Salesforce MAGI and PSC Web Services (Cloud)

Specification Document

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By

Division of Medical Assistance & Health Services (DMAHS)

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New Jersey

Department of Human Services (DHS)
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1 Goals & Objectives:

Our goal is to provide MAGI and PSC (Program Status Code) calculator as a software function via web services which uses standard SOAP protocol. This is a technical document which addresses the usage of MAGI Web Service.

2 MAGI (Modified Adjusted Gross Income) Calculator

2.1 Objective:
This service will be used for obtaining eligibility information for a Medicaid member by supplying some specific input parameters, which are the known information of the member. The service will send the request to the existing web services and return the result as output parameters.

2.2 Exposed Web Service API:
GenerateMAGIOutput(String strXML):

This API takes one parameter as a XML string. Connecting to the service is little bit different here. It is a salesforce service. It uses two factor authentications. User has to be logged in first to get the Session ID using the credentials given. Enterprise WSDL has a login method which can be called with the credentials to login and get the Session ID. Session ID can then be passed in the Session header for the MAGI service in order to connect to the service. We have given the login details below. We will be emailing all the WSDLs to be referenced in order to login and connect to the service.

2.3 URL

Test:

Login WSDL: EnterpriseUAT_wSDL

MAGI WSDL: MAGIWebService_wSDL

UserName: magiap@dhs.state.nj.us

Password and Token: Will be emailed

Production: To be given
### 2.4 Input Parameters:

Below are the input parameters to the MAGI Calculator web service in the XML String. These parameters are the information of the Medicaid member.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Type</th>
<th>Length</th>
<th>Required</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 CLOUD_NUMBER</td>
<td>To be used as ID for the person</td>
<td>Integer</td>
<td>3</td>
<td>Yes</td>
<td>Between 1 to 100 only</td>
</tr>
<tr>
<td>2 FIRST_NAME</td>
<td>First Name of the Member</td>
<td>Character</td>
<td>50</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>3 DOB</td>
<td>Date of Birth of the Member</td>
<td>Character</td>
<td>10</td>
<td>yes</td>
<td>MM/DD/YYYY</td>
</tr>
<tr>
<td>4 SEX</td>
<td>Sex of the Member</td>
<td>Character</td>
<td>1</td>
<td>yes</td>
<td>F/M (F: Female, M:Male)</td>
</tr>
<tr>
<td>5 RELATIONS</td>
<td>With each member. Can have more than one relation block</td>
<td></td>
<td></td>
<td>Yes(if multiple members)</td>
<td><a href="#">See Appendix I</a> for codes. Also See Relation attributes in the table below this table</td>
</tr>
<tr>
<td>6 CITIZEN_STATUS</td>
<td>the Citizenship status</td>
<td>Character</td>
<td>1</td>
<td>yes</td>
<td>Can have only Y or N. If permanent resident(QA) then can be passed as Y</td>
</tr>
<tr>
<td>7 STUDENT</td>
<td>if the member is a student</td>
<td>Character</td>
<td>1</td>
<td>No</td>
<td>Y/N</td>
</tr>
<tr>
<td>8 IS_PREGNANT</td>
<td>if the member is pregnant</td>
<td>Character</td>
<td>1</td>
<td>No</td>
<td>Y/N</td>
</tr>
<tr>
<td>9 NO_BABYEXPECTED</td>
<td>Number of babies expected if pregnant</td>
<td>Number</td>
<td>2</td>
<td>Yes (if pregnant)</td>
<td>##</td>
</tr>
<tr>
<td></td>
<td><strong>Name</strong></td>
<td><strong>Description</strong></td>
<td><strong>Type</strong></td>
<td><strong>Length</strong></td>
<td><strong>Required</strong></td>
</tr>
<tr>
<td>---</td>
<td>---------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>--------------</td>
</tr>
<tr>
<td>10</td>
<td>MEMBER_INCOME</td>
<td>Monthly income of the member</td>
<td>Number</td>
<td>12</td>
<td>yes</td>
</tr>
<tr>
<td>11</td>
<td>CLAIMED_AS_DEPENDENT</td>
<td>If the person is claimed as dependent?</td>
<td>Character</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>HAS_OTHER_INSURANCE</td>
<td>If the member has been covered by other insurance</td>
<td>Character</td>
<td>1</td>
<td>yes</td>
</tr>
<tr>
<td>13</td>
<td>TAX_RETURNS</td>
<td>For the family</td>
<td></td>
<td></td>
<td>optional</td>
</tr>
</tbody>
</table>

- **Relation attributes**

<table>
<thead>
<tr>
<th></th>
<th><strong>Name</strong></th>
<th><strong>Description</strong></th>
<th><strong>Type</strong></th>
<th><strong>Length</strong></th>
<th><strong>Required</strong></th>
<th><strong>Format</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CLOUD_NUMBER</td>
<td>Cloud Number of other members, same as given to the members</td>
<td>Integer</td>
<td>3</td>
<td>yes</td>
<td>Between 1 to 100 only</td>
</tr>
<tr>
<td>2</td>
<td>RELATIONSHIP</td>
<td></td>
<td>Character</td>
<td>2</td>
<td>yes</td>
<td>From the code table (i.e. parent=’04’, child=’03’)</td>
</tr>
</tbody>
</table>

- **Tax Return attributes**

<table>
<thead>
<tr>
<th></th>
<th><strong>Name</strong></th>
<th><strong>Description</strong></th>
<th><strong>Type</strong></th>
<th><strong>Length</strong></th>
<th><strong>Required</strong></th>
<th><strong>Format</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FILERS</td>
<td>Can be more than one filer block</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Output Parameters:
Below are the returned results from the MAGI Calculator web service

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Type</th>
<th>Length</th>
<th>Required</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 CLOUD_NUMBER</td>
<td>To be used as ID for the person</td>
<td>Integer</td>
<td>3</td>
<td>Yes</td>
<td>Between 1 to 100 only</td>
</tr>
<tr>
<td>2 FIRST_NAME</td>
<td>First Name of the Member</td>
<td>Character</td>
<td>50</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>3 DOB</td>
<td>Date of Birth of the Member</td>
<td>Character</td>
<td>10</td>
<td>Yes</td>
<td>MM/DD/YYYY</td>
</tr>
<tr>
<td>4 MAGI_INCOME</td>
<td>Modified Adjusted Gross Income</td>
<td>Number</td>
<td>12</td>
<td>Yes</td>
<td>###################</td>
</tr>
<tr>
<td>5 FAMILY_SIZE</td>
<td>the number of family members including children under 19</td>
<td>Number</td>
<td>10</td>
<td>Yes</td>
<td>###################</td>
</tr>
<tr>
<td>6 PARENT_INDICATOR</td>
<td>if the member is a parent</td>
<td>Character</td>
<td>1</td>
<td>Yes</td>
<td>Y/N</td>
</tr>
<tr>
<td>7 CHILD_INDICATOR</td>
<td>if the member is a child under 19</td>
<td>Character</td>
<td>1</td>
<td>No</td>
<td>Y/N</td>
</tr>
<tr>
<td>8 PREGNANT_INDICATOR</td>
<td>If the member is pregnant</td>
<td>Character</td>
<td>1</td>
<td>Yes</td>
<td>Y/N</td>
</tr>
</tbody>
</table>

### Sample XML for Input/Output:

#### 2.6.1 XML sample Input (3 Household members)

```xml
<?xml version="1.0" encoding="utf-8"?>
<CLOUD_INPUT>
  <MEMBER>
    <CLOUD_NUMBER>1</CLOUD_NUMBER>
    <FIRST_NAME>John</FIRST_NAME>
    <DOB>02/03/1965</DOB>
    <SEX>M</SEX>
    <RELATIONS>
      <CLOUD_NUMBER>2</CLOUD_NUMBER>
      <RELATIONSHIP>03</RELATIONSHIP>
    </RELATIONS>
  </MEMBER>
</CLOUD_INPUT>
```
<CLOUD_NUMBER>3</CLOUD_NUMBER><RELATIONSHIP>03</RELATIONSHIP>
</RELATIONS>
<CITIZEN_STATUS>Y</CITIZEN_STATUS>
@student />
<IS_PREGNANT/>
<NO_BABY_EXPECTED/>
<MEMBER_INCOME>500</MEMBER_INCOME>
<HAS_OTHER_INSURANCE>N</HAS_OTHER_INSURANCE>
</MEMBER>

<MEMBER>
<CLOUD_NUMBER>2</CLOUD_NUMBER>
<FIRST_NAME>Amenda</FIRST_NAME>
<DOB>02/03/1994</DOB>
<SEX>F</SEX>
<RELATIONS>
  <CLOUD_NUMBER>1</CLOUD_NUMBER>
  <RELATIONSHIP>04</RELATIONSHIP>
</RELATIONS>
<RELATIONS>
  <CLOUD_NUMBER>3</CLOUD_NUMBER>
  <RELATIONSHIP>07</RELATIONSHIP>
</RELATIONS>
<CITIZEN_STATUS>Y</CITIZEN_STATUS>
@student />
<IS_PREGNANT/>
<NO_BABY_EXPECTED>1</NO_BABY_EXPECTED>
<MEMBER_INCOME>0</MEMBER_INCOME>
<HAS_OTHER_INSURANCE>N</HAS_OTHER_INSURANCE>
</MEMBER>

<MEMBER>
<CLOUD_NUMBER>3</CLOUD_NUMBER>
<FIRST_NAME>Alex</FIRST_NAME>
<DOB>02/03/1999</DOB>
<SEX>M</SEX>
<RELATIONS>
  <CLOUD_NUMBER>1</CLOUD_NUMBER>
  <RELATIONSHIP>04</RELATIONSHIP>
</RELATIONS>
<RELATIONS>
  <CLOUD_NUMBER>2</CLOUD_NUMBER>
  <RELATIONSHIP>07</RELATIONSHIP>
</RELATIONS>
<CITIZEN_STATUS>Y</CITIZEN_STATUS>
@student />
<IS_PREGNANT/>
<NO_BABY_EXPECTED/>
<MEMBER_INCOME>200</MEMBER_INCOME>
<!----------Optional but for better calculation it is needed------------>
<CLAIMED_ASDEPENDENT>Y</CLAIMED_ASDEPENDENT>
<HAS_OTHER_INSURANCE>N</HAS_OTHER_INSURANCE>
</MEMBER>

<TAX_RETURNS>
<FILERS>
  <CLOUD_NUMBER>1</CLOUD_NUMBER>
</FILERS>
2.6.2 **XML sample Output (3 Household members)**

```xml
<?xml version="1.0" encoding="utf-8"?>
<CLOUD_RESPONSE>
    <MEMBER>
        <CLOUD_NUMBER>1</CLOUD_NUMBER>
        <FIRST_NAME>John</FIRST_NAME>
        <DOB>02/03/1965</DOB>
        <MAGI_INCOME>500</MAGI_INCOME>
        <FAMILY_SIZE>2</FAMILY_SIZE>
        <PARENT_INDICATOR>Y</PARENT_INDICATOR>
        <CHILD_INDICATOR>N</CHILD_INDICATOR>
        <PREGNANT_INDICATOR>N</PREGNANT_INDICATOR>
    </MEMBER>
    <MEMBER>
        <CLOUD_NUMBER>2</CLOUD_NUMBER>
        <FIRST_NAME>Amenda</FIRST_NAME>
        <DOB>02/03/1994</DOB>
        <MAGI_INCOME>0</MAGI_INCOME>
        <FAMILY_SIZE>2</FAMILY_SIZE>
        <PARENT_INDICATOR>N</PARENT_INDICATOR>
        <CHILD_INDICATOR>Y</CHILD_INDICATOR>
        <PREGNANT_INDICATOR>Y</PREGNANT_INDICATOR>
    </MEMBER>
    <MEMBER>
        <CLOUD_NUMBER>3</CLOUD_NUMBER>
        <FIRST_NAME>Alex</FIRST_NAME>
        <DOB>02/03/1999</DOB>
        <MAGI_INCOME>500</MAGI_INCOME>
        <FAMILY_SIZE>2</FAMILY_SIZE>
        <PARENT_INDICATOR>N</PARENT_INDICATOR>
        <CHILD_INDICATOR>Y</CHILD_INDICATOR>
        <PREGNANT_INDICATOR>N</PREGNANT_INDICATOR>
    </MEMBER>
</CLOUD_RESPONSE>
```

3 **PSC (Program Status Code) Calculator**

3.1 **Objective:**
The purpose of this web service is to obtain the program status code and the Federal Poverty Level value for each member.

3.2 **Exposed Web Service API:**
GetPSCResponse (XMLInputString)
This API takes one parameter. The first parameter is a XML string. The output is a XML string.

### 3.3 URL

This is also a Salesforce service. It uses same technology to connect to the service as MAGI service. Please check the URL section of the MAGI service for details. WSDLs will be emailed.

**Test:**

- Login WSDL: EnterpriseUAT.wsdl (same as MAGI)
- PSC WSDL: PSCCalcServiceUAT.wsdl

UserId: magiapi@dhs.state.nj.us

Password and Token: Will be emailed. It is same as MAGI service.

**Production:** To be given

### 3.4 Input Parameters:

> Below are the input parameters to PSC Calculator Web service in the XML string.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Type</th>
<th>Length</th>
<th>Required</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 CLOUD_NUMBER</td>
<td>To be used as ID for the person</td>
<td>Integer</td>
<td>3</td>
<td></td>
<td>Between 1 to 100 as given in the first call (MAGI)</td>
</tr>
<tr>
<td>2 FIRST_NAME</td>
<td>First Name of the Member</td>
<td>Character</td>
<td>50</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>3 DOB</td>
<td>Date of Birth of the Member</td>
<td>Date</td>
<td>10</td>
<td>Yes</td>
<td>MM/DD/YYYY</td>
</tr>
<tr>
<td>4 CITIZEN_STATUS</td>
<td>The Citizenship status</td>
<td>Character</td>
<td>2</td>
<td>Yes</td>
<td>See Appendix II</td>
</tr>
<tr>
<td>5 APPLICATION_DATE</td>
<td>Date of the application submitted</td>
<td>Date</td>
<td>10</td>
<td>Yes</td>
<td>MM/DD/YYYY</td>
</tr>
<tr>
<td>6 MAGI_INCOME</td>
<td>Modified Adjusted Gross Income</td>
<td>Number</td>
<td>12</td>
<td>Yes</td>
<td>#.#.#.#.#.#</td>
</tr>
</tbody>
</table>
7  FAMILY_SIZE  The number of family members in the household. It excludes any child of age 19 or above.  Number  10  Yes  ##########

8  HAS_OTHER_INSURANCE  If the member has been covered by other insurance  Character  1  Yes  M/Y/N  (M: Medicare, Y: Yes, N: No)

9  PARENT_INDICATOR  if the member is a parent  Character  1  Yes  Y/N

10  CHILD_INDICATOR  if the member is a child under 19  Character  1  No  Y/N

11  PREGNANT_INDICATOR  If the member is pregnant  Character  1  Yes  Y/N

3.5  Output Parameters:
Below are the returned results from the PSC Calculator Web Service

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Type</th>
<th>Length</th>
<th>Required</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  CLOUD_NUMBER</td>
<td>To be used as ID for the person</td>
<td>Integer</td>
<td>3</td>
<td>Yes</td>
<td>Between 1 to 100 only</td>
</tr>
<tr>
<td>2  FIRST_NAME</td>
<td>First Name of the Member</td>
<td>Character</td>
<td>50</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>3  DOB</td>
<td>Date of Birth of the Member</td>
<td>Character</td>
<td>10</td>
<td>Yes</td>
<td>MM/DD/YYYY</td>
</tr>
<tr>
<td>4  FPL</td>
<td>Federal Poverty Level Percentage Value</td>
<td>Number</td>
<td>5</td>
<td>Yes</td>
<td>######</td>
</tr>
<tr>
<td>5  PSC</td>
<td>Program Status Code</td>
<td>Character</td>
<td>50</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>
3.6 Sample XML for Input/Output:

3.6.1 XML sample Input (3 Household members)

```xml
<?xml version="1.0" encoding="utf-8"?>
<PSC_INPUT>
  <MEMBER>
    <CLOUD_NUMBER>1</CLOUD_NUMBER>
    <FIRST_NAME>John</FIRST_NAME>
    <DOB>02/03/1965</DOB>
    <CITIZEN_STATUS>C</CITIZEN_STATUS>
    <APPLICATION_DATE>02/24/2014</APPLICATION_DATE>
    <MAGI_INCOME>500</MAGI_INCOME>
    <FAMILY_SIZE>2</FAMILY_SIZE>
    <HAS_OTHER_INSURANCE>N</HAS_OTHER_INSURANCE>
    <PARENT_INDICATOR>N</PARENT_INDICATOR>
    <CHILD_INDICATOR>N</CHILD_INDICATOR>
    <PREGNANT_INDICATOR>N</PREGNANT_INDICATOR>
  </MEMBER>
  <MEMBER>
    <CLOUD_NUMBER>2</CLOUD_NUMBER>
    <FIRST_NAME>Amenda</FIRST_NAME>
    <DOB>02/03/1994</DOB>
    <CITIZEN_STATUS>C</CITIZEN_STATUS>
    <APPLICATION_DATE>02/24/2014</APPLICATION_DATE>
    <MAGI_INCOME>0</MAGI_INCOME>
    <FAMILY_SIZE>2</FAMILY_SIZE>
    <HAS_OTHER_INSURANCE>N</HAS_OTHER_INSURANCE>
    <PARENT_INDICATOR>N</PARENT_INDICATOR>
    <CHILD_INDICATOR>Y</CHILD_INDICATOR>
    <PREGNANT_INDICATOR>Y</PREGNANT_INDICATOR>
  </MEMBER>
  <MEMBER>
    <CLOUD_NUMBER>3</CLOUD_NUMBER>
    <FIRST_NAME>Alex</FIRST_NAME>
    <DOB>02/03/1999</DOB>
    <CITIZEN_STATUS>C</CITIZEN_STATUS>
    <APPLICATION_DATE>02/24/2014</APPLICATION_DATE>
    <MAGI_INCOME>500</MAGI_INCOME>
    <FAMILY_SIZE>2</FAMILY_SIZE>
    <HAS_OTHER_INSURANCE>N</HAS_OTHER_INSURANCE>
    <PARENT_INDICATOR>N</PARENT_INDICATOR>
    <CHILD_INDICATOR>Y</CHILD_INDICATOR>
    <PREGNANT_INDICATOR>N</PREGNANT_INDICATOR>
  </MEMBER>
</PSC_INPUT>
```

3.6.2 XML sample Output (3 Household members)

- Sample output without ‘FFM’ PSC code

```xml
<?xml version="1.0" encoding="utf-16"?>
<PSC_RESPONSE>
  <MEMBER>
    <CLOUD_NUMBER>1</CLOUD_NUMBER>
    <FIRST_NAME>John</FIRST_NAME>
  </MEMBER>
  <MEMBER>
    <CLOUD_NUMBER>2</CLOUD_NUMBER>
    <FIRST_NAME>Amenda</FIRST_NAME>
  </MEMBER>
  <MEMBER>
    <CLOUD_NUMBER>3</CLOUD_NUMBER>
    <FIRST_NAME>Alex</FIRST_NAME>
  </MEMBER>
</PSC_RESPONSE>
```
<DOB>02/03/1965</DOB>
<FPL>38</FPL>
<PSC>380</PSC>
</MEMBER>

<MEMBER>
  <CLOUD_NUMBER>2</CLOUD_NUMBER>
  <FIRST_NAME>Amenda</FIRST_NAME>
  <DOB>02/03/1994</DOB>
  <FPL>0</FPL>
  <PSC>490</PSC>
</MEMBER>

<MEMBER>
  <CLOUD_NUMBER>3</CLOUD_NUMBER>
  <FIRST_NAME>Alex</FIRST_NAME>
  <DOB>02/03/1999</DOB>
  <FPL>38</FPL>
  <PSC>483</PSC>
</MEMBER>

</PSC_RESPONSE>

- Sample output with ‘FFM’ PSC code

```xml
<?xml version="1.0" encoding="utf-16"?>
<PSC_RESPONSE>
  <MEMBER>
    <CLOUD_NUMBER>1</CLOUD_NUMBER>
    <FIRST_NAME>John</FIRST_NAME>
    <DOB>02/03/1965</DOB>
    <FPL>150</FPL>
    <PSC>FFM-Over income; High FPL</PSC>
  </MEMBER>

  <MEMBER>
    <CLOUD_NUMBER>2</CLOUD_NUMBER>
    <FIRST_NAME>Amenda</FIRST_NAME>
    <DOB>02/03/1994</DOB>
    <FPL>0</FPL>
    <PSC>490</PSC>
  </MEMBER>

  <MEMBER>
    <CLOUD_NUMBER>3</CLOUD_NUMBER>
    <FIRST_NAME>Alex</FIRST_NAME>
    <DOB>02/03/1999</DOB>
    <FPL>150</FPL>
    <PSC>483</PSC>
  </MEMBER>

</PSC_RESPONSE>
```

### Possible FFM (PSC) codes:

- FFM - Over income; High FPL
- FFM - Over age
- FFM - Citizenship status
**4 Validations/Error Messages:**

The web service validates all the data receiving as input parameters. If validation fails or if any error occurs, output result will be an error message as XML string. Beas an example shown below:

- **Sample 1 (Validation)**
  ```xml
  <?xml version="1.0" encoding="utf-16"?>
  <ERROR_MESSAGE>
    <ERROR_REASON>John: Citizen status is required.</ERROR_REASON>
  </ERROR_MESSAGE>
  ```

- **Sample 2 (Exception)**
  ```xml
  <?xml version="1.0" encoding="utf-16"?>
  <ERROR_MESSAGE>
    <ERROR_REASON>The underlying connection was closed: Unable to connect to the remote server</ERROR_REASON>
  </ERROR_MESSAGE>
  ```

**5 Appendices**

**5.1 Appendix I - Relationship Code:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>CLOUD_CODE</th>
<th>OPPOSITE_CLOUD_CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB</td>
<td>Sibling/Step Sibling</td>
<td>07</td>
<td>07</td>
</tr>
<tr>
<td>DP</td>
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<tr>
<td>P</td>
<td>Parent/legal guardian/caretaker relative</td>
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5.2 Appendix II - Citizenship Code:

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<td>Undocumented Alien</td>
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<tr>
<td>TA</td>
<td>Temporary Alien</td>
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