

# FORM SYSTEM DOCUMENTATION



#### Document History

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| Date | Version | Revision Details | Author | Reviewed By | Approved By |
| 30-01-2017 | 1.0 | Initial Draft | Sebin Sequira |  |  |
|  |  |  |  |  |  |

**TABLES**

**1) forms -**

This table contains the layout definition of all forms in XML format.

Sample XML format -

<xml>

<form\_settings>

<form\_name>25\_domesticinfantadoptionprogram</form\_name>

<type>N</type>

<form\_label>Domestic Infant Adoption Program </form\_label>

<description>Your home study application</description>

<send\_admin\_mail>0</send\_admin\_mail>

<send\_auto\_respond>0</send\_auto\_respond>

<on\_submit>showmsg</on\_submit>

<on\_submit\_msg> </on\_submit\_msg>

<print\_format>a4</print\_format>

<use\_pdf\_mapping>1</use\_pdf\_mapping>

<has\_header>0</has\_header>

<page\_header />

</form\_settings>

<form\_json>

<pages>

<page>

<page\_name>page\_2122</page\_name>

<page\_label>Page 1</page\_label>

<active>1</active>

<fields>

<field>

<type>header</type>

<label>Header 52572</label>

<name>input\_</name>

<validate>

<required>0</required>

<minlength>undefined</minlength>

<maxlength>undefined</maxlength>

</validate>

<columnsize>12</columnsize>

<size>16</size>

<color />

<html\_code>

&lt;p&gt;&lt;strong&gt;Please note that at the time of &lt;u&gt;application&lt;/u&gt;, applicants to the placement program must be &lt;u&gt;younger than 45 years of age&lt;/u&gt;. &lt;/strong&gt;The minimum age to adopt is 25 years of age.&lt;/p&gt;

</html\_code>

</field>

<field>

<type>checkbox</type>

<label>What race child would you consider adopting?</label>

<name>input\_whatrace</name>

<inline>0</inline>

<validate>

<required>0</required>

<minlength>undefined</minlength>

<maxlength>undefined</maxlength>

</validate>

<columnsize>6</columnsize>

<items>

<item>

<label>African American</label>

<value>African American</value>

</item>

<item>

<label>Caucasian</label>

<value>Caucasian</value>

</item>

<item>

<label>Hispanic</label>

<value>Hispanic</value>

</item>

</items>

</field>

</fields>

</page>

</pages>

</form\_json>

<form\_rules />

</xml>

**2) form\_data -**

Contains the data submitted by users for all forms in XML format.

Sample XML format -

<xml>

<Date\_110>2016-01-27</Date\_110>

<AP1Fname>Michele</AP1Fname>

<AP1Lname>Myauo</AP1Lname>

<AP2Fname>Ting</AP2Fname>

<AP2Lname>Myauo</AP2Lname>

<Add1>1009 Cottage Street SW</Add1>

<City>Vienna</City>

<State>VA</State>

<Zip>22180</Zip>

<route>data</route>

<reqParams />

<restangularized>1</restangularized>

<fromServer>1</fromServer>

<parentResource />

<restangularCollection>0</restangularCollection>

</xml>

**3) library\_master -**

Contains all type of field formats in JSON structure.

Sample JSON format -

**{**

"type": "text",

"label": "Parent 1 First Name",

"name": "AP1Fname",

"placeholder": "",

"default": "",

"validate": **{**

"require": **false**,

"minlength": **0**,

"maxlength": **75**

**}**,

"columnsize": **12**,

"is\_sys\_lib": **1**,

"is\_cus\_lib": **0**,

"is\_multi\_component": **0**,

"component": "",

"name\_labels": **[]**

**}**

**4) library\_systemdata -**

Contains the value of system library fields submitted by users in XML format.

Sample XML format -

<Library>

<ContactID>36</ContactID>

<AP1Fname>Jessica</AP1Fname>

<AP1MName>Marie</AP1MName>

<AP1Lname>Lucas</AP1Lname>

<AP1DOB>1964-03-09T00:00:00</AP1DOB>

<AP1Gender>F</AP1Gender>

<AP1Nickname />

<AP1SSN />

<AP1BirthName />

<AP1BirthCity />

<AP1BirthState>0</AP1BirthState>

<AP1BirthCountry>0</AP1BirthCountry>

<AP1Email>jlucas@adoptionstogether.org</AP1Email>

<AP1CellPhone>(410) 869-0620</AP1CellPhone>

<AP2Fname />

<AP2MName />

<AP2Lname />

<AP2DOB>1900-01-01T00:00:00</AP2DOB>

<AP2Gender />

<AP2Nickname />

<AP2SSN />

<AP2BirthName />

<AP2BirthCity />

<AP2BirthState>0</AP2BirthState>

<AP2BirthCountry>0</AP2BirthCountry>

<AP2Email />

<AP2CellPhone />

<Add1>202 Worthmont Road</Add1>

<Add2 />

<City>Catonsville</City>

<Zip>21228</Zip>

<County />

<Country>USA</Country>

</Library>

**5) library\_customdata –**

Contains the value of custom library fields submitted by users in XML format.

Sample XML format -

<xml>

<ffsdformmonth\_2196>July 2016</ffsdformmonth\_2196>

<ffsdchessieid\_2199>3674828</ffsdchessieid\_2199>

<ffsdchildcaretakerprovider\_2203>Brenda Coleman</ffsdchildcaretakerprovider\_2203>

<ffsdchildcontact\_2211>Brenda Coleman</ffsdchildcontact\_2211>

<ffsdchildsattorney\_2217>Tyrone Crosby</ffsdchildsattorney\_2217>

<ffsddssattorney\_2218>Sarah Witlen</ffsddssattorney\_2218>

<ffsdnumberpreviousplacements\_2283>2</ffsdnumberpreviousplacements\_2283>

<ffsdopenstatus\_3474>Youth in Need of LLC/Perm. Resource</ffsdopenstatus\_3474>

<ffsdclosedstatus\_3475>Please Select</ffsdclosedstatus\_3475>

<ffsdlegalstatus\_2214>Cina</ffsdlegalstatus\_2214>

<ffsdtypeofplacement\_2215>Treatment Foster Care</ffsdtypeofplacement\_2215>

<ffsdchildsgoal\_2216>Guardianship/Adoption</ffsdchildsgoal\_2216>

<ffsdformupdatedate\_2195>2016-07-29 00:00:00</ffsdformupdatedate\_2195>

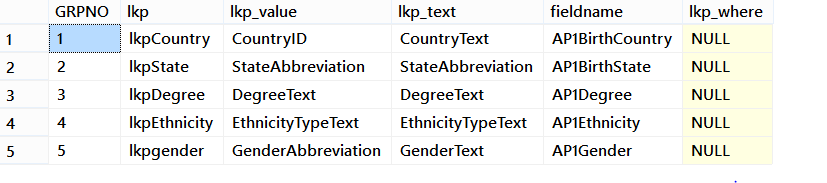
<ffsdchildnewaddressdate\_2206>1900-01-01 00:00:00</ffsdchildnewaddressdate\_2206>

<ffsddateofentryincare\_2282>2014-06-20 00:00:00</ffsddateofentryincare\_2282>

</xml>

**6) lkpdetails -**

Contains details about system field names and lookup tables associated with it.



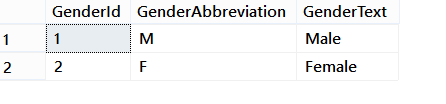
Column “lkp” contains the lookup table names.

Column “lkp\_value” contains the column name in lookup tables, which shows what type of value is saved in the library system data xml.

Column “lkp\_text” contains the column name in lookup tables, which shows what type of value is displayed when loading forms in AP login.

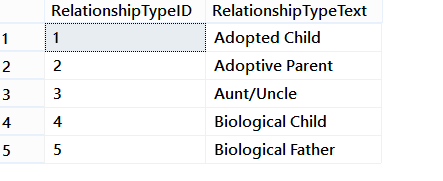
**7) lkpgender -**

Lookup table for gender library fields.



**8) Fam\_RelationshipType -**

Lookup table for relationship type field.



**9) Relations\_FormSystem -**

Used for storing data associated with relation fields in sub forms.

**STORED PROCEDURES**

**1) usp\_GetLibraryData**

Used for retrieving the values of library fields when form is displayed in AP login.

**2) usp\_UpdateContact\_OnFormSave**

Used for saving the contact and user account details in contact and user\_account tables when form is submitted.

**3) usp\_UpdateLibraryData**

Used for saving the values of library fields when form is submitted in AP login.

**4) usp\_GetRptSubformData**

Used to retrieve the values of fields in a sub form which is reportable.

**5) usp\_RptTblCreation**

Used to create tables dynamically for ad-hoc reports when a sub form is made reportable.

**6) usp\_UpdateRptSubformTbl**

Used to save the values of fields in a sub form (reportable) when it is submitted.

**7) usp\_UpdateRptSubformTbl\_Data**

Used to save the values of fields in a sub form (reportable) when it is submitted.

**8) Usp\_GetRelations\_FormSystem (Generate script from object explorer)**

Used to retrieve the values of relation fields in a sub form when it is displayed in AP login.

**9) usp\_UpdateAgeDetails**

Used to save the values of age fields in a form and contact details when it is submitted in AP login.

**10) usp\_Edit\_Contact\_Details**

**11) usp\_printform\_mapping**

**12) USP\_ViewMAPDataGroup**

**FUNCTIONS**

**1) qfn\_XmlToJson**

To convert nested XML input string to JSON string.

**2) qfn\_JsonEscape**

If a node has no children then its contents is a simple JSON value, which can be either a string or a number (as the null value is not present in the XML). In terms of JSON presentation, the only difference is quote enclosing and character escaping. This presentation is handled by dbo.qfn\_JsonEscape.

**3) udf\_Split\_into\_rows**

To split comma separated string input into row data.

**CHANGES IN EXISTING TABLE STRUCTURES**

1. To add isunlocked column for enabling relation type fields in master data (for showing in the list of relation type drop down field in sub forms).

Query -

ALTER TABLE rel\_lkp\_relationshiptype

ADD isunlocked VARCHAR(10);

ALTER TABLE rel\_lkp\_relationshiptype

ADD CONSTRAINT df\_rel\_lkp\_relationshiptype\_isunlocked

DEFAULT (0) FOR isunlocked;

UPDATE rel\_lkp\_relationshiptype

SET isunlocked=0;

**MIGRATION SCRIPTS**

**1) Forms**



Converts form layout definitions and settings (in tabular structure) to new forms (XML structure).

Click the above link to open the SQL file.

**2) Form data**



Converts form data submitted by users in tabular format to XML structure.

Each user will have an XML data in form\_data table for each form submission he has done in the past.

**3) Library Master**



Converts all system library fields and custom library fields created by an agency for forms from tabular format to JSON structure.

**4) Library System Data**



Converts the values submitted by users for system library fields from tabular format to XML format.

**5) Library Custom Data**



Converts the values submitted by users for custom library fields from tabular format to XML format.

**MULTI RECORD IMPLEMENTATION**

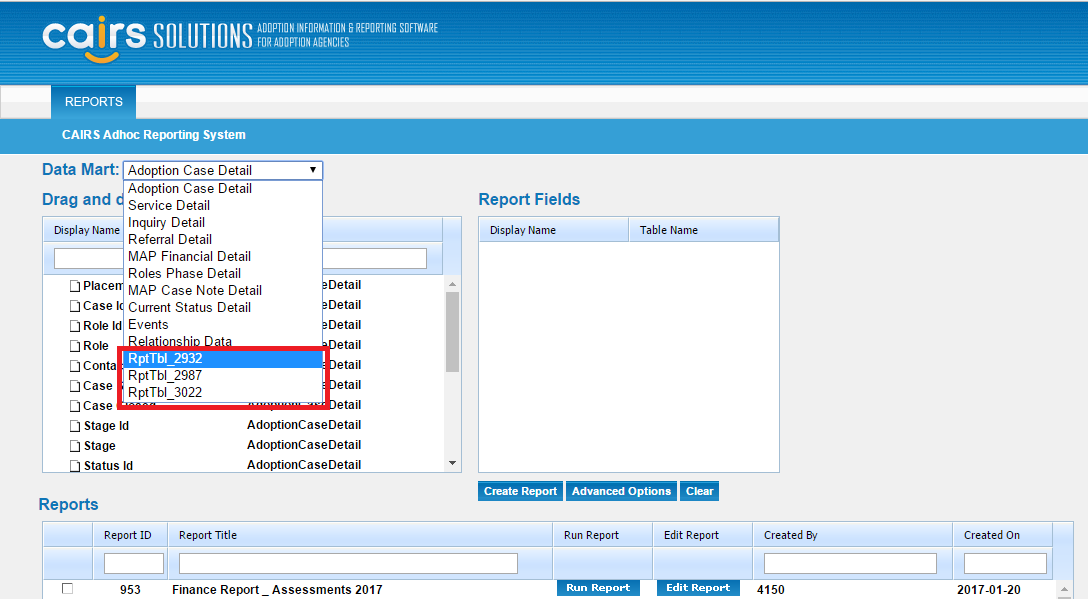
This feature is used for ad-hoc reporting purposes and insertion of multiple values for sub form fields specified.

**Stored Procedures used -**

1. **usp\_RptTblCreation** (Dynamic table creation)
2. **usp\_UpdateRptSubformTbl\_Data** (Inserting and updating the subform tables created)
3. **usp\_UpdateRptSubformTbl** (Called inside usp\_UpdateRptSubformTbl\_Data SP for inserting and updating different subform tables separately.)
4. **usp\_GetRptSubformDetails** (Fetching data from subform tables)

When a sub form is inserted and ‘is reportable’ is enabled from its field settings, “usp\_RptTblCreation” SP is called and that subform\_id and name is passed as input parameters.

From forms table ,we’ll fetch the definition\_xml for the subform\_id specified.We’ll create a table having name format “RptTbl\_subformID” and column names as each fieldname defined in the definition\_xml. This table name will be shown in data mart drop down list.

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