

Appendix D: xNL-basic 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 Max Voskob
   (MSI) -->
3 <xs:schema targetNamespace="nz-egov://egu/xNAL/xNL-
   basic?version=3.0;release=20030512" xmlns="nz-egov://egu/xNAL/xNL-
   basic?version=3.0;release=20030512"
   xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
4 <!--COPYRIGHT STATEMENT IS MISSING!-->
5 <xs:annotation>
6     <xs:documentation>DRAFT
7
8     xNL: eXtensible Name Language Basic Profile
9     Copyright(c) 2003, --- INSERT CROWN COPYRIGHT STATEMENT HERE ---
10    Contact: e-government@ssc.govt.nz
11    http://www.e-government.govt.nz
12
13    Editor: Max Voskob (max.voskob@msi.net.nz)</xs:documentation>
14 </xs:annotation>
15 <xs:annotation>
16     <xs:documentation>Documentation with @source=DQ refer to data
   quality requirements.</xs:documentation>
17 </xs:annotation>
18 <xs:simpleType name="string">
19     <xs:annotation>
20         <xs:documentation>A common format for a constrained
   string.</xs:documentation>
21     </xs:annotation>
22     <xs:restriction base="xs:string">
23         <xs:maxLength value="255"/>
24     </xs:restriction>
25 </xs:simpleType>
26 <xs:simpleType name="guid">
27     <xs:annotation>
28         <xs:documentation>Represents GUID format of XXXXXXXX-XXXX-
   XXXX-XXXX-XXXXXXXXXXXX</xs:documentation>
29     </xs:annotation>
30     <xs:restriction base="xs:string">
31         <xs:pattern value="([a-z]|[A-Z]|[0-9]){8}-([a-z]|[A-Z]|[0-
   9]){4}-([a-z]|[A-Z]|[0-9]){4}-([a-z]|[A-Z]|[0-9]){4}-([a-z]|[A-Z]|[0-
   9]){12}"/>
32     </xs:restriction>
33 </xs:simpleType>
34 <xs:simpleType name="guids">
35     <xs:annotation>
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36         <xs:documentation>Represents a list of GUIDs separate with a
single space.</xs:documentation>
37     </xs:annotation>
38     <xs:restriction base="xs:string">
39         <xs:pattern value="((([a-z]|[A-Z]|[0-9]){8}-([a-z]|[A-Z]|[0-
9]){4}-([a-z]|[A-Z]|[0-9]){4}-([a-z]|[A-Z]|[0-9]){4}-([a-z]|[A-Z]|[0-
9]){12}))*([a-z]|[A-Z]|[0-9]){8}-([a-z]|[A-Z]|[0-9]){4}-([a-z]|[A-Z]|[0-
9]){4}-([a-z]|[A-Z]|[0-9]){4}-([a-z]|[A-Z]|[0-9]){12}))*"/>
40     </xs:restriction>
41 </xs:simpleType>
42 <xs:complexType name="PersonName">
43     <xs:sequence>
44         <xs:element name="NameLine" type="NameLineType" minOccurs="0"
maxOccurs="unbounded">
45             <xs:annotation>
46                 <xs:documentation>Name or part of a name defined
as a free format text. </xs:documentation>
47                 <xs:documentation source="DQ">Unparsed or
complimentary data.</xs:documentation>
48             </xs:annotation>
49         </xs:element>
50         <xs:element name="PrecedingTitle" minOccurs="0"
maxOccurs="unbounded">
51             <xs:annotation>
52                 <xs:documentation>His Excellency, Estate of the
Late ...</xs:documentation>
53                 <xs:documentation source="DQ">Can be
abbreviated.</xs:documentation>
54             </xs:annotation>
55         <xs:complexType>
56             <xs:simpleContent>
57                 <xs:extension base="string">
58                     <xs:anyAttribute
namespace="##other"/>
59                 </xs:extension>
60             </xs:simpleContent>
61         </xs:complexType>
62     </xs:sequence>
63     <xs:element name="Title" minOccurs="0">
64         <xs:annotation>
65             <xs:documentation>Greeting title. Example: Mr,
Dr, Ms, Herr, etc.</xs:documentation>
66             <xs:documentation source="DQ">Can be
abbreviated.</xs:documentation>
67         </xs:annotation>
68     <xs:complexType>
69         <xs:simpleContent>
70             <xs:extension base="string">
71                 <xs:anyAttribute
namespace="##other"/>
72             </xs:extension>

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73         </xs:simpleContent>
74     </xs:complexType>
75 </xs:element>
76 <xs:element name="FirstName" minOccurs="0">
77     <xs:annotation>
78         <xs:documentation>E.b. John in John
Jeckson</xs:documentation>
79         <xs:documentation source="DQ">Can be an initial
if the full name is not known.</xs:documentation>
80     </xs:annotation>
81     <xs:complexType>
82         <xs:simpleContent>
83             <xs:extension base="string">
84                 <xs:anyAttribute
namespace="##other"/>
85             </xs:extension>
86         </xs:simpleContent>
87     </xs:complexType>
88 </xs:element>
89 <xs:element name="MiddleName" minOccurs="0"
maxOccurs="unbounded">
90     <xs:annotation>
91         <xs:documentation>Middle name (essential part of
the name for many nationalities). Represents the position of the name in
the name string. Example: Sakthi in "Nivetha Sakthi Shantha". Can have
multiple middle names.</xs:documentation>
92         <xs:documentation source="DQ">Can be an initial
if the full name is not known.</xs:documentation>
93     </xs:annotation>
94     <xs:complexType>
95         <xs:simpleContent>
96             <xs:extension base="string">
97                 <xs:anyAttribute
namespace="##other"/>
98             </xs:extension>
99         </xs:simpleContent>
100    </xs:complexType>
101 </xs:element>
102 <xs:element name="NamePrefix" minOccurs="0">
103     <xs:annotation>
104         <xs:documentation>de, van, van de, von, etc.
Example: Derick de Clarke</xs:documentation>
105     </xs:annotation>
106     <xs:complexType>
107         <xs:simpleContent>
108             <xs:extension base="string">
109                 <xs:anyAttribute
namespace="##other"/>
110             </xs:extension>
111         </xs:simpleContent>

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112         </xs:complexType>
113     </xs:element>
114     <xs:element name="LastName" minOccurs="0">
115         <xs:annotation>
116             <xs:documentation>Can be Given Name, Christian
Name, Surname, family name, etc.</xs:documentation>
117             <xs:documentation source="DQ">Can be an initial
if the full name is not known.</xs:documentation>
118         </xs:annotation>
119         <xs:complexType>
120             <xs:simpleContent>
121                 <xs:extension base="string">
122                     <xs:anyAttribute
namespace="##other"/>
123                 </xs:extension>
124             </xs:simpleContent>
125         </xs:complexType>
126     </xs:element>
127     <xs:element name="OtherName" minOccurs="0"
maxOccurs="unbounded">
128         <xs:annotation>
129             <xs:documentation>All other names, e.g.: Yousuf
Khan al Hatab al Sayad</xs:documentation>
130         </xs:annotation>
131         <xs:complexType>
132             <xs:simpleContent>
133                 <xs:extension base="string">
134                     <xs:attribute name="Type"
type="string" use="optional">
135                         <xs:annotation>
136                             <xs:documentation>Type of Other name. Example: Official, Un-official,
abbreviation, initial, etc</xs:documentation>
137                         </xs:annotation>
138                     </xs:attribute>
139                     <xs:attribute name="NameType"
type="string">
140                         <xs:annotation>
141                             <xs:documentation>Defines the name type of Other Name. Example: Maiden
Name, Patronymic name, Matronymic name, etc</xs:documentation>
142                         </xs:annotation>
143                     </xs:attribute>
144                     <xs:anyAttribute
namespace="##other"/>
145                 </xs:extension>
146             </xs:simpleContent>
147         </xs:complexType>
148     </xs:element>
149     <xs:element name="Alias" minOccurs="0" maxOccurs="unbounded">
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150         <xs:annotation>
151             <xs:documentation>Nick Name, Pet name,
etc..</xs:documentation>
152         </xs:annotation>
153         <xs:complexType>
154             <xs:simpleContent>
155                 <xs:extension base="string">
156                     <xs:attribute name="Type"
type="string">
157                         <xs:annotation>
158 <xs:documentation>Type of Alias. Example: Official, UnOfficial, Close
Circle, etc</xs:documentation>
159                         </xs:annotation>
160                     </xs:attribute>
161                     <xs:attribute name="NameType"
type="string">
162                         <xs:annotation>
163 <xs:documentation>Defines the name type of Alias. Example: Nick Name, Pet
Name, etc</xs:documentation>
164                         </xs:annotation>
165                     </xs:attribute>
166                     <xs:anyAttribute
namespace="##other"/>
167                 </xs:extension>
168             </xs:simpleContent>
169         </xs:complexType>
170     </xs:element>
171     <xs:element name="GenerationIdentifier" minOccurs="0"
maxOccurs="unbounded">
172         <xs:annotation>
173             <xs:documentation>Jnr, Thr Third,
III</xs:documentation>
174             <xs:documentation source="DQ">Can be
abbreviated.</xs:documentation>
175         </xs:annotation>
176     <xs:complexType>
177         <xs:simpleContent>
178             <xs:extension base="string">
179                 <xs:anyAttribute
namespace="##other"/>
180             </xs:extension>
181         </xs:simpleContent>
182     </xs:complexType>
183 </xs:element>
184 <xs:element name="Suffix" minOccurs="0"
maxOccurs="unbounded">
185     <xs:annotation>
186         <xs:documentation>Could be compressed initials -
PhD, VC, QC</xs:documentation>

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187         <xs:documentation source="DQ">Can be
abbreviated.</xs:documentation>
188         </xs:annotation>
189         <xs:complexType>
190             <xs:simpleContent>
191                 <xs:extension base="string">
192                     <xs:attribute name="Type"
type="string">
193                         <xs:annotation>
194 <xs:documentation>Defines the type of Suffix. Example: Compressed Initials,
Full suffixes, etc</xs:documentation>
195                             </xs:annotation>
196                             </xs:attribute>
197                             <xs:anyAttribute
namespace="##other" />
198                         </xs:extension>
199                     </xs:simpleContent>
200                 </xs:complexType>
201             </xs:element>
202             <xs:element name="GeneralSuffix" minOccurs="0">
203                 <xs:annotation>
204                     <xs:documentation>Deceased, Retired
...</xs:documentation>
205                     <xs:documentation source="DQ">Can be
abbreviated.</xs:documentation>
206                     </xs:annotation>
207                 <xs:complexType>
208                     <xs:simpleContent>
209                         <xs:extension base="string">
210                             <xs:anyAttribute
namespace="##other" />
211                         </xs:extension>
212                     </xs:simpleContent>
213                 </xs:complexType>
214             </xs:element>
215         </xs:sequence>
216         <xs:attribute name="Type" type="string">
217             <xs:annotation>
218                 <xs:documentation>Type of Name of a person. Example:
Full name, Former Name, Known As, etc.</xs:documentation>
219             </xs:annotation>
220         </xs:attribute>
221         <xs:anyAttribute namespace="##other" />
222     </xs:complexType>
223 <xs:complexType name="OrganisationNameDetails">
224     <xs:sequence>
225         <xs:element name="NameLine" type="NameLineType" minOccurs="0"
maxOccurs="unbounded">

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```
226         <xs:annotation>
227             <xs:documentation>Free format text that defines
the organisation name or parts of it.</xs:documentation>
228             <xs:documentation source="DQ">Unparsed or
complimentary data.</xs:documentation>
229         </xs:annotation>
230     </xs:element>
231     <xs:element name="Name" minOccurs="0">
232         <xs:annotation>
233             <xs:documentation>Name of the organisation.
Example: MSI Business Solutions in "MSI Business Solutions Pty. Ltd" or the
whole name itself </xs:documentation>
234         </xs:annotation>
235         <xs:complexType>
236             <xs:simpleContent>
237                 <xs:extension base="string">
238                     <xs:anyAttribute
namespace="##other" />
239                 </xs:extension>
240             </xs:simpleContent>
241         </xs:complexType>
242     </xs:element>
243 </xs:sequence>
244     <xs:attribute name="Type" type="string" form="qualified">
245         <xs:annotation>
246             <xs:documentation>Type of Organisation Name. Example:
Former name, Known as, etc</xs:documentation>
247         </xs:annotation>
248     </xs:attribute>
249     <xs:anyAttribute namespace="##other" />
250 </xs:complexType>
251 <xs:complexType name="SubdivisionNameDetails">
252     <xs:sequence>
253         <xs:element name="NameLine" type="NameLineType" minOccurs="0"
maxOccurs="unbounded">
254             <xs:annotation>
255                 <xs:documentation>Free format text that defines
the subdivision name or parts of it.</xs:documentation>
256                 <xs:documentation source="DQ">Unparsed or
complimentary data.</xs:documentation>
257             </xs:annotation>
258         </xs:element>
259         <xs:element name="Name" minOccurs="0">
260             <xs:annotation>
261                 <xs:documentation>Name of the subdivision.
Example: Research and development.</xs:documentation>
262             </xs:documentation source="DQ">Can be
abbreviated.</xs:documentation>
263             </xs:documentation source="DQ">Can be
abbreviated.</xs:documentation>
264         </xs:annotation>
```

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265         <xs:complexType>
266             <xs:simpleContent>
267                 <xs:extension base="string">
268                     <xs:anyAttribute
namespace="##other"/>
269             </xs:extension>
270         </xs:simpleContent>
271     </xs:complexType>
272 </xs:element>
273 </xs:sequence>
274 <xs:attribute name="Type" type="string" form="qualified">
275     <xs:annotation>
276         <xs:documentation>Type of subdivision Name. Example:
Former name, Known as, etc</xs:documentation>
277     </xs:annotation>
278 </xs:attribute>
279 <xs:anyAttribute namespace="##other"/>
280 </xs:complexType>
281 <xs:complexType name="NameLineType">
282     <xs:simpleContent>
283         <xs:extension base="string">
284             <xs:attribute name="Type" type="string" use="required">
285                 <xs:annotation>
286                     <xs:documentation>Type of data defined as
a free format text. Example: Former name, Nick name, Known as, etc. or
anything else to help identify the line as part of the
name.</xs:documentation>
287                 </xs:annotation>
288             </xs:attribute>
289             <xs:attribute name="NameType" type="string">
290                 <xs:annotation>
291                     <xs:documentation>Clarifies the meaning
of the element. Example: First Name can be Christian name, Given name,
first name, etc. </xs:documentation>
292                 </xs:annotation>
293             </xs:attribute>
294             <xs:anyAttribute namespace="##other"/>
295         </xs:extension>
296     </xs:simpleContent>
297 </xs:complexType>
298 <xs:element name="PersonName">
299     <xs:annotation>
300         <xs:documentation>Container for person name
details.</xs:documentation>
301     </xs:annotation>
302     <xs:complexType>
303         <xs:complexContent>
304             <xs:extension base="PersonName">
305                 <xs:sequence>

```

```
306                                <xs:any namespace="##other" minOccurs="0"
maxOccurs="unbounded">
307                                <xs:annotation>
308                                <xs:documentation>Use this
to import/use/reference name elements from other namespaces
</xs:documentation>
309                                </xs:annotation>
310                                </xs:any>
311                                </xs:sequence>
312                                <xs:attribute name="id" type="guid">
313                                <xs:annotation>
314                                <xs:documentation>Use this
attribute for unique identification of the containing element within the
application boundaries and beyond. It is not a unique ID of a person - use
other elements and attributes for that.</xs:documentation>
315                                </xs:annotation>
316                                </xs:attribute>
317                                </xs:extension>
318                                </xs:complexContent>
319                                </xs:complexType>
320                                </xs:element>
321                                <xs:element name="OrganisationName">
322                                <xs:annotation>
323                                <xs:documentation>A container for organisation name
details.</xs:documentation>
324                                </xs:annotation>
325                                <xs:complexType>
326                                <xs:complexContent>
327                                <xs:extension base="OrganisationNameDetails">
328                                <xs:sequence>
329                                <xs:element ref="SubdivisionName"
minOccurs="0"/>
330                                <xs:any namespace="##other" minOccurs="0"
maxOccurs="unbounded">
331                                <xs:annotation>
332                                <xs:documentation>Use this
to import/use/reference name elements from other namespaces
</xs:documentation>
333                                </xs:annotation>
334                                </xs:any>
335                                </xs:sequence>
336                                <xs:attribute name="id" type="guid">
337                                <xs:annotation>
338                                <xs:documentation>Use this
attribute for unique identification of the containing element within the
application boundaries and beyond. It is not a unique ID of an organisation
- use other elements and attributes for that.</xs:documentation>
339                                </xs:annotation>
340                                </xs:attribute>
341                                </xs:extension>
342                                </xs:complexContent>
```

```
343         </xs:complexType>
344     </xs:element>
345     <xs:element name="SubdivisionName">
346         <xs:annotation>
347             <xs:documentation>A container for organisation subdivision
name details.</xs:documentation>
348         </xs:annotation>
349         <xs:complexType>
350             <xs:complexContent>
351                 <xs:extension base="SubdivisionNameDetails">
352                     <xs:sequence>
353                         <xs:element ref="SubdivisionName"/>
354                     </xs:sequence>
355                 </xs:extension>
356             </xs:complexContent>
357         </xs:complexType>
358     </xs:element>
359 </xs:schema>
```