:<O>GR</O>*18\!ABVDM,1,1,,B,H70kr:DTCBD623a0000000106220,0*29CRFL
\c:1624086000,s:MONTE_BIGNONE,i:<O>IT</O>*3A\!ABVDM,1,1,0,B,33dRCT50000N9p6HhKT<vgv20DWJ,0*04CRFL
\c:1624086001,i:<O>ES</O>*11\!ABVDM,1,1,,A,H5Vm`j4U>F37:Ug:pIkqmk1PF340,0*6DCRFL
\c:1624086001,i:<O>ES</O>*11\!ABVDM,1,1,,A,34Sbcv5000wTqSRHsmg;SUL00Der,0*4BCRFL
\c:1624085998,i:<O>GR</O>*18\!AIVDM,1,1,,B,B42LVK00000HqAUC2e`03wuUkP06,0*4FCRFL
\c:1624085998,i:<O>GR</O>*18\!ABVDM,1,1,,B,131hS@00iklmaotFJCm2ae104p0,0*38CRFL
```

- the prepared data shall be saved and placed in daily separate files; the files can be optionally zipped,

¹ **Data Provider:** T-AIS network connected to the MAREX regional AIS server

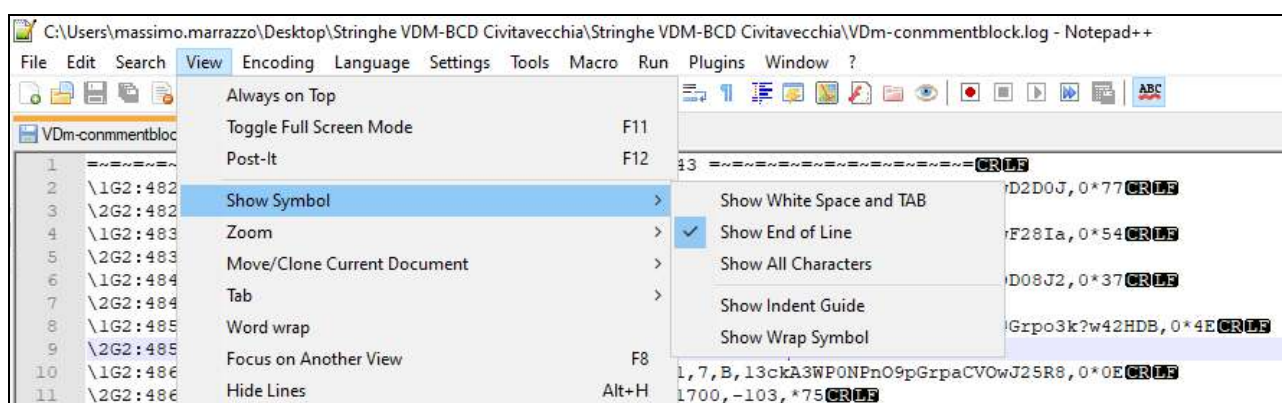
- e. each created file shall be uniquely named (e.g.: “out20210330_11UTC.txt” or, if zipped, then “out20210330_11UTC.txt.zip”),
- f. the created and uniquely named file should be transmitted to MAREΣ via FTP Server. The ICG will provide (upon the AIS Data Provider PoC request) the FTP access credentials (IP, username, and password),
- g. the participating AIS Data Providers should contact MAREΣ 24/7 to agree the starting of data transfer on the FTP Server and communicate when the process is completed.

2.2 MAREΣ RS administrator tasks

- a. receive the AIS Data Provider transmitted data (files),
- b. unzip and upload the received files,
- c. insert the Country origin information (if not provided by the MS) (example is presented below):
`\c:1617167119,i:<O>HR</O>*1B\!ABVDM,1,1,4,B,H02A`N0I4d59<d4000000000000,2*51`
- d. send the filtered information to MAREΣ,
- e. delete files from FTP Server,
- f. confirm the data reception and uploading to the AIS Data Providers.

2.3 Visualisation of the VDM sentence

The AIS Data Providers can visualise the correct form of the VDM sentence using an editing software (e.g., Notepad++), then choose the “View” menu, select “Show Symbol” menu and the preference “Show End of Line”, as shown below:



3. Action Required

MAREΣ participating Countries are invited to inform their AIS Data Providers how to retrieve data from their DBs using the required format.