



Division of Medical Assistance & Health Services

Salesforce MAGI and PSC Web Services (Cloud) Specification Document

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**Division of Medical Assistance
&
Health Services
(DMAHS)**

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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; magiapi@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.

	Name	Description	Type	Length	Required	Format
1	CLOUD_NUMBER	To be used as ID for the person	Integer	3	Yes	Between 1 to 100 only
2	FIRST_NAME	First Name of the Member	Character	50	yes	
3	DOB	Date of Birth of the Member	Character	10	yes	MM/DD/YYYY
4	SEX	Sex of the Member	Character	1	yes	F/M (F: Female, M:Male)
5	RELATIONS	With each member. Can have more than one relation block			Yes(if multiple members)	See Appendix I for codes. Also See Relation attributes in the table below this table
6	CITIZEN_STATUS	the Citizenship status	Character	1	yes	Can have only Y or N. If permanent resident(QA) then can be passed as Y
7	STUDENT	if the member is a student	Character	1	No	Y/N
8	IS_PREGNANT	if the member is pregnant	Character	1	No	Y/N
9	NO_BABY_EXPECTED	Number of babies expected if pregnant	Number	2	Yes (if pregnant)	##

10	MEMBER_INCOME	Monthly income of the member	Number	12	yes	#####.##
11	CLAIMED_AS_DEPENDENT	If the person is claimed as dependent?	Character		Optional but for better result it is recommended	Y/N
12	HAS_OTHER_INSURANCE	If the member has been covered by other insurance	Character	1	yes	M/Y/N (M: Medicare, Y: Yes, N: No)
13	TAX_RETURNS	For the family Can have multiple Tax Returns block			optional	See the table below for Tax attributes

➤ Relation attributes

	Name	Description	Type	Length	Required	Format
1	CLOUD_NUMBER	Cloud Number of other members, same as given to the members	Integer	3	yes	Between 1 to 100 only
2	RELATIONSHIP		Character	2	yes	From the code table (i.e. parent='04', child='03')

➤ Tax Return attributes

	Name	Description	Type	Length	Required	Format
1	FILERS	Can be more than one filer block				

1.1	FILER_FIRST_NAME	First Name of the Member	Character	50	yes	
2	DEPENDENTS					
2.1	DEPENDENT_FIRST_NAME		Character	50	yes	

2.5 Output Parameters:

Below are the returned results from the MAGI Calculator web service

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

2.6 Sample XML for Input/Output:

2.6.1 XML sample Input (3 Household members)

```
<?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>
  </MEMBER>
  <RELATIONS>
    < CLOUD_NUMBER >2</ CLOUD_NUMBER >
    <RELATIONSHIP>03</RELATIONSHIP>
  </RELATIONS>
</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>Y</STUDENT>
    <IS_PREGNANT>Y</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_AS_DEPENDENT'>Y</CLAIMED_AS_DEPENDENT'>
    <HAS_OTHER_INSURANCE>N</HAS_OTHER_INSURANCE>
</MEMBER>
<TAX_RETURNS>
    <FILERS>
        <CLOUD_NUMBER>1</ CLOUD_NUMBER >
    </FILERS>

```



```

    <DEPENDENTS>
      < CLOUD_NUMBER >3</ CLOUD_NUMBER >
    </DEPENDENTS>
  </TAX_RETURNS>
</CLOUD_INPUT>

```

2.6.2 XML sample Output (3 Household members)

```

<?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 parameters. 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

UserName; 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.

	Name	Description	Type	Length	Required	Format
1	CLOUD_NUMBER	To be used as ID for the person	Integer	3		Between 1 to 100 as given in the first call (MAGI)
2	FIRST_NAME	First Name of the Member	Character	50	Yes	
3	DOB	Date of Birth of the Member	Date	10	Yes	MM/DD/YYYY
4	CITIZEN_STATUS	The Citizenship status	Character	2	Yes	See Appendix II
5	APPLICATION_DATE	Date of the application submitted	Date	10	Yes	MM/DD/YYYY
6	MAGI_INCOME	Modified Adjusted Gross Income	Number	12	Yes	#####.##

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

	Name	Description	Type	Length	Required	Format
1	CLOUD_NUMBER	To be used as ID for the person	Integer	3	Yes	Between 1 to 100 only
2	FIRST_NAME	First Name of the Member	Character	50	Yes	
3	DOB	Date of Birth of the Member	Character	10	Yes	MM/DD/YYYY
4	FPL	Federal Poverty Level Percentage Value	Number	5	Yes	#####
5	PSC	Program Status Code	Character	50	Yes	

3.6 Sample XML for Input/Output:

3.6.1 XML sample Input (3 Household members)

```
<?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>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>
    <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 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>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 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

- FFM - Has Medicare
- FFM - Has TPL

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 version="1.0" encoding="utf-16"?>
<ERROR_MESSAGE>
  <ERROR_REASON>John: Citizen status is required.</ERROR_REASON>
</ERROR_MESSAGE>
```

➤ Sample 2 (Exception)

```
<?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:

Code	Description	CLOUD_CODE	OPPOSITE_CLOUD_CODE
SB	Sibling/Step Sibling	07	07
DP	Domestic Partner	08	08
SP	StepParent	12	05
UA	Uncle/Aunt	13	14
NN	Nephew/Nice	14	13

GP	Grandparent	15	06
CS	Cousin	16	16
PD	Parent's domestic partner	17	70
SI	Sibling-in-law	23	23
CI	Child-in-law	26	30
PI	Parent-in-law	30	26
DC	Domestic partner's child	70	17
S	Spouse	02	02
C	Child	04	03
SC	Stepchild	05	12
GC	Grandchild	06	15
P	Parent/legal guardian/caretaker relative	03	04
O	Other	88	88

5.2 Appendix II - Citizenship Code:

Code	Description
C	Citizen
QA	Qualified Alien
RA	Restricted Alien
UA	Undocumented Alien
TA	Temporary Alien