

ARM 5.0 Schema Update

Last Updated: 11/05/2014

The revisions identified below are those made to the ARM 5.0 XML Schema and Reference Items since the original publication in March 2014. They are in reverse chronological order.

11/05/2014:

counselor_profile_databag_5_0.xsd:

1. Corrected a lower-case "i" to an upper-case "I" in the Counselor_Training_Course_Id element under Counselor_Training.

The screenshot displays two views of the XML Schema Editor for the file S:\HCS\new 9902 form\cms developers\20140923\XML Schema and Reference Items\counselor_profile_databag_5_0.xsd. The top view shows the schema definition for the 'Counselor_Training' complex type, with the 'Counselor_Training_Course_Id' element definition highlighted in a red box. The bottom view shows the same schema definition after the correction, with the 'Counselor_Training_Course_Id' element definition also highlighted in a red box. The change is from 'Counselor_Training_Course_Id' to 'Counselor_Training_Course_Id'.

```

53 </xs:complexType>
54 <xs:complexType name="Counselor_Training">
55 <xs:all>
56 <xs:element name="CMS_Counselor_Id" type="st:refId" />
57 <xs:element name="Counselor_Training_Cert" type="st:yesOrNo" />
58 <xs:element name="Counselor_Training_Course_Id" type="st:refId" />
59 </xs:all>
60 </xs:complexType>
61 <xs:complexType name="Counselor_Training_Courses">
62 <xs:sequence>
63 <xs:element name="Counselor_Training_Course" type="Counselor_Training_Course" maxOccurs="unbounded" />
64 </xs:sequence>
65 </xs:complexType>
66 <xs:complexType name="Counselor_Training_Course">
67 <xs:all>
68 <xs:element name="Counselor_Training_Course_Id" type="st:refId" />
69 <xs:element name="Counselor_Training_Title" type="st:trainingTitle" />
70 <xs:element name="Counselor_Training_Date" type="st:date" />
71 <xs:element name="Counselor_Training_Org" type="st:otherTrainingOrganization" />
72 <xs:element name="Counselor_Training_Org_Other" type="st:fieldValue" minOccurs="0" />
73 <xs:element name="Counselor_Training_Sponsor" type="st:sponsorTrainingOrganization" />
74 <xs:element name="Counselor_Training_Sponsor_Other" type="st:fieldValue" minOccurs="0" />

```

09/25/2014:

form_9902_databag_5_0.xsd:

1. Revised format of the "form_9902" section to allow for multiple instances of each element name that will be needed if multiple activity types are submitted.

ARM 5.0 Schema Update

```
9 <x:element name="Form_9902" type="Form_9902" minOccurs="0" maxOccurs="1" />
10 <x:element name="Attendee" type="Attendee" minOccurs="0" />
11 </x:all>
12 </xs:complexType>
13 </xs:element>
14 <x:complexType name="Form_9902">
15 <x:all>
16 <x:element name="Report_Period_Id" type="at:refId" />
17 <x:element name="Ethnicity_Households_Counseling_Hispanic" type="form9902Field" />
18 <x:element name="Ethnicity_Households_Counseling_Non_Hispanic" type="form9902Field" />
19 <x:element name="Ethnicity_Households_Counseling_No_Response" type="form9902Field" />
20 <x:element name="Section_1_Total" type="form9902Field" />
21 <x:element name="Race_Households_Counseling_American_Indian" type="form9902Field" />
22 <x:element name="Race_Households_Counseling_Asian" type="form9902Field" />
23 <x:element name="Race_Households_Counseling_Black_African_American" type="form9902Field" />
24 <x:element name="Race_Households_Counseling_Pacific_Islanders" type="form9902Field" />
25 <x:element name="Race_Households_Counseling_White" type="form9902Field" />
26 <x:element name="MultiRace_Households_Counseling_AMINDNHT" type="form9902Field" />
27 <x:element name="MultiRace_Households_Counseling_ASIANHNT" type="form9902Field" />
28 <x:element name="MultiRace_Households_Counseling_BLACK" type="form9902Field" />
29 <x:element name="MultiRace_Households_Counseling_AMCINDBLK" type="form9902Field" />
30 <x:element name="MultiRace_Households_Counseling_OtherMLTRC" type="form9902Field" />
31 <x:element name="MultiRace_Households_Counseling_No_Response" type="form9902Field" />
</x:all>
</xs:complexType>
</xs:element>
</xs:complexType>
</xs:element>
<x:complexType name="Form_9902">
<x:sequence>
<x:element name="Report_Period_Id" type="at:refId" />
<x:element name="Ethnicity_Households_Counseling_Hispanic" type="form9902Field" maxOccurs="unbounded" />
<x:element name="Ethnicity_Households_Counseling_Non_Hispanic" type="form9902Field" maxOccurs="unbounded" />
<x:element name="Ethnicity_Households_Counseling_No_Response" type="form9902Field" maxOccurs="unbounded" />
<x:element name="Section_1_Total" type="form9902Field" maxOccurs="unbounded" />
<x:element name="Race_Households_Counseling_American_Indian" type="form9902Field" maxOccurs="unbounded" />
<x:element name="Race_Households_Counseling_Asian" type="form9902Field" maxOccurs="unbounded" />
<x:element name="Race_Households_Counseling_Black_African_American" type="form9902Field" maxOccurs="unbounded" />
<x:element name="Race_Households_Counseling_Pacific_Islanders" type="form9902Field" maxOccurs="unbounded" />
<x:element name="Race_Households_Counseling_White" type="form9902Field" maxOccurs="unbounded" />
<x:element name="MultiRace_Households_Counseling_AMINDNHT" type="form9902Field" maxOccurs="unbounded" />
<x:element name="MultiRace_Households_Counseling_ASIANHNT" type="form9902Field" maxOccurs="unbounded" />
<x:element name="MultiRace_Households_Counseling_BLACK" type="form9902Field" maxOccurs="unbounded" />
<x:element name="MultiRace_Households_Counseling_AMCINDBLK" type="form9902Field" maxOccurs="unbounded" />
<x:element name="MultiRace_Households_Counseling_OtherMLTRC" type="form9902Field" maxOccurs="unbounded" />
<x:element name="MultiRace_Households_Counseling_No_Response" type="form9902Field" maxOccurs="unbounded" />
</x:sequence>
</xs:complexType>
</xs:element>
</xs:complexType>
</xs:element>
```

09/02/2014:

simpleTypes.xsd:

2. Revised Refid to change the max total digits from 10 to 18 (backwards compatible).

```
214 <x:restriction base="long" />
215 </xs:restriction>
216 </xs:simpleType>
217 <x:simpleType name="refId">
218 <x:restriction base="string" />
219 <x:totalDigits value="10" />
220 <x:minInclusive value="0" />
221 </xs:restriction>
222 </xs:simpleType>
223 <x:simpleType name="shortRefId">
224 <x:restriction base="string" />
225 <x:totalDigits value="10" />
226 <x:minInclusive value="0" />
227 </xs:restriction>
228 </xs:simpleType>
229 <x:simpleType name="refId">
230 <x:restriction base="string" />
231 <x:totalDigits value="18" />
232 <x:minInclusive value="0" />
233 </xs:restriction>
234 </xs:simpleType>
```

07/08/2014:

arm.wsd:

3. Reinstate the postSubmission method and associated data structures.

ARM 5.0 Schema Update

<pre> <wdd:message name="getAllReferenceItemsResponse"> <wdd:part element="tns:getAllReferenceItemsResponse" name="getAllReferenceItemsResp" /> </wdd:message> <wdd:message name="getReferenceGroupNames"> <wdd:part element="tns:getReferenceGroupNames" name="getReferenceGroupNames" /> </wdd:message> <wdd:message name="getReferenceGroupNamesResponse"> <wdd:part element="tns:getReferenceGroupNamesResponse" name="getReferenceGroupNames" /> </wdd:message> <wdd:message name="postAgencyData"> <wdd:part element="tns:postAgencyData" name="AgencyData" /> </wdd:message> <wdd:message name="postCounselorData"> <wdd:part element="tns:postCounselorData" name="postCounselorData" /> </wdd:message> </pre>	<pre> <wdd:message name="getAllReferenceItemsResponse"> <wdd:part element="tns:getAllReferenceItemsResponse" name="getAllReferenceItemsResp" /> </wdd:message> <wdd:message name="getReferenceGroupNames"> <wdd:part element="tns:getReferenceGroupNames" name="getReferenceGroupNames" /> </wdd:message> <wdd:message name="getReferenceGroupNamesResponse"> <wdd:part element="tns:getReferenceGroupNamesResponse" name="getReferenceGroupNames" /> </wdd:message> <wdd:message name="postSubmission"> <wdd:part element="tns:postSubmission" name="postSubmission" /> </wdd:message> <wdd:message name="postAgencyData"> <wdd:part element="tns:postAgencyData" name="AgencyData" /> </wdd:message> <wdd:message name="postCounselorData"> <wdd:part element="tns:postCounselorData" name="postCounselorData" /> </wdd:message> </pre>
<pre> <wdd:output message="tns:getReferenceGroupNamesResponse" name="getReferenceGroupNamesResponse" /> </wdd:output> <wdd:operation name="postAgencyData"> <wdd:input message="tns:postAgencyData" name="postAgencyData" /> </pre>	<pre> <wdd:output message="tns:getReferenceGroupNamesResponse" name="getReferenceGroupNamesResponse" /> </wdd:output> <wdd:operation name="postSubmission"> <wdd:input message="tns:postSubmission" name="postSubmission" /> <wdd:output message="tns:postSubmissionResponse" name="postSubmissionResponse" /> </wdd:operation> <wdd:operation name="postAgencyData"> <wdd:input message="tns:postAgencyData" name="postAgencyData" /> </pre>
<pre> <wdd:operation name="postAgencyData"> <wdd:input message="tns:postAgencyData" name="postAgencyData" /> </pre>	<pre> <wdd:operation name="postSubmission"> <wdd:input message="tns:postSubmission" name="postSubmission" /> <wdd:output message="tns:postSubmissionResponse" name="postSubmissionResponse" /> </wdd:operation> <wdd:operation name="postAgencyData"> <wdd:input message="tns:postAgencyData" name="postAgencyData" /> </pre>

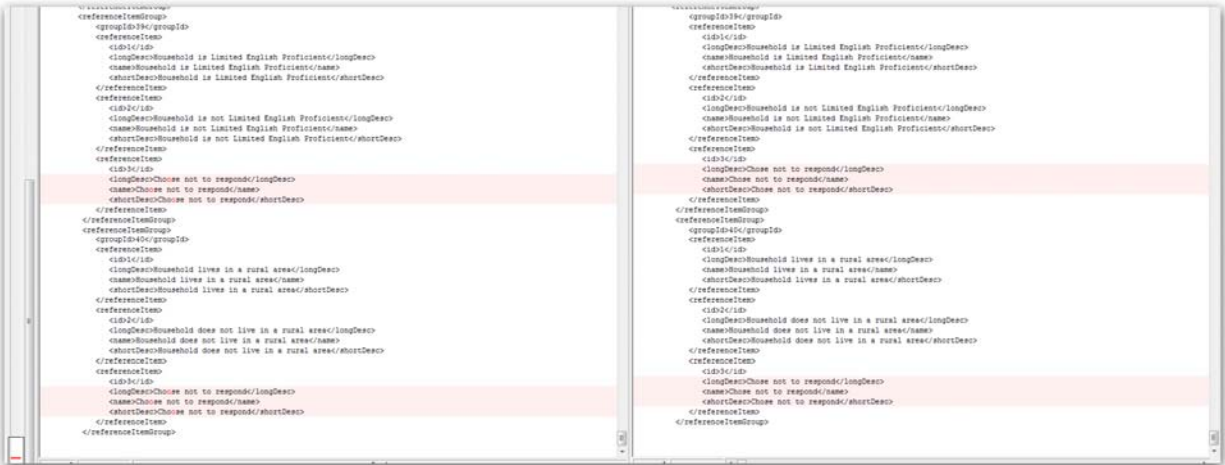
arm.xsd:

1. Reinstate the postSubmission method and associated data structures.

<pre> <x:sequence base="tns:SubmissionData" minOccurs="1" maxOccurs="1" /> </x:sequence> <x:complexType base="tns:SubmissionData" /> </x:complexType> <x:element name="SubmissionData" base="tns:SubmissionData" /> </x:element> <x:complexType base="tns:SubmissionHeader5.0" /> </x:complexType> <x:element name="SubmissionHeader5.0" base="tns:SubmissionHeader5.0" /> </x:element> </pre>	<pre> <x:sequence base="tns:SubmissionData" minOccurs="1" maxOccurs="1" /> </x:sequence> <x:complexType base="tns:SubmissionData" /> </x:complexType> <x:element name="SubmissionData" base="tns:SubmissionData" /> </x:element> <x:complexType base="tns:SubmissionHeader" /> </x:complexType> <x:element name="SubmissionHeader" base="tns:SubmissionHeader" /> </x:element> </pre>
<pre> <x:complexType base="tns:SubmissionData" /> </x:complexType> <x:complexType base="tns:SubmissionHeader5.0" /> </x:complexType> </pre>	<pre> <x:complexType base="tns:SubmissionData" /> </x:complexType> <x:complexType base="tns:SubmissionHeader" /> </x:complexType> </pre>

Reference Data - referenceData.txt

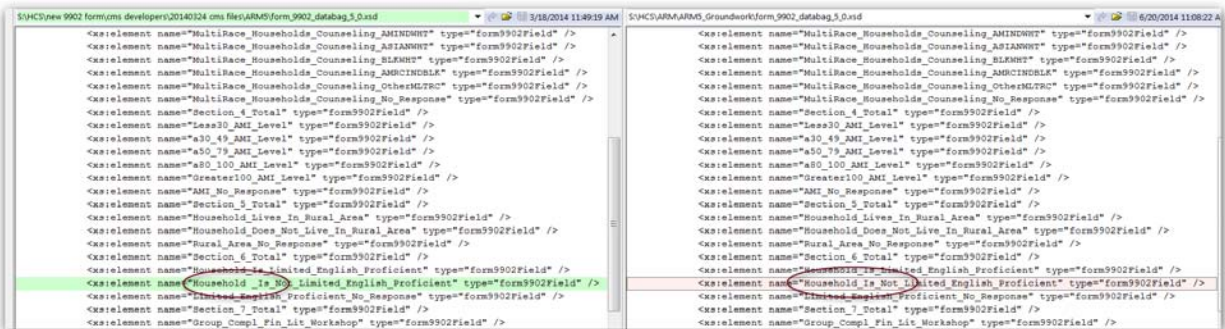
1. Revised text if item id=3 in group 39 Limited English Proficiency Types and group 40 Rural Area Types from "Choose not to respond" to "Chose not to respond".



06/24/2014:

FORM 9902 - form_9902_databag_5_0.xsd:

1. Fix for element Household_Is_Not_Limited_English_Proficient: Extra space removed.



2. Change to Elements listed below: Not required for Group_Session_Attendee. Continue to be required for Attendee.

- Attendee_Rural_Area
- Attendee_Limited_English_Proficiency

<pre> pe name="Group_Session_Attendee"> ll> <!--element name="Attendee_Id" type="at:refId"/> <!--element name="Attendee_Fee_Amount" type="xs:nonNegativeInteger" /> <!--element name="Attendee_Referred_By" type="at:shortRefId" /> <!--element name="Attendee_FirstTime_Home_Buyer" type="at:yesOrNo" /> <!--element name="Attendee_Income_Level" type="at:incomeLevel" minOccurs="0"/> <!--element name="Attendee_Address_1" type="at:addressLineLong" minOccurs="0"/> <!--element name="Attendee_Address_2" type="at:addressLineLong" minOccurs="0"/> <!--element name="Attendee_City" type="at:city" minOccurs="0"/> <!--element name="Attendee_State" type="at:state" minOccurs="0"/> <!--element name="Attendee_Zip_Code" type="at:zip" minOccurs="0"/> <!--element name="Attendee_Rural_Area" type="at:ruralAreaId" /> <!--element name="Attendee_Limited_English_Proficiency" type="at:limitedEngProfId" /> all> type> pe name="Attendee"> </pre>	<pre> pe name="Group_Session_Attendee"> ll> <!--element name="Attendee_Id" type="at:refId"/> <!--element name="Attendee_Fee_Amount" type="xs:nonNegativeInteger" /> <!--element name="Attendee_Referred_By" type="at:shortRefId" /> <!--element name="Attendee_FirstTime_Home_Buyer" type="at:yesOrNo" /> <!--element name="Attendee_Income_Level" type="at:incomeLevel" minOccurs="0"/> <!--element name="Attendee_Address_1" type="at:addressLineLong" minOccurs="0"/> <!--element name="Attendee_Address_2" type="at:addressLineLong" minOccurs="0"/> <!--element name="Attendee_City" type="at:city" minOccurs="0"/> <!--element name="Attendee_State" type="at:state" minOccurs="0"/> <!--element name="Attendee_Zip_Code" type="at:zip" minOccurs="0"/> <!--element name="Attendee_Rural_Area" type="at:ruralAreaId" minOccurs="0" /> <!--element name="Attendee_Limited_English_Proficiency" type="at:limitedEngProfId" minOccurs="0" /> all> type> pe name="Attendee"> </pre>
--	--

Reference Data - referenceData.txt

1. Added reference items for Group 38 – Activity Types

<pre> S:\HCS\new 9902 form\cms developers\20140324 cms files\ARM5\referenceData.txt 3/5/2014 3:53:40 PM <id>11</id> <longDesc>H/H that received reverse mortgage counseling and obtained a Home Equity Co <name>H/H that received reverse mortgage counseling and obtained a Home Equity Conve <shortDesc>H/H that received reverse mortgage counseling and obtained a Home Equity C </referenceItem> <referenceItem> <id>12</id> <longDesc>H/H that received non-delinquency post-purchase counseling that were able t <name>H/H that received non-delinquency post-purchase counseling that were able to im <shortDesc>H/H that received non-delinquency post-purchase counseling that were able </referenceItem> <referenceItem> <id>13</id> <longDesc>H/H that prevented or resolved a mortgage default after receiving Housing C <name>H/H that prevented or resolved a mortgage default after receiving Housing Couns <shortDesc>H/H that prevented or resolved a mortgage default after receiving Housing </referenceItem> </referenceItemGroup> <referenceItemGroup> </referenceItemGroup> </groupId>39</groupId> </referenceItem> </pre>	<pre> S:\HCS\ARM5\ARM5_Groundwork\referenceData.txt 6/23/2014 4:04:59 PM <id>11</id> <longDesc>H/H that received reverse mortgage counseling and obtained a Home Equity Co <name>H/H that received reverse mortgage counseling and obtained a Home Equity Conve <shortDesc>H/H that received reverse mortgage counseling and obtained a Home Equity C </referenceItem> <referenceItem> <id>12</id> <longDesc>H/H that received non-delinquency post-purchase counseling that were able t <name>H/H that received non-delinquency post-purchase counseling that were able to im <shortDesc>H/H that received non-delinquency post-purchase counseling that were able </referenceItem> <referenceItem> <id>13</id> <longDesc>H/H that prevented or resolved a mortgage default after receiving Housing C <name>H/H that prevented or resolved a mortgage default after receiving Housing Couns <shortDesc>H/H that prevented or resolved a mortgage default after receiving Housing </referenceItem> </referenceItemGroup> <referenceItemGroup> <groupId>38</groupId> <referenceItem> <id>4</id> <longDesc>Activities for All Counseling and Education</longDesc> <name>Activities for All Counseling and Education</name> <shortDesc>Activities for All Counseling and Education</shortDesc> </referenceItem> <referenceItem> <id>7</id> <longDesc>NOFA 2014-1 COMP</longDesc> <name>NOFA 2014-1 COMP</name> <shortDesc>NOFA 2014-1 COMP</shortDesc> </referenceItem> </referenceItemGroup> </referenceItemGroup> </groupId>39</groupId> </referenceItem> </pre>
---	---