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1  <?xml version="1.0" encoding="UTF-8"?>
2  <wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:soap=
    "http://schemas.xmlsoap.org/wsdl/soap/" xmlns:http=
    "http://schemas.xmlsoap.org/wsdl/http/" xmlns:xs=
    "http://www.w3.org/2001/XMLSchema" xmlns:soapenc=
    "http://schemas.xmlsoap.org/soap/encoding/" xmlns:mime=
    "http://schemas.xmlsoap.org/wsdl/mime/" xmlns:nts="http://www.ris.eu/nts/4.0.4.0"
    xmlns:tns="http://www.ris.eu/nts.ms/2.0.4.0" targetNamespace=
    "http://www.ris.eu/nts.ms/2.0.4.0" name="NtS-Message-Service">
3      <!--
4          =====
5          = specification of types =
6          =====
7      -->
8      <wsdl:types>
9          <!--
10             =====
11             = xml-schema for types =
12             =====
13         -->
14         <xs:schema targetNamespace="http://www.ris.eu/nts.ms/2.0.4.0" xmlns:xs=
            "http://www.w3.org/2001/XMLSchema" xmlns:nts="http://www.ris.eu/nts/4.0.4.0"
            xmlns:nts-ms="http://www.ris.eu/nts.ms/2.0.4.0" elementFormDefault=
            "qualified" attributeFormDefault="unqualified" version="2.0.4.0">
15             <!-- import NtS schema -->
16             <xs:import namespace="http://www.ris.eu/nts/4.0.4.0" schemaLocation=
                "http://www.ris.eu/nts/4.0/NtS_XSD_V.4.0.4.0.xsd"/>
17             <!-- query with filters, parameters according to the NtS standard -->
18             <xs:element name="get_messages_query">
19                 <xs:complexType>
20                     <xs:sequence>
21                         <!-- type of message (FTM, WRM, ICEM, WERM) -->
22                         <xs:element name="message_type" type="nts-ms:message_type_type"/>
23                         <!-- ISRS codes for fairway sections or objects -->
24                         <xs:element name="ids" type="nts-ms:id_pair" minOccurs="0" maxOccurs=
                            "unbounded"/>
25                         <!-- time of validity -->
26                         <xs:element name="validity_period" type="nts:validity_period_type"
                            minOccurs="0"/>
27                         <!-- date of publication of the notice -->
28                         <xs:element name="dates_issue" type="nts-ms:date_pair" minOccurs="0"
                            maxOccurs="unbounded"/>
29                         <!-- optional parameter for paging mechanism -->
30                         <xs:element name="paging_request" type="nts-ms:paging_request_type"
                            minOccurs="0"/>
31                     </xs:sequence>
32                 </xs:complexType>
33             </xs:element>
34             <!-- result to query - can contain
35                 - "nts:RIS_MessageType", arbitrary number, defined in the
                  NtS-xsd (see www.ris.eu)
36                 - "nts-ms:error_code_type", arbitrary number, defined in this
                  schema

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37         - "nts-ms:paging_result_type", optional, defined in this schema
38         -->
39     <xs:element name="get_messages_result">
40         <xs:complexType>
41             <xs:sequence>
42                 <xs:element name="result_message" type="nts:RIS_Message_Type"
43                     minOccurs="0" maxOccurs="unbounded"/>
44                 <xs:element name="result_error" type="nts-ms:error_code_type"
45                     minOccurs="0" maxOccurs="unbounded"/>
46                 <xs:element name="paging_result" type="nts-ms:paging_result_type"
47                     minOccurs="0"/>
48             </xs:sequence>
49         </xs:complexType>
50     </xs:element>
51     <!-- type definitions used in request -->
52     <xs:simpleType name="message_type_type">
53         <xs:restriction base="xs:string">
54             <xs:enumeration value="FTM"/>
55             <xs:enumeration value="WRM"/>
56             <xs:enumeration value="ICEM"/>
57             <xs:enumeration value="WERM"/>
58         </xs:restriction>
59     </xs:simpleType>
60     <xs:complexType name="id_pair">
61         <xs:sequence>
62             <xs:element name="id" type="nts:isrs_code_type" minOccurs="1" maxOccurs
63                 ="2"/>
64         </xs:sequence>
65     </xs:complexType>
66     <xs:complexType name="date_pair">
67         <xs:sequence>
68             <xs:element name="date_start" type="xs:date"/>
69             <xs:element name="date_end" type="xs:date" minOccurs="0"/>
70         </xs:sequence>
71     </xs:complexType>
72     <xs:complexType name="paging_request_type">
73         <xs:sequence>
74             <xs:element name="offset" type="xs:nonNegativeInteger"/>
75             <xs:element name="limit" type="xs:nonNegativeInteger"/>
76             <xs:element name="total_count" type="xs:boolean"/>
77         </xs:sequence>
78     </xs:complexType>
79     <!-- type definitions used in response -->
80     <xs:simpleType name="error_code_type">
81         <xs:restriction base="xs:string">
82             <xs:enumeration value="e010">
83                 <xs:annotation>
84                     <xs:documentation>Description: message type not supported,
85                         Explanation: web service does not support the requested message
86                         type</xs:documentation>
87                 </xs:annotation>
88             </xs:enumeration>
89             <xs:enumeration value="e030">

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83         <xs:annotation>
84             <xs:documentation>Description: paging parameters inconsistent
                with messages, Explanation: parameters for paging mechanism do
                not fit the available messages, e.g. Offset >= Total Count
            </xs:documentation>
85         </xs:annotation>
86     </xs:enumeration>
87     <xs:enumeration value="e100">
88         <xs:annotation>
89             <xs:documentation>Description: syntax error in request,
                Explanation: request violates the schema for requests
            </xs:documentation>
90         </xs:annotation>
91     </xs:enumeration>
92     <xs:enumeration value="e110">
93         <xs:annotation>
94             <xs:documentation>Description: incorrect message type,
                Explanation: given message type is not known</xs:documentation>
95         </xs:annotation>
96     </xs:enumeration>
97     <xs:enumeration value="e120">
98         <xs:annotation>
99             <xs:documentation>Description: incorrect type-specific
                parameters, Explanation: type-specific parameters are erroneous
            </xs:documentation>
100        </xs:annotation>
101    </xs:enumeration>
102    <xs:enumeration value="e130">
103        <xs:annotation>
104            <xs:documentation>Description: incorrect paging parameters,
                Explanation: given parameters for the paging mechanism are
                erroneous</xs:documentation>
105        </xs:annotation>
106    </xs:enumeration>
107    <xs:enumeration value="e200">
108        <xs:annotation>
109            <xs:documentation>Description: operation not known, Explanation:
                the requested operation is unknown</xs:documentation>
110        </xs:annotation>
111    </xs:enumeration>
112    <xs:enumeration value="e300">
113        <xs:annotation>
114            <xs:documentation>Description: data source unavailable,
                Explanation: data source of the web service for the NtS data is
                temporarily unavailable</xs:documentation>
115        </xs:annotation>
116    </xs:enumeration>
117    <xs:enumeration value="e310">
118        <xs:annotation>
119            <xs:documentation>Description: too many results for request,
                Explanation: server is unable to handle number of results
            </xs:documentation>
120        </xs:annotation>
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121         </xs:enumeration>
122     </xs:restriction>
123 </xs:simpleType>
124 <xs:complexType name="paging_result_type">
125     <xs:sequence>
126         <xs:element name="offset" type="xs:nonNegativeInteger"/>
127         <xs:element name="count" type="xs:nonNegativeInteger"/>
128         <xs:element name="total_count" type="xs:nonNegativeInteger" minOccurs=
129             "0"/>
130     </xs:sequence>
131 </xs:complexType>
132 </xs:schema>
133 </wsdl:types>
134 <!--
135     =====
136     = specification of messages =
137     =====
138 -->
139 <wsdl:message name="get_messages_request">
140     <wsdl:part name="parameters" element="tns:get_messages_query"/>
141 </wsdl:message>
142 <wsdl:message name="get_messages_response">
143     <wsdl:part name="parameters" element="tns:get_messages_result"/>
144 </wsdl:message>
145 <!--
146     =====
147     = specification of port type =
148     =====
149 -->
150 <wsdl:portType name="NtS_message_service">
151     <wsdl:operation name="get_messages">
152         <wsdl:input message="tns:get_messages_request"/>
153         <wsdl:output message="tns:get_messages_response"/>
154     </wsdl:operation>
155 </wsdl:portType>
156 <!--
157     =====
158     = specification of binding =
159     =====
160 -->
161 <wsdl:binding name="NtS_message_service_soap_binding" type=
162     "tns:NtS_message_service">
163     <soap:binding style="document" transport=
164         "http://schemas.xmlsoap.org/soap/http"/>
165     <wsdl:operation name="get_messages">
166         <soap:operation soapAction="http://www.ris.eu/nts.ms/get_messages"/>
167         <wsdl:input>
168             <soap:body use="literal"/>
169         </wsdl:input>
170         <wsdl:output>
171             <soap:body use="literal"/>
172         </wsdl:output>
173     </wsdl:operation>

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171     </wsdl:binding>
172     <!--
173         =====
174         = specification of service =
175         =====
176     -->
177     <wsdl:service name="NtS_message_service_service">
178         <wsdl:port name="NtS_message_service" binding=
179             "tns:NtS_message_service_soap_binding">
180             <soap:address location="http://nts-ms.example.org/NtS_message_service"/>
181         </wsdl:port>
182     </wsdl:service>
183 </wsdl:definitions>
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