Central Commission for Navigation on the Rhine (CCNR)
Standard Notices to Skippers

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22.10.2008

Notices to Skippers for Inland Navigation
International Standard
Contents

Preface ......................................................................................................................................... 5
Edition Overview ........................................................................................................................... 5
Abbreviations ................................................................................................................................ 5
1. Introduction .......................................................................................................................... 6
2. Data standard ....................................................................................................................... 7
3. Water level information ...................................................................................................... 7
4. Way of distribution .............................................................................................................. 7
5. Online weather messages ................................................................................................. 8
6. Procedure for changes in the reference tables and the XML scheme of Notices to Skippers .................................................................................................................................. 9
7. Structure of the messages and coding in XML-format ....................................................... 9
  7.1. Structure of the Notices to Skippers ................................................................................... 9
  7.2. Coding in XML-format ........................................................................................................ 11
    7.2.1 XML definition overview ..................................................................................................... 11
    7.2.2 Explanation of tags ............................................................................................................. 17
    7.2.3 Explanation of codes .......................................................................................................... 17
    7.2.3.1 Subject codes assigned to the Notices to Skippers ......................................................... 17
    7.2.3.2 Explanation of ice codes ................................................................................................. 19
    7.2.3.3 Encoding of limitation periods .......................................................................................... 19
Appendix A Specifications of examples for the implementations of the Notices to Skippers Standard
Appendix B Interface Design Specification Online Hydro-Meteo Information
Appendix C Reference tables
Appendix D XML-scheme
Preface

In the recent years many countries have implemented internet-services for notices to skippers. Most of the existing services are providing information in the national language. As many notices are safety related or very important for the planning of voyages, the availability of all the notices for European waterways in all the languages would contribute to increasing safety and competitiveness of Inland Navigation.

This standard has been developed by the “Notices to Skippers Expert Group”.

Edition overview

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<th>Date</th>
<th>Description</th>
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<td>28.5.2004</td>
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Each document version is identified bottom left on each page.

Abbreviations

ENC       | Electronic Navigational Chart           
FIS       | Fairway Information System             
Inland ECDIS | Inland Electronic Chart Display and Information System |
GIW       | Gleichwertiger Wasserstand             
RNW       | Regulierungsniwerwasserstand           
WGS 84    | Wold Geodetic System 1984              
XML       | Extended Markup Language               

1. Introduction

In the following, the primary functions and performance requirements are described.

Fairway Information Services (FIS) contain geographical, hydrological and administrative data that are used by skippers and fleet managers to plan, execute and monitor a trip. FIS provide dynamic information (e.g. water levels, water level predictions etc.) as well as static information (e.g. regular operating times of locks and bridges) regarding the use and status of the inland waterway infrastructure, and thereby support tactical and strategic navigation decisions.

Traditional means to supply FIS are e.g. visual aids to navigation, notices to skippers on paper, broadcast and fixed telephone on locks. The mobile phone using GSM has added new possibilities of voice and data communication, but GSM is not available in all places and at all times. Tailor-made FIS for the waterways can be supplied by radiotelephone service on inland waterways, Internet service or electronic navigational chart service (e.g. Inland ECDIS with ENC).

The following technical specifications for Notices to Skippers provide rules for the data transmission of fairway information via Internet service.

The standardization of Notices to Skippers will
- provide automatic translation of the most important content of notices in all the languages of the participating countries,
- provide a standardised structure of data-sets in all the participating countries to facilitate the integration of notices in voyage-planning systems,
- provide a standard for water level information,
- be compatible with the data-structure of Inland ECDIS to facilitate integration of Notices to Skippers in Inland ECDIS,
- facilitate data-exchange between different countries,
- use standard vocabulary in combination with code lists.

It will not be possible to standardize all the information, which is contained in Notices to Skippers. Part of the information will be provided as “free text” without automatic translation. The standardized part should cover all the information which is
- important for the safety of Inland Navigation (for example: sunken small craft on the right side of the fairway at the Danube, river-km 2010)
- needed for voyage planning (for example: closure of locks, reduction of vertical clearance, ...)

Additional information (for example: cause of the closure of a lock) can be given as free text.
2. Data standard

Notices to Skippers shall be provided according to chapter 7, Structure of the messages and coding in XML-format.

In order to enable a broad applicability, the XML message definition contains a wide range of elements. The message is structured into entities (tags), such as sections, groups, subgroups and data elements. The use of free text in the data elements should be restricted to a minimum. Wherever possible, data elements are encoded (standardised). The XML message definition defines the structure of the XML message and the codes. The standardized code values, their explanation and translation into 24 languages are provided in reference tables.

A XML-template the XML-scheme, for Notices to Skippers which is based on the XML definition and the standardized code values contains a complete definition for all the XML elements including possible formats and code values.

In order to obtain a machine-readable XML message one has to fill out the empty fields in the XML-scheme (free text) and to select the code values from the value lists provided in the XML-scheme.

The reference tables and the XML scheme of Notices to Skippers are published by the CCNR at http://www.ccr-zkr.org/.

3. Water level information

Water level information is very important for voyage planning as well as safety. At the moment there is no common standard of referencing water level information (Germany for example is using the GIW, “gleichwertiger Wasserstand”, the Danube Commission is recommending the RNW, Regulierungsniederewasserstand, which is defined slightly different. The vertical clearance is mostly referred to a high water level, but sometimes to low water level. The values of gauges are referring to different sea-levels or to special reference points). Therefore it is not possible to integrate water level information in systems for automatic calculation of clearances.

The reference tables for Notices to Skippers (Appendix C) contain a list of gauges relevant for inland navigation with their reference values. The water level information in the message can be referred to the zero point of a gauge, as it has been done in the past, and the on-board software can calculate the absolute height by use of the reference data of the standard.

4. Way of distribution

Member States shall ensure that Notices to Skippers are provided according to this standard in XML-format downloadable in the Internet. In order to enable a specific download, Internet services should provide a possibility to select:
- a specific waterway section (fairway section number of the ID according to Table 1) or
- a specific part of a waterway, defined by the river-km (fairway hectometer of the ID according to Table 1) of the starting and the end point;
- a time of validity (starting date and end date according to Table 1) and
- a date of publication of the notice (date of publication according to Table 1).
Notices according to this standard can additionally be provided for example by
- WAP (Wireless Application Protocol) services,
- E-mail services,
- web services\(^1\).

Data exchange between the authorities is recommended. All the authorities using this standard can integrate Notices to Skippers of other authorities and countries in their own services. The participating parties (authorities) can agree the procedure of transmitting the XML messages by push or pull services directly.

5. **Online weather messages**

Nowadays a number of hydro-meteo items are measured continuously in most tidal waters and on many of the other inland waterways and distributed online. The primary purpose of these measurements usually is for the water (-way) authorities. The distribution of this data to users like the skippers of inland waterway vessels varies greatly. For the relatively slow varying water levels of non-tidal rivers the existing standard for Notices to Skippers includes standardised water level messages, which are distributed to the skippers once or twice a day and sometimes more frequent for example during periods of high water. The European inland waterways however also include a large area of tidal waters with continuously fluctuating water levels, not only because of the tide but also under the influence of for example wind. The last meteorological phenomena also can cause large water level variations in canal systems resulting in dramatic variations in for example bridge heights.

At the end of last century the Dutch and Flemish governments developed the so-called Hymedis system initially to support a safe passage of deep draft vessels during their transit of the River Scheldt. Hymedis is an interface between already existing hydro-meteo measurement networks on the River Scheldt and along the Belgium and Dutch (south) coast. Hymedis allows pilots, vessel traffic services and patrol boats to receive hydro-meteo information online via an Internet application (stand-alone java applet), an adapted ECS application and a WAP application on a mobile phone or PDA.

Given the enthusiastic reception of Hymedis by the pilots and patrol vessels it became clear that also skippers of inland barges would be potential users. For this reason a pilot project was started in which also inland barges were provide with an Inland ECDIS application with online connection to Hymedis allowing for example online correction for displayed water depths. The outcome of the pilot was that also the skippers very much appreciated the online connection to real-time measurements. The information of Hymedis that was included in the project, greatly enhanced safety by offering a greater separation of inland waterway traffic and seagoing traffic on the River Scheldt. This was achieved by at the same time providing the participating inland barges with highly detailed depth information in dedicated Inland ENCs.

\(^1\) In 2008 a standardized method for exchanging notices to skippers by means of Web Service (WS) technology is under elaboration. WS will enable an easier and more secure method for exchanging notices to skippers.
Circumstances similar to the River Scheldt can be found in for example the River Seine, the Wadden coast, and the estuaries of the River Ems, Weser, Jade and Elbe. Therefore, Appendix B provides a standard for the interface between online hydro-meteo networks and on-board applications.

The specification of dedicated weather messages for inland navigation and their distribution as Notices to Skippers is covered by chapter 7.

The member states are not required to provide weather data.

6. Procedure for changes in the Reference Tables and the XML Scheme of Notices to Skippers

Proposals for amendments to the reference tables or the XML scheme have to be sent together with an explanation, why the amendment is needed to the chairperson of the Notices to Skippers expert group.

The chairperson shall distribute the proposal to the members of the expert group as well as to the secretariat of the CCNR. As regards the expert group, the amendment procedure as defined in the Terms of Reference for the Notices to Skippers expert group shall apply.

The secretariat of the CCNR will proceed with the amendment in accordance with the procedures established by the CCNR. In this context, one shall take due account of the work of the expert group.

If a proposal for amendment is adopted, the updated reference tables and XML scheme are published by the CCNR [http://ccr-zkr.org](http://ccr-zkr.org).

7. Structure of the messages and coding in XML-format

This chapter describes the structure and formatting of standardized electronic Notice to Skippers messages.

7.1 Structure of the Notices to Skippers

Notices to Skippers have the following information sections:

- Identification of the message;
- Fairway and traffic related message;
- Water level related messages as:
  - Water level messages,
  - Least sounded depth – messages,
  - Vertical clearance – messages,
  - Barrage status – messages,
  - Discharge messages,
  - Regime messages,
  - Predicted water level – messages,
  - Least sounded predicted depth – messages,
  - Predicted discharge – messages;
- Ice message;
- Weather message.
Figure 1: Notice to Skippers message structure
A standardized message in XML-format contains therefore 5 different sections:
- Message identification,
- Fairway and traffic related messages,
- Water level related messages,
- Ice messages,
- Weather messages.

Normally in one message only 2 sections will be filled: The identification section and at least one of the sections: fairway and traffic related message, water level related message, ice message or weather message (mix of sections, different type of message information is not allowed).

The fairway and traffic related section contains limitations for a fairway (link) or an object. The diagram also shows that a Notice to Skippers relates to a fairway or a geographical object (point). If the message is about an object the fairway section shall be filled with the related fairway information without the limitation section.

If a notice contains different limitations for different target groups or different communication information for different limitations, several fairway and traffic related sections with the same number can be used.

The Water level related message section contains measurements for an Object usually a tide gauge.

The Ice message section contains information about the ice conditions for a fairway (link).

The Weather message contains information about the weather conditions for a fairway (link).

7.2 Coding in XML-format

7.2.1 XML definition overview

This section gives an overview of the definition of the message coded in XML. Appendix D contains a complete definition for all the XML elements including the possible formats.
Table 1, XML message specification

<table>
<thead>
<tr>
<th>Nr.</th>
<th>Tag (Group headers and closers are bodily printed)</th>
<th>Description</th>
<th>Mandatory</th>
<th>Conditional</th>
<th>Rule applicable</th>
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<tbody>
<tr>
<td>1s</td>
<td>&lt;identification&gt;</td>
<td>Identification section</td>
<td>M</td>
<td>C</td>
<td>1</td>
</tr>
<tr>
<td>1.1</td>
<td>&lt;from&gt;String&lt;/from&gt;</td>
<td>Sender of the message</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>&lt;originator&gt;Riza&lt;/originator&gt;</td>
<td>Originator (initiator) of the information in this message</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>&lt;country_code&gt;CH&lt;/country_code&gt;</td>
<td>Country where message is valid</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>&lt;language_code&gt;HU&lt;/language_code&gt;</td>
<td>Original language used in the textual info. (contents)</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>&lt;district&gt;WaddenZee&lt;/district&gt;</td>
<td>District / Region within the specified country, where the message is applicable</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.6</td>
<td>&lt;date_issue&gt;20011231&lt;/date_issue&gt;</td>
<td>Date of editing</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.7</td>
<td>&lt;time_issue&gt;1145&lt;/time_issue&gt;</td>
<td>Time of editing</td>
<td>C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| 2s  | &lt;ftm&gt; Fairway and traffic related section      | Year of first issuing of the notice | M         |             | 1              |
| 2.1 | &lt;year&gt;2001&lt;/year&gt;                               | Original notice: 00 | M         |             |                |
| 2.2 | &lt;number&gt;9999&lt;/number&gt;                           | Serial number of the notice (per year) | M         |             |                |
| 2.3 | &lt;serial_number&gt;99&lt;/serial_number&gt;             | Serial number of the notice (replacements and withdrawals). | M         |             |                |
| 2.4s| &lt;target_group&gt;                                 | Target group information | C         |             |                |
| 2.4.1| &lt;target_group_code&gt;ALL&lt;/target_group_code&gt;    | Target group (vessel type) for this message | M         | Default: all|                |
| 2.4.2| &lt;section_code&gt;ALL&lt;/section_code&gt;              | Upstream or downstream traffic, or both | M         | Default: all|                |
| 2.5 | &lt;subject_code&gt;OBSTRU&lt;/subject_code&gt;          | Subject code | M         |             |                |
| 2.6s| &lt;validity_period&gt;                              | Overall period of validity | M         |             |                |
| 2.6.1| &lt;date_start&gt;20011231&lt;/date_start&gt;             | Start date of validity period | M         |             |                |
| 2.6.2| &lt;date_end&gt;99999999&lt;/date_end&gt;                 | End date of validity period (indefinite: 99999999) | M         |             |                |
| 2.6e| &lt;contents&gt;String&lt;/contents&gt;                    | Contents / notice text in original language | C         |             |                |
| 2.7 | &lt;source&gt;String&lt;/source&gt;                        | Notice source (authority) | C         |             |                |
| 2.9 | &lt;reason_code&gt;REPAIR&lt;/reason_code&gt;             | Reason / justification of notice | C         |             |                |
| 2.10s| &lt;communication&gt;                               | Communication channel information | C         |             |                |
| 2.10.1| &lt;reporting_code&gt;NN&lt;/reporting_code&gt;          | Reporting regime (information or duty to report) | M         | 5           |                |
| 2.10.2| &lt;communication_code&gt;TEL&lt;/communication_code&gt; | Communication code (telephone, VHF etc.) | M         | 5           |                |
| 2.10.3| &lt;number&gt;String&lt;/number&gt;                        | Telephone, VHF number, e-mail address, URL or teletext | C         | 5           |                |
| 2.10e| &lt;communication&gt;                               |                          | C         |             |                |
| 2.11s| &lt;fairway_section&gt;                             | Fairway section, also available for objects (no. 2.12) | M         |             | 2              |
| 2.11.1| &lt;geo_object&gt;                                  | Geo information of fairway | M         |             |                |
| 2.11.1.1| &lt;string&gt;String&lt;/string&gt;                       | Unique id of the fairway section (1x or 2x) | M         |             |                |
| 2.11.1.2| &lt;name&gt;String&lt;/name&gt;                           | (Local) Name of the fairway section (i.e.: Rhine between bridge A and bridge B) | M         |             |                |
| 2.11.1.3| &lt;type_code&gt;WY&lt;/type_code&gt;                     | Type of geographical object | M         | Default: PWY|                |
| 2.11.1.4s| &lt;coordinates&gt;                                | Fairway section begin and end coordinates (2x) | M         | 5           |                |
| 2.11.1.4.1| &lt;lat&gt;42 34.1234 N&lt;/lat&gt;                      |                                | M         |             |                |
| 2.11.1.4.2| &lt;long&gt;123 45.1234 E&lt;/long&gt;                    |                                | M         |             |                |
| 2.11.1.4e| &lt;coordinates&gt;                                |                                | C         |             |                |
| 2.11.1e| &lt;geo_object&gt;                                  |                                | C         |             |                |
| 2.11.2s| &lt;limitation&gt;                                 | Fairway section limitations | C         |             |                |
| 2.11.2.1s| &lt;limitation_period&gt;                          | Limitation periods / intervals | C         |             |                |
| 2.11.2.1.1| &lt;date_start&gt;20011231&lt;/date_start&gt;            | Start date of limitation period (overall) | M         | 5           |                |
| 2.11.2.1.2| &lt;date_end&gt;20011231&lt;/date_end&gt;                | End date of limitation period | C         |             |                |
| 2.11.2.1.3| &lt;time_start&gt;1420&lt;/time_start&gt;                | Start time of limitation period | C         |             |                |
| 2.11.2.1.4| &lt;time_end&gt;0500&lt;/time_end&gt;                    | End time of limitation period | C         |             |                |</p>
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<tr>
<th>Nr.</th>
<th>Tag (Group headers and closers are boldly printed)</th>
<th>Description</th>
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<th>Conditional</th>
<th>Rule applicable</th>
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<tr>
<td>2.11.2.1.5</td>
<td>&lt;interval_code&gt;SAT&lt;/interval_code&gt;</td>
<td>Interval for limitation if applicable</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.11.2.1.e</td>
<td>&lt;/limitation_period&gt;</td>
<td>Kind of limitation</td>
<td>M</td>
<td>5</td>
<td>AL</td>
</tr>
<tr>
<td>2.11.2.3</td>
<td>&lt;position_code&gt;AL&lt;/position_code&gt;</td>
<td>Position, which side</td>
<td>M</td>
<td>5, default: AL</td>
<td></td>
</tr>
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<td>2.11.2.4</td>
<td>&lt;value&gt;3.14159&lt;/value&gt;</td>
<td>Value of limitation (i.e. max draught)</td>
<td>C</td>
<td></td>
<td></td>
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<td>2.11.2.5</td>
<td>&lt;reference_code&gt;NAP&lt;/reference_code&gt;</td>
<td>Value reference</td>
<td>C</td>
<td></td>
<td></td>
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<tr>
<td>2.11.2.6</td>
<td>&lt;indication_code&gt;MAX&lt;/indication_code&gt;</td>
<td>Indication of the type of value (select a code from the reference table)</td>
<td>C</td>
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<td></td>
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<td>&lt;/limitation&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.11.e</td>
<td>&lt;/fairway_section&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2.12.s</td>
<td>&lt;object&gt;</td>
<td>Object section ()</td>
<td>C</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2.12.1.s</td>
<td>&lt;geo_object&gt;</td>
<td>Geo Information of object</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
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<td>2.12.1.1</td>
<td>&lt;id&gt;String&lt;/id&gt;</td>
<td>Unique id of the geographical object</td>
<td>M</td>
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<td></td>
</tr>
<tr>
<td>2.12.1.2</td>
<td>&lt;name&gt;String&lt;/name&gt;</td>
<td>(Local) Name of the geographical object</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2.12.1.3</td>
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<td>Type of geographical object</td>
<td>M</td>
<td>5</td>
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<td>&lt;coordinate&gt;</td>
<td>Object coordinates (1x or 2x)</td>
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<td>8</td>
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</tr>
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<td></td>
<td>C</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2.12.1.4.2</td>
<td>&lt;long&gt;123 45.1234 E&lt;/long&gt;</td>
<td></td>
<td>C</td>
<td>5</td>
<td></td>
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<td>2.12.1e</td>
<td>&lt;/coordinate&gt;</td>
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<td>Object limitation section</td>
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<td></td>
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<tr>
<td>2.12.2.1.s</td>
<td>&lt;limitation_period&gt;</td>
<td>Limitation periods / intervals (see &lt;fairway_section&gt;)</td>
<td>M</td>
<td>5</td>
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</tr>
<tr>
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<td>M</td>
<td>5</td>
<td></td>
</tr>
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<td></td>
<td>C</td>
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<td></td>
</tr>
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<td>2.12.2.1.3</td>
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<td></td>
<td>C</td>
<td>5</td>
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</tr>
<tr>
<td>2.12.2.1.4</td>
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<td></td>
<td>C</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2.12.2.1.5</td>
<td>&lt;interval_code&gt;SAT&lt;/interval_code&gt;</td>
<td></td>
<td>C</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2.12.2.2</td>
<td>&lt;limitation_code&gt;OBSTRU&lt;/limitation_code&gt;</td>
<td></td>
<td>M</td>
<td>5, default: AL</td>
<td></td>
</tr>
<tr>
<td>2.12.2.3</td>
<td>&lt;position_code&gt;AL&lt;/position_code&gt;</td>
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</tr>
<tr>
<td>2.12.2.5</td>
<td>&lt;reference_code&gt;NAP&lt;/reference_code&gt;</td>
<td></td>
<td>C</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2.12.2.6</td>
<td>&lt;indication_code&gt;MAX&lt;/indication_code&gt;</td>
<td></td>
<td>C</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2.12.2e</td>
<td>&lt;/limitation&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.12.e</td>
<td>&lt;/object&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3s</td>
<td>&lt;wrm&gt;</td>
<td>Water level related section</td>
<td>C</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3.1s</td>
<td>&lt;validity_period&gt;</td>
<td>Overall period of validity of water level message</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.1.1</td>
<td>&lt;date_start&gt;20011231&lt;/date_start&gt;</td>
<td>Start date of validity period</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3.1.2</td>
<td>&lt;date_end&gt;20011231&lt;/date_end&gt;</td>
<td>End date of validity period</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3.1e</td>
<td>&lt;/validity_period&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.2s</td>
<td>&lt;geo_object&gt;</td>
<td>Geo Information of measurement location, tide gauge</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3.2.1</td>
<td>&lt;name&gt;String&lt;/name&gt;</td>
<td>(Waterway section) (Local) Name of the geographical object</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3.2.2</td>
<td>&lt;type_code&gt;FWY&lt;/type_code&gt;</td>
<td>Type of geographical object</td>
<td>M</td>
<td>5, default: FWY</td>
<td></td>
</tr>
<tr>
<td>3.2.4s</td>
<td>&lt;coordinate&gt;</td>
<td>Object coordinates (1x or 2x)</td>
<td>C</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>3.2.4.1</td>
<td>&lt;lat&gt;42 34.1234 N&lt;/lat&gt;</td>
<td></td>
<td>C</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>3.2.4.2</td>
<td>&lt;long&gt;123 45.1234 E&lt;/long&gt;</td>
<td></td>
<td>C</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>3.2.e</td>
<td>&lt;/coordinate&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>&lt;reference_code&gt;NAP&lt;/reference_code&gt;</td>
<td>Value reference (measurement reference)</td>
<td>C</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3.4s</td>
<td>&lt;measure&gt;</td>
<td>Measurements (normal or predicted values)</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3.4.1</td>
<td>&lt;predicted&gt;1&lt;/predicted&gt;</td>
<td>Predicted measurement (1) or real measurement (0)</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3.4.2</td>
<td>&lt;measure_code&gt;DIB&lt;/measure_code&gt;</td>
<td>Kind of water level related information</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3.4.3</td>
<td>&lt;value&gt;3.14159&lt;/value&gt;</td>
<td>Value</td>
<td>C</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Nr.</td>
<td>Tag (Group headers and closers are boldly printed)</td>
<td>Description</td>
<td>Mandatory</td>
<td>Conditional</td>
<td>Rule applicable</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------------------------------------</td>
<td>-------------</td>
<td>-----------</td>
<td>-------------</td>
<td>----------------</td>
</tr>
<tr>
<td>3.4.4</td>
<td>&lt;difference&gt;314159&lt;/difference&gt;</td>
<td>Difference with previous measurement</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.4.5</td>
<td>&lt;barrage_code&gt;OPD&lt;/barrage_code&gt;</td>
<td>Barrage status</td>
<td>C</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>3.4.6</td>
<td>&lt;regime_code&gt;HIG&lt;/regime_code&gt;</td>
<td>Regime applicable</td>
<td>C</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>3.4.7</td>
<td>&lt;measuredate&gt;20011231&lt;/measuredate&gt;</td>
<td>Date of measurement</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3.4.8</td>
<td>&lt;measuretime&gt;1420&lt;/measuretime&gt;</td>
<td>Time of measurement</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3.4e</td>
<td>&lt;/measure&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4s</td>
<td>&lt;icem&gt;</td>
<td>Ice related section</td>
<td>C</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4.1s</td>
<td>&lt;validity_period&gt;</td>
<td>Overall period of validity of ice information</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1.1</td>
<td>&lt;date_start&gt;20011231&lt;/date_start&gt;</td>
<td>Start of validity period</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>4.1.2</td>
<td>&lt;date_end&gt;20011231&lt;/date_end&gt;</td>
<td>End of validity period</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>4.1e</td>
<td>&lt;/validity_period&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.2s</td>
<td>&lt;fairway_section&gt;</td>
<td>Fairway</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>4.2.1</td>
<td>&lt;geo_object&gt;</td>
<td>Geo Information of fairway location</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>4.2.2</td>
<td>&lt;condition&gt;</td>
<td>Type of geographical object</td>
<td>M</td>
<td>5, default: FWY</td>
<td></td>
</tr>
<tr>
<td>4.2.3</td>
<td>&lt;measuredate&gt;20011231&lt;/measuredate&gt;</td>
<td>Date of measurement</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>4.2.4</td>
<td>&lt;measuretime&gt;1420&lt;/measuretime&gt;</td>
<td>Time of measurement</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>4.2e</td>
<td>&lt;/measure&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.3s</td>
<td>&lt;ice_condition&gt;</td>
<td>Ice conditions</td>
<td>C</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4.3.1</td>
<td>&lt;measuredate&gt;20011231&lt;/measuredate&gt;</td>
<td>Date of measurement</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>4.3.2</td>
<td>&lt;measuretime&gt;1420&lt;/measuretime&gt;</td>
<td>Time of measurement</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>4.3.3</td>
<td>&lt;condition_code&gt;A&lt;/condition_code&gt;</td>
<td>Condition code</td>
<td>C</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>4.3.4</td>
<td>&lt;classification_code&gt;A&lt;/classification_code&gt;</td>
<td>Classification code</td>
<td>C</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>4.3.5</td>
<td>&lt;situation_code&gt;NOL&lt;/situation_code&gt;</td>
<td>Situation code</td>
<td>C</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>4.3e</td>
<td>&lt;/ice_condition&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4e</td>
<td>&lt;/icem&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5s</td>
<td>&lt;werm&gt;</td>
<td>Weather related section</td>
<td>C</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>5.1s</td>
<td>&lt;validity_period&gt;</td>
<td>Period of validity</td>
<td>M</td>
<td>5, 13</td>
<td></td>
</tr>
<tr>
<td>5.1.1</td>
<td>&lt;date_start&gt;20011231&lt;/date_start&gt;</td>
<td>Start of validity period</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>5.1.2</td>
<td>&lt;date_end&gt;20011231&lt;/date_end&gt;</td>
<td>End of validity period (indefinite: 99999999)</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.1e</td>
<td>&lt;/validity_period&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.2s</td>
<td>&lt;fairway_section&gt;</td>
<td>Fairway</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>5.2.1</td>
<td>&lt;geo_object&gt;</td>
<td>Geo Information of fairway location</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>5.2.2</td>
<td>&lt;condition&gt;</td>
<td>Type of geographical object</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>5.2.3</td>
<td>&lt;measuredate&gt;20011231&lt;/measuredate&gt;</td>
<td>Date of measurement</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>5.2.4</td>
<td>&lt;measuretime&gt;1420&lt;/measuretime&gt;</td>
<td>Time of measurement</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>5.2e</td>
<td>&lt;/measure&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.3s</td>
<td>&lt;weather_report&gt;</td>
<td>Weather Report (1x or 2x)</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>5.3.1</td>
<td>&lt;report_type&gt;ORAIN&lt;/report_type&gt;</td>
<td>Classification of weather report (0..Nx)</td>
<td>M</td>
<td>5, 14</td>
<td></td>
</tr>
<tr>
<td>5.3.2</td>
<td>&lt;weather_item&gt;</td>
<td>Weather items (0..Nx)</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>5.3.3</td>
<td>&lt;value_min&gt;4&lt;/value_min&gt;</td>
<td>Actual (0) or Forecast (1) report</td>
<td>M</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>5.3.4</td>
<td>&lt;value_max&gt;5&lt;/value_max&gt;</td>
<td>Minimum value</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.3.5</td>
<td></td>
<td>Maximum value</td>
<td>C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Rules applicable to table 1:

1. In one message at least 2 sections have to be filled in:
   - the identification section (1) and
   - one of the sections:
     - Fairway and traffic related messages (2),
     - Water level related message (3),
     - Ice message (4),
     - Weather message (5).

2. Group 2.11 (fairway section) is also available for object related messages (no. 2.12).

3. Group 2.12 (objects) is not available for fairway related messages (no. 2.11).

4. In group 4.3, at least one of the conditional elements 4.3.3 to 4.3.6 have to be filled in.

5. If a conditional group contains mandatory subgroups or elements these are only mandatory if the group on the higher level is applied.

6. Only mandatory for water levels and vertical clearances.

7. A fairway section is defined by the begin and end coordinates (2 sets of coordinates).

8. An object is defined by the coordinates of its center point (1 set of coordinates).

9. A wrm geo_object has 2 sets of coordinates in case the type_code is FWY, otherwise only 1 set of coordinates is to be used.

10. Mandatory if measure_code is either "DIS", "VER", "LSD" or "WAL".

11. Mandatory if measure code is "BAR".

12. Mandatory if measure code = "REG".

13. Predictions for different periods require individual weather messages.

14. May contain combinations of weather_class_code tags.
7.2.2 Explanation of tags

The meaning of the different tags used in the XML definition is described on the page “Tags” of the reference tables for Notices to Skippers in Appendix C.

7.2.3 Explanation of codes

The meaning of the different codes used in the XML definition is described in the reference tables for Notices to Skippers in Appendix C. The formats and possible values of all XML elements are described in the XML Scheme for Notices to Skippers in Appendix D.

- Notices to Skippers can be divided into two categories, namely URGENT and NOT URGENT. Urgent notices always contain a limitation for shipping traffic. There must therefore be one or more records in the limitations section. If there is no limitation section, the message is not urgent.
- Latitude and longitude coordinates are referred to WGS 84 and presented in degrees and minutes with at least three, but preferable four decimals (dd mm.mmm N, ddd mm.mmm E)
- Decimals in numeric fields are indicated with a (period). No thousand separators are used.
- Only cm, m³/s, h, km/h, kW, Bft (wind), mm/h (rain) and degree Celsius are allowed to be used as units.
- For Waterways there is no Objects section. For Objects (bridges, etc.) the waterway section shall be included.
- The location code according to the Standard for Electronic Ship Reporting in Inland Navigation has to be used as unique ID.

7.2.3.1 Subject codes assigned to the Notices to Skippers

In the following, the meaning of and situations defined by the different subject codes are explained.

Blockage

In case, no form of navigation is possible:
- through all the lock chambers of a lock,
- through all the passages of a bridge,
- passing a specified point on the fairway,
- on a specified section of the fairway.

Partial obstruction

In case, limited navigation is possible:
- through one or more lock chambers of a lock, leaving at least one open,
- through one or more passages of a bridge, leaving at least one open,
- passing a specified point on the fairway, leaving a part of the fairway open.
Delay

In case, an obstruction occurs, limited in time, at a bridge, lock or on a section, between a specified start and end date.

*For example: Delay of at most 2 hours on November 13 between 08:00 and 17:00.*

Encoded:

- `date_start`: 20021113
- `date_end`: 20021113
- `time_start`: 0800
- `time_end`: 1700
- `limitation_code`: Delay
- `position_code`: All
- `value`: 2

No service

In case a movable bridge is not operated during a specified period. This period should lie within the normal operating hours.

No service of a lock is an ‘Obstruction’ or ‘Delay’.

No service of a movable bridge means that passing under the bridge still is possible. Otherwise it is an ‘Obstruction’.

Change Service

In case a modification in the normal operating hours occurs at a lock or a bridge.

Normally this means a limitation of the operating hours, due to work, rather than an increase.

A limitation in the operating hours of a lock usually implies an obstruction.

For example if a lock normally is operated between 06:00 and 20:00, and the operating hours are now limited to between 10:00 and 14:00, then this will result in an obstruction between 06:00 and 10:00 and another obstruction between 14:00 and 20:00.

A limitation in the operating hours of a bridge usually implies ‘No Service’.

Vessel length

In case somewhere a smaller maximum length for passing vessels is allowed / possible.

Usually this occurs at a lock (half lock chamber).

Clearance width

In case somewhere a smaller maximum width for passing vessels is available.

This occurs during work on a lock / bridge.

This subject is also used if the available width of the fairway is less, even if this has no influence on the maximum available width of the waterway.

Vessel air draught

In case somewhere a smaller maximum height for passing vessels is allowed.

Clearance height

This occurs also if the vertical clearance is locally decreased by for example painting equipment.
### Vessel draught
In case somewhere a smaller maximum draught for passing vessels is allowed.

### Available depth
In case the least sounded depth is modified. This has no impact on the maximum draught.

### No mooring
In case somewhere on the fairway mooring is not allowed.

### Change of marks
In case a change occurs in the fairway marks used for navigational purposes, such as buoys, beacons, sector lights, notice marks, etc.

### Work
Other activities on or near the fairway which do not fall within the mentioned subjects.

### Dredging
Dredging activities for which none of the other mentioned subjects are valid.

### Exercises
Exercises for which none of the other mentioned subjects are valid.

### Event
Events (rowing competitions, fireworks etc.) where none of the other mentioned subjects are valid.

### Announcement
All other notices where none of the other (structured) subjects are valid.

### Notice withdrawn
The message has to be published as a serial number of the original message.

If for one single message more subjects are possible, then the limitation with the greatest impact on shipping traffic is selected.

#### 7.2.3.2 Explanation of ice codes

The meaning of the ice codes used in the XML definition is described in the reference tables of Notices to Skippers in Appendix C.

The thickness indicated in column 2 of the ice_condition_code gives information on average thickness only. The description has to be used to select the code for a specific situation.

#### 7.2.3.3 Encoding of limitation periods

The limitation period has to be encoded by
- `date_start`
- `date_end`
- `time_start`
- `time_end`
- `interval_code`.
As the limitation period is very important for voyage planning, limitation periods have to be encoded in accordance with the following examples:

<table>
<thead>
<tr>
<th>Limitation period</th>
<th>date_start</th>
<th>date_end</th>
<th>time_start</th>
<th>time_end</th>
<th>Interval_code</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005-01-01, 07:00 to 2005-01-31, 20:00</td>
<td>20050101</td>
<td>2005131</td>
<td>0700</td>
<td>2000</td>
<td>Continuous (C)</td>
</tr>
<tr>
<td>2005-01-01 to 2005-01-31, each day from 07:00 to 20:00</td>
<td>20050101</td>
<td>2005131</td>
<td>0700</td>
<td>2000</td>
<td>Daily (M)</td>
</tr>
<tr>
<td>2005-01-01 to 2005-01-31, every working day (Monday to Friday) from 07:00 to 20:00</td>
<td>20050101</td>
<td>2005131</td>
<td>0700</td>
<td>2000</td>
<td>Monday to Friday (M)</td>
</tr>
<tr>
<td>2005-01-01 to 2005-01-21, each week from Monday 07:00 to Friday 20:00</td>
<td>20050103</td>
<td>2005107</td>
<td>0700</td>
<td>2000</td>
<td>Continuous (C)</td>
</tr>
<tr>
<td></td>
<td>20050110</td>
<td>2005114</td>
<td>0700</td>
<td>2000</td>
<td>Continuous (C)</td>
</tr>
<tr>
<td></td>
<td>20050117</td>
<td>2005121</td>
<td>0700</td>
<td>2000</td>
<td>Continuous (C)</td>
</tr>
<tr>
<td>2005-01-01 to 2005-01-31, each day from 07:00 to 20:00 with the exception of 2005-01-06</td>
<td>20050101</td>
<td>2005131</td>
<td>0700</td>
<td>2000</td>
<td>Daily (M)</td>
</tr>
<tr>
<td></td>
<td>20050106</td>
<td>2005106</td>
<td></td>
<td></td>
<td>With the exception of (M)</td>
</tr>
</tbody>
</table>
Appendix A: Specifications of examples for the implementation of the Notices to Skippers Standard

Example for the presentation of a Notice to Skippers

In the following example the text mask is given in plain text, the content of the message with grey underlay. Sections, which are not obligatory, are in square brackets.

**Notice to Skippers**

A new Notice to Skippers of via-donau is available for [the Donau waterway in] Austria in the original language German, which has been compiled by BMVIT, Schifffahrtspolizei [on 10 June 2003 at 11:10]:

The fairway and traffic related message no 89/00 in the year 2003, [published by the Strom- und Hafenaufsicht Hainburg] concerning dredging [caused by silting] is valid between 7 October 2003 and 25 October 2003 [for all vessels in all directions].

[Additional information is provided via internet, www.via-donau.org or]

[There exists an additional duty to report via VHF channel 16.]

[On workdays from 7 October 2003 until 25 October 2003 between 06:00 o’clock and 19:00 o’clock] following limitation is valid for the waterway Donau, Furt Orth, km 1902,000 to 1902,600: available depth [210 cm referred to low water level Danube Commission] along the left side of the fairway.

[[On workdays from 7 October 2003 until 25 October 2003 between 06:00 o’clock and 19:00 o’clock] following limitation is valid for the lock Greifenstein, km 1950,000: available length [200 cm referred to equivalent low water level] along the left side of the fairway.]

Additional text in national language: [xxxx]

**Water level related message**

This message is valid for the gauge Kienstock [between 10 June 2003 and 11 June 2003].

All values are referred to the zero point of gauge.

The measured value for the water level on 10 June 2003 at 10:00 o’clock was 197 cm.

[The difference to the last measured value is 15 cm]. [At the moment the barrage is closed and] [navigation faces normal regime.]

[According to the forecast the water level on 11 June 2003 at 12:00 o’clock will be 205 cm].

**Ice related message**

This message is valid for the waterway Danube [between 3 December 2003 and 5 December 2003].

On 3 December 2003 at 00:00 o’clock navigation faced [light floating ice] [Navigation is normal.] [The section is navigable] [and skippers face no limitation.]
Appendix B: Interface Design Specification Online Hydro-Meteo Information

The following proposal describes a standard for the interface between online hydro-meteo networks and on-board applications based on the experience that was gathered with Hymedis. The interface is based on XML using sockets.

B.1 Interface identification

A local adapter (HM adapter) is installed on the on-board PC to allow the on-board applications to communicate with the hydro-meteo networks. This adapter allows to deal with network specific issues like initiating GPRS connections, dual modems to avoid roaming, etc.). This document describes the interface in between external applications like an ECS and the HM adapter.

B.2 Data

The external application (e.g. an ECS) can request the following data entities:

Hydro-meteo measurements per parameter/ location combination with the following elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>creationTime</td>
<td>Time of the actual measurement</td>
</tr>
<tr>
<td>value</td>
<td>Actual measurement</td>
</tr>
<tr>
<td>location</td>
<td>Location of measurements. Selection from pre-defined list of locations.</td>
</tr>
<tr>
<td>parameter</td>
<td>The measured parameter, e.g. 10 minutes average wave height, current speed,</td>
</tr>
<tr>
<td></td>
<td>1 minute water level, etc.</td>
</tr>
<tr>
<td>trend</td>
<td>Indicates if value is increasing, decreasing or constant.</td>
</tr>
</tbody>
</table>

Hydro-meteo predictions per parameter/ location combination with the following elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>creationTime</td>
<td>Time of drafting the prediction</td>
</tr>
<tr>
<td>value</td>
<td>Predicted value</td>
</tr>
<tr>
<td>location</td>
<td>Location of predicted value. Selection from pre-defined list of locations.</td>
</tr>
<tr>
<td>parameter</td>
<td>The predicted parameter, e.g. wave height, current speed, next HW, etc.</td>
</tr>
<tr>
<td>timeOfPrediction</td>
<td>Time when prediction is valid</td>
</tr>
</tbody>
</table>
Text messages with the following elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>creationTime</td>
<td>Time of drafting the text message</td>
</tr>
<tr>
<td>type</td>
<td>Type of text message (e.g. meteo or announcement)</td>
</tr>
<tr>
<td>id</td>
<td>Free text field for limited information about the text message (e.g. sender, area of validity)</td>
</tr>
<tr>
<td>text</td>
<td>The content of the message</td>
</tr>
<tr>
<td>uniqueld</td>
<td>Unique identification number of message</td>
</tr>
</tbody>
</table>

**B.3 Protocol**

**B.3.1 Communication**

Communications is via sockets.

**B.3.1.1 Startup sequence**

The external applications themselves have to take care of starting the HM adapter. The adapter listens on a specified port (port 16300).

**B.3.1.2 Work sequence**

After the adapter has been started it can be addressed via a socket (port 16300). When a connection has been made it will automatically shut down after a certain period of inactivity. Each request may build a separate socket connection, but also more than one request may be send over the same connection. Communication is synchronous (request/ reply sequences). However the adapter may be addressed via different channels.

**B.3.1.3 Shutdown sequence**

The adapter shuts down automatically after a certain period of inactivity. The external applications will have to restart the adapter and log-on/ subscribe again.

**B.3.2 Application**

A session based XML protocol is foreseen on application level. This protocol is stateful in such way that the external application needs to state which location/ parameters it requires (the selection) only once after which it can request the measurement values in the stated combinations.
Following is an overview of a typical interaction with the HM adapter:

<table>
<thead>
<tr>
<th>Action</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;logon&gt;</code></td>
<td>Logs the user on and starts a session. This is always the first action.</td>
</tr>
<tr>
<td><code>&lt;logoff&gt;</code></td>
<td>Closes the session and frees resources.</td>
</tr>
<tr>
<td><code>&lt;subscribe&gt;</code></td>
<td>Indicates which parameter/ location combinations of measurements or predictions are requested.</td>
</tr>
<tr>
<td><code>&lt;poll&gt;</code></td>
<td>Downloads the earlier made selection. Needs to be preceded by a <code>&lt;subscribe&gt;</code> action.</td>
</tr>
<tr>
<td><code>&lt;removeMessages&gt;</code></td>
<td>Removes one or more text messages from the Inbox of the logged-on user.</td>
</tr>
<tr>
<td><code>&lt;getDataLimit&gt;</code></td>
<td>Indicates the maximum number of parameter/ location combinations that can be subscribed to. This may be limited centrally to limit the mobile communication. Typically requested after logon.</td>
</tr>
<tr>
<td><code>&lt;ping&gt;</code></td>
<td>Can be used to check if the adapter is still active. A ping action involves the adapter only. There is no communication with the hydro-meteo server.</td>
</tr>
</tbody>
</table>

B.3.2.1 Session support

The protocol can be kept simple when sessions are supported on the Hydro-meteo network side. A session time-out on the server side and sending a `<InvalidSession>` error message will limit demand on resources. External applications might re-initiate a session using the initial log-on information.

B.3.2.2 XML format

The external application always has to send a ‘request’ XML message. A request message contains an action specification. Possible actions are:

After a request message the adapter returns a ‘reply’ XML message. This message will contain the requested data and possibly an errorReport. The action was successful if no errorReport is received.

Request documents may be UTF-8 encoded. The reply messages, however, are ISO-8859-1 (Latin-1) encoded to allow for special characters in the text messages.

Following is an overview of all possible request/ reply combinations with the required parameters and possible errors.
B.3.2.3 Logon

This is the first action that has to happen. It results in logging on of the user and the start of a session.

B.3.2.3.1 Overview

<table>
<thead>
<tr>
<th>Request</th>
<th>&lt;logon&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>&lt;userId&gt; User name as known on the server side</td>
</tr>
<tr>
<td></td>
<td>&lt;passwd&gt; Password as known on the server side</td>
</tr>
<tr>
<td></td>
<td>&lt;client&gt; Protocol version</td>
</tr>
<tr>
<td>Reply</td>
<td>&lt;sessionId&gt; Unique session identification, that needs to accompany the resulting communication</td>
</tr>
<tr>
<td>Errors</td>
<td>InvalidLogon Logon failed</td>
</tr>
<tr>
<td></td>
<td>SystemException System failure</td>
</tr>
<tr>
<td></td>
<td>InvalidStructure XML erroneous</td>
</tr>
</tbody>
</table>

B.3.2.3.2 Example

Request

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<request>
  <logon>
    <userId>demoUser</userId>
    <passwd>secretPassword</passwd>
    <client>v1</client>
  </logon>
</request>
```

Reply

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply>
  <sessionId>1063098108596:0</sessionId>
</reply>
```

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply>
  <errorReport>
    <error>
      <code>InvalidLogon</code>
      <fieldName/>
      <fieldValue>Uw userId and password combination incorrect.</fieldValue>
    </error>
  </errorReport>
</reply>
```
B.3.2.3  Schemes

<table>
<thead>
<tr>
<th>Request</th>
<th>Appendix: Request XML scheme</th>
</tr>
</thead>
</table>
| Reply   | `<xml version="1.0" encoding="UTF-8"?>
|         | <xsd:schema xmlns:xsd="http://www.w3.org/2000/10/XMLSchema">
|         | <xsd:element name="reply">
|         |   <xsd:complexType>
|         |     <xsd:choice>
|         |       <xsd:sequence>
|         |         <xsd:element name="errorReport">
|         |           <xsd:complexType>
|         |             <xsd:sequence>
|         |               <xsd:element name="error" minOccurs="1" maxOccurs="unbounded">
|         |                 <xsd:complexType>
|         |                   <xsd:sequence>
|         |                     <xsd:element name="code" type="xsd:string"/>
|         |                     <xsd:element name="fieldName" type="xsd:string"/>
|         |                     <xsd:element name="fieldValue" type="xsd:string"/>
|         |                 </xsd:sequence>
|         |               </xsd:complexType>
|         |         </xsd:element>
|         |       </xsd:sequence>
|         |       <xsd:element name="sessionId" type="xsd:string"/>
|         |   </xsd:choice>
|         | </xsd:complexType>
|         | </xsd:element>
|         | </xsd:schema>` |

B.3.2.4  Logoff

This is the last action that has to happen. It results in logging off of the user and freeing of resources.

B.3.2.4.1  Overview

<table>
<thead>
<tr>
<th>Request</th>
<th><code>&lt;logoff&gt;</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td><code>&lt;sessionId&gt;</code> Identification of session that can be terminated</td>
</tr>
<tr>
<td>Reply</td>
<td>No data is returned (unless errors)</td>
</tr>
<tr>
<td>Errors</td>
<td>InvalidSession Session unknown</td>
</tr>
<tr>
<td></td>
<td>SystemException System error</td>
</tr>
<tr>
<td></td>
<td>InvalidStructure XML erroneous</td>
</tr>
</tbody>
</table>
B.3.2.4.2 Example

**Request**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <logoff>
    <sessionId>1063099995399:3</sessionId>
  </logoff>
</request>
```

**Reply**

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply/>
```

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply>
  <errorReport>
    <error>
      <code>InvalidSession</code>
      <fieldName/>
      <fieldValue>Invalid Session: 1063099995399:3</fieldValue>
    </error>
  </errorReport>
</reply>
```

B.3.2.4.3 Schemes

**Request**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2000/10/XMLSchema">
  <xsd:element name="reply">
    <xsd:complexType>
      <xsd:choice>
        <xsd:sequence>
          <xsd:element name="errorReport">
            <xsd:complexType>
              <xsd:sequence>
                <xsd:element name="error" minOccurs="1" maxOccurs="unbounded">
                  <xsd:complexType>
                    <xsd:sequence>
                      <xsd:element name="code" type="xsd:string"/>
                      <xsd:element name="fieldName" type="xsd:string"/>
                      <xsd:element name="fieldValue" type="xsd:string"/>
                    </xsd:sequence>
                  </xsd:complexType>
                </xsd:element>
              </xsd:sequence>
            </xsd:complexType>
          </xsd:sequence>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:schema>
```

B.3.2.5 GetDataLimit

This last action requests the upper limit of the number of parameter/location combination that may be requested. This limit will be the same throughout the session. The action typically takes place directly after logon and before subscribe to allow the external application to validate the limit in its own user interface.
B.3.2.5.1 Overview

<table>
<thead>
<tr>
<th>Request</th>
<th>&lt;getDataLimit&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>&lt;sessionId&gt; Identification of active session</td>
</tr>
<tr>
<td>Reply</td>
<td>&lt;dataLimit&gt; Maximum number of parameter/location combination that may be requested</td>
</tr>
<tr>
<td>Errors</td>
<td>InvalidSession Session unknown</td>
</tr>
<tr>
<td></td>
<td>SystemException System error</td>
</tr>
<tr>
<td></td>
<td>InvalidStructure XML erroneous</td>
</tr>
</tbody>
</table>

B.3.2.5.2 Example

Request
```xml
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <getDataLimit>
    <sessionId>1063100642910:3</sessionId>
  </getDataLimit>
</request>
```

Reply
```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply>
  <dataLimit>500</dataLimit>
  <sessionId>1063100642910:3</sessionId>
</reply>
```
B.3.2.5.3 Schemes

<table>
<thead>
<tr>
<th>Request</th>
<th>Appendix: Request XML scheme</th>
</tr>
</thead>
</table>
| Reply   | <?xml version="1.0" encoding="UTF-8"?>
<xs:element name="reply">
  <xs:complexType>
    <xs:choice>
      <xs:element name="errorReport">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="error" maxOccurs="unbounded">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="code" type="xs:string"/>
                  <xs:element name="fieldName" type="xs:string"/>
                  <xs:element name="fieldValue" type="xs:string"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="dataLimit" type="xs:string"/>
      <xs:element name="sessionId" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element> |

B.3.2.6 Subscribe

This action decides which parameter/location combination will be requested by the subsequent poll actions. This is a separate action in order to avoid having to resend this information with each poll.

B.3.2.6.1 Overview

<table>
<thead>
<tr>
<th>Request</th>
<th>&lt;subscribe&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>&lt;sessionId&gt; ID of active session</td>
</tr>
<tr>
<td></td>
<td>&lt;location&gt; The combinations of location/parameter for which information is requested by the next poll.</td>
</tr>
<tr>
<td></td>
<td>&lt;parameters&gt;</td>
</tr>
<tr>
<td>Reply</td>
<td>&lt;measurement&gt; Measurement information for the requested location/parameter</td>
</tr>
<tr>
<td></td>
<td>&lt;predictions&gt; Prediction information for the requested location/parameter</td>
</tr>
<tr>
<td></td>
<td>&lt;textMessages&gt; Text messages if available in the inbox of the active user</td>
</tr>
<tr>
<td>Errors</td>
<td>InvalidSession Session unknown</td>
</tr>
<tr>
<td></td>
<td>SystemException System error</td>
</tr>
<tr>
<td></td>
<td>InvalidStructure XML erroneous</td>
</tr>
<tr>
<td></td>
<td>InvalidLocation Unknown location</td>
</tr>
<tr>
<td></td>
<td>InvalidParameter Unknown parameter or unknown location/parameter combination</td>
</tr>
<tr>
<td></td>
<td>DataLimitOverflow Too many location/parameter combinations requested</td>
</tr>
</tbody>
</table>
B.3.2.6.2 Example

**Request**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <subscribe>
    <sessionId>1063101447888:5</sessionId>
    <locations>
      <location>
        <name>BVH</name>
        <parameters>
          <parameter>WH1</parameter>
        </parameters>
      </location>
    </locations>
  </subscribe>
</request>
```

**Reply**

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply>
  <measurements>
    <measurement>
      <creationTime>2003-09-09T09:55:00Z</creationTime>
      <value>29.56051636</value>
      <location>BVH</location>
      <parameter>WH1</parameter>
      <isCalculated>false</isCalculated>
      <trend>Up</trend>
    </measurement>
  </measurements>
  <textMessages>
    <textMessage>
      <creationTime>2003-09-09T06:25:35Z</creationTime>
      <type>meteo</type>
      <text>Kwintebank N 4 a 5 krimpend naar WNW vanavond. Golven tussen 75 cm en 1 m.</text>
    </textMessage>
    <textMessage>
      <creationTime>2003-09-09T04:45:42Z</creationTime>
      <type>melding</type>
      <id>HM01 ZEGE</id>
      <text>Direktie Zeeland   RMI meetnet "ZEGE" Datum: 20030909  Tijd: 05:44:31-MET De volgende storingen staan uit: ...
    </textMessage>
  </textMessages>
</reply>
```

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply>
  <errorReport>
    <error>
      <code>InvalidLocation</code>
      <fieldName/>
      <fieldValue>Ongeldige locatie [Ongeldige locatie [BVHK]]
    </error>
  </errorReport>
</reply>
```
B.3.2.6.3 Schemes

<table>
<thead>
<tr>
<th>Request</th>
<th>Appendix: Request XML scheme</th>
</tr>
</thead>
</table>
| **Reply** | `<?xml version="1.0"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2000/10/XMLSchema">
<xsd:element name="reply">
<xsd:complexType>
<xsd:choice>
<xsd:element name="errorReport">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="error" maxOccurs="unbounded">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="code" type="xsd:string"/>
<xsd:element name="fieldName" type="xsd:string"/>
<xsd:element name="fieldValue" type="xsd:string"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
<xsd:element name="measurements">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="measurement">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="creationTime" type="xsd:dateTime"/>
<xsd:element name="value" type="xsd:string"/>
<xsd:element name="location" type="xsd:string"/>
<xsd:element name="parameter" type="xsd:string"/>
<xsd:element name="isCalculated" type="xsd:string"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
<xsd:element name="predictions">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="prediction">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="creationTime" type="xsd:dateTime"/>
<xsd:element name="value" type="xsd:string"/>
<xsd:element name="location" type="xsd:string"/>
<xsd:element name="parameter" type="xsd:string"/>
<xsd:element name="timeOfPrediction" type="xsd:dateTime"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
<xsd:element name="textMessages">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="textMessage">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="creationTime" type="xsd:dateTime"/>
<xsd:element name="type" type="xsd:string"/>
<xsd:element name="id" type="xsd:string"/>
</xsd:element>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>` |
B.3.2.7 Poll

This action requests the values of the subscribed parameter/location combinations from the hydro-meteo server.

B.3.2.7.1 Overview

<table>
<thead>
<tr>
<th>Request</th>
<th>&lt;poll&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>&lt;sessionId&gt;</td>
</tr>
<tr>
<td>Reply</td>
<td>&lt;measurement&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;predictions&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;textMessages&gt;</td>
</tr>
<tr>
<td>Errors</td>
<td>InvalidSession</td>
</tr>
<tr>
<td></td>
<td>SystemException</td>
</tr>
<tr>
<td></td>
<td>InvalidStructure</td>
</tr>
</tbody>
</table>
B.3.2.7.2 Example

Request

```xml
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <subscribe>
    <sessionId>1063101447888:5</sessionId>
    <locations>
      <location>
        <name>BVH</name>
        <parameters>
          <parameter>WH1</parameter>
        </parameters>
      </location>
    </locations>
  </subscribe>
</request>
```

Reply

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply>
  <measurements>
    <measurement>
      <creationTime>2003-09-09T10:18:00Z</creationTime>
      <value>72.42694092</value>
      <location>BVH</location>
      <parameter>WH1</parameter>
      <isCalculated>false</isCalculated>
      <trend>Up</trend>
    </measurement>
  </measurements>
</reply>
```

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply>
  <errorReport>
    <error>
      <code>InvalidSession</code>
      <fieldName/>
      <fieldValue>Invalid Session: 1063100642910:3</fieldValue>
    </error>
  </errorReport>
</reply>
```

B.3.2.7.3 Schemes

<table>
<thead>
<tr>
<th>Request</th>
<th>Appendix: Request XML scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reply</td>
<td>See ‘Subscribe’</td>
</tr>
</tbody>
</table>

B.3.2.7.4 Remark

The adapter will return a SystemException to a ‘poll’ that was not preceded by a ‘subscribe’.

B.3.2.8 RemoveMessages

This action will remove the stated text messages from the user’s inbox.
B.3.2.8.1 Overview

<table>
<thead>
<tr>
<th>Request</th>
<th>&lt; RemoveMessages&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>&lt;sessionId&gt; ID of active session</td>
</tr>
<tr>
<td></td>
<td>&lt;textMessages&gt; The text messages that should be removed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reply</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Errors</td>
<td>InvalidSession Session unknown</td>
</tr>
<tr>
<td></td>
<td>SystemException System error</td>
</tr>
<tr>
<td></td>
<td>InvalidStructure XML erroneous</td>
</tr>
</tbody>
</table>

B.3.2.8.2 Example

Request

```xml
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <removeMessages>
    <sessionId>1063103220016:7</sessionId>
    <textMessages>
      <textMessage>
        <uniqueId>618394e4-b7fe-1004-8043-f5d3a41a1d9</uniqueId>
      </textMessage>
    </textMessages>
  </removeMessages>
</request>
```

Reply

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
</reply>
```

B.3.2.8.3 Schemes

Request

```xml
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <removeMessages>
    <sessionId>1063103220016:7</sessionId>
    <textMessages>
      <textMessage>
        <uniqueId>618394e4-b7fe-1004-8043-f5d3a41a1d9</uniqueId>
      </textMessage>
    </textMessages>
  </removeMessages>
</request>
```

Appendix: Request XML scheme

```xml
<xsd:schema xmlns:xsd="http://www.w3.org/2000/10/XMLSchema">
  <xsd:element name="reply">
    <xsd:complexType>
      <xsd:choice>
        <xsd:sequence>
          <xsd:element name="errorReport">
            <xsd:complexType>
              <xsd:sequence>
                <xsd:element name="error" minOccurs="1" maxOccurs="unbounded">
                  <xsd:complexType>
                    <xsd:sequence>
                      <xsd:element name="code" type="xsd:string"/>
                      <xsd:element name="fieldName" type="xsd:string"/>
                      <xsd:element name="fieldValue" type="xsd:string"/>
                    </xsd:sequence>
                  </xsd:complexType>
                </xsd:element>
              </xsd:sequence>
            </xsd:complexType>
          </xsd:sequence>
        </xsd:sequence>
        <xsd:sequence/>
      </xsd:complexType>
    </xsd:element>
  </xsd:element>
</xsd:schema>
```
B.3.2.9 Ping

This action checks if the adapter is still active.

B.3.2.9.1 Overview

<table>
<thead>
<tr>
<th>Request</th>
<th>&lt; ping&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>&lt;sessionId&gt; ID of active session</td>
</tr>
<tr>
<td>Reply</td>
<td>&lt;sessionId&gt; Session ID if this was a known session</td>
</tr>
<tr>
<td>Errors</td>
<td></td>
</tr>
</tbody>
</table>

B.3.2.9.2 Example

Request

```xml
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <ping>
    <sessionId>1063103690803:8</sessionId>
  </ping>
</request>
```

Reply

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply>
  <sessionId>1063103690803:8</sessionId>
</reply>
```

B.3.2.9.3 Schemes

Request

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2000/10/XMLSchema" elementFormDefault="qualified">
  <xs:element name="reply">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="sessionId" type="xs:string" minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

Reply

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<reply />
```

B.3.2.9.4 Remark

The ping only indicates if the adapter is ready to receive and answer requests, but provides no information about the connection to the hydro-meteo server.
B.4 Installation adapter

B.4.1 Procedure
Installs the HM adapter with the following directory structure:

```
~\HM_adapter\jre  contains the java runtime and rs232 libraries
adapter\lib      contains the necessary java jar’s needed by the adapter
config          contains the configuration files of the adapter
logs            location where log files will be saved
```

B.4.1.1 Configuration

The main configuration file is pollingConfig.xml:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxConnect, MaxDisconnect</td>
<td>Time limit for establishing and disconnecting of a PPP connection</td>
</tr>
<tr>
<td>listenPort</td>
<td>TCP port which socket will be called</td>
</tr>
<tr>
<td>GZip</td>
<td>Activation of compression of input and output</td>
</tr>
<tr>
<td>maxIdleTimeMinute</td>
<td>Time period after which the adapter will shut down failing a request</td>
</tr>
<tr>
<td>Version</td>
<td>Version of the configuration. If lower than the version on the server, new settings will be send automatically</td>
</tr>
<tr>
<td>MaxRetries</td>
<td>Maximum number of PPP attempts to connect to the server.</td>
</tr>
<tr>
<td>Log4j</td>
<td>‘config’ file and ‘refreshInterval’ settings for log4j</td>
</tr>
<tr>
<td>PppConfig</td>
<td>Name of the PPP command file</td>
</tr>
<tr>
<td>EndPoint</td>
<td>The URL of the server</td>
</tr>
<tr>
<td>EndPointTimeOut</td>
<td>Time limit of request to the server</td>
</tr>
</tbody>
</table>

The pppConfig.xml file contains the communication ports to connect to the hydro-meteo server.

Each pppConnection tag defines a command that opens or closes a port to the outside world. LAN does not require a command since it is always there. The adapter will try to open the ports one by one to send it’s data. If it is not successful it will close the port and open the next one.
B.5 Appendix: Request XML scheme

```xml
<?xml version="1.0"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2000/10/XMLSchema">
  <xsd:element name="request">
    <xsd:complexType>
      <xsd:choice>
        <xsd:element name="logon" maxOccurs="1">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="userId" type="xsd:string" maxOccurs="1" minOccurs="1"/>
              <xsd:element name="passwd" type="xsd:string" maxOccurs="1" minOccurs="1"/>
              <xsd:element name="client" type="xsd:string" maxOccurs="1" minOccurs="1"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="getDataLimit" maxOccurs="1">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="sessionId" type="xsd:string" maxOccurs="1" minOccurs="1"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="subscribe" maxOccurs="1">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="sessionId" type="xsd:string" maxOccurs="1" minOccurs="1"/>
              <xsd:element name="locations" maxOccurs="1">
                <xsd:complexType>
                  <xsd:sequence>
                    <xsd:element name="location">
                      <xsd:complexType>
                        <xsd:sequence>
                          <xsd:element name="name" type="xsd:string" maxOccurs="1" minOccurs="1"/>
                          <xsd:element name="parameters">
                            <xsd:complexType>
                              <xsd:sequence>
                                <xsd:element name="parameter" type="xsd:string"/>
                              </xsd:sequence>
                            </xsd:complexType>
                          </xsd:element>
                        </xsd:sequence>
                      </xsd:complexType>
                    </xsd:element>
                  </xsd:sequence>
                </xsd:complexType>
              </xsd:element>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="removeMessages" maxOccurs="1">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="sessionId" type="xsd:string" maxOccurs="1" minOccurs="1"/>
              <xsd:element name="textMessages">
                <xsd:complexType>
                  <xsd:sequence>
                    <xsd:element name="textMessage">
                      <xsd:complexType>
                        <xsd:sequence>
                          <xsd:element name="uniqueId" type="xsd:string"/>
                        </xsd:sequence>
                      </xsd:complexType>
                    </xsd:element>
                  </xsd:sequence>
                </xsd:complexType>
              </xsd:element>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
      </xsd:choice>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```
<table>
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<tbody>
<tr>
<td>RIS_message</td>
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<tr>
<td>Person</td>
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<td>Šířitel</td>
<td>Meddelelsens sendende</td>
<td>Übersender</td>
<td>Envoi du message</td>
<td>Invio del messaggio</td>
<td>Pašto siuntėjas</td>
<td>寄件人</td>
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</tbody>
</table>

**Explanation of tags**

- **RIS_message**: Remitente Teate saatja (Recipient of the message)
- **Identifier (identification section)**: Identifikátor (Identifikace)
- **Person**: Sender of the message (Përsëtës i marrëveshjes)
- **Original_language**: Original language (Laguva originales)
- **Country_code**: Country code (Štetasis kodas)
- **Date_start**: Start date (Pradžia)
- **Date_end**: End date (Pabaigos data)
- **Date**: Date (Data)
- **Time_zone**: Time zone (Laikmio laikmenis)
- **Time_difference**: Time difference (Laikmio skirtumas)
- **Time**: Time (Laikmio laikas)

**Reference Tables**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Date_end (limitation_period)</td>
<td>Ei (agrupēts)</td>
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<td>de (grupuad)</td>
<td>A (אותם)</td>
<td>De (grupado)</td>
<td>De (grupado)</td>
<td>Till (מראש)</td>
<td>Do (agrupado)</td>
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</table>

**Explanation of tags:**
- **Date_end (limitation_period):** End date.
- **Date_end (limitation_period):** No_end date.
- **Date_end (limitation_period):** Limitation period.
- **Coordinate (geo_object_section):** Coordinate.
- **Reference_code:** Reference code.
- **Measurement:** Measurement.
- **Value:** Value.

**Legend:**
- **LV:** Latvian
- **SL:** Swedish
- **PL:** Polish
- **RO:** Romanian
- **SK:** Slovakian
- **SV:** Slovakian
- **HI:** Hebrew
- **BU:** Hungarian
- **SE:** Croatian
- **SE:** Slovenian
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<td>Баражът е затворен</td>
<td>jez je uzavřen</td>
<td>Damaging er</td>
<td>geschlossen</td>
<td>κλειστός</td>
<td>Presa cerrada</td>
<td>Pato suljetu</td>
<td>Barrage releve</td>
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<td>Barrage Opened, no navigation through barrage</td>
<td>Баражът е отворен, движението през него е забранено</td>
<td>jez je otevřen, nakaz plavby pies jez</td>
<td>Damaging er</td>
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<td>Ανοικτός Υδατοφράκτης, απαγόρευση κυκλοφορίας μέσω άνοιγματος</td>
<td>Presa abierta, paso prohibido</td>
<td>Pasis avatud, laevatamist kaitsa ei toimia</td>
<td>barrage couche, franchissement interdit</td>
<td>Duzzasztómni nyitva, de áthajózas a duzzasztómhoon nem megejte</td>
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<td>Užtvara atidarya, laisybyd draudziana</td>
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| OPN    | Barrage laid, opened for navigation through barrage | Свободна навигация през баража | jez je otvoren, pro plavbu pies jez | Damaging er | geöffnet, Schiffs fahrt durch das Wehr | Ανοικτός Υδατοφράκτης, επιτρέπεται η κυκλοφορία | Presa abierta, paso autorizado | Pasis avatud, laevatnimiselks | Barrage ouvert a la navigation | Duzzasztómni nyitva, de áthajózas a duzzasztómhoon nem megejte | sbarramento aperto, transito consentito | Užtvara atidarya, laisybyd
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Page 24 of 96
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<td>Informationen (weder sicherheitsrelevant noch notwendig für die Reiseplanung)</td>
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Page 31 of 96
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<td>ENW genaβ Donaukommissi on</td>
<td>Χαμηλής στάθμη υδάτων, Επιτροπή Δούναβη</td>
<td>Comisión del Danubio, nivel bajo de agua</td>
<td>Comisia del Danubio, nivel bajo de agua</td>
<td>Comisia del Danubio, nivel bajo de agua</td>
</tr>
</tbody>
</table>

Page 35 of 96
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<tr>
<td>HDC</td>
<td>High water level Danube Commission</td>
<td>Ниско навигационно ниво по Дунавската комисия</td>
<td>Nažvýšší plavební vodní stav podle Dunajské komise</td>
<td>Høj vandstand defineret af Donaukommissionen</td>
<td>HSW gemäß Donaukommission</td>
<td>Comisión del Danubio, nivel algo de agua</td>
<td>Torvan suuje jakomisijon narah vedenkorkeus</td>
<td>Commission du Danube, niveau haut des eaux</td>
<td>Dunabizottság hajózási nagyvízszint (LNV)</td>
<td>Dunabizottság hajózási nagyvízszint (LNV)</td>
<td>Aukščias laivybos lygis</td>
<td>Ankščias laivybos lygis</td>
</tr>
<tr>
<td>ZPG</td>
<td>zero point of gauge</td>
<td>Нулево ниво по пегела</td>
<td>Nulový bod vodního stuatu</td>
<td>Profilsnullpunkt</td>
<td>Punto de referencia del nivel</td>
<td>Määräkohde nullpunkt</td>
<td>vedenkorkeus määrännollakoht</td>
<td>point de référence de niveau</td>
<td>vimeerse mulla pontja</td>
<td>Nolla Tiênממדניק</td>
<td>Aukščio lygio rodinio</td>
<td></td>
</tr>
<tr>
<td>GL.W</td>
<td>equivalent low water level</td>
<td>Извислено ниско водно ниво</td>
<td>Nízký plavební niv</td>
<td>Niveau maximal navigable</td>
<td>körge in navigierza vettase</td>
<td>staurin kultukhe japone n vedenkorkeus</td>
<td>Pas hautes eaux navigables</td>
<td>legourgó hajózási viszont (HKV)</td>
<td>masszimo livello idrometrico navigabile</td>
<td>Aukščias lygio navigabilis</td>
<td>Žemos laivybos lygis</td>
<td></td>
</tr>
<tr>
<td>HSW</td>
<td>highest navigable water level</td>
<td>Най-високо навигационно ниво</td>
<td>nejvyšší plavební vodní stav</td>
<td>Höchste Schifffahrtsstufen (HSW)</td>
<td>Nivel máximo navegable</td>
<td>staurin kultukhe japone n vedenkorkeus</td>
<td>Pas hautes eaux navigables</td>
<td>legourgó hajózási viszont (HKV)</td>
<td>masszimo livello idrometrico navigabile</td>
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<tr>
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<td>Low Navigable Water</td>
<td>Ниско навигационно ниво</td>
<td>nízký plavební vodní stav</td>
<td>Lev farbar vandstand</td>
<td>Nivel minimu navegable</td>
<td>madal navigierza vesi</td>
<td>Matala kultukhe japone n vesi</td>
<td>Pas basses eaux navigables</td>
<td>livello di magra navigabile</td>
<td>Žemas laivybos lygis</td>
<td>Anskias laivybos lygis</td>
<td></td>
</tr>
<tr>
<td>HNW</td>
<td>High Navigable Water</td>
<td>Високо навигационно ниво</td>
<td>nejvyšší plavební vodní stav (národní)</td>
<td>Hej vandstand</td>
<td>Nivel alto navegable</td>
<td>körge in navigierza vesi</td>
<td>Korkea kultukhe japone n vesi</td>
<td>Hautes eaux navigables</td>
<td>livello di piena navigabile</td>
<td>Anskias laivybos lygis</td>
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<td></td>
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<td>IGN</td>
<td>normal level</td>
<td>Нормално ниво</td>
<td>normálni niveau</td>
<td>Normaler Pegel</td>
<td>Nivel normal</td>
<td>normaalase</td>
<td>Retene normale</td>
<td>szokásos szint</td>
<td>livello idrometrico normale</td>
<td>Normalis lygis</td>
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<td>Нормално ниво</td>
<td>normálni niveau</td>
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<td>Nivel normal</td>
<td>normaalase</td>
<td>Retene normale</td>
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IGN = IGN 69
WGS = WGS 84
RN = normal level
<table>
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<td>NAP</td>
<td>Amsterdamas laiškų rėmėjas</td>
<td>Amsterdamans Peil</td>
<td>Naujas de referenčių Amsterdamas</td>
<td>Návrhel de referenčí Amsterdam</td>
<td>Облачный восток в Amsterdam</td>
<td>Amsterdams Peil</td>
<td>Normalni Amsterdamski vodometer</td>
<td>Новый амстердамский пегел</td>
<td>Нормални амстердамски пегел</td>
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<td>Kanalas laiškų rėmėjas</td>
<td>Kanaalpeil</td>
<td>Kanaal</td>
<td>Niveau de referencie Kanal</td>
<td>Peilvastingshöhe in Kanaal</td>
<td>Peil</td>
<td>Vodomjer u kanali</td>
<td>Судоходный уровень канала</td>
<td>Vodomjer u Frizijskom kanali</td>
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<td>FZP</td>
<td>Friesijos laiškų rėmėjas</td>
<td>Friesch Zomer Peil</td>
<td>Friesie</td>
<td>Nivel de referencie Friesland</td>
<td>Frisse waterstand in Friesland</td>
<td>Peil</td>
<td>Vodomjer u Frizijskom kanali</td>
<td>Фризийский пегел</td>
<td>Vodomjer u Frizijskom kanali</td>
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<td>Adriatico</td>
<td>výškový systém ADRIA</td>
<td>nivo Jadranskega morja</td>
<td>Adrija</td>
<td>Razina Jadranškog mora</td>
<td>Адриатическa система</td>
<td>Ниво Jadranskeg mora</td>
<td></td>
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<td>TAW</td>
<td>Trede vizijonii laiškų rėmėjas</td>
<td>Tweede algemene waterpeil</td>
<td>Tav</td>
<td>Tweede algemene waterpeil (2º nivelamento geral)</td>
<td>nivo Jadranskega morja</td>
<td>Tav</td>
<td>Druga opšta razina</td>
<td>Общее вторичное приравнение водного уровня</td>
<td>Druga opšti nivo</td>
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<td>Pulkovo 1942</td>
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<td>Zemų laisvų vandens Komisija</td>
<td>laagwaterpeil Donau-commissie</td>
<td>Nivel de apelminas Donau, Komisió Dunajskéj</td>
<td>Nivel hipline po Donavski komisiji</td>
<td>Donau nivo, Comisia Dunajská</td>
<td>Nivel de apelminas Donau, Komisió Dunajskéj</td>
<td>Donau nivo, Komisió Dunajskéj</td>
<td>Nivel hipline po Donavski komisiji</td>
<td>Donau nivo, Komisió Dunajskéj</td>
<td>Nivel de apelminas Donau, Komisió Dunajskéj</td>
</tr>
</tbody>
</table>

Page 37 of 96
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
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<tr>
<td>HDC</td>
<td>Augsts ūdens līmenis, Donavas komisija</td>
<td>hoogwaterpeil Donau-kommissie</td>
<td>Wysoki stan wody wg Komisji Dunajskiej</td>
<td>visok vodostaj po Donavskoj komisiji</td>
<td>Visok vodostaj po Dunavskoj komisiji</td>
<td>Högvattennivå enligt Donau-kommissionen</td>
<td>Visok vodostaj po Dunavskoj komisiji</td>
<td>Visok vodostaj po Dunavskoj komisiji</td>
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</tr>
<tr>
<td>ZPG</td>
<td>Ūdens līmeņa nulles punkts</td>
<td>referentiepunt peilschaal</td>
<td>Ponto zero do floviômetro</td>
<td>miskový bod menej stanice</td>
<td>nižšia točka vodomera</td>
<td>Ånnings nollpunkt</td>
<td>Nulta točka vodoumje leto</td>
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<td>GLW</td>
<td>Minimalais ūdens līmenis</td>
<td>gelijkwaardige laagwaterstand</td>
<td>Nivel baixo equivalente da água</td>
<td>ekvivalentna niska vodna vodostaja</td>
<td>ekvivalentniski vodostaj</td>
<td>ekvivalent nízký vodostaj</td>
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<td>Augstkieks kujojamas ūdens līmenis</td>
<td>hoogste scheepvaart waterstand</td>
<td>Nível máximo navegável</td>
<td>najvišji vodostaj, pri katerem je mogoča plovba</td>
<td>högsta navigatorbara vatten</td>
<td>Maksimalni vodostaj dozvoljene plovilde</td>
<td>Найвищий судоходний уровень</td>
<td>Najviši vodostaj za navigacijo</td>
<td>Najviši vodostaj za navigacijo</td>
</tr>
<tr>
<td>LNW</td>
<td>Zemēkieks kujojamas ūdens līmenis</td>
<td>laagste scheepvaart waterstand (nationaal)</td>
<td>Nivel minimo navegável</td>
<td>nizk vodostaj, pri katerem je mogoča plovba</td>
<td>lågt navigatorbar vatten</td>
<td>Nisk vodostaj dozvoljene plovilde</td>
<td>Nisk vodostaj dozvoljene plovilde</td>
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<td>hoogste scheepvaart waterstand (nationaal)</td>
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<td>visok vodostaj, pri katerem je mogoča plovba</td>
<td>högsta navigatorbara vatten</td>
<td>Vsočki vodostaj dozvoljene plovilde</td>
<td>Vsočki vodostaj dozvoljene plovilde</td>
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<tr>
<td>RN</td>
<td>Normalis ūdens līmenis</td>
<td>normal peil</td>
<td>poziom normalny</td>
<td>normálne úroveň</td>
<td>običajen nivo</td>
<td>normal niv</td>
<td>Normalka razina</td>
<td>Normal vodova</td>
<td>Normal voda</td>
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<td>Normal</td>
<td>Нормално водно ниво</td>
<td>нормално водно ниво</td>
<td>Normal vandstand</td>
<td>Regime: Normal Wasserstand</td>
<td>Κανονική</td>
<td>Normal</td>
<td>Tevainde</td>
<td>Normali</td>
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<tr>
<td>HI</td>
<td>High</td>
<td>Високи води</td>
<td>високи води</td>
<td>Højvande</td>
<td>Hochwasser</td>
<td>Υψηλή</td>
<td>Alto</td>
<td>Körge</td>
<td>Sauri</td>
</tr>
<tr>
<td>II</td>
<td>prohibitory water level</td>
<td>Възпрепятствано водно ниво</td>
<td>водно ниво предизвикващо внимателна навигация</td>
<td>Vandstand, hvor sejlads forbydes</td>
<td>Marke II eller Marke III</td>
<td>Απαγορευτική στάθμη υδάτων</td>
<td>Nivel de agua de prohibición</td>
<td>Kreisrahmen</td>
<td>vedenkorkeus</td>
</tr>
<tr>
<td>I</td>
<td>water level of cautious navigation</td>
<td>Водно ниво изискващо внимателна навигация</td>
<td>водно ниво възлагано на морнарската безопасност</td>
<td>Vandstand, hvor sejlads udføres med særlig øget agtpåvisning</td>
<td>Marke I.</td>
<td>Στάθμη υδάτων προσεκτικής ναυτισμικής ποζιτων</td>
<td>Nivel de agua para navegación prudente</td>
<td>Beitvektligheten</td>
<td>vedenkorkeus</td>
</tr>
<tr>
<td>NN</td>
<td>normal water level for navigation</td>
<td>Нормално водно ниво за навигация</td>
<td>нормални водни ниво за плаване</td>
<td>Normal vandstand for skibsfart</td>
<td>normaler Schiffsverhältnisstand</td>
<td>Κανονική στάθμη υδάτων ναυτισμικής ποζιτων</td>
<td>Nivel de agua normal para navegación</td>
<td>Laevatamiseks normaalne veetase</td>
<td>normaal vedenkorkeus</td>
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<td>NO</td>
<td>Normalus vandens lygis</td>
<td>Normalie cdrēme is normaļus</td>
<td>regime is normal</td>
<td>Normāky</td>
<td>Nível da água normal</td>
<td>Nivelul normal</td>
<td>normăky</td>
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<td>Wysoki</td>
<td>Nível da água normal</td>
<td>Nivelul maxim na vodě</td>
<td>vysoký vodný stav</td>
<td>visok</td>
<td>hög</td>
</tr>
<tr>
<td>II</td>
<td>Lazīmīts draudzīgais vandens lygis</td>
<td>Ķietā krāsnīšanās stādījums</td>
<td>waterstand met vaarverbod (Marke II)</td>
<td>stan vody uimenozbīvājī</td>
<td>Nível da água que imposibilita a navegação</td>
<td>Nivelul maxim, care impunează navigația</td>
<td>vodný stav provizor vrtēnu</td>
<td>vodostaj, kde je zakázana plavba</td>
<td>forbud p.g.a. vattennivån</td>
</tr>
<tr>
<td>I</td>
<td>Lazīmīts pavojīgais vandens lygis</td>
<td>Ķietā krāsnīšanās stādījums</td>
<td>waterstand met beperkte scheepvaart (Marke I)</td>
<td>stan vody vnizající omezenie</td>
<td>Nível da água que obriga a navegação prudente</td>
<td>Nivelul de prevedere</td>
<td>vodný stav proti plavbe</td>
<td>vodostaj, kde je zakázana plavba</td>
<td>forsiktig navigering p.g.a. vattennivån</td>
</tr>
<tr>
<td>NN</td>
<td>Lazīmīts tiksmains vandens lygis</td>
<td>Normalis krāsnīšanās stādījums</td>
<td>normāls vaterpeil voor scheepvaart</td>
<td>normāky stan do vodě</td>
<td>Nível da água normal para a navegação</td>
<td>Nivelul normal pentru navigație</td>
<td>vodný stav za plavbo</td>
<td>vodostaj normalen</td>
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<td>Πληροφορίες</td>
<td>Información</td>
<td>Teave</td>
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<td>Additional duty to report</td>
<td>Допълнително съобщение</td>
<td>Допълнително съобщение</td>
<td>Yderligere rapporteringspligt</td>
<td>zusätzliche Meldepflicht</td>
<td>Πρόσθετο καθήκον αναφοράς</td>
<td>Obligación adicional de notificación</td>
<td>Teisendav tollimaks testada</td>
<td>Ymääräinen raportointiveollisuus</td>
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<td>Regular duty to report</td>
<td>Обичаен режим за съобщение</td>
<td>нормално повюност hláseni</td>
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- **Meaning (EN):** Reference Tables
- **Meaning (BG):** Subject_code
- **Value:**
  - Rising water level
  - Announcement
  - Limitations
  - Notice withdrawn
  - False radar echo
  - Inland ECDIS update
  - New object
  - Warning
  - Changing in the waterway
  - Construction of the waterway
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<td>Όλα</td>
<td>Tous</td>
<td>Todos</td>
<td>Kõik</td>
<td>Kaikki</td>
<td>Tous les</td>
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<tr>
<td>CDG</td>
<td>Commercial vessels with dangerous goods</td>
<td>Търговски кораб превозващ опасни товари</td>
<td>Handelskibe med farlige gods</td>
<td>kommerzielle Fahrzeuge mit gefährlichen Gütern</td>
<td>Embarcacione s comerciales con mercancias peligrosas</td>
<td>Transport de matières dangereuses</td>
<td>kereskedehajó veszélyes áruval</td>
<td>natetti mercentili</td>
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<td>Commercial vessels</td>
<td>Търговски кораб</td>
<td>Handelskibe</td>
<td>kommerzielle Fahrzeuge</td>
<td>Embarcacione s comerciales</td>
<td>Bateau de commerce</td>
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<td>PAX</td>
<td>Passenger vessels</td>
<td>Пътнически кораб</td>
<td>Passengerkibe</td>
<td>Fahrgastschiff e</td>
<td>Passageri s de pasajeros</td>
<td>Bateau à passagers</td>
<td>kereskedehajó</td>
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<td>PLE</td>
<td>Pleasurecraft</td>
<td>Спортен или увеселителен кораб</td>
<td>Sportovní člán</td>
<td>Passengerskibe</td>
<td>Bateau de plaisance</td>
<td>Le bateau à plaisance</td>
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<td>skupina</td>
<td>Konvojer</td>
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<td>Convoyes</td>
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<td>Потребители извън навигация</td>
<td>brugere uden for skibsfart</td>
<td>vare, andre als nautische Nutzer</td>
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<td>vare, andre als nautische Nutzer</td>
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<td>ALL</td>
<td>alle scheepvaart</td>
<td>Wszystkie jednostki</td>
<td>Todos os veículos</td>
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<td>všetci (pojišťatele)</td>
<td>vse</td>
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<td>Embarcações de comércio com mercadorias perigosas</td>
<td>Transport de matérias perigosas</td>
<td>obchodné lode s nebezpečným tovarom</td>
<td>trgovačka plovila s nebezpečným blagom</td>
<td>handelsfartyg med farlig last</td>
<td>Komercijalno plovilo s opasnim teretom</td>
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<td>Brücke</td>
<td>Γέφυρα (σταθερή, ανοιγόμενη, ανυψωνόμενη, υδραγωγούς)</td>
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<td>Überladesan</td>
<td>Ваг</td>
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<td>Бряг - речен, на канал, на езеро</td>
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<td>Ufer</td>
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<td>kotvětice</td>
<td>Ankerplatz</td>
<td>Περιοχή αγκυροβολίας</td>
<td>Ankruplats</td>
<td>Анкерплейт</td>
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<td>Mooring facility</td>
<td>Швартова, устройство</td>
<td>vyvazovací našízení</td>
<td>Festmаче і прикріплення</td>
<td>Εγκατάσταση πρόσβασης</td>
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<td>Мост на канал</td>
<td>přesostni kanalh</td>
<td>Kanalbro</td>
<td>Kanalbrücke</td>
<td>Γέφυρα καναλιού</td>
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<td>navigácia zaťarató</td>
<td>Prístavné zariadenia</td>
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<td>Опрегза за извързване</td>
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Reference Tables: Ice condition codes.

- **Ice chunk**: A dispersed ice, consisting at least 75% of ice.<ref>
- **Ice chunk, peldos ledus**: Dense ice, mostly insoluble in water, with a fraction of ice as high as 90% in height and 100% in mass.
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<td>Fahren im Geleitzug oder mit der Flusstoßhilfe</td>
<td>Eisbrecher om bord</td>
<td>Fahren im Geleitzug oder mit der Flusstoßhilfe</td>
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</tbody>
</table>
Schema XML_v3_0.xsd

attribute form default: unqualified
element form default: qualified
targetNamespace: www.ccr-zkr.org

Elements
- RIS_Message
  - communication_type
  - coordinate_type
  - fairway_section_type
  - fairway_section_wrm_type
  - ftm_type
  - geo_object_type
  - ice_condition_type
  - icem_type
  - identification_type
  - limitation_period_type
  - limitation_type
  - measure_type
  - object_type
  - RIS_Message_Type
  - target_group_type
  - validity_period_type
  - weather_item_type
  - weather_report_type
  - werm_type
  - wrm_type

Complex types
- type_code_enum

Simple types
- barrage_code_enum
- communication_code_enum
- country_code_enum
- direction_code_enum
- ice_accessibility_code_enum
- ice_classification_code_enum
- ice_condition_code_enum
- ice_situation_code_enum
- indication_code_enum
- interval_code_enum
- language_code_enum
- limitation_code_enum
- measure_code_enum
- position_code_enum
- reason_code_enum
- reference_code_enum
- regime_code_enum
- reporting_code_enum
- subject_code_enum
- target_group_code_enum
- type_code_enum
element **RIS_Message**

**namespace** www.RISexpertgroups.org

**type** nts:RIS_Message_Type

**properties** content complex


**annotation** documentation River Information Service Message

**source**

```xml
<xsl:element name="RIS_Message" type="nts:RIS_Message_Type"/>
<xsl:annotation>
    <xsl:documentation>River Information Service Message</xsl:documentation>
</xsl:annotation>
</xsl:element>
```
complexType **communication_type**

namespace www.RISexpertgroups.org

children nts:reporting_code nts:communication_code nts:number

used by element ftm_type/communication

source

```xml
<xs:complexType name="communication_type">
  <xs:sequence>
    <xs:element name="reporting_code" type="nts:reporting_code_enum">
      <xs:annotation>
        <xs:documentation>Reporting regime (information, or duty to report)</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="communication_code" type="nts:communication_code_enum">
      <xs:annotation>
        <xs:documentation>Communication type code</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="number" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Communication number, Telephone number, VHF channel, e-mail address, URL, teletext page number</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="128"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

element **communication_type/reporting_code**

```xml
<nts:reporting_code>
  Reporting regime (information, or duty to report)
</nts:reporting_code>
```
namespace www.RISexpertgroups.org

type nts:reporting_code_enum

properties
  isRef 0
  content simple

facets
  maxLength 3
  enumeration INF
  enumeration ADD
  enumeration REG

annotation
documentation Reporting regime (information, or duty to report)

source
<xs:element name="reporting_code" type="nts:reporting_code_enum">
  <xs:annotation>
    <xs:documentation>Reporting regime (information, or duty to report)</xs:documentation>
  </xs:annotation>
</xs:element>

element communication_type/communication_code

diagram

namespace www.RISexpertgroups.org

type nts:communication_code_enum

properties
  isRef 0
  content simple

facets
  maxLength 3
  enumeration TEL
  enumeration VHF
  enumeration EM
  enumeration INT
  enumeration TXT
  enumeration FAX
  enumeration LIG
  enumeration FLA
  enumeration SOU

annotation
documentation Communication type code

source
<xs:element name="communication_code" type="nts:communication_code_enum">
  <xs:annotation>
    <xs:documentation>Communication type code</xs:documentation>
  </xs:annotation>
</xs:element>

element communication_type/number

diagram

namespace www.RISexpertgroups.org

type restriction of xs:string

properties
  isRef 0
  minOcc 0
  maxOcc 1
<xs:element name="number" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Communication number, Telephone number, VHF channel, e-mail address, URL, teletext page number</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="128"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

complexType coordinate_type

diagram

namespace www.RISexpertgroups.org
children nts:lat nts:long
used by element geo_object_type/coordinate
source
<xs:complexType name="coordinate_type">
  <xs:sequence>
    <xs:element name="lat">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="12"/>
          <xs:maxLength value="13"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="long">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="12"/>
          <xs:maxLength value="13"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

element coordinate_type/lat

diagram

namespace www.RISexpertgroups.org
element `coordinate_type/long`

diagram

namespace www.RISexpertgroups.org

type restriction of `xs:string`

properties isRef 0 content simple facets minLength 12 maxLength 13

source

```xml
<xs:element name="long">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="12"/>
      <xs:maxLength value="13"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

complexType `fairway_section_type`

diagram

namespace www.RISexpertgroups.org

children `nts:geo_object` `nts:limitation`

used by elements `ftm_type/fairway_section` `icem_type/fairway_section`

source

```xml
<xs:complexType name="fairway_section_type">
  <xs:sequence>
    <xs:element name="geo_object" type="nts:geo_object_type"/>
    <xs:element name="limitation" type="nts:limitation_type" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Waterway limitation</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

```xml
<xs:complexType name="fairway_section_type">
  <xs:sequence>
    <xs:element name="geo_object" type="nts:geo_object_type"/>
    <xs:element name="limitation" type="nts:limitation_type" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Waterway limitation</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```
element `fairway_section_type/geo_object`

```
<xs:element name="geo_object" type="nts:geo_object_type"/>
```
element **fairway_section_type/limitation**

```xml
<xs:element name="limitation" type="nts:limitation_type" minOccurs="0" maxOccurs="unbounded">
    <xs:annotation>
        <xs:documentation>Waterway limitation</xs:documentation>
    </xs:annotation>
</xs:element>
```

**complexType** **fairway_section_werm_type**

```xml
<xs:complexType name="fairway_section_werm_type">
    <xs:sequence>
        <xs:element name="geo_object" type="nts:geo_object_type"/>
    </xs:sequence>
</xs:complexType>
```
element **fairway_section_werm_type/geo_object**

```
<xs:complexType>
  <xs:sequence>
    <xs:element name="geo_object" type="nts:geo_object_type"/>
  </xs:sequence>
</xs:complexType>
```

**Diagram:**

- **nts:geo_object**
  - **nts:id**
    - 1.2: Unique identification of the geo object, country specific
  - **nts:name**
    - Name of the geo object (local)
  - **nts:type_code**
    - Type code of the geo object
  - **nts:coordinate**
    - 0..2: Fairway begin and end coordinates

**Namespace:** www.RISexpertgroups.org

**Type:** nts:geo_object_type

**Properties:**
- isRef: 0
- content: complex

**Children:**
- nts:id
- nts:name
- nts:type_code
- nts:coordinate

**Source:**
```
<xs:element name="geo_object" type="nts:geo_object_type"/>
```
complexType **ftm_type**

diagram

- **nts:year**
  Year of the notice

- **nts:number**
  Sequence number of the notice in the given year

- **nts:serial_number**
  Serial number for replacements and withdrawals

- **nts:target_group**
  Target group information

- **nts:subject_code**
  Subject code contains the most important limitation code. If multiple limitations are valid, the subject code is the limitation code with the highest impact on shipping traffic

- **ftm_type**
  - **nts:validity_period**
    - **nts:contents**
      Textual contents in the original language
    - **nts:source**
      Notice source (authority)
    - **nts:reason_code**
      Reason / justification of the notice
    - **nts:communication**
      Communication channel information
    - **nts:fairway_section**
      Fairway section
    - **nts:object**

namespace **www.RISexpertgroups.org**
<xs:complexType name="ftm_type">
  <xs:sequence>
    <xs:element name="year">
      <xs:annotation>
        <xs:documentation>Year of the notice</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:gYear">
          <xs:minInclusive value="2000"/>
          <xs:maxInclusive value="9999"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="number">
      <xs:annotation>
        <xs:documentation>Sequence number of the notice in given year</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:integer">
          <xs:minInclusive value="0000"/>
          <xs:maxInclusive value="9999"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="serial_number">
      <xs:annotation>
        <xs:documentation>Serial number for replacements and withdrawals</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:integer">
          <xs:minInclusive value="00"/>
          <xs:maxInclusive value="99"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="target_group" type="nts:target_group_type" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Target group information</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="subject_code" type="nts:subject_code_enum">
      <xs:annotation>
        <xs:documentation>Subject code contains the most important limitation code, if multiple limitations are valid, the subject code is the limitation code with the highest impact on shipping traffic</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="validity_period" type="nts:validity_period_type"/>
    <xs:element name="contents" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Textual contents in the original language</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
element `ftm_type/number`  

diagram  

namespace `www.RISexpertgroups.org`  

type restriction of `xs:integer`  

properties  

isRef 0  
content simple  

facets  
minInclusive 0000  
maxInclusive 9999  

annotation  
Sequence number of the notice in given year  

source  

```
<xs:element name="number">
  <xs:annotation>
    <xs:documentation>Sequence number of the notice in given year</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:integer">
      <xs:minInclusive value="0000"/>
      <xs:maxInclusive value="9999"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```


element `ftm_type/serial_number`  

diagram  

namespace `www.RISexpertgroups.org`  

type restriction of `xs:integer`  

properties  

isRef 0  
content simple  

facets  
minInclusive 00  
maxInclusive 99  

annotation  
Serial number for replacements and withdrawals  

source  

```
<xs:element name="serial_number">
  <xs:annotation>
    <xs:documentation>Serial number for replacements and withdrawals</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:integer">
      <xs:minInclusive value="00"/>
      <xs:maxInclusive value="99"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```
element ftm_type/target_group

namespace www.RISexpertgroups.org
type nts:target_group_type
properties isRef 0
minOcc 0
maxOcc unbounded
content complex
children nts:target_group_code nts:direction_code
annotation documentation Target group information
source <xs:element name="target_group" type="nts:target_group_type" minOccurs="0"
maxOccurs="unbounded"><xs:annotation>
  <xs:documentation>Target group information</xs:documentation>
</xs:annotation>
</xs:element>

element ftm_type/subject_code

diagram

namespace www.RISexpertgroups.org
type nts:subject_code_enum
properties isRef 0
content simple
facets minLength 3
maxLength 6
enumeration OBSTRU
enumeration PAROBS
enumeration DELAY
enumeration VESLEN
enumeration VESHEI
Subject code contains the most important limitation code, if multiple limitations are valid, the subject code is the limitation code with the highest impact on shipping traffic.
element ftm_type/validity_period

diagram

namespace www.RISexpertgroups.org
type nts:validity_period_type
properties 
isRef 0
  content complex
children nts:date_start nts:date_end
source <xs:element name="validity_period" type="nts:validity_period_type"/>

element ftm_type/contents

diagram

namespace www.RISexpertgroups.org
type restriction of xs:string
properties 
isRef 0
  minOccurs 0
  maxOccurs 1
  content simple
  maxLength 500
facets annotation documentation
Textual contents in the original language
source <xs:element name="contents" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Textual contents in the original language</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="500"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

element ftm_type/source

diagram

namespace www.RISexpertgroups.org
type
properties
facets
annotation
Textual contents in the original language
source
namespace www.RISexpertgroups.org

type restriction of xs:string

properties
  isRef  0
  minOcc 0
  maxOcc 1
  content simple
  maxLength 64

facets

annotation documentation
  Notice source (authority)

source
  <xs:element name="source" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Notice source (authority)</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="64"/>
    </xs:restriction>
  </xs:simpleType>
  </xs:element>

element ftm_type/reason_code

diagram

namespace www.RISexpertgroups.org

type nts:reason_code_enum

properties
  isRef 0
  minOcc 0
  maxOcc 1
  content simple

facets

enumeration EVENT
enumeration WORK
enumeration DREDGE
enumeration EXERC
enumeration HIGWAT
enumeration HIWAI
enumeration HIWAII
enumeration LOWWAT
enumeration SHALLO
enumeration CALAMI
enumeration LAUNCH
enumeration DECLEV
enumeration FLOMEA
enumeration BLDWRK
enumeration REPAIR
enumeration INSPEC
enumeration FIRWRK
enumeration LIMITA
enumeration CHGFWY
enumeration CONSTR
enumeration DIVING
enumeration SPECTR
enumeration EXT
enumeration MIN
enumeration SOUND
enumeration OTHER
element `ftm_type/communication`

```
<xs:element name="communication" type="nts:communication_type" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Communication channel information</xs:documentation>
  </xs:annotation>
</xs:element>
```
element ftm_type/fairway_section

diagram

nts:fairway_section_type

nts:fairway_section

Fairway section

nts:geo_object

nts:limitation

Waterway limitation

namespace www.RISexpertgroups.org

type nts:fairway_section_type

properties
isRef 0
minOcc 1
maxOcc unbounded
content complex

children nts:geo_object nts:limitation

annotation documentation
Fairway section

source
<xs:element name="fairway_section" type="nts:fairway_section_type" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Fairway section</xs:documentation>
  </xs:annotation>
</xs:element>


element ftm_type/object

diagram

nts:object_type

nts:object

Geographic object

nts:geo_object

nts:limitation

Geographic object limitation

namespace www.RISexpertgroups.org

type nts:object_type

properties
isRef 0
minOcc 0
maxOcc unbounded
content complex

children nts:geo_object nts:limitation

source
<xs:element name="object" type="nts:object_type" minOccurs="0" maxOccurs="unbounded"/>
complexType geo_object_type

diagram

nts:id

nts:name

nts:type_code

nts:coordinate

namespace www.RISexpertgroups.org

children nts:id nts:name nts:type_code nts:coordinate

used by elements object_type/geo_object wrm_type/geo_object fairway_section_wrm_type/geo_object

fairway_section_type/geo_object

source

<x:complexType name="geo_object_type">
  <x:sequence>
    <x:element name="id" maxOccurs="2">
      <x:annotation>
        <x:documentation>Unique identification of the geo object, country specific</x:documentation>
      </x:annotation>
      <x:simpleType>
        <x:restriction base="xs:string">
          <x:maxLength value="64"/>
        </x:restriction>
      </x:simpleType>
    </x:element>
    <x:element name="name">
      <x:annotation>
        <x:documentation>Name of the geo object (local)</x:documentation>
      </x:annotation>
      <x:simpleType>
        <x:restriction base="xs:string">
          <x:maxLength value="64"/>
        </x:restriction>
      </x:simpleType>
    </x:element>
    <x:element name="type_code" type="nts:type_code_enum" default="FWY">
      <x:annotation>
        <x:documentation>Type code of the geo object</x:documentation>
      </x:annotation>
    </x:element>
    <x:element name="coordinate" type="nts:coordinate_type" minOccurs="0" maxOccurs="2">
      <x:annotation>
        <x:documentation>Fairway begin and end coordinates</x:documentation>
      </x:annotation>
    </x:element>
  </x:sequence>
</x:complexType>
element geo_object_type/id

diagram

Unique identification of the geo object, country specific

namespace www.RISexpertgroups.org

type restriction of xs:string

properties

  isRef  0
  minOcc 1
  maxOcc 2
  content simple
  maxLength 64

annotation documentation

Unique identification of the geo object, country specific

source

<xs:element name="id" maxOccurs="2">
  <xs:annotation>
    <xs:documentation>Unique identification of the geo object, country specific</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="64"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

---

element geo_object_type/name

diagram

Name of the geo object (local)

namespace www.RISexpertgroups.org

type restriction of xs:string

properties

  isRef  0
  content simple
  maxLength 64

annotation documentation

Name of the geo object (local)

source

<xs:element name="name">
  <xs:annotation>
    <xs:documentation>Name of the geo object (local)</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="64"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
element geo_object_type/type_code

diagram

namespace www.RISexpertgroups.org

type nts:types_code_enum

properties

isRef 0
content simple
default FWY

facets

maxLength 3
enumeration RIV
enumeration CAN
enumeration LAK
enumeration FWY
enumeration LCK
enumeration BRI
enumeration RMP
enumeration BAR
enumeration BNK
enumeration GAU
enumeration BUO
enumeration BEA
enumeration ANC
enumeration BER
enumeration MOO
enumeration TER
enumeration HAR
enumeration FDO
enumeration CAB
enumeration FER
enumeration PIP
enumeration PPO
enumeration HFA
enumeration HMO
enumeration SHY
enumeration REF
enumeration MAR
enumeration LIG
enumeration SIG
enumeration TUR
enumeration CBR
enumeration TUN
enumeration BCO
enumeration REP
enumeration FLO
enumeration SLI
enumeration DUK
enumeration VTC

annotation
documentation

source

<xs:element name="type_code" type="nts:types_code_enum" default="FWY">
<xs:annotation>
<xs:documentation>Type code of the geo object</xs:documentation>
</xs:annotation>
</xs:element>
element geo_object_type/coordinate

diagram

namespace www.RISexpertgroups.org
type nts:coordinate_type
properties
  isRef: 0
  minOccurs: 0
  maxOccurs: 2
  content: complex
children nts:lat nts:long
annotation documentation
  Fairway begin and end coordinates
source
  <xs:element name="coordinate" type="nts:coordinate_type" minOccurs="0" maxOccurs="2">
    <xs:annotation>
      <xs:documentation>Fairway begin and end coordinates</xs:documentation>
    </xs:annotation>
  </xs:element>

complexType ice_condition_type

diagram

namespace www.RISexpertgroups.org
children
  nts:measuredate nts:measuretime nts:ice_condition_code nts:ice_accessibility_code nts:ice_classification_code nts:ice_situation_code
used by element icem_type/ice_condition
source
  <xs:complexType name="ice_condition_type">
<xs:sequence>
    <xs:element name="measuredate" type="xs:date">
        <xs:annotation>
            <xs:documentation>Date of measurement</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="measuretime" type="xs:time">
        <xs:annotation>
            <xs:documentation>Time of measurement</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="ice_condition_code" type="nts:ice_condition_code_enum" minOccurs="0">
        <xs:annotation>
            <xs:documentation>Coded ice condition</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="ice_accessibility_code" type="nts:ice_accessibility_code_enum" minOccurs="0">
        <xs:annotation>
            <xs:documentation>Coded accessibility</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="ice_classification_code" type="nts:ice_classification_code_enum" minOccurs="0">
        <xs:annotation>
            <xs:documentation>Coded classification</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="ice_situation_code" type="nts:ice_situation_code_enum" minOccurs="0">
        <xs:annotation>
            <xs:documentation>Coded situation</xs:documentation>
        </xs:annotation>
    </xs:element>
</xs:sequence>

**element** ice_condition_type/measuredate

**namespace** www.RISexpertgroups.org

**type** xs:date

**properties**
- `isRef`: 0
- `simple` content
- `documentation` annotation

**source**

```xml
<xs:element name="measuredate" type="xs:date">
    <xs:annotation>
        <xs:documentation>Date of measurement</xs:documentation>
    </xs:annotation>
</xs:element>
```
element ice_condition_type/measuretime

```xml
<xs:element name="measuretime" type="xs:time">
  <xs:annotation>
    <xs:documentation>Time of measurement</xs:documentation>
  </xs:annotation>
</xs:element>
```

element ice_condition_type/ice_condition_code

```xml
<xs:element name="ice_condition_code" type="nts:ice_condition_code_enum" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Coded ice condition</xs:documentation>
  </xs:annotation>
</xs:element>
```
element ice_condition_type/ice_accessibility_code

diagram

namespace www.RISexpertgroups.org
type nts:ice_accessibility_code_enum

properties
  isRef 0
  minOcc 0
  maxOcc 1
  content simple

facets
  maxLength 1
  enumeration A
  enumeration B
  enumeration F
  enumeration L
  enumeration C
  enumeration D
  enumeration E
  enumeration G
  enumeration H
  enumeration M
  enumeration K
  enumeration T
  enumeration P
  enumeration V
  enumeration X

annotation documentation
Coded accessibility

source
<xs:element name="ice_accessibility_code" type="nts:ice_accessibility_code_enum"
  minOccurs="0">
  <xs:annotation>
    <xs:documentation>Coded accessibility</xs:documentation>
  </xs:annotation>
</xs:element>

element ice_condition_type/ice_classification_code

diagram

namespace www.RISexpertgroups.org
type nts:ice_classification_code_enum

properties
  isRef 0
  minOcc 0
  maxOcc 1
  content simple

facets
  maxLength 1
  enumeration A
  enumeration B
  enumeration C
  enumeration D
  enumeration E
  enumeration F

annotation documentation
Coded classification

source
<xs:element name="ice_classification_code" type="nts:ice_classification_code_enum"
  minOccurs="0">
element ice_condition_type/ice_situation_code
diagram
namespace www.RISexpertgroups.org
type nts:ice_situation_code_enum
properties isRef 0
    minOccurs 0
    maxOcc 1
    content simple
    maxLength 3
    enumeration NOL
    enumeration LIM
    enumeration NON
annotation documentation Coded situation
source <xs:element name="ice_situation_code" type="nts:ice_situation_code_enum" minOccurs="0">
    <xs:annotation>
        <xs:documentation>Coded situation</xs:documentation>
    </xs:annotation>
</xs:element>

complexType icem_type
diagram
namespace www.RISexpertgroups.org
children nts:validity_period nts:fairway_section nts:ice_condition
used by element RIS_Message_Type/icem
source <xs:complexType name="icem_type">
    <xs:sequence>
        <xs:element name="validity_period" type="nts:validity_period_type" minOccurs="0"/>
        <xs:element name="fairway_section" type="nts:fairway_section_type"/>
        <xs:element name="ice_condition" type="nts:ice_condition_type" maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
element icem_type/validity_period

diagram

<table>
<thead>
<tr>
<th>nts:validity_period_type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>nts:date_start</strong></td>
</tr>
<tr>
<td>Start date of the validity period</td>
</tr>
<tr>
<td><strong>nts:date_end</strong></td>
</tr>
<tr>
<td>End date of the validity period</td>
</tr>
</tbody>
</table>

namespace www.RISexpertgroups.org
type nts:validity_period_type
properties isRef 0
           minOccurs 0
           maxOcc 1
           content complex
children nts:date_start nts:date_end
source <xs:element name="validity_period" type="nts:validity_period_type" minOccurs="0"/>

element icem_type/fairway_section

diagram

<table>
<thead>
<tr>
<th>nts:fairway_section_type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>nts:geo_object</strong></td>
</tr>
<tr>
<td><strong>nts:limitation</strong></td>
</tr>
<tr>
<td>Waterway limitation</td>
</tr>
</tbody>
</table>

namespace www.RISexpertgroups.org
type nts:fairway_section_type
properties isRef 0
           content complex
children nts:geo_object nts:limitation
source <xs:element name="fairway_section" type="nts:fairway_section_type"/>
element icem_type/ice_condition

diagram

nts:ice_condition_type

- nts:measuredate
  Date of measurement
- nts:measuretime
  Time of measurement
- nts:ice_condition_code
  Coded ice condition
- nts:ice_accessibility_code
  Coded accessibility
- nts:ice_classification_code
  Coded classification
- nts:ice_situation_code
  Coded situation

namespace www.RISexpertgroups.org

type nts:ice_condition_type

properties

- isRef: 0
- minOcc: 1
- maxOcc: unbounded
- content: complex

children

nts:measuredate nts:measuretime nts:ice_condition_code nts:ice_accessibility_code nts:ice_classification_code nts:ice_situation_code

source

<xs:element name="ice_condition" type="nts:ice_condition_type" maxOccurs="unbounded"/>
complexType identification_type

namespace www.RISexpertgroups.org


used by element RIS_Message_Type/identification

source
<xs:complexType name="identification_type">
  <xs:sequence>
    <xs:element name="from">
      <xs:annotation>
        <xs:documentation>Sender of the message</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="64"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="originator">
      <xs:annotation>
        <xs:documentation>Originator (initiator) of the information in this message</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="64"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="country_code">
      <xs:annotation>
        <xs:documentation>Country where message is valid</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="64"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="language_code">
      <xs:annotation>
        <xs:documentation>Original language used in the textual information</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="64"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="district">
      <xs:annotation>
        <xs:documentation>District / Region within the specified country</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="64"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="date_issue">
      <xs:annotation>
        <xs:documentation>Date of editing including timezone</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="64"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="time_issue">
      <xs:annotation>
        <xs:documentation>Time of editing including timezone</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="64"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
element identification_type/from

diagram

Sender of the message

namespace www.RISexpertgroups.org
type restriction of xs:string
properties isRef 0
	content simple
	maxLength 64
facets
annotation documentation
Sender of the message
source
<xs:element name="from"/>
<xs:annotation>
<xs:documentation>Sender of the message</xs:documentation>
</xs:annotation>
<xs:simpleType>
<xs:restriction base="xs:string">
<xs:maxLength value="64"/>
</xs:restriction>
</xs:simpleType>
element identification_type/originator

namespace www.RISexpertgroups.org

type restriction of xs:string

properties
  isRef 0
  content simple
  maxLength 64

annotation
documentation
  Originator (initiator) of the information in this message

source
  <xs:element name="originator">
    <xs:annotation>
      <xs:documentation>Originator (initiator) of the information in this message</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="64"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>

element identification_type/country_code

diagram
  diagram

namespace www.RISexpertgroups.org

type nts:country_code_enum

properties
  isRef 0
  content simple
  maxLength 2
  enumeration AT
  enumeration BE
  enumeration BG
  enumeration CH
  enumeration CS
  enumeration CY
  enumeration CZ
  enumeration DE
  enumeration DK
  enumeration EE
  enumeration ES
  enumeration FI
  enumeration FR
  enumeration GB
  enumeration GR
  enumeration HR
  enumeration HU
  enumeration IE
element identification_type/language_code

diagram

namespace www.RISexpertgroups.org

type nts:language_code_enum

properties
  isRef 0
  content simple

facets
  maxLength 2

enumeration DE
enumeration EN
enumeration FR
enumeration NL
enumeration SK
enumeration HU
enumeration HR
enumeration SR
enumeration BG
enumeration RO
enumeration RU
enumeration CS
enumeration PL
enumeration PT
enumeration ES
enumeration SV
enumeration FI
enumeration DA
enumeration ET
enumeration LV
enumeration LT
enumeration IT
enumeration MT
enumeration EL
enumeration SL

annotation documentation

Country where message is valid

source

<xs:element name="country_code" type="nts:country_code_enum">
  <xs:annotation>
    <xs:documentation>Country where message is valid</xs:documentation>
  </xs:annotation>
</xs:element>


annotation documentation

Original language used in the textual information

source

<xs:element name="language_code" type="nts:language_code_enum">
  <xs:annotation>
  </xs:annotation>
</xs:element>
element identification_type/district

Diagram:

```
nts:district
```

District / Region within the specified country

Namespace: www.RISexpertgroups.org

Type: restriction of xs:string

Properties:
- `isRef`: 0
- `minOcc`: 0
- `maxOcc`: 1
- `content`: simple
- `maxLength`: 64

Source:

```xml
<xs:element name="district" minOccurs="0">
  <xs:annotation>
    <xs:documentation>District / Region within the specified country</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="64"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

element identification_type/date_issue

Diagram:

```
nts:date_issue
```

Date of editing including timezone

Namespace: www.RISexpertgroups.org

Type: xs:date

Properties:
- `isRef`: 0
- `minOcc`: 0
- `maxOcc`: 1
- `content`: simple

Source:

```xml
<xs:element name="date_issue" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Date of editing including timezone</xs:documentation>
  </xs:annotation>
</xs:element>
```
**element** **identification_type/time_issue**

```
<nts:time_issue/>
```

*Time of editing including timezone*

**namespace** www.RISexpertgroups.org

**type** xs:time

**properties**
- isRef: 0
- minOccurs: 0
- maxOccurs: 1
- content: simple

**annotation**

*Time of editing including timezone*

**source**

```xml
<xsi:element name="time_issue" type="xs:time" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Time of editing including timezone</xs:documentation>
  </xs:annotation>
</xsi:element>
```

**complexType** **limitation_period_type**

```
<nts:limitation_period_type>
  <nts:date_start type="xs:date">
    <xs:annotation>
      <xs:documentation>Starting date of limitation</xs:documentation>
    </xs:annotation>
  </nts:date_start>
  <nts:date_end type="xs:date" minOccurs="0">
    <xs:annotation>
      <xs:documentation>Ending date of limitation</xs:documentation>
    </xs:annotation>
  </nts:date_end>
  <nts:time_start type="xs:time">
    <xs:annotation>
      <xs:documentation>Starting time of limitation</xs:documentation>
    </xs:annotation>
  </nts:time_start>
  <nts:time_end type="xs:time">
    <xs:annotation>
      <xs:documentation>Ending time of limitation</xs:documentation>
    </xs:annotation>
  </nts:time_end>
  <nts:interval_code>
    <xs:annotation>
      <xs:documentation>Interval code of limitation</xs:documentation>
    </xs:annotation>
  </nts:interval_code>
</nts:limitation_period_type>
```

**namespace** www.RISexpertgroups.org

**children**
- nts:date_start
- nts:date_end
- nts:time_start
- nts:time_end
- nts:interval_code

**used by**
- limitation_type/limitation_period

**source**

```xml
<xsi:complexType name="limitation_period_type">
  <xs:sequence>
    <xs:element name="date_start" type="xs:date">
      <xs:annotation>
        <xs:documentation>Starting date of limitation</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="date_end" type="xs:date" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Ending date of limitation</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="time_start" type="xs:time">
      <xs:annotation>
        <xs:documentation>Starting time of limitation</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="time_end" type="xs:time">
      <xs:annotation>
        <xs:documentation>Ending time of limitation</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="interval_code">
      <xs:annotation>
        <xs:documentation>Interval code of limitation</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xsi:complexType>
```
element limitation_period_type/date_start

diagram

namespace www.RISexpertgroups.org
type xs:date
properties isRef 0
c MinOcc 0
maxOcc 1
content simple
annotation documentation Starting date of limitation
source <xs:element name="date_start" type="xs:date" minOcc="0">
  <xs:annotation>
    <xs:documentation>Starting date of limitation</xs:documentation>
  </xs:annotation>
</xs:element>


element limitation_period_type/date_end

diagram

namespace www.RISexpertgroups.org
type xs:date
properties isRef 0
minOcc 0
maxOcc 1
content simple
annotation documentation Ending date of limitation
source <xs:element name="date_end" type="xs:date" minOcc="0">
  <xs:annotation>
    <xs:documentation>Ending date of limitation</xs:documentation>
  </xs:annotation>
</xs:element>
element limitation_period_type/time_start
diagram
namespace www.RISexpertgroups.org
type xs:time
properties
- isRef 0
- minOcc 0
- maxOcc 1
- content simple
annotation documentation
source

<xs:element name="time_start" type="xs:time" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Starting time of limitation</xs:documentation>
  </xs:annotation>
</xs:element>

element limitation_period_type/time_end
diagram
namespace www.RISexpertgroups.org
type xs:time
properties
- isRef 0
- minOcc 0
- maxOcc 1
- content simple
annotation documentation
source

<xs:element name="time_end" type="xs:time" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Ending time of limitation</xs:documentation>
  </xs:annotation>
</xs:element>

element limitation_period_type/interval_code
diagram
namespace www.RISexpertgroups.org
type nts:interval_code_enum
properties
- isRef 0
- minOcc 0
- maxOcc 1
- content simple
<xs:element name="interval_code" type="nts:interval_code_enum" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Interval code of limitation</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:complexType name="limitation_type">
  <xs:sequence>
    <xs:element name="limitation_period" type="nts:limitation_period_type" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Limitation periods / intervals</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:annotation>
    <xs:documentation>ComplexType limitation_type</xs:documentation>
  </xs:annotation>
</xs:complexType>

namespace www.RISexpertgroups.org


used by elements object_type/limitation fairway_section_type/limitation

source <xs:complexType name="limitation_type">
  <xs:sequence>
    <xs:element name="limitation_period" type="nts:limitation_period_type" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Limitation periods / intervals</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
element limitation_type/limitation_period

```
<xs:complexType name="nts:limitation_period_type">
  <xs:sequence>
    <xs:element name="nts:time_start" type="xs:float" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="nts:time_end" type="xs:float" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="nts:interval_code" type="nts:interval_code_enum" minOccurs="0"/>
    <xs:element name="nts:date_start" type="xs:date" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="nts:date_end" type="xs:date" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```
element limitation_type/limitation_code

diagram

namespace www.RISexpertgroups.org
type nts:limitation_code_enum
properties isRef 0
collection simple
facets maxLength 6
enumeration OBSTRU
enumeration PAROBS
enumeration DELAY
enumeration VESLEN
enumeration VESHEI
enumeration VESBRE
enumeration VESDRA
enumeration AVALEN
enumeration CLEHEI
enumeration CLEWID
enumeration AVADEP
enumeration NOMOOR
enumeration SERVIC
enumeration NOSERV
enumeration SPEED
enumeration WAVWAS
enumeration PASSIN
enumeration ANCHOR
enumeration OVRTAK
enumeration MINPWR
enumeration ALTER
enumeration CAUTIO
enumeration NOLIM
enumeration TURNIN
enumeration NOSHORE
enumeration CONBRE
enumeration CONLEN

annotation documentation

source <xs:element name="limitation_code" type="nts:limitation_code_enum">
<xs:annotation>
<xs:documentation>Limitation code</xs:documentation>
</xs:annotation>
</xs:element>

element limitation_type/position_code

diagram

namespace www.RISexpertgroups.org
type nts:position_code_enum
properties isRef 0
collection simple
default AL
<xs:element name="position_code" type="nts:position_code_enum" default="AL">
  <xs:annotation>
    <xs:documentation>Side of the fairway</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="value" type="xs:float" minOccurs="0"/>

<xs:element name="reference_code" type="nts:reference_code_enum" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Code of the reference used in the value</xs:documentation>
  </xs:annotation>
</xs:element>
element limitation_type/indication_code

diagram

namespace www.RISexpertgroups.org

type nts:indication_code_enum

properties
  isRef  0
  minOcc  0
  maxOcc  1
  content  simple
  maxLength  3

facets
  enumeration  MAX
  enumeration  MIN
  enumeration  RED

source
<xs:element name="indication_code" type="nts:indication_code_enum" minOccurs="0"/>

annotation documentation

source <xs:element name="reference_code" type="nts:reference_code_enum" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Code of the reference used in the value</xs:documentation>
  </xs:annotation>
</xs:element>
complexType measure_type

namespace www.RISexpertgroups.org

children
nts:predicted
nts:measure_code
nts:value
nts:difference
nts:barrage_code
nts:regime_code
nts:measuredate
nts:measuretime

used by
wrm_type/measure

source
<xs:complexType name="measure_type">
  <xs:sequence>
    <xs:element name="predicted" type="xs:boolean">
      <xs:annotation>
        <xs:documentation>Predicted or actual measurement</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="measure_code" type="nts:measure_code_enum">
      <xs:annotation>
        <xs:documentation>Kind of water related information the message shows</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="value" type="xs:float" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Measured or predicted value</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="difference" type="xs:float" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Difference with previous measurement</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="barrage_code">
      <xs:annotation>
        <xs:documentation>Status of the barrage</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="regime_code">
      <xs:annotation>
        <xs:documentation>Applicable regime</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="measuredate">
      <xs:annotation>
        <xs:documentation>Date of measurement</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="measuretime">
      <xs:annotation>
        <xs:documentation>Time of measurement</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
element measure_type/predicted

diagram

namespace www.RISexpertgroups.org
type xs:boolean
properties isRef 0
content simple
annotation
documentation Predicted or actual measurement
source

<xs:element name="predicted" type="xs:boolean">
<xs:annotation>
<xs:documentation>Predicted or actual measurement</xs:documentation>
</xs:annotation>
</xs:element>

element measure_type/measure_code

diagram

namespace www.RISexpertgroups.org
element **measure_type/value**

```xml
declaration xmlns:nts="www.RISexpertgroups.org" type="nts:measure_code_enum">
  <xs:documentation>Kind of water related information the message shows</xs:documentation>
</xs:element>

```

```
<xs:element name="measure_type" value type="xs:float" minOccurs="0" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Measured or predicted value</xs:documentation>
  </xs:annotation>
</xs:element>

```

```
<xs:element name="difference" type="xs:float" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Difference with previous measurement</xs:documentation>
  </xs:annotation>
</xs:element>

```
element measure_type/barrage_code

diagram

namespace www.RISexpertgroups.org
type nts:barrage_code_enum
properties
  isRef 0
  minOccurs 0
  maxOccurs 1
  content simple
  maxLength 3
facets
  enumeration CLD
  enumeration OPG
  enumeration CLG
  enumeration OPD
  enumeration OPN
annotation documentation
source

<xs:element name="barrage_code" type="nts:barrage_code_enum" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Status of the barrage</xs:documentation>
  </xs:annotation>
</xs:element>


element measure_type/regime_code

diagram

namespace www.RISexpertgroups.org
type nts:regime_code_enum
properties
  isRef 0
  minOccurs 0
  maxOccurs 1
  content simple
  maxLength 2
facets
  enumeration NO
  enumeration HI
  enumeration I
  enumeration NN
  enumeration LO
annotation documentation
source

<xs:element name="regime_code" type="nts:regime_code_enum" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Applicable regime</xs:documentation>
  </xs:annotation>
</xs:element>
element `measure_type/measuredate`

```
<xs:element name="measuredate" type="xs:date">
  <xs:annotation>
    <xs:documentation>Date of measurement</xs:documentation>
  </xs:annotation>
</xs:element>
```

diagram `nts:measuredate`

Date of measurement

namespace `www.RISexpertgroups.org`

type `xs:date`

properties `isRef` 0

content simple

annotation Date of measurement

source `<xs:element name="measuredate" type="xs:date">
  <xs:annotation>
    <xs:documentation>Date of measurement</xs:documentation>
  </xs:annotation>
</xs:element>`


element `measure_type/measuretime`

```
<xs:element name="measuretime" type="xs:time">
  <xs:annotation>
    <xs:documentation>Time of measurement</xs:documentation>
  </xs:annotation>
</xs:element>
```

diagram `nts:measuretime`

Time of measurement

namespace `www.RISexpertgroups.org`

type `xs:time`

properties `isRef` 0

content simple

annotation Time of measurement

source `<xs:element name="measuretime" type="xs:time">
  <xs:annotation>
    <xs:documentation>Time of measurement</xs:documentation>
  </xs:annotation>
</xs:element>`

complexType `object_type`

```
<xs:complexType name="object_type">
  <xs:sequence>
    <xs:element name="geo_object" type="nts:geo_object_type"/>
    <xs:element name="limitation" type="nts:limitation_type" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

```
<xs:complexType name="object_type">
  <xs:sequence>
    <xs:element name="geo_object" type="nts:geo_object_type"/>
    <xs:element name="limitation" type="nts:limitation_type" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

diagram `object_type`

Geographic object limitation

namespace `www.RISexpertgroups.org`

children `nts:geo_object` `nts:limitation`

used by `element` `ftm_type/object`

source `<xs:complexType name="object_type">
  <xs:sequence>
    <xs:element name="geo_object" type="nts:geo_object_type"/>
    <xs:element name="limitation" type="nts:limitation_type" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>`
element **object_type/geo_object**

Diagram:

```
nts:geo_object_type
  └── nts:id
      └── 1..2
          Unique identification of the geo object, country specific
  └── nts:name
      └── Name of the geo object (local)
  └── nts:type_code
      └── Type code of the geo object
  └── nts:coordinate
      └── 0..2
          Fairway begin and end coordinates
```

namespace www.RISexpertgroups.org

type **nts:geo_object_type**

properties

- isRef: 0
- content: complex

children **nts:id, nts:name, nts:type_code, nts:coordinate**

source `<xs:element name="geo_object" type="nts:geo_object_type"/>`
element **object_type/limitation**

```
<xs:element name="limitation" type="nts:limitation_type" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Geographic object limitation</xs:documentation>
  </xs:annotation>
</xs:element>
```

**namespace** www.RISexpertgroups.org

**type** nts:limitation_type

**properties**
- isRef 0
- minOcc 0
- maxOcc unbounded
- content complex

**children**
- nts:limitation_period
- nts:limitation_code
- nts:position_code
- nts:value
- nts:reference_code
- nts:indication_code

**annotation documentation**
Geographic object limitation
complexType `RIS_Message_Type`

namespace www.RISexpertgroups.org

children
nts:identification
nts:ftm
nts:wrm
nts:icem
nts:werm

used by
element `RIS_Message`

source
```xml
<xs:complexType name="RIS_Message_Type">
  <xs:sequence>
    <xs:element name="identification" type="nts:identification_type">
      <xs:annotation>
        <xs:documentation>Identification section</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:choice>
      <xs:element name="ftm" type="nts:ftm_type" maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>Fairway and traffic related message section</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="wrm" type="nts:wrw_type" maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>Weather related message section</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="icem" type="nts:icem_type" maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>Ice related message section</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:choice>
  </xs:sequence>
</xs:complexType>
```
element RIS_Message_Type/identification

diagram

namespace www.RISexpertgroups.org
type nts:identification_type
properties isRef 0 content complex
annotation documentation Identification section
source
<xs:element name="identification" type="nts:identification_type">
  <xs:annotation>
    <xs:documentation>Identification section</xs:documentation>
  </xs:annotation>
</xs:element>
element RIS_Message_Type/ftm
element RIS_Message_Type/wrm

diagram

namespace www.RISexpertgroups.org
type nts:wrm_type
properties isRef 0
        minOcc 1
        maxOcc unbounded
        content complex
annotation documentation
        Water related message section
source <xs:element name="wrm" type="nts:wrm_type" maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation>Water related message section</xs:documentation>
        </xs:annotation>
</xs:element>
**element RIS_Message_Type/icem**

```xml
<xs:element name="icem" type="nts:icem_type" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Ice related message section</xs:documentation>
  </xs:annotation>
</xs:element>
```

**element RIS_Message_Type/werm**

```xml
<xs:element name="werm" type="nts:werm_type" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Weather related message section</xs:documentation>
  </xs:annotation>
</xs:element>
```
complexType `target_group_type`

**Diagram:***

```
s:target_group_type
   ---------------------
          \          |
           \         |
            \        |
             \       |
              \      |
               \     |
                \    |
                 \   |
                  \  |
                   \|
                    \|
                     \|
```

```
s:target_group_code

Target group code
```

```
s:direction_code

Upstream or downstream traffic
```

**Namespace:** www.RISexpertgroups.org

**Children:**
- `nts:target_group_code`
- `nts:direction_code`

**Used by:**
- `fmt_type/target_group`

**Source:**
```
<xs:complexType name="target_group_type">
  <xs:sequence>
    <xs:element name="target_group_code" type="nts:target_group_code_enum" default="ALL">
      <xs:annotation>
        <xs:documentation>Target group code</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="direction_code" type="nts:direction_code_enum" default="ALL">
      <xs:annotation>
        <xs:documentation>Upstream or downstream traffic</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

**Element:**
```
<nts:target_group_code

Target group code
```

**Namespace:** www.RISexpertgroups.org

**Type:**
- `nts:target_group_code_enum`

**Properties:**
- `isRef`: 0
- `content`: simple
- `defaultValue`: ALL

**Facets:**
- `maxLength`: 3
- `enumeration`: ALL
- `enumeration`: CDG
- `enumeration`: COM
- `enumeration`: PAX
- `enumeration`: PLE
- `enumeration`: CNV
- `enumeration`: PUS
- `enumeration`: NNU
- `enumeration`: LOA
- `enumeration`: SMA
- `enumeration`: CND

**Documentation:**
Weather related message section
element target_group_type/direction_code

complexType validity_period_type

annotation documentation
Target group code

source
<xs:element name="target_group_code" type="nts:target_group_code_enum" default="ALL">
<xs:annotation>
<xs:documentation>Target group code</xs:documentation>
</xs:annotation>
</xs:element>

element target_group_type/direction_code

diagram

namespace www.RISexpertgroups.org
type nts:direction_code_enum
properties isRef 0
content simple
default ALL
facets maxLength 3
enumeration ALL
enumeration UPS
enumeration DWN
documentation
annotation documentation
Upstream or downstream traffic

source
<xs:element name="direction_code" type="nts:direction_code_enum" default="ALL">
<xs:annotation>
<xs:documentation>Upstream or downstream traffic</xs:documentation>
</xs:annotation>
</xs:element>

complexType validity_period_type

diagram

namespace www.RISexpertgroups.org
children nts:date_start nts:date_end
used by elements ftm_type/validity_period wrm_type/validity_period icem_type/validity_period werm_type/validity_period
source
<xs:complexType name="validity_period_type">
<xs:sequence>
<xs:element name="date_start" type="xs:date">
<xs:annotation>
<xs:documentation>Start date of the validity period</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="date_end" type="xs:date">
<xs:annotation>
<xs:documentation>End date of the validity period</xs:documentation>
</xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
element **validity_period_type/date_start**

- **namespace**: www.RISexpertgroups.org
- **type**: xs:date
- **properties**: isRef 0, content simple
- **annotation documentation**: Start date of the validity period

```xml
<xs:element name="date_start" type="xs:date">
  <xs:annotation>
    <xs:documentation>Start date of the validity period</xs:documentation>
  </xs:annotation>
</xs:element>
```

element **validity_period_type/date_end**

- **namespace**: www.RISexpertgroups.org
- **type**: xs:date
- **properties**: isRef 0, content simple
- **annotation documentation**: End date of the validity period

```xml
<xs:element name="date_end" type="xs:date">
  <xs:annotation>
    <xs:documentation>End date of the validity period</xs:documentation>
  </xs:annotation>
</xs:element>
```
complexType weather_item_type

diagram

namespace www.RISexpertgroups.org

children
nts:weather_item_code nts:value_min nts:value_max nts:value_gusts nts:weather_category_code nts:direction_code_min nts:direction_code_max

used by
element weather_report_type/weather_item

source
<xs:complexType name="weather_item_type">
  <xs:sequence>
    <xs:element name="weather_item_code">
      <xs:annotation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="2"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="value_min" type="xs:float">
      <xs:annotation>
        <xs:documentation>Actual value or min value. Units depending on item type</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="value_max" type="xs:float" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Max value units depending on item type</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="value_gusts" type="xs:float" minOccurs="0"/>
    <xs:element name="weather_category_code"></xs:element>
    <xs:element name="direction_code_min"></xs:element>
    <xs:element name="direction_code_max"></xs:element>
  </xs:sequence>
</xs:complexType>
<xs:element name="weather_category_code" minOccurs="0">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

<xs:element name="direction_code_min" minOccurs="0">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

<xs:element name="direction_code_max" minOccurs="0">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

<xs:element name="weather_item_type/weather_item_code">
  <xs:annotation>
    <xs:documentation>
      Weather item: Wind, Wave, Visibility, Rain, Snow, Airtemp, Watertemp
    </xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

namespace www.RISexpertgroups.org
type restriction of xs:string
properties
  isRef 0
  content simple
  facets
    maxLength 2
annotation documentation
  Weather item: Wind, Wave, Visibility, Rain, Snow, Airtemp, Watertemp
source
  <xs:element name="weather_item_code">
    <xs:annotation>
      <xs:documentation>
        Weather item: Wind, Wave, Visibility, Rain, Snow, Airtemp, Watertemp
      </xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="2"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
element weather_item_type/value_min

diagram

namespace www.RISexpertgroups.org
type xs:float
properties
  isRef 0
  content simple
annotation
documentation
  Actual value or min value. Units depending on item type
source
  <xs:element name="value_min" type="xs:float">
    <xs:annotation>
      <xs:documentation>Actual value or min value. Units depending on item type</xs:documentation>
    </xs:annotation>
  </xs:element>

element weather_item_type/value_max

namespace www.RISexpertgroups.org
type xs:float
properties
  isRef 0
  minOcc 0
  maxOcc 1
  content simple
annotation
documentation
  Max value units depending on itemtype
source
  <xs:element name="value_max" type="xs:float" minOccurs="0">
    <xs:annotation>
      <xs:documentation>Max value units depending on itemtype</xs:documentation>
    </xs:annotation>
  </xs:element>

element weather_item_type/value_gusts

diagram

namespace www.RISexpertgroups.org
type xs:float
properties
  isRef 0
  minOcc 0
  maxOcc 1
  content simple
source
  <xs:element name="value_gusts" type="xs:float" minOccurs="0"/>
element weather_item_type/weather_category_code

diagram

namespace www.RISexpertgroups.org
type restriction of xs:string
properties
  isRef  0
  minOcc 0
  maxOcc 1
  content simple
facets
  maxLength 2
source

<xs:element name="weather_category_code" minOccurs="0">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>


element weather_item_type/direction_code_min

diagram

namespace www.RISexpertgroups.org
type restriction of xs:string
properties
  isRef  0
  minOcc 0
  maxOcc 1
  content simple
facets
  maxLength 2
source

<xs:element name="direction_code_min" minOccurs="0">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

element weather_item_type/direction_code_max

diagram

namespace www.RISexpertgroups.org
type restriction of xs:string
properties
  isRef  0
  minOcc 0
  maxOcc 1
  content simple
facets
  maxLength 2
complexType **weather_report_type**

- **nts:forecast**
  - Forecast (true) OR Actual report (false)

- **nts:weather_class_code**
  - Classification of weather report

- **nts:weather_item**

**namespace** www.RISexpertgroups.org

**children**
- **nts:forecast**
- **nts:weather_class_code**
- **nts:weather_item**

**used by**
- element, **werm_type/weather_report**

**source**
```xml
<xs:complexType name="weather_report_type">
  <xs:sequence>
    <xs:element name="forecast" type="xs:boolean">
      <xs:annotation>
        <xs:documentation>Forecast (true) OR Actual report (false)</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="weather_class_code" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Classification of weather report</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="weather_item" type="nts:weather_item_type" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```
element weather_report_type/forecast

diagram

namespace www.RISexpertgroups.org

type xs:boolean

properties
  isRef 0
  content simple

annotation
documentation
  Forecast (true) OR Actual report (false)

source
  <xs:element name="forecast" type="xs:boolean">
    <xs:annotation>
      <xs:documentation>Forecast (true) OR Actual report (false)</xs:documentation>
    </xs:annotation>
  </xs:element>

element weather_report_type/weather_class_code

diagram

namespace www.RISexpertgroups.org

type restriction of xs:string

properties
  isRef 0
  minOcc 1
  maxOcc unbounded
  content simple

facets
  maxLength 6

annotation
documentation
  Classification of weather report

source
  <xs:element name="weather_class_code" maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>Classification of weather report</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="6"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
element **weather_report_type/weather_item**

```xml
<xs:element name="weather_item" type="nts:weather_item_type" minOccurs="0" maxOccurs="unbounded"/>
```

complexType **werm_type**

```xml
<xs:complexType name="werm_type">
  <xs:sequence>
    <xs:element name="nts:validity_period"/>
    <xs:element name="nts:fairway_section"/>
    <xs:element name="nts:weather_report" maxOccurs="2"/>
  </xs:sequence>
</xs:complexType>
```
used by element RIS_Message_Type/werm

source
<xs:complexType name="werm_type">
<xs:sequence>
<xs:element name="validity_period" type="nts:validity_period_type"/>
<xs:element name="fairway_section" type="nts:fairway_section_werm_type"/>
<xs:element name="weather_report" type="nts:weather_report_type" maxOccurs="2">
<xs:annotation>
<xs:documentation>Actual or Forecast report sections</xs:documentation>
</xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>

element werm_type/validity_period
diagram

namespace www.RISexpertgroups.org
type nts:validity_period_type
properties isRef 0 content complex
children nts:date_start nts:date_end
source <xs:element name="validity_period" type="nts:validity_period_type"/>

element werm_type/fairway_section
diagram

namespace www.RISexpertgroups.org
type nts:fairway_section_werm_type
properties isRef 0 content complex
children nts:geo_object
source <xs:element name="fairway_section" type="nts:fairway_section_werm_type"/>
element `werm_type/weather_report`

- diagram

- `nts:weather_report_type`
  - `nts:forecast` (Forecast (true) OR Actual report (false))
  - `nts:weather_class_code` (Classification of weather report)
  - `nts:weather_item` (0..n)

- `nts:weather_report`

- namespace `www.RISexpertgroups.org`
- `type` `nts:weather_report_type`
- `properties`
  - `isRef` 0
  - `minOcc` 1
  - `maxOcc` 2
  - `content` complex

- `children`
  - `nts:forecast`
  - `nts:weather_class_code`
  - `nts:weather_item`

- `annotation documentation`
  - Actual or Forecast report sections

- `source`

```xml
<xs:element name="weather_report" type="nts:weather_report_type" maxOccurs="2">
  <xs:annotation>
    <xs:documentation>Actual or Forecast report sections</xs:documentation>
  </xs:annotation>
</xs:element>
```

`complexType` `wrm_type`

- diagram

- `nts:validity_period`
- `nts:geo_object`
- `nts:reference_code`
- `nts:measure`

- namespace `www.RISexpertgroups.org`
- `children`
  - `nts:validity_period`
  - `nts:geo_object`
  - `nts:reference_code`
  - `nts:measure`
- `used by` element `RIS_Message_Type/wrm`
- `source`

```xml
<xs:complexType name="wrm_type">
  <xs:sequence>
    <xs:element name="validity_period" type="nts:validity_period_type" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```
element `wrm_type/validity_period`

```
<xs:element name="validity_period" type="nts:validity_period_type" minOccurs="0"/>
```

Diagram:
```
nts:validity_period_type

nts:validity_period

nts:date_start
Start date of the validity period

nts:date_end
End date of the validity period
```

namespace `www.RISexpertgroups.org`

type `nts:validity_period_type`

properties
- isRef 0
- minOcc 0
- maxOcc 1
- content complex

children
- `nts:date_start`
- `nts:date_end`

source
```
<xs:element name="validity_period" type="nts:validity_period_type" minOccurs="0"/>
```
element wrm_type/geo_object

diagram

namespace www.RISexpertgroups.org
type nts:geo_object_type
properties
  isRef 0
  content complex
children
nts:id nts:name nts:type_code nts:coordinate
source
<xs:element name="geo_object" type="nts:geo_object_type"/>

element wrm_type/reference_code

diagram

namespace www.RISexpertgroups.org
type nts:reference_code_enum
properties
  isRef 0
  minOccurs 0
  maxOccurs 1
  content simple
  max_length 4
facets
  enumeration NAP
  enumeration KP
  enumeration FZP
  enumeration ADR
  enumeration TAW
  enumeration PUL
  enumeration NGM
  enumeration ETRS
  enumeration POT
  enumeration LDC
  enumeration HDC
  enumeration ZPG
  enumeration GLW
element wrm_type/measure

documentation
Code of the reference used in the value

source
<x:element name="reference_code" type="nts:reference_code_enum" minOccurs="0">
  <x:annotation>
    <x:documentation>Code of the reference used in the value</x:documentation>
  </x:annotation>
</x:element>

namespace www.RISexpertgroups.org
type nts:measure_type
properties
  isRef 0
  minOcc 1
  maxOcc unbounded
  content complex
simpleType `barrage_code_enum`

namespace www.RISexpertgroups.org

type restriction of `xs:string`

used by element `measure_type/barrage_code`

facets
- maxLength 3
- enumeration CLD
- enumeration OPG
- enumeration CLG
- enumeration OPD
- enumeration OPN

source
```xml
<xs:simpleType name="barrage_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="3"/>
    <xs:enumeration value="CLD"/>
    <xs:enumeration value="OPG"/>
    <xs:enumeration value="CLG"/>
    <xs:enumeration value="OPD"/>
    <xs:enumeration value="OPN"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType `communication_code_enum`

namespace www.RISexpertgroups.org

type restriction of `xs:string`

used by element `communication_type/communication_code`

facets
- maxLength 3
- enumeration TEL
- enumeration VHF
- enumeration EM
- enumeration INT
- enumeration TXT
- enumeration FAX
- enumeration LIG
- enumeration FLA
- enumeration SOU

source
```xml
<xs:simpleType name="communication_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="3"/>
    <xs:enumeration value="TEL"/>
    <xs:enumeration value="VHF"/>
    <xs:enumeration value="EM"/>
    <xs:enumeration value="INT"/>
    <xs:enumeration value="TXT"/>
    <xs:enumeration value="FAX"/>
    <xs:enumeration value="LIG"/>
    <xs:enumeration value="FLA"/>
    <xs:enumeration value="SOU"/>
  </xs:restriction>
</xs:simpleType>
```
simpleType country_code_enum
namespace www.RISexpertgroups.org
   type restriction of xs:string
   used by element identification_type/country_code
   facets
      maxLength 2
      enumeration AT
      enumeration BE
      enumeration BG
      enumeration CH
      enumeration CS
      enumeration CY
      enumeration CZ
      enumeration DE
      enumeration DK
      enumeration EE
      enumeration ES
      enumeration FI
      enumeration FR
      enumeration GB
      enumeration GR
      enumeration HR
      enumeration HU
      enumeration IE
      enumeration IT
      enumeration LT
      enumeration LU
      enumeration LV
      enumeration MD
      enumeration MT
      enumeration NL
      enumeration PL
      enumeration PT
      enumeration RO
      enumeration SE
      enumeration SI
      enumeration SK
      enumeration RU
      enumeration UA
source
<xs:simpleType name="country_code_enum">
   <xs:restriction base="xs:string">
      <xs:maxLength value="2"/>
      <xs:enumeration value="AT"/>
      <xs:enumeration value="BE"/>
      <xs:enumeration value="BG"/>
      <xs:enumeration value="CH"/>
      <xs:enumeration value="CS"/>
      <xs:enumeration value="CY"/>
      <xs:enumeration value="CZ"/>
      <xs:enumeration value="DE"/>
      <xs:enumeration value="DK"/>
      <xs:enumeration value="EE"/>
      <xs:enumeration value="ES"/>
      <xs:enumeration value="FI"/>
      <xs:enumeration value="FR"/>
      <xs:enumeration value="GB"/>
      <xs:enumeration value="GR"/>
      <xs:enumeration value="HR"/>
      <xs:enumeration value="HU"/>
      <xs:enumeration value="IE"/>
   </xs:restriction>
</xs:simpleType>
simpleType direction_code_enum
namespace www.RISexpertgroups.org
type restriction of xs:string
used by element target_group_type/direction_code
facets maxLength 3
    enumeration ALL
    enumeration UPS
    enumeration DWN
source <xs:simpleType name="direction_code_enum">
    <xs:restriction base="xs:string">
        <xs:maxLength value="3"/>
        <xs:enumeration value="ALL"/>
        <xs:enumeration value="UPS"/>
        <xs:enumeration value="DWN"/>
    </xs:restriction>
</xs:simpleType>

simpleType ice_accessibility_code_enum
namespace www.RISexpertgroups.org
type restriction of xs:string
used by element ice_condition_type/ice_accessibility_code
facets maxLength 1
    enumeration A
    enumeration B
    enumeration C
    enumeration D
    enumeration E
    enumeration F
    enumeration G
    enumeration H
    enumeration I
    enumeration J
    enumeration K
    enumeration L
    enumeration M
    enumeration N
    enumeration O
    enumeration P
    enumeration Q
    enumeration R
    enumeration S
    enumeration T
    enumeration U
    enumeration V
source <xs:simpleType name="ice_accessibility_code_enum">
    <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
        <xs:enumeration value="A"/>
        <xs:enumeration value="B"/>
        <xs:enumeration value="C"/>
        <xs:enumeration value="D"/>
        <xs:enumeration value="E"/>
        <xs:enumeration value="F"/>
        <xs:enumeration value="G"/>
        <xs:enumeration value="H"/>
        <xs:enumeration value="I"/>
        <xs:enumeration value="J"/>
        <xs:enumeration value="K"/>
        <xs:enumeration value="L"/>
        <xs:enumeration value="M"/>
        <xs:enumeration value="N"/>
        <xs:enumeration value="O"/>
        <xs:enumeration value="P"/>
        <xs:enumeration value="Q"/>
        <xs:enumeration value="R"/>
        <xs:enumeration value="S"/>
        <xs:enumeration value="T"/>
        <xs:enumeration value="U"/>
        <xs:enumeration value="V"/>
    </xs:restriction>
</xs:simpleType>
simpleType `ice_classification_code_enum`

namespace `www.RISexpertgroups.org`

type restriction of `xs:string`

used by element `ice_condition_type/ice_classification_code`

facets
- maxLength 1
- enumeration A
- enumeration B
- enumeration C
- enumeration D
- enumeration E

source

```xml
<xs:simpleType name="ice_classification_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="1"/>
    <xs:enumeration value="A"/>
    <xs:enumeration value="B"/>
    <xs:enumeration value="C"/>
    <xs:enumeration value="D"/>
    <xs:enumeration value="E"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType `ice_condition_code_enum`

namespace `www.RISexpertgroups.org`

type restriction of `xs:string`

used by element `ice_condition_type/ice_condition_code`

facets
- maxLength 1
- enumeration A
- enumeration B
- enumeration C

source

```xml
<xs:simpleType name="ice_condition_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="1"/>
    <xs:enumeration value="A"/>
    <xs:enumeration value="B"/>
    <xs:enumeration value="C"/>
  </xs:restriction>
</xs:simpleType>
```
source <xs:simpleType name="ice_condition_code_enum">
<xs:restriction base="xs:string">
<xs:maxLength value="1"/>
<xs:enumeration value="A"/>
<xs:enumeration value="B"/>
<xs:enumeration value="C"/>
<xs:enumeration value="D"/>
<xs:enumeration value="E"/>
<xs:enumeration value="F"/>
<xs:enumeration value="G"/>
<xs:enumeration value="H"/>
<xs:enumeration value="K"/>
<xs:enumeration value="L"/>
<xs:enumeration value="M"/>
<xs:enumeration value="P"/>
<xs:enumeration value="R"/>
<xs:enumeration value="S"/>
<xs:enumeration value="U"/>
<xs:enumeration value="O"/>
<xs:enumeration value="V"/>
</xs:restriction>
</xs:simpleType>

simpleType ice_situation_code_enum
namespace www.RISexpertgroups.org
type restriction of xs:string
used by element ice_condition_type/ice_situation_code
facets maxLength 3
enumeration NOL
enumeration LIM
enumeration NON
source <xs:simpleType name="ice_situation_code_enum">
<xs:restriction base="xs:string">
<xs:maxLength value="3"/>
<xs:enumeration value="NOL"/>
<xs:enumeration value="LIM"/>
<xs:enumeration value="NON"/>
</xs:restriction>
</xs:simpleType>
simpleType *indication_code_enum*

namespace www.RISexpertgroups.org

type restriction of *xs:string*

used by element *limitation_type/indication_code*

facets maxLength 3

enumeration MAX

enumeration MIN

enumeration RED

source

```xml
<xs:simpleType name="indication_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="3"/>
    <xs:enumeration value="MAX"/>
    <xs:enumeration value="MIN"/>
    <xs:enumeration value="RED"/>
  </xs:restriction>
</xs:simpleType>
```


simpleType *interval_code_enum*

namespace www.RISexpertgroups.org

type restriction of *xs:string*

used by element *limitation_period_type/interval_code*

facets maxLength 3

enumeration CON

enumeration DAY

enumeration WRK

enumeration WKN

enumeration SUN

enumeration MON

enumeration TUE

enumeration WED

enumeration THU

enumeration FRI

enumeration SAT

enumeration DTI

enumeration NTI

enumeration RVI

enumeration EXC

source

```xml
<xs:simpleType name="interval_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="3"/>
    <xs:enumeration value="CON"/>
    <xs:enumeration value="DAY"/>
    <xs:enumeration value="WRK"/>
    <xs:enumeration value="WKN"/>
    <xs:enumeration value="SUN"/>
    <xs:enumeration value="MON"/>
    <xs:enumeration value="TUE"/>
    <xs:enumeration value="WED"/>
    <xs:enumeration value="THU"/>
    <xs:enumeration value="FRI"/>
    <xs:enumeration value="SAT"/>
    <xs:enumeration value="DTI"/>
    <xs:enumeration value="NTI"/>
    <xs:enumeration value="RVI"/>
    <xs:enumeration value="EXC"/>
  </xs:restriction>
</xs:simpleType>
```
simpleType language_code_enum

namespace www.RISexpertgroups.org

type restriction of xs:string

facets

maxLength 2
enumeration DE
enumeration EN
enumeration FR
enumeration NL
enumeration SK
enumeration HU
enumeration HR
enumeration SR
enumeration BG
enumeration RO
enumeration RU
enumeration CS
enumeration PL
enumeration PT
enumeration ES
enumeration SV
enumeration FI
enumeration DA
enumeration ET
enumeration LV
enumeration LT
enumeration IT
enumeration MT
enumeration EL
enumeration SL

source

<xs:simpleType name="language_code_enum">
<xs:restriction base="xs:string">
<xs:maxLength value="2"/>
<xs:enumeration value="DE"/>
<xs:enumeration value="EN"/>
<xs:enumeration value="FR"/>
<xs:enumeration value="NL"/>
<xs:enumeration value="SK"/>
<xs:enumeration value="HU"/>
<xs:enumeration value="HR"/>
<xs:enumeration value="SR"/>
<xs:enumeration value="BG"/>
<xs:enumeration value="RO"/>
<xs:enumeration value="RU"/>
<xs:enumeration value="CS"/>
<xs:enumeration value="PL"/>
<xs:enumeration value="PT"/>
<xs:enumeration value="ES"/>
<xs:enumeration value="SV"/>
<xs:enumeration value="FI"/>
<xs:enumeration value="DA"/>
<xs:enumeration value="ET"/>
<xs:enumeration value="LV"/>
<xs:simpleType name="limitation_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="6"/>
    <xs:enumeration value="OBSTRU"/>
    <xs:enumeration value="PAROBS"/>
    <xs:enumeration value="DELAY"/>
    <xs:enumeration value="VESLEN"/>
    <xs:enumeration value="VESHEI"/>
    <xs:enumeration value="VESBRE"/>
    <xs:enumeration value="VESDRA"/>
    <xs:enumeration value="AVALEN"/>
    <xs:enumeration value="CLEHEI"/>
    <xs:enumeration value="CLEWID"/>
    <xs:enumeration value="AVADEP"/>
    <xs:enumeration value="NOMOOR"/>
    <xs:enumeration value="SERVIC"/>
    <xs:enumeration value="NOSERV"/>
    <xs:enumeration value="SPEED"/>
    <xs:enumeration value="WAVWAS"/>
    <xs:enumeration value="PASSIN"/>
    <xs:enumeration value="ANCHOR"/>
    <xs:enumeration value="OVRTAK"/>
    <xs:enumeration value="MINPWR"/>
    <xs:enumeration value="ALTER"/>
    <xs:enumeration value="CAUTIO"/>
    <xs:enumeration value="NOLIM"/>
    <xs:enumeration value="TURIN"/>
    <xs:enumeration value="NOSHORE"/>
    <xs:enumeration value="CONBRE"/>
    <xs:enumeration value="CONLEN"/>
  </xs:restriction>
</xs:simpleType>
simpleType measure_code_enum
namespace www.RISexpertgroups.org
type restriction of xs:string
used by element measure_type/measure_code
facets maxLength 3
enumeration DIS
enumeration REG
enumeration BAR
enumeration VER
enumeration LSD
enumeration WAL
enumeration NOM
source
<xs:simpleType name="measure_code_enum">
<xs:restriction base="xs:string">
<xs:maxLength value="3"/>
<xs:enumeration value="DIS"/>
<xs:enumeration value="REG"/>
<xs:enumeration value="BAR"/>
<xs:enumeration value="VER"/>
<xs:enumeration value="LSD"/>
<xs:enumeration value="WAL"/>
<xs:enumeration value="NOM"/>
</xs:restriction>
</xs:simpleType>

simpleType position_code_enum
namespace www.RISexpertgroups.org
type restriction of xs:string
used by element limitation_type/position_code
facets maxLength 2
enumeration AL
enumeration LE
enumeration MI
enumeration RI
enumeration LB
enumeration RB
enumeration N
enumeration NE
enumeration E
<xs:simpleType name="position_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="2"/>
    <xs:enumeration value="AL"/>
    <xs:enumeration value="LE"/>
    <xs:enumeration value="MI"/>
    <xs:enumeration value="RI"/>
    <xs:enumeration value="LB"/>
    <xs:enumeration value="RB"/>
    <xs:enumeration value="N"/>
    <xs:enumeration value="NE"/>
    <xs:enumeration value="E"/>
    <xs:enumeration value="SE"/>
    <xs:enumeration value="S"/>
    <xs:enumeration value="SW"/>
    <xs:enumeration value="W"/>
    <xs:enumeration value="NW"/>
    <xs:enumeration value="BI"/>
    <xs:enumeration value="SM"/>
    <xs:enumeration value="OL"/>
    <xs:enumeration value="EW"/>
    <xs:enumeration value="MP"/>
    <xs:enumeration value="FP"/>
    <xs:enumeration value="VA"/>
  </xs:restriction>
</xs:simpleType>

simpleType reason_code_enum
namespace www.RISexpertgroups.org
type restriction of xs:string
used by element ftm_type/reason_code
facets
  minLength 3
  maxLength 6
enumeration EVENT
enumeration WORK
enumeration DREDGE
enumeration EXERC
enumeration HIGWAT
enumeration HIWAI
enumeration HIWAIII
enumeration LOWWAT
enumeration SHALLO
enumeration CALAMI
enumeration LAUNCH
enumeration DECLEV
enumeration FLOMEA
<xs:simpleType name="reason_code_enum">
  <xs:restriction base="xs:string">
    <xs:minLength value="3"/>
    <xs:maxLength value="6"/>
    <xs:enumeration value="EVENT"/>
    <xs:enumeration value="WORK"/>
    <xs:enumeration value="DREDGE"/>
    <xs:enumeration value="EXERC"/>
    <xs:enumeration value="HIGWAT"/>
    <xs:enumeration value="HIWAI"/>
    <xs:enumeration value="HIWAII"/>
    <xs:enumeration value="LOWWAT"/>
    <xs:enumeration value="SHALLO"/>
    <xs:enumeration value="CALAMI"/>
    <xs:enumeration value="LAUNCH"/>
    <xs:enumeration value="DECLAV"/>
    <xs:enumeration value="FLOMEA"/>
    <xs:enumeration value="BLDWRK"/>
    <xs:enumeration value="REPAIR"/>
    <xs:enumeration value="INSPEC"/>
    <xs:enumeration value="FIRWRK"/>
    <xs:enumeration value="LIMITA"/>
    <xs:enumeration value="CHGFWY"/>
    <xs:enumeration value="CONSTR"/>
    <xs:enumeration value="DIVING"/>
    <xs:enumeration value="SPECTR"/>
    <xs:enumeration value="EXT"/>
    <xs:enumeration value="MIN"/>
    <xs:enumeration value="SOUND"/>
    <xs:enumeration value="OTHER"/>
    <xs:enumeration value="INFSER"/>
    <xs:enumeration value="STRIKE"/>
    <xs:enumeration value="FLOMAT"/>
    <xs:enumeration value="EXPLOS"/>
  </xs:restriction>
</xs:simpleType>
simpleType `regime_code_enum`

namespace www.RISexpertgroups.org
type restriction of `xs:string`

used by element `measure_type/regime_code`

facets

- `maxLength` 2
- `enumeration` NO
- `enumeration` HI
- `enumeration` II
- `enumeration` NN
- `enumeration` LO
source <xs:simpleType name="regime_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="2"/>
    <xs:enumeration value="NO"/>
    <xs:enumeration value="HI"/>
    <xs:enumeration value="II"/>
    <xs:enumeration value="I"/>
    <xs:enumeration value="NN"/>
    <xs:enumeration value="LO"/>
  </xs:restriction>
</xs:simpleType>

simpleType reporting_code_enum
namespace www.RISexpertgroups.org
type restriction of xs:string
used by element communication_type/reporting_code
facets
  maxLength 3
  enumeration INF
  enumeration ADD
  enumeration REG
source <xs:simpleType name="reporting_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="3"/>
    <xs:enumeration value="INF"/>
    <xs:enumeration value="ADD"/>
    <xs:enumeration value="REG"/>
  </xs:restriction>
</xs:simpleType>

simpleType subject_code_enum
namespace www.RISexpertgroups.org
type restriction of xs:string
used by element ftm_type/subject_code
facets
  minLength 3
  maxLength 6
  enumeration OBSTRU
  enumeration PAROBS
  enumeration DELAY
  enumeration VESLEN
  enumeration VESHEI
  enumeration VESBRE
  enumeration VESDBR
  enumeration AVALEN
  enumeration CLEHEI
  enumeration CLEWID
  enumeration AVADEP
  enumeration NOMOOR
  enumeration SERVIC
  enumeration NOSERV
  enumeration SPEED
  enumeration WAVWAS
  enumeration PASSIN
  enumeration ANCHOR
  enumeration OVRTAK
  enumeration MINPWR
enumeration DREDGE
enumeration WORK
enumeration EVENT
enumeration CHGMAR
enumeration CHGSER
enumeration SPCMAR
enumeration EXERC
enumeration LEADEP
enumeration LEVDEC
enumeration LEVRIS
enumeration ANNOUN
enumeration LIMITA
enumeration CANCEL
enumeration MISECH
enumeration ECDISU
enumeration NEWOBJ
enumeration WARNIN
enumeration CHWWY
enumeration CONWWY
enumeration DIVER
enumeration SPECTR
enumeration LOCRUL
enumeration VHFCOV
enumeration HIGVOL
enumeration TURNIN
enumeration CONBRE
enumeration CONLEN
enumeration REMOBJ

code

<source>
<xs:simpleType name='subject_code_enum'>
<xs:restriction base='xs:string'>
<xs:minLength value='3'/>
<xs:maxLength value='6'/>
<xs:enumeration value='OBSTRU'/>
<xs:enumeration value='PAROBS'/>
<xs:enumeration value='DELAY'/>
<xs:enumeration value='VESLEN'/>
<xs:enumeration value='VESHEI'/>
<xs:enumeration value='VESBRE'/>
<xs:enumeration value='VESDRA'/>
<xs:enumeration value='AVALEN'/>
<xs:enumeration value='CLEHEI'/>
<xs:enumeration value='CLEWID'/>
<xs:enumeration value='AVADEP'/>
<xs:enumeration value='NOMOOR'/>
<xs:enumeration value='SERVIC'/>
<xs:enumeration value='NOSERV'/>
<xs:enumeration value='SPEED'/>
<xs:enumeration value='WAVWAS'/>
<xs:enumeration value='PASSIN'/>
<xs:enumeration value='ANCHOR'/>
<xs:enumeration value='OVRTAK'/>
<xs:enumeration value='MINPWR'/>
<xs:enumeration value='DREDGE'/>
<xs:enumeration value='WORK'/>
<xs:enumeration value='EVENT'/>
<xs:enumeration value='CHGMAR'/>
<xs:enumeration value='CHGSER'/>
<xs:enumeration value='SPCMAR'/>
<xs:enumeration value='EXERC'/>
<xs:enumeration value='LEADEP'/>
<xs:enumeration value='LEVDEC'/>
</xs:restriction>
</xs:simpleType>
</source>
simpleType target_group_code_enum
namespace www.RISexpertgroups.org
type restriction of xs:string
used by element target_group_type/target_group_code
facets
  maxLength 3
  enumeration ALL
  enumeration CDG
  enumeration COM
  enumeration PAX
  enumeration PLE
  enumeration CNV
  enumeration PUS
  enumeration NNU
  enumeration LOA
  enumeration SMA
  enumeration CND
source
<xs:restriction base="xs:string">
  <xs:maxLength value="3"/>
  <xs:enumeration value="ALL"/>
  <xs:enumeration value="CDG"/>
  <xs:enumeration value="COM"/>
  <xs:enumeration value="PAX"/>
  <xs:enumeration value="PLE"/>
  <xs:enumeration value="CNV"/>
  <xs:enumeration value="PUS"/>
  <xs:enumeration value="NNU"/>
  <xs:enumeration value="LOA"/>
  <xs:enumeration value="SMA"/>
  <xs:enumeration value="CND"/>
</xs:restriction>
</xs:simpleType>
simpleType **type_code_enum**

namespace www.RISexpertgroups.org

type restriction of xs:string

used by element geo_object_type/type_code

facets

maxLength 3

enumeration RIV

enumeration CAN

enumeration LAK

enumeration FWY

enumeration LCK

enumeration BRI

enumeration RMP

enumeration BAR

enumeration BNK

enumeration GAU

enumeration BUO

enumeration BEA

enumeration ANC

enumeration BER

enumeration MOO

enumeration TER

enumeration HAR

enumeration FDO

enumeration CAB

enumeration FER

enumeration PIP

enumeration PPO

enumeration HFA

enumeration HMO

enumeration SHY

enumeration REF

enumeration MAR

enumeration LIG

enumeration SIG

enumeration TUR

enumeration CBR

enumeration TUN

enumeration BCO

enumeration REP

enumeration FLO

enumeration SLI

enumeration DUK

enumeration VTC

source

<xs:simpleType name="type_code_enum">
  <xs:restriction base="xs:string">
    <xs:maxLength value="3"/>
    <xs:enumeration value="RIV"/>
    <xs:enumeration value="CAN"/>
    <xs:enumeration value="LAK"/>
    <xs:enumeration value="FWY"/>
    <xs:enumeration value="LCK"/>
    <xs:enumeration value="BRI"/>
    <xs:enumeration value="RMP"/>
    <xs:enumeration value="BAR"/>
    <xs:enumeration value="BNK"/>
    <xs:enumeration value="GAU"/>
    <xs:enumeration value="BUO"/>
    <xs:enumeration value="BEA"/>
    <xs:enumeration value="ANC"/>
    <xs:enumeration value="BER"/>
  </xs:restriction>
</xs:simpleType>