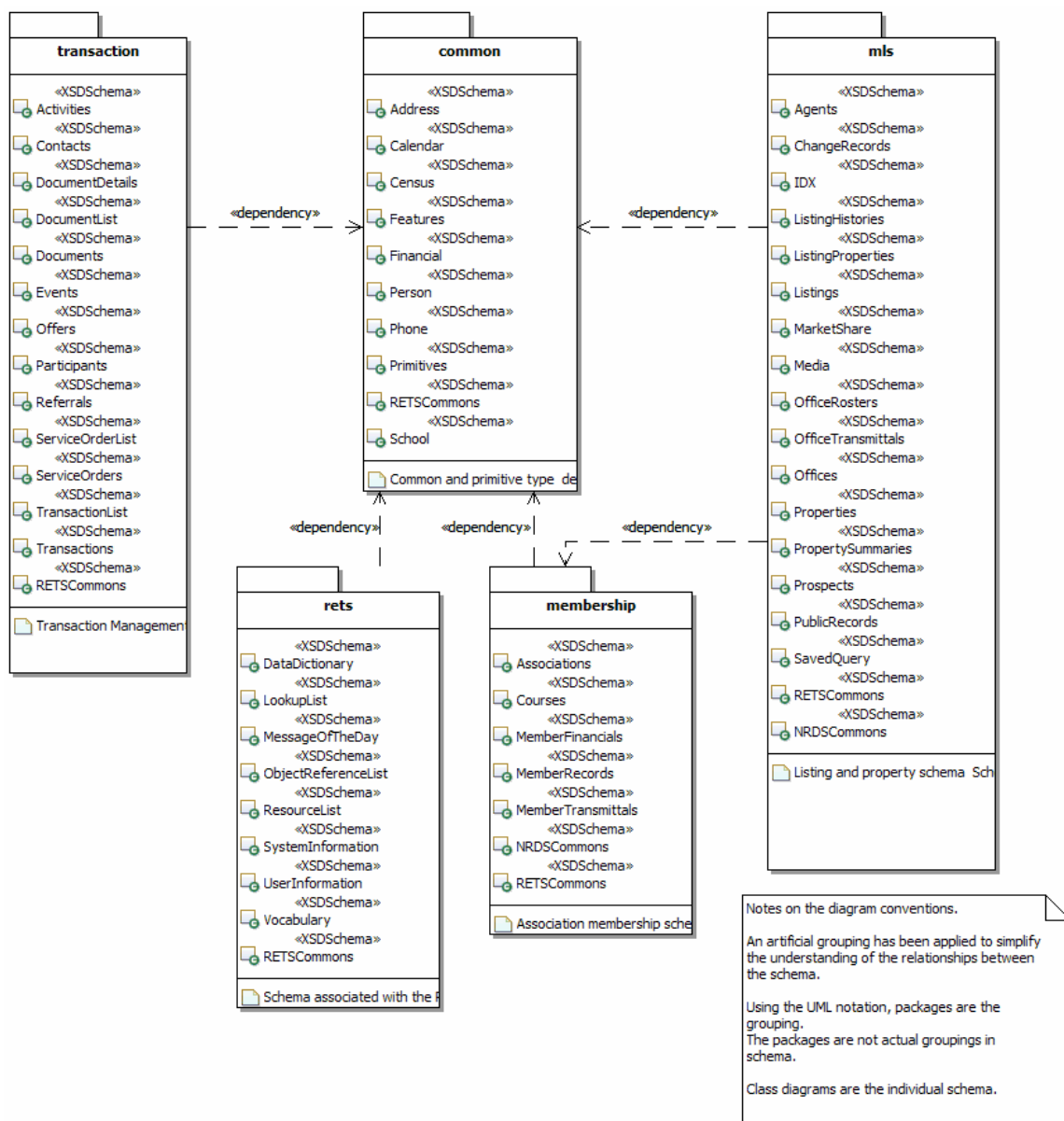


Comments on the RETS 2 Schema Review:

The source for all the schema is located at http://www.ftc2.com/ws_files/index.html.

Portable Document Format (PDF) with Comments enabled, the text xsd files, sample instance documents and other resources are provided there. The PDF documents should be viewable and allow your comments to be added using the free Adobe Acrobat Reader product.

For the purposes of discussion, two schemas are provided in hard copy in this document, Primitives and Properties.



File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```

1 <?xml version="1.0"?>
2 <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
3           xmlns:commons="http://www.ftc2.com/xsd/RETSCommons/2007-04"
4
5           targetNamespace="http://www.ftc2.com/xsd/RETSCommons/2007-04"
6           elementFormDefault="qualified"
7           attributeFormDefault="unqualified">
8   <!--
9     Tab stops
10    :set ts=3
11
12    File History
13    =====
14    $Header: Primitives.xsd, 12, 4/13/2007 11:54:31 AM, Paul Stusiak$
15
16    $Log:
17      12 055_RETS_Standard1.11      4/13/2007 11:54:31 AM Paul
18      Stusiak
19        Pretty-print update to limit body width to less than 70
20        characters for
21        review purposes.
22      11 055_RETS_Standard1.10      4/13/2007 11:25:48 AM Paul
23      Stusiak
24        add
25        nullable types to permit empty strings for some elements.
26      10 055_RETS_Standard1.9       4/3/2007 1:43:59 AM Paul
27      Stusiak
28        change namespace to remote location (www.ftc2.com) for
29        testing
30      9  055_RETS_Standard1.8       4/2/2007 11:26:57 AM Paul
31      Stusiak
32        change namespace to match responding server and to use the
33        URI
34      8  055_RETS_Standard1.7       3/30/2007 6:20:07 PM Paul
35      Stusiak
36        Update of the versionTimestamp and the namespace (namespace
37        to
38        200704). Change formatting to a standard format
39      7  055_RETS_Standard1.6       3/30/2007 12:48:21 PM Paul
40      Stusiak
41        Move period, currencyPeriod from RETSCommons to here.
42      6  055_RETS_Standard1.5       3/29/2007 2:23:25 PM Gina
43      Accawi
44        Add
45        simple type enum for month.
46      5  055_RETS_Standard1.4       3/21/2007 4:18:02 PM Paul
47      Stusiak
48        update annotation values
49      4  055_RETS_Standard1.3       3/16/2007 11:46:02 AM Paul
50      Stusiak
51        move present tri-state and age type from RETSCommons

```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```

38      3      055_RETS_Standard1.2      3/7/2007 11:00:16 PM      Paul
      Stusiak
39      Clean up the project information for the purposes of
40      document
      generation. Added trial annotation format for Gina's review.
41      Made
42      visibilityFlag and
      textFormatType from RETSCommons and created replacements for
      Notes,
43      Remarks from RETSCommons.
44      2      055_RETS_Standard1.1      3/6/2007 1:54:50 PM      Paul
      Stusiak
45      Added tab stop information, added additional types
      Measurement, Area,
46      removed unnecessary default=Public fixed Float type.
47      1      055_RETS_Standard1.0      2/28/2007 12:26:38 AM      Paul
      Stusiak
48      completion of first cut at refactoring out from
      RETSCommons.xsd
49      $
50      =====
51      -->
52      <xs:annotation>
53      <xs:documentation>
54      Primitive type definitions - attributes and elements,
55      including visibility.
56      </xs:documentation>
57      </xs:annotation>
58
59      <!-- Attributes -->
60      <xs:attribute name="visibilityFlag">
61      <xs:annotation>
62      <xs:documentation>
63      Visibility flag for publicly visible items
64      </xs:documentation>
65      <xs:appinfo>
66      true
67      </xs:appinfo>
68      </xs:annotation>
69      <xs:simpleType>
70      <xs:restriction base="xs:boolean"/>
71      </xs:simpleType>
72      </xs:attribute>
73
74      <xs:attribute name="present" default="Yes">
75      <xs:annotation>
76      <xs:documentation>
77      Tri-state indicates the existence of something
78      </xs:documentation>
79      <xs:appinfo>

```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```
80         Yes
81     </xs:appinfo>
82 </xs:annotation>
83 <xs:simpleType>
84     <xs:restriction base="xs:token">
85         <xs:enumeration value="Yes"/>
86         <xs:enumeration value="No"/>
87         <xs:enumeration value="Unknown"/>
88     </xs:restriction>
89 </xs:simpleType>
90 </xs:attribute>
91
92 <xs:attribute name="textFormatType" default="PlainText">
93     <xs:annotation>
94         <xs:documentation>
95             Simple format instructions for text
96         </xs:documentation>
97         <xs:appinfo>
98             PlainText
99         </xs:appinfo>
100     </xs:annotation>
101     <xs:simpleType>
102         <xs:restriction base="xs:token">
103             <xs:enumeration value="PlainText"/>
104             <xs:enumeration value="HTML"/>
105         </xs:restriction>
106     </xs:simpleType>
107 </xs:attribute>
108
109 <xs:attribute name="isgSecurityClass">
110     <xs:annotation>
111         <xs:documentation>
112             The NAR Information Security Guidelines class.
113             See the document for more details.
114         </xs:documentation>
115         <xs:appinfo>
116             Confidential
117         </xs:appinfo>
118     </xs:annotation>
119     <xs:simpleType>
120         <xs:restriction base="xs:string">
121             <xs:enumeration value="Public"/>
122             <xs:enumeration value="Confidential"/>
123             <xs:enumeration value="Secret"/>
124         </xs:restriction>
125     </xs:simpleType>
126 </xs:attribute>
127
128 <xs:attribute name="currencyCode" default="USD">
129     <xs:simpleType>
130         <xs:restriction base="xs:string">
```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```
131         <xs:annotation>
132             <xs:documentation>
133                 The currency code.
134             </xs:documentation>
135             <xs:appinfo>
136                 USD
137             </xs:appinfo>
138         </xs:annotation>
139     </xs:restriction>
140 </xs:simpleType>
141 </xs:attribute>
142
143 <xs:attribute name="measurementUnits" default="feet">
144     <xs:annotation>
145         <xs:documentation>
146             Measurement units
147         </xs:documentation>
148         <xs:appinfo>
149             feet
150         </xs:appinfo>
151     </xs:annotation>
152     <xs:simpleType>
153         <xs:restriction base="xs:token">
154             <xs:enumeration value="feet"/>
155             <xs:enumeration value="yard"/>
156             <xs:enumeration value="rod"/>
157             <xs:enumeration value="chain"/>
158             <xs:enumeration value="centimeter"/>
159             <xs:enumeration value="meter"/>
160             <xs:enumeration value="Unspecified"/>
161         </xs:restriction>
162     </xs:simpleType>
163 </xs:attribute>
164
165 <xs:attribute name="areaUnits" default="squareFoot">
166     <xs:annotation>
167         <xs:documentation>
168             Area measurement units
169         </xs:documentation>
170         <xs:appinfo>
171             squareFoot
172         </xs:appinfo>
173     </xs:annotation>
174     <xs:simpleType>
175         <xs:restriction base="xs:token">
176             <xs:enumeration value="squareFoot"/>
177             <xs:enumeration value="squareYard"/>
178             <xs:enumeration value="acre"/>
179             <xs:enumeration value="squareCentimeter"/>
180             <xs:enumeration value="squareMeter"/>
181             <xs:enumeration value="hectare"/>
```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```
182         <xs:enumeration value="Unspecified"/>
183     </xs:restriction>
184 </xs:simpleType>
185 </xs:attribute>
186 <xs:attribute name="period" default="Month">
187     <xs:simpleType>
188         <xs:restriction base="xs:token">
189             <xs:enumeration value="Day"/>
190             <xs:enumeration value="Week"/>
191             <xs:enumeration value="Month"/>
192             <xs:enumeration value="Year"/>
193             <xs:enumeration value="Fixed"/>
194         </xs:restriction>
195     </xs:simpleType>
196 </xs:attribute>
197 <xs:attribute name="currencyPeriod">
198     <xs:simpleType>
199         <xs:restriction base="xs:token">
200             <xs:enumeration value="Daily"/>
201             <xs:enumeration value="Week"/>
202             <xs:enumeration value="Bi-Weekly"/>
203             <xs:enumeration value="Month"/>
204             <xs:enumeration value="Bi-Monthly"/>
205             <xs:enumeration value="Quarterly"/>
206             <xs:enumeration value="Semi-Annually"/>
207             <xs:enumeration value="Annually"/>
208         </xs:restriction>
209     </xs:simpleType>
210 </xs:attribute>
211
212 <!-- Simple Types -->
213 <xs:simpleType name="empty-string">
214     <xs:annotation>
215         <xs:documentation>
216             A primitive type used to permit null values, represented
217             by the empty string, for data types other than the
218             xs:string type. Combined with the base data type in a
219             union, the custom data type can permit validation of the
220             XML instance document where the underlying type is
221             integer for example. In that case, the values permitted
222             are any integer OR the empty string.
223         </xs:documentation>
224     </xs:annotation>
225     <xs:restriction base="xs:string">
226         <xs:length value="0"/>
227     </xs:restriction>
228 </xs:simpleType>
229 <xs:simpleType name="stringnumeric">
230     <xs:restriction base="xs:string">
231         <xs:pattern value="[0-9]*" />
232     </xs:restriction>
```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```
233 </xs:simpleType>
234 <xs:simpleType name="month">
235   <xs:restriction base="xs:string">
236     <xs:enumeration value="January"/>
237     <xs:enumeration value="February"/>
238     <xs:enumeration value="March"/>
239     <xs:enumeration value="April"/>
240     <xs:enumeration value="May"/>
241     <xs:enumeration value="June"/>
242     <xs:enumeration value="July"/>
243     <xs:enumeration value="August"/>
244     <xs:enumeration value="September"/>
245     <xs:enumeration value="October"/>
246     <xs:enumeration value="November"/>
247     <xs:enumeration value="December"/>
248   </xs:restriction>
249 </xs:simpleType>
250
251 <xs:simpleType name="nullable-dateTime">
252   <xs:annotation>
253     <xs:documentation>
254       Utilization of the xml validation trick of nullability.
255       See nntp:microsoft.public.dotnet.xml
256       messageId 08#J5#61EHA.2676@TK2MSFTNGP12.phx.gbl
257       by Patricia Walmsley.
258
259       As noted therein, the normally described solution of
260       using the nillable attribute requires the addition of
261       the xs:nil="true" to each element that is nil.
262
263       The solution provided in the nntp group
264       xmlschema-dev@w3.org
265       messageId 170431525270.20030527171850@jenitennison.com
266       does not work.
267
268       The union permits the underlying data type
269       representation and the empty element tag.
270       Both a valid dateTime and the string "" will validate.
271
272       This documentation comment applies to all simpleTypes
273       with the name pattern nullable-data-type.
274     </xs:documentation>
275   </xs:annotation>
276   <xs:union memberTypes="xs:dateTime commons:empty-string"/>
277 </xs:simpleType>
278 <xs:simpleType name="nullable-decimal">
279   <xs:union memberTypes="xs:decimal commons:empty-string"/>
280 </xs:simpleType>
281 <xs:simpleType name="nullable-integer">
282   <xs:union memberTypes="xs:integer commons:empty-string"/>
283 </xs:simpleType>
```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```
284 <xs:simpleType name="nullable-float">
285   <xs:union memberTypes="xs:float commons:empty-string"/>
286 </xs:simpleType>
287
288 <xs:complexType name="Measurement">
289   <xs:simpleContent>
290     <xs:extension base="commons:nullable-decimal">
291       <xs:attribute ref="commons:measurementUnits"
292         use="optional"/>
293     </xs:extension>
294   </xs:simpleContent>
295 </xs:complexType>
296
297 <xs:complexType name="Area">
298   <xs:simpleContent>
299     <xs:extension base="commons:nullable-decimal">
300       <xs:attribute ref="commons:areaUnits"
301         use="optional"/>
302     </xs:extension>
303   </xs:simpleContent>
304 </xs:complexType>
305
306 <xs:complexType name="Remark">
307   <xs:annotation>
308     <xs:documentation>
309       Brief records, comments or explanation as pertaining to a
310       transaction, listing, meeting, contact, etc.
311     </xs:documentation>
312   </xs:annotation>
313   <xs:simpleContent>
314     <xs:extension base="xs:string">
315       <xs:attribute ref="commons:visibilityFlag"
316         use="optional">
317         <xs:annotation>
318           <xs:documentation>
319             Provides visibility information about the string
320           </xs:documentation>
321         </xs:annotation>
322       </xs:attribute>
323       <xs:attribute ref="commons:textFormatType"
324         use="optional"/>
325     </xs:extension>
326   </xs:simpleContent>
327 </xs:complexType>
328 <xs:complexType name="SecureString">
329   <xs:annotation>
330     <xs:documentation>
331       String element with an isgSecurityClass attribute.
332     </xs:documentation>
333   </xs:annotation>
334   <xs:simpleContent>
```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```
335         <xs:extension base="xs:string">
336             <xs:attribute ref="commons:isgSecurityClass"
337                 use="required"/>
338         </xs:extension>
339     </xs:simpleContent>
340 </xs:complexType>
341 <xs:complexType name="SecureInteger">
342     <xs:annotation>
343         <xs:documentation>
344             Integer element with an isgSecurityClass attribute.
345         </xs:documentation>
346     </xs:annotation>
347     <xs:simpleContent>
348         <xs:extension base="commons:nullable-integer">
349             <xs:attribute ref="commons:isgSecurityClass"
350                 use="required"/>
351         </xs:extension>
352     </xs:simpleContent>
353 </xs:complexType>
354 <xs:complexType name="SecureDecimal">
355     <xs:annotation>
356         <xs:documentation>
357             Decimal element with an isgSecurityClass attribute.
358         </xs:documentation>
359     </xs:annotation>
360     <xs:simpleContent>
361         <xs:extension base="commons:nullable-decimal">
362             <xs:attribute ref="commons:isgSecurityClass"
363                 use="required"/>
364         </xs:extension>
365     </xs:simpleContent>
366 </xs:complexType>
367 <xs:complexType name="SecureFloat">
368     <xs:annotation>
369         <xs:documentation>
370             Float element with an isgSecurityClass attribute.
371         </xs:documentation>
372     </xs:annotation>
373     <xs:simpleContent>
374         <xs:extension base="commons:nullable-float">
375             <xs:attribute ref="commons:isgSecurityClass"
376                 use="required"/>
377         </xs:extension>
378     </xs:simpleContent>
379 </xs:complexType>
380 <xs:complexType name="SecureMoney">
381     <xs:annotation>
382         <xs:documentation>
383             Money element with access control attribute
384         </xs:documentation>
385     </xs:annotation>
```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```
386     <xs:simpleContent>
387         <xs:extension base="commons:nullable-decimal">
388             <xs:attribute ref="commons:isgSecurityClass"
389                 use="required"/>
390             <xs:attribute ref="commons:currencyCode"
391                 use="optional" />
392         </xs:extension>
393     </xs:simpleContent>
394 </xs:complexType>
395 <xs:complexType name="SecureYear">
396     <xs:annotation>
397         <xs:documentation>
398             gYear element with an isgSecurityClass attribute.
399         </xs:documentation>
400     </xs:annotation>
401     <xs:simpleContent>
402         <xs:extension base="xs:gYear">
403             <xs:attribute ref="commons:isgSecurityClass"
404                 use="required"/>
405         </xs:extension>
406     </xs:simpleContent>
407 </xs:complexType>
408 <xs:complexType name="SecureToken">
409     <xs:annotation>
410         <xs:documentation>
411             String token with an isgSecurityClass attribute.
412         </xs:documentation>
413     </xs:annotation>
414     <xs:simpleContent>
415         <xs:extension base="xs:NMTOKEN">
416             <xs:attribute ref="commons:isgSecurityClass"
417                 use="required"/>
418         </xs:extension>
419     </xs:simpleContent>
420 </xs:complexType>
421 <xs:complexType name="SecureURI">
422     <xs:annotation>
423         <xs:documentation>
424             URI element with an isgSecurityClass attribute.
425         </xs:documentation>
426     </xs:annotation>
427     <xs:simpleContent>
428         <xs:extension base="xs:anyURI">
429             <xs:attribute ref="commons:isgSecurityClass"
430                 use="required"/>
431         </xs:extension>
432     </xs:simpleContent>
433 </xs:complexType>
434 <xs:complexType name="SecureDateTime">
435     <xs:annotation>
436         <xs:documentation>
```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```
437         DateTime element with an isgSecurityClass attribute.
438     </xs:documentation>
439 </xs:annotation>
440 <xs:simpleContent>
441     <xs:extension base="commons:nullable-dateTime">
442         <xs:attribute ref="commons:isgSecurityClass"
443             use="required"/>
444     </xs:extension>
445 </xs:simpleContent>
446 </xs:complexType>
447 <xs:complexType name="SecureBoolean">
448     <xs:annotation>
449         <xs:documentation>
450             Boolean element with an isgSecurityClass attribute.
451         </xs:documentation>
452     </xs:annotation>
453     <xs:simpleContent>
454         <xs:extension base="xs:boolean">
455             <xs:attribute ref="commons:isgSecurityClass"
456                 use="required"/>
457         </xs:extension>
458     </xs:simpleContent>
459 </xs:complexType>
460 <xs:complexType name="SecureMeasurement">
461     <xs:annotation>
462         <xs:documentation>
463             Measurement element with visibility control and units
464             attributes.
465         </xs:documentation>
466     </xs:annotation>
467     <xs:simpleContent>
468         <xs:extension base="commons:Measurement">
469             <xs:attribute ref="commons:isgSecurityClass"
470                 use="required"/>
471         </xs:extension>
472     </xs:simpleContent>
473 </xs:complexType>
474 <xs:complexType name="SecureArea">
475     <xs:annotation>
476         <xs:documentation>
477             Area element with visibility control and units
478             attributes.
479         </xs:documentation>
480     </xs:annotation>
481     <xs:simpleContent>
482         <xs:extension base="commons:Area">
483             <xs:attribute ref="commons:isgSecurityClass"
484                 use="required"/>
485         </xs:extension>
486     </xs:simpleContent>
487 </xs:complexType>
```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Primitives.xsd 4/15/2007, 1
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```
488 <xs:complexType name="SecureRemark">
489   <xs:annotation>
490     <xs:documentation>
491       Secured, brief record, comments or explanation pertaining
492       to a transaction, listing, meeting, contact, etc.
493     </xs:documentation>
494   </xs:annotation>
495   <xs:simpleContent>
496     <xs:extension base="commons:Remark">
497       <xs:attribute ref="commons:isgSecurityClass"
498         use="required"/>
499     </xs:extension>
500   </xs:simpleContent>
501 </xs:complexType>
502 <xs:complexType name="Age">
503   <xs:annotation>
504     <xs:documentation>
505       The age, in years, of a structure.
506     </xs:documentation>
507   </xs:annotation>
508   <xs:simpleContent>
509     <xs:extension base="commons:SecureInteger"/>
510   </xs:simpleContent>
511 </xs:complexType>
512 </xs:schema>
```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Properties.xsd 4/4/2007, 8:35:14PM

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
3   xmlns:prop="http://www.ftc2.com/xsd/Properties/2007-04"
4   xmlns:commons="http://www.ftc2.com/xsd/RETSCommons/2007-04"
5   xmlns:record="http://www.ftc2.com/xsd/PublicRecords/2007-04"
6   targetNamespace="http://www.ftc2.com/xsd/Properties/2007-04"
7   elementFormDefault="qualified"
8   attributeFormDefault="unqualified">
9
10 <!--
11   Tab stops
12   :set ts=3
13
14   File History
15   =====
16   $Header: Properties.xsd, 23, 4/3/2007 4:59:32 PM, Paul Stusiak$
17
18   $Log:
19     23   055_RETS_Standard1.22      4/3/2007 4:59:32 PM   Paul
Stusiak   use
20         url resolution for include, import to test schema validation
21     22   055_RETS_Standard1.21      4/3/2007 1:44:35 AM   Paul
Stusiak
22         change namespace to remote location (www.ftc2.com) for
testing. Also
23         remove additional, redundant import statement.
24     21   055_RETS_Standard1.20      4/2/2007 11:26:57 AM   Paul
Stusiak
25         change namespace to match responding server and to use the
URI
26         versioning suggested by both HP and XFront
27     20   055_RETS_Standard1.19      3/30/2007 6:20:07 PM   Paul
Stusiak
28         Update of the versionTimestamp and the namespace (namespace
to
29         200704). Change formatting to a standard format
30     19   055_RETS_Standard1.18      3/30/2007 12:51:52 PM   Paul
Stusiak
31         Remove redundant types. Use commons:Financial
32     18   055_RETS_Standard1.17      3/29/2007 12:20:31 AM   Paul
Stusiak
33         refactoring work
34     17   055_RETS_Standard1.16      3/28/2007 7:22:57 PM   Paul
Stusiak
35         checkpoint check-in
36     16   055_RETS_Standard1.15      3/26/2007 6:43:42 PM   Paul
Stusiak
37         additional annotations added and some minor corrections
38     15   055_RETS_Standard1.14      3/8/2007 12:24:29 PM   Paul
Stusiak
39         Change Property -> Properties, PublicRecord->PublicRecords

```

File: C:\work\projects\055_RETS2_Standard\RETS2\xsd\Properties.xsd 4/4/2007, 8:35:14PM

40	namespace	reference. Formatting change for readability.
41	14 Stusiak	055_RETS_Standard1.13 3/8/2007 10:50:14 AM Paul
42		Rename to correctly reflect the root element.
43	13 Stusiak	055_RETS_Standard1.12 3/7/2007 11:00:52 PM Paul
44		Added standard document header
45	12 Accawi	055_RETS_Standard1.11 2/22/2007 3:34:53 PM Gina
46		Remove all references to the schemaLocation as being
47		http://retserver.realtors.org:8080/xsd/. These references
48		have been
49		changed to be relative path (as the current directory). Now,
50	internal	regardless of where they are published, the referential
51		integrity will remain. The assumption is that these will all
52	11 Accawi	reside as neighbors on the target distribution server.
53		055_RETS_Standard1.10 2/22/2007 3:00:58 PM Gina
54		Correct element type reference to missing type in
55	RETSCommons:	TotalArea to Area. Comment out element with missing type in
56		RETSCommons Floors. There is a Stories element present, this
57	10 Stusiak	may be redundant.
58		055_RETS_Standard1.9 2/22/2007 12:13:19 PM Paul
59	9 Brush	correct Road and Driveway elements, minor format change
60		055_RETS_Standard1.8 1/2/2007 11:22:24 AM Jeff
61		refactored to include FBS, MRIS and 12/20/06 MLS meeting
62	8 Brush	suggestions for schema revisions
63		055_RETS_Standard1.7 12/20/2006 12:31:09 PM Jeff
64		added retserver location back to imports; renamed Prospect
65		to SavedQuery; changed ListingHistory to track only select
66		fields identified by workgroup; renamed Agency to Agents and fixed
67		references in other schemas; changed TotalSqFeet references to TotalArea;
68	7 Stusiak	per 12/7 MLS payload workgroup meeting
69		055_RETS_Standard1.6 12/2/2006 1:12:45 AM Paul
70		various mechanical fixes tho the schema and a re-direct from
71	6	retserver.realtors.org to www.ftc2.com
		055_RETS_Standard1.5 11/28/2006 1:41:32 AM Paul

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```

    Stusiak
72          updated version per meetings
73      5    055_RETS_Standard1.4          9/20/2006 12:43:27 PM Jeff
    Brush
74          chgd schemaLocation to point to
    http://retserver.rets.org:8080/xsd/
75      4    055_RETS_Standard1.3          4/7/2006 7:36:40 PM Jeff
    Brush
76          renamed version attribute to versionTimestamp for schema
    versioning
77      3    055_RETS_Standard1.2          4/7/2006 1:37:40 PM Jeff
    Brush
78          modified to have schema versioning as datetime, add year
    month to
79          namespaces, minor corrections
80      2    055_RETS_Standard1.1          4/4/2006 8:05:59 AM Jeff
    Brush
81          Updated schemas. All MLS schemas have extensibility points.
    New
82          ObjectReferenceList.xsd
83      1    055_RETS_Standard1.0          3/6/2006 8:13:39 AM Paul
    Stusiak
84      $
85      =====
86      -->
87      <xs:annotation>
88          <xs:documentation>
89              Attributes and Elements related to the property.
90          </xs:documentation>
91      </xs:annotation>
92
93      <xs:import namespace="http://www.ftc2.com/xsd/RETSCommons/2007-04"
94
95      schemaLocation="http://www.ftc2.com/xsd/RETSCommons/2007-04/RETSCommons.x
96      sd"/>
97      <xs:import namespace="http://www.ftc2.com/xsd/PublicRecords/2007-04"
98
99      schemaLocation="http://www.ftc2.com/xsd/PublicRecords/2007-04/PublicRecor
100      ds.xsd"/>
101
102      <!-- Types -->
103      <xs:complexType name="Rooms">
104          <xs:sequence>
105              <xs:element name="TotalRooms"
106                  type="commons:TotalRooms"
107                  minOccurs="0"
108                  maxOccurs="1"/>
109              <xs:element name="TotalBeds"
110                  type="commons:BedsTotal"
111                  minOccurs="0"
112                  maxOccurs="1"/>

```

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```
109         <xs:element name="Baths"
110             type="commons:Baths"
111             minOccurs="0"
112             maxOccurs="1"/>
113         <xs:element name="Room"
114             type="commons:Room"
115             minOccurs="0"
116             maxOccurs="unbounded"/>
117         <xs:any namespace="##other"
118             minOccurs="0"
119             maxOccurs="unbounded"/>
120     </xs:sequence>
121 </xs:complexType>
122 <xs:complexType name="BuildingMeasurements">
123     <xs:sequence>
124         <xs:element name="LivingArea"
125             type="commons:LivingArea"
126             minOccurs="0"/>
127     </xs:sequence>
128 </xs:complexType>
129 <xs:complexType name="BuildingConstruction">
130     <xs:sequence>
131         <xs:element name="Windows"
132             type="commons:Windows"
133             minOccurs="0"/>
134         <xs:element name="Balcony"
135             type="commons:Balcony"
136             minOccurs="0"/>
137         <xs:element name="Porch"
138             type="commons:Porch"
139             minOccurs="0"/>
140         <xs:element name="Deck"
141             type="commons:Deck"
142             minOccurs="0"/>
143
144         <xs:element name="ExteriorFeatures"
145             type="commons:ExteriorFeatures"
146             minOccurs="0"/>
147         <xs:element name="FoundationDetails"
148             type="commons:FoundationDetails"
149             minOccurs="0"/>
150         <xs:element name="Exterior"
151             type="commons:Exterior"
152             minOccurs="0"/>
153         <xs:element name="Roof"
154             type="commons:Roof"
155             minOccurs="0"/>
156         <xs:element name="EnergyInformation"
157             type="commons:EnergyInformation"
158             minOccurs="0"/>
159         <xs:element name="ConstructionMaterials"
```

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```
160         type="commons:ConstructionMaterials"
161         minOccurs="0"/>
162     </xs:sequence>
163 </xs:complexType>
164 <xs:complexType name="BuildingDescription">
165     <xs:sequence>
166         <xs:element name="PropertyCondition"
167             type="commons:PropertyCondition"
168             minOccurs="0"/>
169         <xs:element name="ExistingStructures"
170             type="commons:ExistingStructures"
171             minOccurs="0"/>
172         <xs:element name="Stories"
173             type="commons:Stories"
174             minOccurs="0"/>
175     </xs:sequence>
176 </xs:complexType>
177 <xs:complexType name="BuildingDesign">
178     <xs:sequence>
179         <xs:element name="DevelopmentStatus"
180             type="commons:DevelopmentStatus"
181             minOccurs="0"/>
182         <xs:element name="YearBuilt"
183             type="commons:YearBuilt"
184             minOccurs="0"/>
185         <xs:element name="Style"
186             type="commons:Style"
187             minOccurs="0"/>
188         <xs:element name="isDisabilityAccessible"
189             type="xs:boolean"
190             minOccurs="0"/>
191         <xs:element name="DisabilityFeatures"
192             type="commons:DisabilityFeatures"
193             minOccurs="0"/>
194     </xs:sequence>
195 </xs:complexType>
196 <xs:complexType name="Interior">
197     <xs:sequence>
198         <xs:element name="WallMaterials"
199             type="commons:Walls"
200             minOccurs="0"/>
201         <xs:element name="AtticDetails"
202             type="commons:AtticDetails"
203             minOccurs="0"/>
204         <xs:element name="BasementDetails"
205             type="commons:BasementDetails"
206             minOccurs="0"/>
207         <xs:element name="BasementType"
208             type="commons:BasementType"
209             minOccurs="0"/>
210         <xs:element name="InteriorFeatures"
```

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```
211         type="commons:InteriorFeatures"
212         minOccurs="0"/>
213     <xs:element name="Fireplace"
214         type="commons:Fireplace"
215         minOccurs="0"/>
216 </xs:sequence>
217 </xs:complexType>
218 <xs:complexType name="Unit">
219     <xs:sequence>
220         <xs:element name="FloorOrLevel"
221             type="xs:string"
222             minOccurs="0"/>
223         <xs:any namespace="##other"
224             minOccurs="0"
225             maxOccurs="unbounded"/>
226     </xs:sequence>
227 </xs:complexType>
228 <xs:complexType name="Lot">
229     <xs:sequence>
230         <xs:element name="LotSize"
231             type="commons:LotSize"
232             minOccurs="0"/>
233         <xs:element name="LotSizeRange"
234             type="commons:LotSizeRange"
235             minOccurs="0"/>
236         <xs:element name="Parking"
237             type="commons:Parking"
238             minOccurs="0"/>
239     </xs:sequence>
240 </xs:complexType>
241 <xs:complexType name="Building">
242     <xs:sequence>
243         <xs:element name="BuildingConstruction"
244             type="prop:BuildingConstruction"
245             minOccurs="0"
246             maxOccurs="1"/>
247         <xs:element name="BuildingDescription"
248             type="prop:BuildingDescription"
249             minOccurs="0"
250             maxOccurs="1"/>
251         <xs:element name="BuildingDesign"
252             type="prop:BuildingDesign"
253             minOccurs="0"
254             maxOccurs="1"/>
255         <xs:element name="BuildingMeasurements"
256             type="prop:BuildingMeasurements"
257             minOccurs="0"
258             maxOccurs="1"/>
259         <xs:element name="Interior"
260             type="prop:Interior"
261             minOccurs="0"
```

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```
262         maxOccurs="1"/>
263     <xs:element name="Rooms"
264         type="prop:Rooms"
265         minOccurs="0"
266         maxOccurs="1"/>
267     <xs:element name="Unit"
268         type="prop:Unit"
269         minOccurs="0"
270         maxOccurs="1"/>
271     <xs:element name="Utilities"
272         type="commons:Utilities"
273         minOccurs="0"
274         maxOccurs="1"/>
275 </xs:sequence>
276 </xs:complexType>
277 <xs:complexType name="Community">
278     <xs:sequence>
279         <xs:element name="Subdivision"
280             type="commons:Subdivision"
281             minOccurs="0">
282         </xs:element>
283         <xs:element name="SchoolData"
284             type="commons:SchoolData"
285             minOccurs="0"/>
286     </xs:sequence>
287 </xs:complexType>
288 <xs:complexType name="Property">
289     <xs:sequence>
290         <xs:element name="PropertyType"
291             type="commons:PropertyType">
292             <xs:annotation>
293                 <xs:documentation>
294                 </xs:documentation>
295                 <xs:appinfo>
296                     Residential
297                 </xs:appinfo>
298             </xs:annotation>
299         </xs:element>
300         <xs:element name="PropertySubType"
301             type="commons:PropertySubType"
302             minOccurs="0">
303             <xs:annotation>
304                 <xs:documentation>
305                 </xs:documentation>
306                 <xs:appinfo>
307                     SingleFamily
308                 </xs:appinfo>
309             </xs:annotation>
310         </xs:element>
311         <xs:element name="Address"
312             type="commons:Address"/>
```

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```
313     <xs:element name="TotalArea"
314             type="commons:Area"
315             minOccurs="0"/>
316     <xs:element name="Occupant"
317             type="commons:Occupant"
318             minOccurs="0"/>
319     <xs:element name="Age"
320             type="commons:Age"
321             minOccurs="0"/>
322     <!--     <xs:element name="Floors" type="commons:Floors"
minOccurs="0"/> -->
323     <xs:element name="Laundry"
324             type="commons:Laundry"
325             minOccurs="0"/>
326     <xs:element name="AnimalPolicy"
327             type="commons:AnimalPolicy"
328             minOccurs="0"/>
329     <xs:element name="GeographicData"
330             type="commons:GeographicData"
331             minOccurs="0"/>
332     <xs:element name="TaxData"
333             type="record:TaxData"
334             minOccurs="0"/>
335     <xs:element name="Topography"
336             type="commons:Topography"
337             minOccurs="0"/>
338     <xs:element name="View"
339             type="commons:View"
340             minOccurs="0"/>
341     <xs:element name="ParcelAccess"
342             type="commons:ParcelAccess"
343             minOccurs="0"/>
344     <xs:element name="PresentUse"
345             type="commons:PresentUse"
346             minOccurs="0"/>
347     <xs:element name="Complex"
348             type="commons:Complex"
349             minOccurs="0"/>
350     <xs:element name="MobileHomeData"
351             type="commons:MobileHomeData"
352             minOccurs="0"/>
353     <xs:element name="Sidewalk"
354             type="commons:Sidewalk"
355             minOccurs="0"/>
356     <xs:element name="StreetLighting"
357             type="commons:StreetLighting"
358             minOccurs="0"/>
359     <xs:element name="WaterInformation"
360             type="commons:WaterInformation"
361             minOccurs="0"/>
362     <xs:element name="FarmInformation"
```

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```
363         type="commons:FarmInformation"
364         minOccurs="0"/>
365     <xs:element name="Zoning"
366         type="commons:Zoning"
367         minOccurs="0"/>
368     <xs:element name="PatioType"
369         type="commons:PatioType"
370         minOccurs="0"/>
371     <xs:element name="NumberOfBuildings"
372         type="commons:NumberOfBuildings"
373         minOccurs="0"/>
374     <xs:element name="Road"
375         type="commons:Road"
376         minOccurs="0"/>
377     <xs:element name="Driveway"
378         type="commons:Driveway"
379         minOccurs="0"/>
380     <xs:element name="ResourceHyperlinks"
381         type="commons:ResourceHyperlinks"
382         minOccurs="0"/>
383     <xs:element name="Building"
384         type="prop:Building"
385         minOccurs="0"/>
386     <xs:element name="Community"
387         type="prop:Community"
388         minOccurs="0"/>
389     <xs:element name="Financial"
390         type="commons:Financial"
391         minOccurs="0"/>
392     <xs:element name="Lot"
393         type="prop:Lot"
394         minOccurs="0"/>
395     <xs:any
396         namespace="##other"
397         minOccurs="0"
398         maxOccurs="unbounded"/>
399 </xs:sequence>
400 </xs:complexType>
401 <!-- Elements -->
402 <xs:element name="Properties">
403     <xs:complexType>
404         <xs:sequence>
405             <xs:element name="Property"
406                 type="prop:Property"
407                 minOccurs="0"/>
408         </xs:sequence>
409         <xs:attribute name="versionTimestamp"
410             type="xs:dateTime"
411             use="required"
412             fixed="2007-03-30T00:00:00Z"/>
413     </xs:complexType>
```

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```
414     </xs:element>  
415 </xs:schema>
```