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1 <wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
2   xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
3   xmlns:wsu="
4     "http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
5   xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
6   xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/"
7   xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
8   xmlns:obp="https://obp.neso.energy/ConsumeAvailability"
9   xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
10  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
11  targetNamespace="https://obp.neso.energy/ConsumeAvailability">
12    <wsp:Policy wsu:Id="UTOverTransport">
13      <wsp:ExactlyOne>
14        <wsp:All>
15          <sp:SignedSupportingTokens xmlns:sp=
16            "http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
17            <wsp:Policy>
18              <sp:UsernameToken
19                sp:IncludeToken=
20                  "http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/Alway
21                    sToRecipient"/>
22            </wsp:Policy>
23          </sp:SignedSupportingTokens>
24        </wsp:All>
25      </wsp:ExactlyOne>
26    </wsp:Policy>
27    <wsdl:types>
28      <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
29        xmlns="https://obp.neso.energy/ConsumeAvailability"
30        attributeFormDefault="unqualified" elementFormDefault="qualified"
31        targetNamespace="https://obp.neso.energy/ConsumeAvailability">
32        <xsd:simpleType name="ServiceType">
33          <xsd:restriction base="xsd:string">
34            <xsd:minLength value="1"/>
35            <xsd:maxLength value="25"/>
36          </xsd:restriction>
37        </xsd:simpleType>
38        <xsd:simpleType name="LeadLagType">
39          <xsd:restriction base="xsd:string">
40            <xsd:enumeration value="LEAD"/>
41            <xsd:enumeration value="LAG"/>
42          </xsd:restriction>
43        </xsd:simpleType>
44        <xsd:simpleType name="GateType">
45          <xsd:restriction base="xsd:string">
46            <xsd:enumeration value="PRE"/>
47            <xsd:enumeration value="POST"/>
48          </xsd:restriction>
49        </xsd:simpleType>
50        <xsd:simpleType name="UnitIDType">
51          <xsd:restriction base="xsd:string">
52            <xsd:minLength value="1"/>
53            <xsd:maxLength value="20"/>
54            <xsd:pattern value="^[^s]+$"/>
55          </xsd:restriction>
56        </xsd:simpleType>
57        <xsd:simpleType name="AUType">
58          <xsd:restriction base="xsd:string">
59            <xsd:minLength value="0"/>
60            <xsd:maxLength value="20"/>
61            <xsd:pattern value="^[^s]+$"/>
62          </xsd:restriction>
63        </xsd:simpleType>
64        <xsd:simpleType name="BreakType">
65          <xsd:restriction base="xsd:decimal">
66            <xsd:minInclusive value="-99999.999999"/>
67            <xsd:maxInclusive value="99999.999999"/>
68            <xsd:fractionDigits value="6"/>
69          </xsd:restriction>
70        </xsd:simpleType>
71        <xsd:simpleType name="OffType">
72          <xsd:restriction base="xsd:decimal">
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69         <xsd:minInclusive value="-99999.99"/>
70         <xsd:maxInclusive value="99999.99"/>
71         <xsd:fractionDigits value="2"/>
72     </xsd:restriction>
73 </xsd:simpleType>
74 <xsd:simpleType name="LeadLagPerType">
75     <xsd:restriction base="xsd:decimal">
76         <xsd:minInclusive value="-999.99"/>
77         <xsd:maxInclusive value="999.99"/>
78         <xsd:fractionDigits value="2"/>
79     </xsd:restriction>
80 </xsd:simpleType>
81 <xsd:simpleType name="OfferBid_NumberType">
82     <xsd:restriction base="xsd:integer">
83         <xsd:minInclusive value="-999"/>
84         <xsd:maxInclusive value="999"/>
85     </xsd:restriction>
86 </xsd:simpleType>
87 <xsd:simpleType name="DetailsType">
88     <xsd:restriction base="xsd:string">
89         <xsd:minLength value="0"/>
90         <xsd:maxLength value="2000"/>
91     </xsd:restriction>
92 </xsd:simpleType>
93 <xsd:simpleType name="ResponseMessage">
94     <xsd:restriction base="xsd:string">
95         <xsd:enumeration value="SUCCESS"/>
96         <xsd:enumeration value="FAILURE"/>
97     </xsd:restriction>
98 </xsd:simpleType>
99 <xsd:complexType name="BandWindowType">
100     <xsd:sequence>
101         <xsd:element minOccurs="0" name="BandID" type="OfferBid_NumberType"/>
102         <xsd:element minOccurs="0" name="LeadLagIndicator" type="LeadLagType"/>
103         <xsd:element minOccurs="0" name="Q" type="BreakType"/>
104         <xsd:element minOccurs="0" name="Q_Max" type="BreakType"/>
105         <xsd:element minOccurs="0" name="AssociatedL" type="BreakType"/>
106         <xsd:element minOccurs="0" name="AvailabilityCost" type="OffType"/>
107         <xsd:element minOccurs="0" name="UtilisationCost" type="OffType"/>
108         <xsd:element minOccurs="0" name="MaxUtilisationCost" type="OffType"/>
109     </xsd:sequence>
110 </xsd:complexType>
111 <xsd:complexType name="OfferBidWindowType">
112     <xsd:sequence>
113         <xsd:element minOccurs="0" name="OfferBid_Number" type=
114             "OfferBid_NumberType"/>
115         <xsd:element minOccurs="0" name="UtilisationPrice" type="OffType"/>
116         <xsd:element minOccurs="0" name="BreakPoint" type="BreakType"/>
117         <xsd:element minOccurs="0" name="BreakPoint_Max" type="BreakType"/>
118         <xsd:element minOccurs="0" name="AvailabilityPrice" type="OffType"/>
119     </xsd:sequence>
120 </xsd:complexType>
121 <xsd:complexType name="AvailabilityWindowType">
122     <xsd:sequence>
123         <xsd:element name="StartDateTime" type="xsd:dateTime"/>
124         <xsd:element name="EndDateTime" type="xsd:dateTime"/>
125         <xsd:element maxOccurs="unbounded" minOccurs="0" name="OfferBid"
126             type="OfferBidWindowType"/>
127         <xsd:element minOccurs="0" name="UtilisationPercent_Lead" type=
128             "LeadLagPerType"/>
129         <xsd:element minOccurs="0" name="UtilisationPercent_Lag" type=
130             "LeadLagPerType"/>
131         <xsd:element maxOccurs="unbounded" minOccurs="0" name="Band" type=
132             "BandWindowType"/>
133     </xsd:sequence>
134 </xsd:complexType>
135 <xsd:complexType name="AvailabilityRequest">
136     <xsd:sequence>
137         <xsd:element name="ServiceType" type="ServiceType"/>
138         <xsd:element name="UnitID" type="UnitIDType"/>
139         <xsd:element minOccurs="0" name="AUI" type="AUIType"/>
140         <xsd:element maxOccurs="unbounded" name="AvailabilityWindow"

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137         type="AvailabilityWindowType"/>
138         <xsd:element minOccurs="0" name="GateClosure" type="GateType"/>
139         <xsd:element name="DateTimeStamp" type="xsd:dateTime"/>
140     </xsd:sequence>
141 </xsd:complexType>
142 <xsd:element name="AvailabilityDetails" type="AvailabilityRequest"/>
143 <xsd:element name="AvailabilityResponse" type="Responsetype"/>
144 <xsd:complexType name="Responsetype">
145     <xsd:sequence>
146         <xsd:element minOccurs="0" name="ServiceType" type="xsd:string"/>
147         <xsd:element minOccurs="0" name="UnitID" type="xsd:string"/>
148         <xsd:element minOccurs="0" name="Response" type="ResponseMessage"/>
149         <xsd:element minOccurs="0" name="Details" type="DetailsType"/>
150     </xsd:sequence>
151 </xsd:complexType>
152 </xsd:schema>
153 </wsdl:types>
154 <wsdl:message name="requestMessage">
155     <wsdl:part name="AvailabilityRequest" element="obp:AvailabilityDetails"/>
156 </wsdl:message>
157 <wsdl:message name="replyMessage">
158     <wsdl:part name="Response" element="obp:AvailabilityResponse"/>
159 </wsdl:message>
160 <wsdl:portType name="V4_ConsumeAvailabilityServicePortType" wsp:PolicyURIs=
"#UTOverTransport">
161     <wsdl:operation name="ConsumeAvailability">
162         <wsdl:input message="obp:requestMessage" wsaw:Action="ConsumeAvailability"/>
163         <wsdl:output message="obp:replyMessage"
164             wsaw:Action=
165             "https://obp.neso.energy/ConsumeAvailability/getAvail/ConsumeAvailabilityRespo
nse"/>
166     </wsdl:operation>
167 </wsdl:portType>
168 <wsdl:binding name="V4_ConsumeAvailabilityServiceSoap11Binding"
169     type="obp:V4_ConsumeAvailabilityServicePortType">
170     <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
171     <wsdl:operation name="ConsumeAvailability">
172         <soap:operation soapAction="ConsumeAvailability" style="document"/>
173         <wsdl:input>
174             <soap:body use="literal"/>
175         </wsdl:input>
176         <wsdl:output>
177             <soap:body use="literal"/>
178         </wsdl:output>
179     </wsdl:operation>
180 </wsdl:binding>
181 <wsdl:binding name="V4_ConsumeAvailabilityServiceSoap12Binding"
182     type="obp:V4_ConsumeAvailabilityServicePortType">
183     <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"
184     />
185     <wsdl:operation name="ConsumeAvailability">
186         <soap12:operation soapAction="ConsumeAvailability" style="document"/>
187         <wsdl:input>
188             <soap12:body use="literal"/>
189         </wsdl:input>
190         <wsdl:output>
191             <soap12:body use="literal"/>
192         </wsdl:output>
193     </wsdl:operation>
194 </wsdl:binding>
195 <wsdl:binding name="V4_ConsumeAvailabilityServiceHttpBinding"
196     type="obp:V4_ConsumeAvailabilityServicePortType">
197     <http:binding verb="POST"/>
198     <wsdl:operation name="ConsumeAvailability">
199         <http:operation location="ConsumeAvailability"/>
200         <wsdl:input>
201             <mime:content type="text/xml" part="parameters"/>
202         </wsdl:input>
203         <wsdl:output>
204             <mime:content type="text/xml" part="parameters"/>
205         </wsdl:output>
206     </wsdl:operation>

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205 </wsdl:binding>
206 <wsdl:service name="V4_ConsumeAvailabilityService">
207   <wsdl:port name="V4_ConsumeAvailabilityServiceHttpSoap11Endpoint"
208     binding="obp:V4_ConsumeAvailabilityServiceSoap11Binding">
209     <soap:address
210       location=
211         "https://some.service.com/services/V4_ConsumeAvailabilityService.V4_ConsumeAva
212           ilabilityServiceHttpSoap11Endpoint"/>
213   </wsdl:port>
214   <wsdl:port name="V4_ConsumeAvailabilityServiceHttpsSoap11Endpoint"
215     binding="obp:V4_ConsumeAvailabilityServiceSoap11Binding">
216     <soap:address
217       location=
218         "https://some.service.com/services/V4_ConsumeAvailabilityService.V4_ConsumeAva
219           ilabilityServiceHttpsSoap11Endpoint"/>
220   </wsdl:port>
221   <wsdl:port name="V4_ConsumeAvailabilityServiceHttpSoap12Endpoint"
222     binding="obp:V4_ConsumeAvailabilityServiceSoap12Binding">
223     <soap12:address
224       location=
225         "https://some.service.com/services/V4_ConsumeAvailabilityService.V4_ConsumeAva
226           ilabilityServiceHttpSoap12Endpoint"/>
227   </wsdl:port>
228   <wsdl:port name="V4_ConsumeAvailabilityServiceHttpsSoap12Endpoint"
229     binding="obp:V4_ConsumeAvailabilityServiceSoap12Binding">
230     <soap12:address
231       location=
232         "https://some.service.com/services/V4_ConsumeAvailabilityService.V4_ConsumeAva
233           ilabilityServiceHttpsSoap12Endpoint"/>
234   </wsdl:port>
235   <wsdl:port name="V4_ConsumeAvailabilityServiceHttpEndpoint"
236     binding="obp:V4_ConsumeAvailabilityServiceHttpBinding">
237     <http:address
238       location=
239         "https://some.service.com/services/V4_ConsumeAvailabilityService.V4_ConsumeAva
240           ilabilityServiceHttpEndpoint"/>
241   </wsdl:port>
242   </wsdl:service>
243 </wsdl:definitions>
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