



WP1A2 – Questionnaire for Availability and Use of Communication Technologies

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Abbreviations / acronyms

Name	Definition
AIS	Automatic Identification System
RF	Radio Frequency
RIS	River Information Service

References

Key	Reference

Confidentiality

Public	
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This document corresponds to the action WP1A2 of Numerical project (CETIC deliverable).

The aim of the document is to propose a list of questions that help to identify the available communication technologies alongside rivers and canals. The questionnaire should allow structuring the collection of information from the different partners in the concerned regions.

In Sections 1, 2, 3, we investigate specific technologies as AIS, RIS and others that are deployed or planned to be deployed in the corresponding region and the associated regulation rules. In Section 4, questions are related to technologies available for deployment of new services.

1 Automatic Identification System - AIS

1.1 Is AIS deployed in your region?

1.2 What is the coverage of AIS in your region?

Please precision the AIS coverage. Which canals and rivers are covered for example?

1.3 Is there any plan to deploy or to improve the coverage of AIS in your region? If yes, what is the corresponding agenda?

1.4 What are the parameters of the deployed AIS?

Please precise at least the class of AIS communication (Class A or Class B)

1.5 What is the authority in charge of AIS in your region?

1.6 What are the categories of vessel concerned?

1.7 For each concerned category, precise if AIS is mandatory or recommended by your authority.

1.8 What is the percentage of AIS use in your region?

1.9 What are the additional services based on AIS?

AIS allows sending application specific message for providing additional information like weather info, locks, water levels, etc.

If relevant, please describe these services (kindly provide pointers to corresponding information).

1.10 Are there specific equipment recommended or required by your local authorities?

1.11 Have they specific features out of AIS like user defined messages,...?

2 River information Services - RIS

2.1 *What are the RIS services currently available in your region?*

Please list the available RIS services in your region.

2.2 *Is there any plan to deploy new RIS services in your region? If yes, what is the corresponding agenda?*

2.3 *For each service:*

2.3.1 **Which is the targeted users/vessels, what is the quality level?**

Please describe the service, its objectives, its implementation (please link to the documentation, if possible). Provide information about the required resources like minimum bandwidth, screen for cartography, etc.

2.3.2 **What is the communication technology used by the service?**

For example, AIS for localisation, WiFi,..

2.3.3 **Which is the coverage of this service?**

2.3.4 **What is the quality of information provided by the service?**

For example, if real-time, what is the precision, etc.

2.3.5 **What is the authority or the organisation that hosts the service?**

2.3.6 **Are there specific equipment that are required to support the service?**

2.3.7 **For the service, do exchanges take place with authorities of other regions?**

For example for trans-border information, security, booking resources (e.g. locks) in the other regions,..

Please describe these links (which authority, type of exchange information, means of communication).

3 Other technology dedicated to navigation support

If relevant, describe other specific communication systems used for navigation (if you use a specific technology rather than the standards ones).

3.1 *What is (are) this (these) technology (ies)?*

Please describe for each technology:

- The objective (e.g. localisation,..)
- The under-layered communication technology
- The nature of exchanged data (functional description of messages)

3.2 *What is the future of this (these) technology (ies)?*

Please describe the goal of the technology in respect of European recommendations. Is there any plan to replace the technology by other standard technology? Agenda?

4 Generic communication technologies

In this Section, questions are related to technologies available for deployment of new services.

4.1 *Identify the available technologies*

Please select all available technologies in the following list

- 2,5G (GPRS/EDGE)
- 3G (UMTS/W-CDMA, HSPA/LTE)
- 4G
- WiFi
- Wimax
- Specific RF networks
- Fixed line technologies (available in harbours or other places)

4.2 *For each technology:*

4.2.1 **Identify the different operators**

Please list the operators.

4.2.2 **For each operator:**

4.2.2.1 **Identify the relevant offers**

- Announced performance (bandwidth)
- Selected frequency when relevant (e.g. for 3G, 850-900 MHz vs. 1.8 GHz)
- Data: > 5MB per month, or pay as you go,..

4.2.2.2 **What is the corresponding coverage available today?**

4.2.2.3 **Is there any plan to deploy or to improve the coverage of the technology in your region? If yes, what is the corresponding agenda?**