VTT Expert Group
Update EU VTT standard 2019

21-06-2019
Inland AIS

Repeater

Schiff - Schiff
(Kollisionsvermutung)

Schiff - Land
(VTS, Schiffsmeldung)

Land - Schiff

Revierzentrale

Gebirge

Repeater
REGULATIONS

COMMISSION IMPLEMENTING REGULATION (EU) 2019/838
of 20 February 2019
on technical specifications for vessel tracking and tracing systems and repealing Regulation (EC)
No 415/2007

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2005/44/EC of the European Parliament and of the Council of 7 September 2005 on harmonised river information services (RIS) on inland waterways in the Community (1), and in particular Article 5(1)(d), thereof,

Whereas:

It shall apply from 13 June 2020

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Update EU VTT Standard

Previous EU VTT Standards (not applicable anymore)

Actual UNECE VTT Standard
• Resolution No. 63 International Standard for Tracking and Tracing on Inland Waterways (VTT)

Actual CCNR VTT Standards
• Standard für Schiffsverfolgung und Aufspürung in der Binnenschifffahrt, Edition 1.2; 23.4.2013
• CESNI Test Standard Inland AIS, Edition 2017/2.0
Update EU VTT Standard

Aim

• Streamlining of EU VTT Standard
• Focus on technical definition of Inland AIS mobile station
• Include only functions which are implemented into Inland AIS mobile station

Approach

• Update definitions and references: chapter 1
• Ease/shorten the general requirements: chapter 2
• Keep technical requirements unchanged: chapter 3
• Add technical requirements for AIS Class B: chapter 4
• Add technical requirements for Inland AIS AtoN: chapter 5
• Update Appendix C - Inland vessel and convoy types
Consequences

- For general requirements on VTT refer to other RIS related documents e.g. EU RIS Directive or RIS Guidelines

Inland AIS mobile station

- Technical functionality of Inland AIS mobile station remains unchanged
- ASM integrated into Inland AIS mobile station:
  - Inland ship static and voyage related data
  - Inland person on board
- Inland AIS Test standard remains unchanged
- Type approval remains valid
Consequences

ASM external / not integrated into Inland AIS mobile station

- ASM like ETA/RTA, water level, EMMA warning, signal status, etc. will be moved to:
  - Inventory for harmonised Inland AIS ASM in Europe published by the VTT EG ([www.ris.eu/expert_groups/vtt](http://www.ris.eu/expert_groups/vtt))
- New ASM will be included in the for harmonised Inland AIS ASM in Europe ([www.ris.eu/expert_groups/vtt](http://www.ris.eu/expert_groups/vtt))

AIS Aids to Navigation (AIS AtoN) report in Inland navigation

- List of Inland Aids to Navigation (AtoN) codes for use in AIS Message 21 published by the VTT EG ([www.ris.eu/expert_groups/vtt](http://www.ris.eu/expert_groups/vtt))
Inland AIS ASMs:

- Water levels message
- ETA/RTA
- Vertical bridge clearance message
- Signal lights message
- Maritime Geographic Notice message
- Text Message with ISRS code
- Convoy message
- Control message
- ASM capability request
- ASM capability response
Application Specific Message

Vertical bridge clearance

<table>
<thead>
<tr>
<th>Country</th>
<th>Waterway</th>
<th>Kilometer</th>
<th>Bridge</th>
<th>Bridge clearance</th>
<th>Accuracy</th>
<th>Measurement time</th>
<th>Older than 12 h</th>
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</thead>
<tbody>
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<td>Schleusenbrücke Abwinden-A...</td>
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<td>Eisenbahnbriücke Wittenberge</td>
<td>4 m</td>
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<td>24.05.2019 03:24:00</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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Developments

ASM

Signal station
Warning, when the cable ferry is crossing

Indication of a virtual caution area while a ferry (here cable ferry) is crossing

Cable ferry at the river Elbe

Virtual caution area while the ferry is crossing

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Warning, when the vertical bridge clearance is low

Indication of currently limited vertical clearance under bridges (depending on water level)

Reference gauge

Virtual caution area is indicating low vertical clearance

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AIS Aids to Navigation Report Message (AIS AtoN)

- Inland AtoN Codes for Use in AIS Message 21

Visualisation of AIS information

- Technical requirements for the processing and visualisation of Inland AIS related data in inland ECDIS Displays
Physical Inland AIS AtoN on position

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Developments

Physical Inland AIS AtoN off position / missing

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Virtual AIS AtoN, with direction of impact

**Virtual AtoN - No Entry (Dir of impact):**
Kombination of two signs with the same reference point:
inner symbol: head up
outer symbol: oriented to the direction of impact
EU VTT Standard


Next steps:

• Provide updated EU VTT standard to other international bodies: CCNR, UNECE and CESNI
• Support update of UNECE Resolution No 63 (VTT)
• Support update of AIS Test Standards at CESNI/ES-TRIN
• Publish Inventory for European ASM
• Publish Table of additional Inland AIS AtoN types

20.06 2019
Thank you for your attention

Stefan Bober
E-Mail: Stefan.Bober@wsv.bund.de