



Economic Commission for Europe**Inland Transport Committee****Working Party on Inland Water Transport****Working Party on the Standardization of Technical
and Safety Requirements in Inland Navigation****Fifty-seventh session**

Geneva, 24–26 June 2020

Item 8 (a) of the provisional agenda

**Promotion of River Information Services and other Information
and Communication Technologies in inland navigation:****International Standard for Tracking and Tracing
on Inland Waterways (resolution No. 63, revised)****Annexes to the International Standard for Tracking
and Tracing on Inland Waterways
(annex to resolution No. 63, revised)****Note by the secretariat****Mandate**

1. This document is submitted in line with the programme of work of the Transport subprogramme for 2020 (ECE/TRANS/2020/21, chapter IV, table, section A, para. 11) adopted by the Inland Transport Committee at its eighty-second session (ECE/TRANS/294, para. 136).
2. At its fifty-sixth session, the Working Party on the Standardization of Technical and Safety Requirements in Inland Navigation (SC.3/WP.3) started updating of the International Standard for Tracking and Tracing on Inland Waterways (annex to resolution No. 63, revised) and asked the secretariat to finalize the work on new appendices for the revised annex to resolution No. 63 for consideration at its fifty-seventh session, with a view for future adoption by SC.3 (ECE/TRANS/SC.3/WP.3/112, para. 82).
3. SC.3/WP.3 may wish to consider the updated appendices to the annex to resolution No. 63, revised, as contained in annexes I–III below, and decide as appropriate.¹

¹ The amendment proposals to the text of the revised standard transmitted by the Chair of the International VTT Expert Group can be consulted in ECE/TRANS/SC.3/WP.3/2020/7 and in ECE/TRANS/SC.3/WP.3/2020/8.

Annex I

Draft appendix A

Replace the text of annex A, “Definitions”, with the following table and delete the existing annexes A.1 and A.2.

Appendix A

ABBREVIATIONS

<i>Abbreviation</i>	<i>Meaning</i>
AI	Application Identifier
AIS	Automatic Identification System
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASCII	American Standard Code for Information Interchange
ASM	Application Specific Message
AtoN	Aids to Navigation
DAC	Designated Area Code
DGNSS	Differential GNSS
FI	Functional Identifier
GLONASS	(Russian) GLObal NAVigation Satellite System
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
HDG	Heading
IAI	International Application Identifier
ID	Identifier
ITU	International Telecommunication Union
MMSI	Maritime Mobile Service Identifier as referred to in Recommendation ITU-R M585
ROT	Rate Of Turn
Class B SO/CS	Class B mobile stations using either carrier-sense time division multiple access (CSTDMA) technique ('CO'), or Self-organising time division multiple access (SOTDMA) technique ('SO')
SOLAS	Safety of Life at Sea
SQRT	Square root
UTC	Universal Time Coordinated
VHF	Very High Frequency
VTS	Vessel Traffic Services

Annex II

Draft appendix B

Delete the existing annexes B–C.2, renumber annex D as a new appendix B and modify as shown below.

Appendix B

DIGITAL INTERFACE SENTENCES FOR INLAND AIS

D.1 B.1 Input sentences

The serial digital interface of the AIS is supported by existing IEC 61162 sentences ~~and new IEC 61162 similar sentences~~. The detailed descriptions for the digital interface sentences are found in IEC 61162.

~~This annex contains information to be used in order to input the inland specific data (see 2.4 Protocol amendments for Inland AIS) into the Inland AIS shipboard unit. In addition, the following digital interface sentences are defined for Inland AIS mobile station.~~

D.2 B.2 Inland waterway static ship data

~~This sentence is used to enter inland navigation static vessel data into an Inland AIS unit. For setting the inland static vessel data the sentence \$PIWWSSD with the following content is used: change settings, which are not covered by SSD and VSD.~~

~~Replace the first diagram with~~

~~\$PIWWSSD,ccccccc,xxxx,x.x,x.x,x.x,x.x,x.x,x.x,x.x*hh<CR><LF>~~

~~field 1 2 3 4 5 6 7 8 9 10 11~~

<i>Field</i>	<i>Format</i>	<i>Description</i>
1	ccccccc	ENI number
2	xxxx	inland vessel type according to APPENDIX C
3	x.x	length of vessel 0 to 800,0 metre
4	x.x	beam of vessel 0 to 100,0 metre
5	x	quality of speed information 1 = high or 0 = low
6	x	quality of course information 1 = high or 0 = low
7	x	quality of heading information 1 = high or 0 = low
8	x.x	B value for internal reference position (distance reference point to stern)
9	x.x	C value for internal reference position (distance reference point to port side)
10	x.x	B value for external reference position (distance reference point to stern)
11	x.x	C value for external reference position (distance reference point to port side)

D.3 B.3 Inland waterway voyage-related vessel data

This sentence is used to enter inland navigation voyage-related vessel data into an Inland AIS unit ~~mobile station~~. For setting the inland voyage related data, the sentence \$PIWWIVD with the following content is used:

Replace the second diagram with

\$PIWWIVD,x,x,x,x,x,x,x,xxx,xxxx,xxx,x,x,x,x,x,x,x*hh<CR><LF>

field 1 2 3 4 5 6 7 8 9 10 11 12 13

<i>Field</i>	<i>Format</i>	<i>Description</i>
1	x	See Recommendation ITU-R M.1371 Msg 23 reporting interval settings, default set- ting: 0
2	x	number of blue cones: 0-3, 4 = B-Flag, 5 = default = unknown
3	x	0 = not available = default, 1 = loaded, 2 = unloaded, rest not used
4	x.x	static draught of vessel 0 to 20,00 metres, 0 = unknown = default, rest not used
5	x.x	air draught of vessel 0 to 40,00 metres, 0 = unknown = default, rest not used
6	x	number of assisting tugboats 0-6, 7 = default = unknown, rest not used
7	xxx	number of crew members on board 0 to 254, 255 = unknown = default, rest not
8	xxxx	number of passengers on board 0 to 8 190, 8 191 = unknown = default, rest not used
9	xxx	number of shipboard personnel on board 0 to 254, 255 = unknown = default, rest not used
10	x.x	Convoy extension to bow in (metre.decimetre = resolution in dm)
11	x.x	Convoy extension to stern in (metre.decimetre = resolution in dm)
12	x.x	Convoy extension to port side in (metre.decimetre = resolution in dm)
13	x.x	Convoy extension to starboard side in (metre.decimetre = resolution in dm)

Remark: The input sentence \$PIWVSD, which was formerly used in Inland AIS units developed prior these technical specifications, contains the parameter field “blue sign” which may raise conflicts with the parameter field “regional application flags” in the \$ VSD sentence according to IEC 61162-1:VSD AIS voyage static data.

It should no longer be implemented in new AIS transponders. However, for compatibility reasons, it should be supported by external applications.

In case of null fields, the corresponding configuration setting shall not be changed.

Delete the third diagram.

Annex III

Draft appendix C

Renumber annex E as a new appendix C and modify

Appendix C

~~ERI ship types~~ **INLAND VESSEL AND CONVOY TYPES**

This table is used to convert the UN ship types, which are used in Inland Message 10 to the IMO types which are used in IMO Message 5.

This correspondence table is based on an excerpt of the ‘Codes for Types of Means of Transport’ according to UNECE Recommendation 28 and the maritime ship types as defined in Recommendation ITU-R M.1371 ‘Technical characteristics for a universal shipborne automatic identification system using time division multiple access in the VHF maritime mobile band’.

<i>UN ship type Vessel and convoy type</i>		<i>IMO code Maritime ship type</i>	
<i>Code²</i>	<i>Vessel name</i>	<i>First digit</i>	<i>Second digit</i>
8000	Vessel, type unknown	9	9
8010	Motor freighter	7	9
8020	Motor tanker	8	9
8021	Motor tanker, liquid cargo, type N	8	0
8022	Motor tanker, liquid cargo, type C	8	0
8023	Motor tanker, dry cargo as if liquid (e.g. cement)	8	9
8030	Container vessel	7	9
8040	Gas tanker	8	0
8050	Motor freighter, tug	7	9
8060	Motor tanker, tug	8	9
8070	Motor freighter with one or more ships alongside	7	9
8080	Motor freighter with tanker	8	9
8090	Motor freighter pushing one or more freighters	7	9
8100	Motor freighter pushing at least one tank-ship	8	9
8110	Tug, freighter	7	9
8120	Tug, tanker	8	9
8130	Tug, freighter, coupled	3	1
8140	Tug, freighter/tanker, coupled	3	1
8150	Freightbarge	9	9
8160	Tankbarge	9	9

² Note by the secretariat: the first column “USEV/C is deleted, the new column “Code” is formed by the combination of the existing columns “M”, “Code” and “Subdivision”.

<i>UN ship type Vessel and convoy type</i>		<i>IMO code Maritime ship type</i>	
<i>Code²</i>	<i>Vessel name</i>	<i>First digit</i>	<i>Second digit</i>
8161	Tankbarge, liquid cargo, type N	9	0
8162	Tankbarge, liquid cargo, type C	9	0
8163	Tankbarge, dry cargo as if liquid (e.g. cement)	9	9
8170	Freightbarge with containers	8	9
8180	Tankbarge, gas	9	0
8210	Pushtow, one cargo barge	7	9
8220	Pushtow, two cargo barges	7	9
8230	Pushtow, three cargo barges	7	9
8240	Pushtow, four cargo barges	7	9
8250	Pushtow, five cargo barges	7	9
8260	Pushtow, six cargo barges	7	9
8270	Pushtow, seven cargo barges	7	9
8280	Pushtow, eight cargo barges	7	9
8290	Pushtow, nine or more cargo barges	7	9
8310	Pushtow, one tank/gas barge	8	0
8320	Pushtow, two barges at least one tanker or gas barge	8	0
8330	Pushtow, three barges at least one tanker or gas barge	8	0
8340	Pushtow, four barges at least one tanker or gas barge	8	0
8350	Pushtow, five barges at least one tanker or gas barge	8	0
8360	Pushtow, six barges at least one tanker or gas barge	8	0
8370	Pushtow, seven barges at least one tanker or gas barge	8	0
8380	Pushtow, eight barges at least one tanker or gas barge	8	0
8390	Pushtow, nine or more barges at least one tanker or gas barge	8	0
8400	Tug, single	5	2
8410	Tug, one or more tows	3	1
8420	Tug, assisting a vessel or linked combination	3	1
8430	Pushboat, single	9	9
8440	Passenger ship, ferry, red cross ship, cruise ship	6	9
8441	Ferry	6	9
8442	Red cross ship	5	8
8443	Cruise ship	6	9
8444	Passenger ship without accommodation	6	9
8445	Day-trip high speed vessel	6	9

<i>UN ship type Vessel and convoy type</i>		<i>IMO code Maritime ship type</i>	
<i>Code²</i>	<i>Vessel name</i>	<i>First digit</i>	<i>Second digit</i>
8446	Day-trip hydrofoil vessel	6	9
8447	Sailing cruise ship	6	9
8448	Sailing passenger ship without accommodation	6	9
8450	Service vessel, police patrol, port service	9	9
8451	Service vessel	9	9
8452	Police patrol vessel	5	5
8453	Port service vessel	9	9
8454	Navigation surveillance vessel	9	9
8460	Vessel, work maintenance craft, floating derrick, cable-ship, buoy-ship, dredge	3	3
8470	Object, towed, not otherwise specified	9	9
8480	Fishing boat	3	0
8490	Bunkership	9	9
8500	Barge, tanker, chemical	8	0
8510	Object, not otherwise specified	9	9
Extra codes for maritime means of transport			
1500	General cargo vessel maritime	7	9
1510	Unit carrier maritime	7	9
1520	Bulk carrier maritime	7	9
1530	Tanker	8	0
1540	Liquefied gas tanker	8	0
1850	Pleasure craft, pleasure longer than 20 metres	3	7
1900	Fast ship	4	9
1910	Hydrofoil	4	9
1920	Catamaran fast	4	9

Delete annex F.