

Appendix E: xNL schema

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1 <?xml version="1.0" encoding="UTF-8"?>
2 <!-- edited with XMLSPY v5 rel. 3 U (http://www.xmlspy.com) by John Jeckson
   (DDB) -->
3 <!--Modified by Max Voskob on 20/03/2003-->
4 <xs:schema targetNamespace="nz-
   egov://egov/xNAL/xNL?version=3.0;release=20030512" xmlns="nz-
   egov://egov/xNAL/xNL?version=3.0;release=20030512" xmlns:xNLb="nz-
   egov://egov/xNAL/xNL-basic?version=3.0;release=20030512"
   xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
5 <xs:annotation>
6     <xs:documentation>DRAFT OF VERSION 3
7
8 xNL: eXtensible Name Language
9 Date of Creation: 26 March 2002
10 Copyright(c) 2002, OASIS. All Rights Reserved [http://www.oasis-open.org]
11 Contact: Customer Information Quality Technical Committee, OASIS
12 http://www.oasis-open.org/committees/ciq
13 Version: 3.0
14 Previous Version: V2.0
15 Last Updated: 26/03/2002</xs:documentation>
16 </xs:annotation>
17 <xs:import namespace="nz-egov://egov/xNAL/xNL-
   basic?version=3.0;release=20030512" schemaLocation="nz-xNL-basic-3.0.xsd"/>
18 <xs:element name="xNL">
19     <xs:annotation>
20         <xs:documentation>Root element to define name of a Person or
   an Organisation in detail</xs:documentation>
21     </xs:annotation>
22     <xs:complexType>
23         <xs:sequence>
24             <xs:element ref="NameDetails" maxOccurs="unbounded"/>
25             <xs:any namespace="##other" minOccurs="0"
   maxOccurs="unbounded">
26                 <xs:annotation>
27                     <xs:documentation>Use this to
   import/use/reference name elements from other namespaces
   </xs:documentation>
28                 </xs:annotation>
29             </xs:any>
30         </xs:sequence>
31         <xs:anyAttribute namespace="##other"/>
32     </xs:complexType>
33 </xs:element>
34 <xs:attributeGroup name="grKeyRefs">
35     <xs:attribute name="NameDetailsKeyRef" type="xNLb:guid">
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36         <xs:annotation>
37             <xs:documentation>Reference to another NameDetails
                element with no foreign key reinforcement. The referenced element may be
                out of the document and the document is still valid.</xs:documentation>
38         </xs:annotation>
39     </xs:attribute>
40 </xs:attributeGroup>
41 <xs:complexType name="NameDetails">
42     <xs:choice minOccurs="0">
43         <xs:element name="NameLine" type="xNLb:NameLineType"
                maxOccurs="unbounded">
44             <xs:annotation>
45                 <xs:documentation>Define name as a free format
                    text. Use this when the type of the entity (person or organisation) is
                    unknown, or not broken into individual elements or is beyond the provided
                    types.</xs:documentation>
46             </xs:annotation>
47         </xs:element>
48         <xs:element ref="PersonName"/>
49         <xs:element ref="JointPersonName"/>
50         <xs:element ref="OrganisationName"/>
51     </xs:choice>
52     <xs:attribute name="PartyType" type="xNLb:string">
53         <xs:annotation>
54             <xs:documentation>Indicates the type of entity i.e.
                described namely, Person or an Organisation. An Organisation could be:
                Club, Association, Company, etc</xs:documentation>
55         </xs:annotation>
56     </xs:attribute>
57     <xs:anyAttribute namespace="##other" processContents="strict"/>
58 </xs:complexType>
59 <xs:element name="NameDetails">
60     <xs:complexType>
61         <xs:complexContent>
62             <xs:extension base="NameDetails">
63                 <xs:sequence>
64                     <xs:any namespace="##other"
                processContents="strict" minOccurs="0" maxOccurs="unbounded">
65                         <xs:annotation>
66                             <xs:documentation>Use this
                                to import/use/reference name elements from other namespaces
                                </xs:documentation>
67                         </xs:annotation>
68                     </xs:any>
69                 </xs:sequence>
70                 <xs:attribute name="NameDetailsKey"
                type="xNLb:guid">
71                     <xs:annotation>
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72         <xs:documentation>Key identifier
for the element for not reinforced references from other elements. Not
required to be unique for the document to be valid, but application may get
confused if not unique. Extend this schema adding unique constraint if
needed.</xs:documentation>
73         </xs:annotation>
74     </xs:attribute>
75 </xs:extension>
76 </xs:complexContent>
77 </xs:complexType>
78 </xs:element>
79 <xs:element name="PersonName">
80     <xs:annotation>
81         <xs:documentation>Container for person name
details.</xs:documentation>
82     </xs:annotation>
83     <xs:complexType>
84         <xs:complexContent>
85             <xs:extension base="xNLb:PersonName">
86                 <xs:sequence>
87                     <xs:element name="FormerName"
minOccurs="0" maxOccurs="unbounded">
88                         <xs:annotation>
89                             <xs:documentation>Example:
maiden name</xs:documentation>
90                         </xs:annotation>
91                         <xs:complexType>
92                             <xs:complexContent>
93                                 <xs:extension
base="xNLb:PersonName">
94                                     <xs:sequence>
95                                         <xs:any
namespace="##other" minOccurs="0" maxOccurs="unbounded"/>
96                                     </xs:sequence>
97                                     <xs:attribute
name="ValidFrom" type="xs:dateTime">
98                                         <xs:annotation>
99                                             <xs:documentation>The first date when the name is valid.
Inclusive.</xs:documentation>
100                                         </xs:annotation>
101                                         </xs:attribute>
102                                         <xs:attribute
name="ValidTo" type="xs:dateTime">
103                                             <xs:annotation>
104                                                 <xs:documentation>The last date when the name is valid.
Inclusive.</xs:documentation>

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105 </xs:annotation>
106 </xs:attribute>
107 <xs:attributeGroup ref="grKeyRefs"/>
108 </xs:extension>
109 </xs:complexContent>
110 </xs:complexType>
111 </xs:element>
112 <xs:element name="KnownAs" minOccurs="0"
maxOccurs="unbounded">
113 <xs:annotation>
114 <xs:documentation>Sometimes
the same person is known under different unofficial or official
names</xs:documentation>
115 </xs:annotation>
116 <xs:complexType>
117 <xs:complexContent>
118 <xs:extension
base="xNLb:PersonName">
119 <xs:sequence>
120 <xs:any
namespace="##other" minOccurs="0" maxOccurs="unbounded"/>
121 </xs:sequence>
122 <xs:attribute
name="ValidFrom" type="xs:dateTime">
123 <xs:annotation>
124 <xs:documentation>The first date when the name is valid.
Inclusive.</xs:documentation>
125 </xs:annotation>
126 </xs:attribute>
127 <xs:attribute
name="ValidTo" type="xs:dateTime">
128 <xs:annotation>
129 <xs:documentation>The last date when the name is valid.
Inclusive.</xs:documentation>
130 </xs:annotation>
131 </xs:attribute>
132 <xs:attributeGroup ref="grKeyRefs"/>
133 </xs:extension>
134 </xs:complexContent>
135 </xs:complexType>
136 </xs:element>
137 <xs:any namespace="##other" minOccurs="0"
maxOccurs="unbounded">

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138         <xs:annotation>
139             <xs:documentation>Use this
to import/use/reference name elements from other namespaces
</xs:documentation>
140         </xs:annotation>
141     </xs:any>
142 </xs:sequence>
143     <xs:attributeGroup ref="grKeyRefs"/>
144 </xs:extension>
145 </xs:complexContent>
146 </xs:complexType>
147 </xs:element>
148 <xs:element name="JointPersonName">
149     <xs:annotation>
150         <xs:documentation>A container to define more than one person
name. Example: Mrs Mary Johnson and Mr.Patrick Johnson</xs:documentation>
151     </xs:annotation>
152     <xs:complexType>
153         <xs:sequence>
154             <xs:choice maxOccurs="unbounded">
155                 <xs:element name="NameLine"
type="xNLb:NameLineType" maxOccurs="unbounded">
156                     <xs:annotation>
157                         <xs:documentation>Name or part of
the name as a free format text. If the name structure has to be broken down
into individual elements, use PersonName Container.</xs:documentation>
158                     </xs:annotation>
159                 </xs:element>
160                 <xs:element ref="PersonName"
maxOccurs="unbounded">
161                     <xs:annotation>
162                         <xs:documentation>Use this element
to specify every member separately.</xs:documentation>
163                     </xs:annotation>
164                 </xs:element>
165             </xs:choice>
166             <xs:any namespace="##other" minOccurs="0"
maxOccurs="unbounded">
167                 <xs:annotation>
168                     <xs:documentation>Use this to
import/use/reference name elements from other namespaces
</xs:documentation>
169                 </xs:annotation>
170             </xs:any>
171         </xs:sequence>
172     <xs:attribute name="JointNameConnector" type="xNLb:string">
173         <xs:annotation>
174             <xs:documentation>The connector used to join
more than one person name. Example: Mr Hunt AND Mrs Clark, where AND is the
JointNameConnector</xs:documentation>

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175         </xs:annotation>
176     </xs:attribute>
177     <xs:anyAttribute namespace="##other" />
178 </xs:complexType>
179 </xs:element>
180 <xs:element name="OrganisationName">
181     <xs:annotation>
182         <xs:documentation>A container for organisation name
183         details.</xs:documentation>
184     </xs:annotation>
185     <xs:complexType>
186         <xs:complexContent>
187             <xs:extension base="xNLb:OrganisationNameDetails">
188                 <xs:sequence>
189                     <xs:element ref="SubdivisionName"
190                     minOccurs="0" maxOccurs="unbounded" />
191                     <xs:element name="FormerName"
192                     minOccurs="0" maxOccurs="unbounded">
193                         <xs:annotation>
194                             <xs:documentation>Name
195                             history for the organisation</xs:documentation>
196                         </xs:annotation>
197                     </xs:element>
198                 </xs:sequence>
199             </xs:extension>
200         </xs:complexContent>
201     </xs:complexType>
202 </xs:element>
203 <xs:annotation>
204     <xs:documentation>Use this to import/use/reference name elements from other
205     namespaces </xs:documentation>
206 </xs:annotation>
207 </xs:sequence>
208 </xs:attribute>
209     <xs:attribute
210         name="ValidFrom" type="xs:dateTime">
211         <xs:annotation>
212             <xs:documentation>The first date when the name is valid.
213             Inclusive.</xs:documentation>
214         </xs:annotation>
215     </xs:attribute>
216     <xs:attribute
217         name="ValidTo" type="xs:dateTime">

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209 <xs:annotation>
210 <xs:documentation>The last date when the name is valid.
    Inclusive.</xs:documentation>
211 </xs:annotation>
212 </xs:attribute>
213 <xs:attributeGroup ref="grKeyRefs"/>
214 </xs:extension>
215 </xs:complexContent>
216 </xs:complexType>
217 </xs:element>
218 <xs:element name="KnownAs" minOccurs="0"
    maxOccurs="unbounded">
219 <xs:annotation>
220 <xs:documentation>Any other
    names the organisation can be known under.</xs:documentation>
221 </xs:annotation>
222 <xs:complexType>
223 <xs:complexContent>
224 <xs:extension
    base="xNLb:OrganisationNameDetails">
225 <xs:sequence>
226 <xs:any
    namespace="##other" minOccurs="0" maxOccurs="unbounded">
227 <xs:annotation>
228 <xs:documentation>Use this to import/use/reference name elements from other
    namespaces </xs:documentation>
229 </xs:annotation>
230 </xs:any>
231 </xs:sequence>
232 <xs:attribute
    name="ValidFrom" type="xs:dateTime">
233 <xs:annotation>
234 <xs:documentation>The first date when the name is valid.
    Inclusive.</xs:documentation>
235 </xs:annotation>
236 </xs:attribute>
237 <xs:attribute
    name="ValidTo" type="xs:dateTime">
238 <xs:annotation>

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239 <xs:documentation>The last date when the name is valid.
    Inclusive.</xs:documentation>
240 </xs:annotation>
241 </xs:attribute>
242 <xs:attributeGroup ref="grKeyRefs"/>
243 </xs:extension>
244 </xs:complexContent>
245 </xs:complexType>
246 </xs:element>
247 <xs:any namespace="##other" minOccurs="0"
    maxOccurs="unbounded">
248 <xs:annotation>
249 <xs:documentation>Use this
    to import/use/reference name elements from other namespaces
</xs:documentation>
250 </xs:annotation>
251 </xs:any>
252 </xs:sequence>
253 <xs:attributeGroup ref="grKeyRefs"/>
254 </xs:extension>
255 </xs:complexContent>
256 </xs:complexType>
257 </xs:element>
258 <xs:element name="SubdivisionName">
259 <xs:annotation>
260 <xs:documentation>A container for organisation subdivision
    name details.</xs:documentation>
261 </xs:annotation>
262 <xs:complexType>
263 <xs:complexContent>
264 <xs:extension base="xNLb:SubdivisionNameDetails">
265 <xs:sequence>
266 <xs:element name="FormerName"
    minOccurs="0" maxOccurs="unbounded">
267 <xs:annotation>
268 <xs:documentation>Name
    history for the subdivision</xs:documentation>
269 </xs:annotation>
270 <xs:complexType>
271 <xs:complexContent>
272 <xs:extension
    base="xNLb:SubdivisionNameDetails">
273 <xs:sequence>
274 <xs:any
    namespace="##other" minOccurs="0" maxOccurs="unbounded">
275 <xs:annotation>

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276 <xs:documentation>Use this to import/use/reference name elements from other
namespaces </xs:documentation>
277 </xs:annotation>
278 </xs:any>
279 </xs:sequence>
280 <xs:attribute
name="ValidFrom" type="xs:dateTime">
281 <xs:annotation>
282 <xs:documentation>The first date when the name is valid.
Inclusive.</xs:documentation>
283 </xs:annotation>
284 </xs:attribute>
285 <xs:attribute
name="ValidTo" type="xs:dateTime">
286 <xs:annotation>
287 <xs:documentation>The last date when the name is valid.
Inclusive.</xs:documentation>
288 </xs:annotation>
289 </xs:attribute>
290 </xs:extension>
291 </xs:complexContent>
292 </xs:complexType>
293 </xs:element>
294 <xs:element name="KnownAs" minOccurs="0"
maxOccurs="unbounded">
295 <xs:annotation>
296 <xs:documentation>Any other
names the subdivision can be known under.</xs:documentation>
297 </xs:annotation>
298 <xs:complexType>
299 <xs:complexContent>
300 <xs:extension
base="xNLb:SubdivisionNameDetails">
301 <xs:sequence>
302 <xs:any
namespace="##other" minOccurs="0" maxOccurs="unbounded">
303 <xs:annotation>
304 <xs:documentation>Use this to import/use/reference name elements from other
namespaces </xs:documentation>
305 </xs:annotation>

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306 </xs:any>
307                                     </xs:sequence>
308                                     <xs:attribute
name="ValidFrom" type="xs:dateTime">
309 <xs:annotation>
310 <xs:documentation>The first date when the name is valid.
Inclusive.</xs:documentation>
311 </xs:annotation>
312                                     </xs:attribute>
313                                     <xs:attribute
name="ValidTo" type="xs:dateTime">
314 <xs:annotation>
315 <xs:documentation>The last date when the name is valid.
Inclusive.</xs:documentation>
316 </xs:annotation>
317                                     </xs:attribute>
318                                     </xs:extension>
319                                     </xs:complexContent>
320                                     </xs:complexType>
321 </xs:element>
322 <xs:element ref="SubdivisionName"
minOccurs="0" maxOccurs="unbounded"/>
323 <xs:any namespace="##other" minOccurs="0"
maxOccurs="unbounded">
324 <xs:annotation>
325 <xs:documentation>Use this
to import/use/reference name elements from other namespaces
</xs:documentation>
326 </xs:annotation>
327 </xs:any>
328 </xs:sequence>
329 </xs:extension>
330 </xs:complexContent>
331 </xs:complexType>
332 </xs:element>
333 </xs:schema>

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