CCCApply Download Client

Contents

Download Client Overview

When a student submits a CCCApply (Standard or International) or BOG Fee Waiver application, their application responses are stored in the CCC Tech Center's submitted application database in two tables: submitted_application and submitted_question_response (for supplemental question responses). The submitted_application table contains the applicants' responses on their application and a number of fields from their user account at the time they submit.

The Download client is a platform-neutral, command-line tool you use to download all students' application data for all three applications to a local computer, allowing you to import it into your college's SIS. After you unzip the Download client, you will use a text or XML editor to set up a properties file and then edit two sample XML files (job and format definitions) that allow you to:

- configure which student application data to retrieve
- define the data format for the download file

The CCC Tech Center provides sample job and format definitions XML files for each application (Standard, BOG Fee Waiver, and International) as a part of the Download client package.

After configuring your properties and job and format definitions XML files you can run download jobs in your test environment and SIS to confirm the data is mapping and storing correctly in your SIS prior to downloading data from the production server. Download jobs can be set for both the application data and supplemental question responses.

Working with XML

Although working with computer languages can be daunting, you don't need to be an expert to work with the Download client XML files, and you don't need any sophisticated tools. A simple text editor and a rudimentary understanding of XML hierarchy will be helpful.

If you are comfortable writing computer software, you can of course use the tools that best suit you. Otherwise, create your XML files using your operating system's built-in text editor. On Windows, the text editor is called Notepad, and on OS X, it is called TextEdit.

📝 **Note:** These applications can work with file formats other than plain text. Be sure to save your files in plain text format.

⚠️ **Important:** Do not use XML Notepad to edit your XML files. It adds a BOM (Byte Order Mark) to the file and will cause the download job to abnormally terminate and an error message may display indicating that the XML file contains a BOM.

If you run your download and get the BOM error, you can take one of the following actions to remove it:

- Copy and paste your XML content into a plain text editor or some other suitable tool to remove the extra characters (the BOM), such at Notepad. You can save the file as ANSI to remove the BOM.
- Switch to an XML editor that allows you to save the content and remove the BOM, such as one of the following:
  - XML Copy Editor

    To remove the BOM, click on options from the *Tools* menu and *de-select* "Save UTF byte order mark". Save your file.
  - Notepad ++

    To remove the BOM, select "Encode in UTF-8 without BOM" from the *Encoding* menu. Save your file.

Unzipping, Installing, and Configuring the Download Client

The following steps outline a "quick-start" process for a first-time unzip and configuration of the Download client.

- Detailed information about the underlying database information, as well as detailed XML and schema information, follows this quick-start section. Links to more detailed information are provided and noted where necessary.
- If you have already installed and used the Download client, then you may want to skip some of these steps and/or go directly to the detailed information provided in the job and format file configuration and data field sections.

When your college first transitions to the CCCApply applications, you will be working with a CCC Tech Center Project Manager. The Project Manager will provide you a check list for your implementation. One of the implementation steps includes contacting CCC Tech Center Technical Support to get your Download client.

> **Note:** The download client requires that you have the Java Runtime Environment (JRE) or Java Development Kit (JDK) version 1.6 or higher. The steps that follow assume the 'java' and 'jar' commands are available from your PATH environment. The installers for both the JRE and JDK should install the Java runtime so that the various command-line tools, including 'java' and 'jar' are available in the system PATH.

1. Contact CCC Tech Center Technical Support to get your Download client. The Technical Support representative will deliver the Download client zip file to you via Dropbox or some other means that they will indicate to you.
2. Once you receive the Download client zip file, download the file to your local computer and extract it into a local file directory of your choice.

   Once you extract your Download client, it should look something like this, with the expanded files within the transfer-client root folder:

⌄─ 📁 transfer-client	8 items
⌄─ 📁 conf	5 items
── 📄 application-context.xml	1.6 KiB
── 📄 ccctransfer.properties	112 B
── 📄 client.jks	2.9 KiB
── 📄 gcccd.edu.jks	2.9 KiB
── 📄 logback.xml	1.1 KiB
⌄─ 📁 formats	4 items
── 📄 datatel.xml	51.7 KiB
── 📄 expressConfig.xml	21.9 KiB
── 📄 sample-bog-format.xml	3.3 KiB
── 📄 sample-format.xml	22.8 KiB
⌄─ 📁 jobs	2 items
── 📄 SampleBogJob1.xml	415 B
── 📄 SampleJob1.xml	533 B
── 📄 download.bat	453 B
── 📄 download.sh	326 B
── 📄 test.bat	288 B
── 📄 test.sh	384 B
── 📄 transfer-client.jar	3.9 MiB

It is assumed that the FTT_HOME environment variable indicates the fully-qualified path to this directory, e.g.

FTT_HOME=c:\downloads\transfer-client

Note: Refer to the following information for supported parameter key configuration in the ccctransfer.properties file prior to changing your keystore password in the next steps:

Key	Description	Required?	Default Value
javax.net.ssl.keyStore	Specifies the Java Keystore that contains the certificate to validate your college to the CCC Transfer Server	Yes	FTT_HOME/conf/client.jks
javax.net.ssl.keyStorePassword	Specifies the password for the keystore that javax.net.ssl.keyStore indicates.	Yes	password

3. Change your college keystore password using the steps in this section. When you first receive the Download Client from the CCCTech Center, a certificate is created for your college that controls which MIS code(s) you can access for downloads. The default password for this initial certificate is "password." The CCCTech Center recommends that you change this password using the following steps.

   Note: Though security is driven by the key and not from the password to load the keys, we still recommend you change your password to be unique. Perform these steps from the machine where the keystore is installed.

   Note: You only need to change your keystore <u>one time</u> for it take effect for all applications (both CCCApply applications (Standard and International) and the BOG Fee Waiver application).
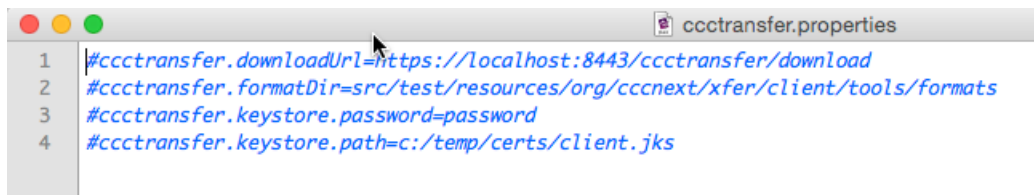
   a. Navigate to the transfer-client\conf\ directory and create a backup of your current client.jks file.
   b. At a command prompt, navigate to the transfer-client\conf directory and locate your college key alias by entering the following command at a command prompt (press the Enter key after you type the command):

      keytool -list -keystore client.jks

      The output from running this command will be a list of keys contained in the keystore.
   c. Locate your college key alias by looking at the key name at the beginning of the entry of type "PrivateKeyEntry". The college key alias will usually be in the format of "xxx.edu" where xxx is your college's initials.
   d. Update your college keystore password by entering the following command at the command prompt from the transfer-client\conf directory (press the Enter key after you type the command):

      keytool -storepasswd -keystore client.jks
   e. When prompted to enter your current keystore password, enter your current password (the password = password for all first-time Download Clients). You'll be prompted to enter your new keystore password, and then prompted to re-enter the new keystone password (press the Enter key after each entry).
   f. Update your college key password to match the keystore password you just set in step 3e above by entering the following command at the command prompt from the transfer-client\conf directory (press the Enter key after you type the command):

      keytool -keypasswd -alias <key_alias> -keystore client.jks
   g. When prompted to enter your current keystore password, enter they keystore password you set in step 3e, above.
   h. Enter the same password as in step 3e when prompted to enter and re-enter your new key password.
   i. Open the conf/ccctransfer.properties file and edit the ccctransfer.keystore.password value to have your new password instead of the old one (password). That is, edit the word password after the = sign in this entry: ccctransfer.keystore.password=password

```
●  ●  ●                                   📄 ccctransfer.properties
1  #ccctransfer.downloadUrl=https://localhost:8443/ccctransfer/download
2  #ccctransfer.formatDir=src/test/resources/org/cccnext/xfer/client/tools/formats
3  #ccctransfer.keystore.password=password
4  #ccctransfer.keystore.path=c:/temp/certs/client.jks
```

j. Save and close the conf/ccctransfer.properties file. You have now updated your college keystore password for all applications (CCCApply Standard and International, and BOG Fee Waiver).

k. Test the new keystore by entering the following command at the command prompt for each application.

To test the new keystore for your Pilot server, enter the following command at the command prompt:

- For the CCCApply application:

  - java -jar transfer-client.jar -test https://pilot.admin.openccc.net:8443/ccctransfer/debug
- For the BOG Fee Waiver application:

  - java -jar transfer-client.jar -test https://pilot.admin.openccc.net:8443/ccctransferbog/debug
- For the International application (coming soon):

  - java -jar transfer-client.jar -test https://pilot.admin.openccc.net:8443/ccctransferintl/debug

Confirm that no errors are printed.

To test the new keystone for your Production server, enter the following command at the command prompt:

- For the CCCApply application:

  - java -jar transfer-client.jar -test https://admin.openccc.net/ccctransfer/debug
- For the BOG Fee Waiver application:

  - java -jar transfer-client.jar -test https://admin.openccc.net:8443/ccctransferbog/debug
- For the International application (coming soon):

  - java -jar transfer-client.jar -test https://admin.openccc.net:8443/ccctransferintl/debug

Confirm that no errors are printed.

4. You will have sample job and format definition XML files included in your package. These files will usually include the application name in the file name (i.e. SampleBogJob1.xml in the image above is a sample job file for the BOG application).

> 📝 **Note:** It is also wise to check the CCC Tech Center Public Documentation pages for the latest updates to Download client files including the job and format definition XML files *here*.

5. Using a text or XML editor, open the sample job XML file for the application for which you plan to download student application data.

> 📝 **Note:** If this is your initial download, then you will likely be preparing to download the CCCApply Standard application since it is required you go live on that application prior to the BOG or International applications.

```
SampleJob1.xml
1  <!--
2     replace url with server download url
3     replace my_mis_codes with a comma delimited list of your authorized mis codes
4  -->
5  <job url="https:/pilot.admin.openccc.net:8443/ccctransfer" misCode="___" xmlns="http://xmlns.cccnext.org/xfer
6
7        <!-- change the directory attribute with the directory name you want your download files to be saved -->
8        <file directory="downloads"
9        formatId=" ccclnst" prefix="mycollege" suffix=".txt" />
10
11       <file directory="downloads"
12       formatId="ccInst" prefix="mycollege-inst" suffix=".txt" />
13
14 </job>
```

6. Ensure that the job element's misCode attribute includes your college's three-digit MIS code. The job element's url attribute points to the Pilot database environment in the above image.

7. Update the file element's directory attribute by replacing the "downloads" in the above example to be the name of the directory on your local computer where you want the download file to be saved.

8. Update the *formatId* attribute by replacing the ccInst in the above example to be the same name of the *formatId* in the format definitions file.

> 📝 **Note:** See the screen shot above and below for an illustration of this step. When you run the Download Client job, all format XML files in the formats directory are "opened" and scanned for the id that matches the formatId in the job XML file. When the matching id is found, that determines which format is applied to the downloaded data.

9. Update the prefix and suffix attributes by replacing the "mycollege-inst" and ".txt" values with the file name prefix for your choice and the file-type extension of your choice (i.e. .csv, .txt, etc.).

10. Save the job file by using Save As, and rename the file to the name of your choice. It's best practice to include the application name in the file name. (e.g. StandardJob.xml for the CCCApply Standard application.)

11. Using a text or XML editor, open the format definitions XML file for the application for which you plan to download student application data.

> 📝 **Note:** In the example below, the formatDefinition id attribute is highlighted. This value must match exactly the formatId attribute in the associated job XML file (see the image, above). Your format file can include more than one formatDefinition defined within it as long as each has a unique id attribute value. Changing that corresponding id in the Download Client job file is what determines which format is used for any particular download job.

```
●  ●  ●                        sample-format.xml
1    <?xml version="1.0" ?>
2    <formatDefinitions xmlns="http://xmlns.cccnext.org/xfer">
3        <formatDefinition outputFormat="fixed" id="ccInst">
4            <fieldList>
5                <field name="hs_name" len="57" />
6                <whitespace len="4" comment="SCHOOL TYPE" />
7                <whitespace len="10" comment="HS START DATE" />
8                <whitespace len="10" comment="HS END DATE" />
9                <whitespace len="10" comment="PERSON ID" />
10               <field name="lastname" len="30" />
11               <field name="confirmation" len="40" />
12               <field name="ssn" len="9" comment="#########" >
13                   <ssnFormatter />
14               </field>
15               <!-- To keep ssn dashes: <ssnFormatter removeDashes="true" /> -->
16               <field name="hs_cds" len="15" />
17               <field name="hs_edu_level" len="1" />
18               <field name="hs_comp_date" len="10">
19                   <dateFormatter pattern="MM/dd/yyyy" />
20               </field>
21
22               <whitespace len="2" comment="RECORD BREAK" />
23
24               <field name="col1_name" len="57" />
25               <whitespace len="4" comment="SCHOOL TYPE" />
26               <field name="col1_start_date" len="10">
27                   <dateFormatter pattern="MM/dd/yyyy" />
28               </field>
29               <field name="col1_end_date" len="10">
30                   <dateFormatter pattern="MM/dd/yyyy" />
31               </field>
32               <whitespace len="10" comment="PERSON ID" />
33               <field name="lastname" len="30" />
34               <field name="confirmation" len="40" />
35               <field name="ssn" len="9" comment="#########" >
36                   <ssnFormatter />

Line: 3   Column: 56      ⏱ XML          ⬍ ⊙ ▼  Tab Size:  4  ⬍  —                              ⬍
```

12. Edit the XML elements and attributes in the format definitions XML file to include the specific database fields that you want to download into your college's SIS. Use the following items to assist you in editing and validating this XML file:

- the XML schema file for the format definitions file
- the Data Fields for each of the student applications (CCCApply Standard and International, and BOG Fee Waiver)
- the Data Dictionaries for each of the student applications

13. When you are done creating and validating the format definitions XML file, save the file by using Save As, and rename the file to the name of your choice. It's best practice to include the application name in the file name. (e.g. StandardFormat.xml for the CCCApply Standard application.)

   📝   **Note:** Your format file must always be stored in the formats directory of the Download Client files in order for it to be processed.

14. Open a command prompt (Start Menu -> type command for Windows) or open your Terminal window (Mac/ *nix).

15. At the command, navigate to the directory where your job and format definitions XML files are located and then type the following command:

- For Windows:

  download.bat jobs\StandardJob.xml

- For Mac/*nix:

./download.sh jobs/StandardJob.xml

16. Press your enter key and the download file will run.

17. You can navigate to the downloaded file and open it in a text editor to see the downloaded data (remember that you set the directory for the download file to be saved to in the job XML file's file element directory attribute, in step 9, above). The data for all student applications that have not previously been downloaded appears in a single row, per student as in the image below.

18. Follow the data import steps for your college's SIS to import the download file data. It is highly recommended you perform this for a test SIS database to ensure the downloaded data imports into your SIS correctly.

> 🛈 **Tip:** You can set up a chron job to automate your application data downloads to occur on a regular basis.

Job File Configuration Details

The job file contains information about what student applications to download and what directories to use for the output file. A job file is created for each download job. When a job is set up in the college's scheduler, the job file name is passed as a parameter to the job.

The Job File

The job file controls the high-level aspects of the download, such as the server from which to retrieve the data. It also allows you to specify multiple downloads that may retrieve different datasets or present the data in different formats.

The Format Definitions File

The format definitions file allows you to select the specific fields you want to retrieve from the student applications and control the format of the data that the Download client delivers to you.

Sample Job file

Sample 1 – Standard download job for all three Contra Costa Colleges

```
<job url="https://admin.openccc.net:8443/ccctransfer" misCode="311,312,313"
 xmlns="http://xmlns.cccnext.org/xfer">
    <file directory="c:/temp" formatId="ccMainV1" prefix="contracosta"
 suffix=".txt" />
    <file directory="c:/temp" formatId="ccInstV1" prefix="contracosta"
 suffix=".txt" />
</job>
```

Filter Elements

Any given job has the basic constraint that only applications for the specified MIS codes can be retrieved. An optional filter is allowed to further restrict which student application data gets downloaded for a given job. With no filter specified, only data for "new" student applications for that MIS code are retrieved. An application is considered new if it has not previously been downloaded by the Download client.

<job> element

The job is the root element for all download definitions.

Attributes

Attribute Name	Description	Function
url	Specify the server URL for the system from which you want to download (see list below).	This allows you to create different jobs to download from different environments. Choose the URL for the environment you want to download, from the table below.
misCode	Specify the MIS code(s) for the college.	The college can only download applications for which they are authorized.

Environments for the URL Attribute

App Type/Environment	URL
Standard Application Pilot	https://pilot.admin.openccc.net:8443/ccctransfer
Standard Production	https://admin.openccc.net:8443/ccctransfer
BOG Pilot	https://pilot.admin.openccc.net:8443/ccctransferbog
BOG Production	https://admin.openccc.net:8443/ccctransferbog
International Pilog	https://pilot.admin.openccc.net:8443/ccctransferintl
International Production	https://admin.openccc.net:8443/ccctransferintl

<file> element

The file element specifies the directory to create the download file, how the file name is formatted and which format definition to use.

> 📝 **Note:**
>
> For Datatel colleges who have two definitions (one for main and one for Institutions attended), specifying the same prefix and suffix will put the output into a single file. If you want the output in two files, use a different prefix name parameter. The example above outputs to one file.

<file directory="/somedir/downloads" prefix="main" suffix=".txt" formatId="fixedMain1" />

Attribute Name	Description	Conditions
directory	The directory the download file will be created in.	The directory must exist.
prefix	The prefix of the download file.	
suffix	The suffix of the download file.	i.e. .txt or .csv
formatId	The format id to use.	The format id must exist in a format-definitions.xml file, specified by the *id* attribute. **Note:** A format definition file can contain more than one id attribute as in the sample below. However, format id's are intended to be unique. If you have the same id in more than one format definition file, the job will use the first one found in the formats folder. Also, more than one job file can point to the same format file (e.g. – you can set up job files for beta and production that point to the same format file.)

os	Defines the type of carriage return or line feed character.	os="windows" (Uses CR/LF) os="unix" (Uses LF) If os is omitted, it uses "windows" as the default.

Full File Name

Besides the prefix and suffix, the date and time are also included in the file name. Based on this example: <file directory="/somedir/downloads" prefix="main" suffix=".txt" formatId="fixedMain1" /If the transfer job ran on feb 6 2014, the file name would be /somedir/downloads/main-140206-081228.txt where "140206" represents the date and "081228" represents the run time of the job.

Format Definitions File Configuration Details

The format definitions file is an XML file used to define student application data download format:

- Which fields to include
- How each field is formatted
- Type of file (fixed or delimited)
- id (must match the associated job file's formatID).

The example sample format definitions file below can be used in conjunction with clicking the links in the navigation panel to the left to find the data fields for:

- Standard application data fields
- BOG Fee Waiver data fields
- International application data fields
- Supplemental Questions answers

> 📝 **Note:**
>
> You must always include the ccc_id field in your format definitions XML file for download jobs and include it as the data your store in your SIS. The California Community College Chancellor's office requires that each unique student ID be included in your MIS reporting data.

Sample format definition file

```xml
<?xml version="1.0" encoding="UTF-8"?>
<formatDefinitions xmlns="http://xmlns.cccnext.org/xfer">
    <formatDefinition outputFormat="fixed" id="ccInstV1"
 stripDiacritics="true">
        <fieldList>
            <field name="ccc_id" len="8"/>
            <field name="hs_name" len="57"/>
            <whitespace len="4" comment="SCHOOL TYPE"/>
            <whitespace len="10" comment="HS START DATE"/>
            <whitespace len="10" comment="HS END DATE"/>
            <whitespace len="10" comment="PERSON ID"/>
            <field name="lastname" len="30"/>
            <field name="confirmation" len="40"/>
            <field name="ssn" len="9" comment="#########"/>
            <field name="hs_cds" len="15"/>
            <field name="hs_edu_level" len="1"/>
            <field name="hs_comp_date" len="10">
                <dateFormatter pattern="MM/dd/yyyy"/>
            </field>
            <whitespace len="2" comment="RECORD BREAK"/>
            <field name="col1_name" len="57"/>
            <whitespace len="4" comment="SCHOOL TYPE"/>
            <field name="col1_start_date" len="10">
                <dateFormatter pattern="MM/dd/yyyy"/>
            </field>
            <field name="col1_end_date" len="10">
                <dateFormatter pattern="MM/dd/yyyy"/>
            </field>
            <whitespace len="10" comment="PERSON ID"/>
            <field name="lastname" len="30"/>
            <field name="confirmation" len="40"/>
            <field name="ssn" len="9" comment="#########"/>
            <field name="col1_cds" len="15"/>
            <field name="col1_degree_obtained" len="1"/>
            <field name="col1_degree_date" len="10">
                <dateFormatter pattern="MM/dd/yyyy"/>
```

```
            </field>
            <whitespace len="2" comment="RECORD BREAK"/>
            <field name="col2_name" len="57"/>
            <whitespace len="4" comment="SCHOOL TYPE"/>
            <field name="col2_start_date" len="10">
                <dateFormatter pattern="MM/dd/yyyy"/>
            </field>
            <field name="col2_end_date" len="10">
                <dateFormatter pattern="MM/dd/yyyy"/>
            </field>
            <whitespace len="10" comment="PERSON ID"/>
            <field name="lastname" len="30"/>
            <field name="confirmation" len="40"/>
            <field name="ssn" len="11">
                <ssnFormatter removeDashes="false"/>
            </field>
            <field name="col2_cds" len="15"/>
            <field name="col2_degree_obtained" len="1"/>
            <field name="col2_degree_date" len="10">
                <dateFormatter pattern="MM/dd/yyyy"/>
            </field>
            <whitespace len="2" comment="RECORD BREAK"/>
        </fieldList>
    </formatDefinition>
</formatDefinitions>
```

formatDefinition Element

Fields in the download file appear in the order they are defined in the format definitions XML file.

Attributes

Attribute Name	Value
outputFormat	Set the value to fixed or delimited.
Delimiter	For delimited files, specify the delimiter. The default is comma (",") if unspecified. Examples of delimited file: outputFormat="delimited" delimiter="|" (pipe is the delimiter). 📝 **Note:** You can use multiple characters as a delimiter, if desired. outputFormat="delimited" delimiter="	" (tab is the delimiter; the 	 delimiter value results in tab delimited output)
applicationType	Specifies which type of applications you are downloading (Standard, BOG Fee Waiver, or International). If not specified, it will default to Standard applications. For BOG, applicationType="bogfw". For International, applicationType="intl".
stripDiacritics	The stripDiacritics attribute will convert certain diacritic (non-English or foreign) characters to standard ascii characters. If omitted, the data will be sent as originally entered in the application. To convert diacritic characters, add stripDiacritics="true". Important note: If you use this attribute, be sure to test thoroughly before

Attribute Name	Value
	using it in production so you know you are getting the results you expect.

Child Elements

<fieldList>

The fieldList contains a list of field definitions.

<field>

The field element defines how an individual field is formatted. The element value is the name of the field in the submitted_application table (see the Download Data section, below).

```
<field len="10" name="app_id" /> Attributes
```

Attribute Name	Description	Restrictions
len	The fixed width of the field.	Only applicable in the fixed format.
name	The name of the field (from the application's Data Dictionary) to output	

<whitespace>

The whitespace element is only used in fixed format definitions when you want to insert fixed width spaces in between two fields.

```
<whitespace len="3" />
```

Attribute Name	Description
len	The fixed width of the whitespace.

<constant>

The constant element is used to insert a constant string value into the file. If you specify the len attribute, it will right pad the text with spaces if the len is greater than the length of the text. If you do not specify len, if will not add any padding.

```
<constant len="30">College one starts here</constant>
```

Attribute Name	Description
len	If specified, it will right pad the text with spaces if the len is greater than the length of the text. If omitted, if will not add any padding.

<newline>

The newline causes a carriage return (line feed). The newline element is aware of the operating system. For Windows it will add CR & LF. For Unix it will just add LF.

<byAppId>

The byAppId element allows you to specify a single application for download when you provide a specific app_id value.

```
<byAppId app_id = '16197'/>
```

<dateFormatter>

A date formatter allows customization of how date/time values can be formatted using a pattern string. Example pattern strings are: MM/dd/yyyy, yyyy-MM-dd, etc.

Attribute Name	Description
pattern	A pattern string that is compatible with the Java programming language SimpleDateFormat.

<booleanFormatter>

The booleanFormatter allows you to configure what text displays/downloads for boolean-date type fields with true, false, and null values.

```
<booleanFormatter trueValue="1" falseValue="0" nullValue="?"/>
```

Attribute Name	Description
trueValue	Specifies the text to output in the field if the underlying value is true
falseValue	Specifies the text to output in the field if the underlying value is false
nullValue	The optional nullValue allows you to specify the output if the underlying value is null (i.e. replace the in nullValue="?" to be the value you want to display for underlying values that are null) 📝 **Note:** If the nullValue attribute is not defined, then any fields with null values will default to display the falseValue attribute in your download data. If neither the nullValue nor the falseValue attributes are defined, then a null value downloads as a string of "false."

<ssnFormatter>

The ssnFormatter applies formatting to social security numbers to include or remove dashes.

```
<field name="ssn" len="9">
    <ssnFormatter />
</field>

<field name="ssn" len="11">
    <ssnFormatter removeDashes="false" />
</field>
```

Attribute Name	Description
name	Name of the input field.
len	Specifies the length of the output field

Attribute Name	Description
removeDashes	If removeDashes="false", len should be 11. This will format an SSN field with dashes.

<simpleMapper>

The simpleMapper formatter provides a way to make simple translations of data.

> 📝 **Note:** The simpleMapper only works for string data types (i.e. it does NOT work with smallint, boolean, etc.).

```
<field len="2" name="res_status">
<simpleMapper>
    <unmatched>D4</unmatched>
    <map>
        <from>1</from>
        <to>A1</to>
    </map>
    <map>
        <from>2</from>
        <to>B2</to>
    </map>
    <map>
        <from>3</from>
        <to>C3</to>
    </map>
</simpleMapper>
</field>
```

The following example translates the res_status field as follows:

Database Field Value	Download File Value
1	A1
2	B2
3	C3
Other value	D4

Here are the attribute definitions:

Attribute Name	Description
len	Specifies the length of the output (<to>) field (fixed format only).
name	Name of the input field.
unmatched	Value to use if actual data does not match any of the from values If unmatched element is not specified, the actual data value will be used

<stringFormatter>

The stringFormatter allows you to configure text field values to display/download as all upper-case or lower-case letters and what text displays/downloads for text fields with null values.

```
<stringFormatter caseConversion="lowercase" nullValue="[null]"/>
```

Attribute Name	Description
caseConversion	The optional caseConversion attribute specifies the text string to output as all lower-case or all upper-case letters: caseConversion="lowercase" caseConversion="uppercase"
nullValue	The optional nullValue attribute allows you to specify the output if the text string value is null: nullValue="null" (to download the value null if the underlying field value is null) nullValue="X" (to download the value X if the underlying field value is null) 📝 **Note:** If the nullValue attribute is not defined, then any text-type fields with null values will default to display/download an empty string: " ".

\<phoneFormatter\>

The phoneFormatter is used to format phone numbers.

```
<field len="15" name="mainphone">
<phoneFormatter pattern="(999) 999-9999"/>
</field>
```

Attribute Name	Description
len	Specifies the length of the output field
pattern	See following table for sample patterns
name	Name of the input field

Here are some sample patterns:

Database Field Value	Pattern	Download Field Result
530-332-2233	9999999999	5303322233
530-332-2233	9999999	3322233
530-332-2233	(999) 999-9999	(530) 332-2233
5303322233	(999) 999-9999	(530) 332-2233

\<numberFormatter\>

The numberFormatter can be used for applying a variety of formats to numbers.

Example for applying a format for currency:

```
<field name="dep_other_income" len="20">
<numberFormatter format="%,d.00"/>
</field>
```

Attribute Name	Description
name	Name of the input field
len	Specifies the length of the output field
format	See the following table for sample formats

Database Field Value	Format	Download Field Result
25000	"$%,d.00"	$25,000.00
25000	"%,d.00"	25,000.00

> **Note:** To view more format value examples, see: *http://docs.oracle.com/javase/7/docs/api/java/util/Formatter.html#syntax*

Data Fields: Standard Application

Database Column (Field) Name & Type	Data Type	Length	Dictionary Table	Screen Name	Report Center Category	Comments
ccc_id	character varying	8	System Variables	N/A	General Application	
status	character	1	System Variables	N/A	General Application	
college_id	character	3	College	N/A	General Application	
edu_goal	character	1	Application	Enrollment	Enrollment	
highest_edu_level	character	5	Education	N/A - Derived	Education	
consent_indicator	boolean	1	Application	Consent	General Application	
app_lang	character	2	Application	N/A	General Application	
esignature	boolean	1	Application	Submission	General Application	
ack_fin_aid	boolean	1	Application	Submission	General Application	
fin_aid_ref	boolean	1	Residency	Needs & Interests	Needs & Interests	
confirmation	character varying	30	Application	N/A - Generated	General Application	
streetaddress1	character varying	50	Contact	Account/ Mailing	Account/ Mailing	
streetaddress2	character varying	50	Contact	Account/ Mailing	Account/ Mailing	
city	character varying	50	Contact	Account/ Mailing	Account/ Mailing	
postalcode	character varying	20	Contact	Account/ Mailing	Account/ Mailing	
state	character	2	Contact	Account/ Mailing	Account/ Mailing	
nonusaprovince	character varying	30	Contact	Account/ Mailing	Account/ Mailing	
country	character	2	Contact	Account/ Mailing	Account/ Mailing	
email	character varying	50	Contact	From User Account	Account/ Mailing	

perm_streetaddress1	character varying	50	Contact	From User Account	Account/ Mailing	
perm_streetaddress2	character varying	50	Contact	From User Account	Account/ Mailing	
perm_city	character varying	50	Contact	From User Account	Account/ Mailing	
perm_postalcode	character varying	20	Contact	From User Account	Account/ Mailing	
perm_state	character	2	Contact	From User Account	Account/ Mailing	
perm_nonusaprovince	character varying	30	Contact	From User Account	Account/ Mailing	
perm_country	character	2	Contact	From User Account	Account/ Mailing	
address_same	boolean	1	Contact	From User Account	Account/ Mailing	
mainphone	character varying	14	Contact	From User Account	Account/ Mailing	
mainphone_ext	character varying	4	Contact	From User Account	Account/ Mailing	
mainphone_auth_text	boolean	1	Contact	From User Account	Account/ Mailing	
secondphone	character varying	14	Contact	From User Account	Account/ Mailing	
secondphone_ext	character varying	4	Contact	From User Account	Account/ Mailing	
secondphone_auth_text	boolean	1	Contact	From User Account	Account/ Mailing	
enroll_status	character	1	Education	Education	Education	
hs_edu_level	character	1	Education	Education	Education	
hs_comp_date	date		Education	Education	Education	
higher_edu_level	character	1	Education	Education	Education	
higher_comp_date	date		Education	Education	Education	
cahs_graduated	boolean	1	Education	Education	Education	
cahs_3year	boolean	1	Education	Education	Education	
hs_name	character varying	30	Education	Education	Education	
hs_city	character varying	20	Education	From School Finder table or entered	Education	
hs_state	character	2	Education	From School Finder table or entered	Education	

hs_country	character	2	Education	Education	Education	
hs_cds	character	6	Education	From School Finder table	Education	
hs_ceeb	character	7	Education	From School Finder table	Education	
hs_not_listed	boolean	1	Education	Education	Education	
college_count	smallint		Education	Education	Education	
hs_attendance	smallint		Education	Education	Education	
coenroll_confirm	boolean	1	Education	Education	Education	
gender	character	1	Personal Info	Personal Information	Personal Information	
dependent_status	character	1	Personal Info	Personal Information	Personal Information	
pg_firstname	character varying	20	Personal Info	Personal Information	Personal Information	
pg_lastname	character varying	25	Personal Info	Personal Information	Personal Information	
pg_rel	character	1	Personal Info	Personal Information	Personal Information	
pg1_edu	character	1	Personal Info	Personal Information	Personal Information	
pg2_edu	character	1	Personal Info	Personal Information	Personal Information	
pg_edu_mis	character	2	Personal Info	Personal Information	Personal Information	
race_ethnic	text		Personal Info	Personal Information	Personal Information	
hispanic	boolean	1	Personal Info	Personal Information	Personal Information	
race_group	text		Personal Info	Personal Information	Personal Information	
ssn (for downloads see ssnFormatter)	text	encrypted	Personal Info	From User Account	Personal Information	
birthdate	date		Personal Info	From User Account	Personal Information	
firstname	character varying	50	Personal Info	From User Account	Personal Information	
middlename	character varying	50	Personal Info	From User Account	Personal Information	
lastname	character varying	50	Personal Info	From User Account	Personal Information	

suffix	character varying	3	Personal Info	From User Account	Personal Information	
otherfirstname	character varying	50	Personal Info	From User Account	Personal Information	
othermiddlename	character varying	50	Personal Info	From User Account	Personal Information	
otherlastname	character varying	50	Personal Info	From User Account	Personal Information	
citizenship_status	character	1	Residency	Citizenship/ Military	Citizenship/ Military	
alien_reg_number	character varying	20	Residency	Citizenship/ Military	Citizenship/ Military	
visa_type	character varying	20	Residency	Citizenship/ Military	Citizenship/ Military	
no_documents	boolean	1	Residency	Citizenship/ Military	Citizenship/ Military	
alien_reg_issue_date	date		Residency	Citizenship/ Military	Citizenship/ Military	
alien_reg_expire_date	date		Residency	Citizenship/ Military	Citizenship/ Military	
alien_reg_no_expire	boolean	1	Residency	Citizenship/ Military	Citizenship/ Military	
military_status	character	1	Residency	Citizenship/ Military	Citizenship/ Military	
military_discharge_date	date		Residency	Citizenship/ Military	Citizenship/ Military	
military_home_state	character	2	Residency	Citizenship/ Military	Citizenship/ Military	
military_home_country	character	2	Residency	Citizenship/ Military	Citizenship/ Military	
military_ca_stationed	boolean	1	Residency	Citizenship/ Military	Citizenship/ Military	
military_legal_residence	character	2	Residency	Citizenship/ Military	Citizenship/ Military	
ca_res_2_years	boolean	1	Residency	Residency	Residency	
ca_date_current	date		Residency	Residency	Residency	
ca_not_arrived	boolean	1	Residency	Residency	Residency	
ca_college_employee	boolean	1	Residency	Residency	Residency	
ca_school_employee	boolean	1	Residency	Residency	Residency	
ca_seasonal_ag	boolean	1	Residency	Residency	Residency	
ca_foster_youth	boolean	1	Residency	Residency	Residency	

ca_outside_tax	boolean	1	Residency	Residency	Residency	
ca_outside_tax_year	date		Residency	Residency	Residency	
ca_outside_voted	boolean	1	Residency	Residency	Residency	
ca_outside_voted_year	date		Residency	Residency	Residency	
ca_outside_college	boolean	1	Residency	Residency	Residency	
ca_outside_college_year	date		Residency	Residency	Residency	
ca_outside_lawsuit	boolean	1	Residency	Residency	Residency	
ca_outside_lawsuit_year	date		Residency	Residency	Residency	
res_status	character	1	Residency	Calculated	Residency	
res_status_change	boolean	1	Residency	Calculated	Residency	
res_prev_date	date		Residency	Calculated	Residency	
adm_ineligible	smallint		Residency	Calculated	Residency	
elig_ab540	boolean	1	Residency	Calculated	Residency	
res_area_a	smallint		Residency	Calculated	Residency	
res_area_b	smallint		Residency	Calculated	Residency	
res_area_c	smallint		Residency	Calculated	Residency	
res_area_d	smallint		Residency	Calculated	Residency	
experience	integer		Survey	Survey	Survey	
recommend	integer		Survey	Survey	Survey	
comments	text		Survey	Survey	Survey	
comfortable_english	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
financial_assistance	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
tanf_ssi_ga	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
foster_youths	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
athletic_intercollegiate	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
athletic_intramural	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
athletic_not_interested	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
academic_counseling	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
basic_skills	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	

calworks	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
career_planning	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
child_care	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
counseling_personal	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
dsps	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
eops	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
esl	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
health_services	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
housing_info	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
employment_assistance	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
online_classes	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
reentry_program	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
scholarship_info	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
student_government	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
testing_assessment	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
transfer_info	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
tutoring_services	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
veterans_services	boolean	1	Needs and Interests	Needs & Interests	Needs & Interests	
integrity_fg_01	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_02	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_03	boolean	1	Residency Service	Calculated	Residency	

integrity_fg_04	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_11	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_47	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_48	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_49	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_50	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_51	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_52	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_53	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_54	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_55	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_56	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_57	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_58	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_59	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_60	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_61	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_62	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_63	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_70	boolean	1	Residency Service	Calculated	Residency	
integrity_fg_80	boolean	1	Residency Service	Calculated	Residency	

col1_ceeb	character	7	Colleges Attended	Education	Colleges Attended	
col1_cds	character	6	Colleges Attended	Education	Colleges Attended	
col1_not_listed	boolean	1	Colleges Attended	Education	Colleges Attended	
col1_name	character varying	30	Colleges Attended	Education	Colleges Attended	
col1_city	character varying	20	Colleges Attended	Education	Colleges Attended	
col1_state	character varying	30	Colleges Attended	Education	Colleges Attended	
col1_country	character	2	Colleges Attended	Education	Colleges Attended	
col1_start_date	date		Colleges Attended	Education	Colleges Attended	
col1_end_date	date		Colleges Attended	Education	Colleges Attended	
col1_degree_date	date		Colleges Attended	Education	Colleges Attended	
col1_degree_obtained	character	1	Colleges Attended	Education	Colleges Attended	
col2_ceeb	character	7	Colleges Attended	Education	Colleges Attended	
col2_cds	character	6	Colleges Attended	Education	Colleges Attended	
col2_not_listed	boolean	1	Colleges Attended	Education	Colleges Attended	
col2_name	character varying	30	Colleges Attended	Education	Colleges Attended	
col2_city	character varying	20	Colleges Attended	Education	Colleges Attended	
col2_state	character varying	30	Colleges Attended	Education	Colleges Attended	
col2_country	character	2	Colleges Attended	Education	Colleges Attended	
col2_start_date	date		Colleges Attended	Education	Colleges Attended	
col2_end_date	date		Colleges Attended	Education	Colleges Attended	
col2_degree_date	date		Colleges Attended	Education	Colleges Attended	

col2_degree_obtained	character	1	Colleges Attended	Education	Colleges Attended	
col3_ceeb	character	7	Colleges Attended	Education	Colleges Attended	
col3_cds	character	6	Colleges Attended	Education	Colleges Attended	
col3_not_listed	boolean	1	Colleges Attended	Education	Colleges Attended	
col3_name	character varying	30	Colleges Attended	Education	Colleges Attended	
col3_city	character varying	20	Colleges Attended	Education	Colleges Attended	
col3_state	character varying	30	Colleges Attended	Education	Colleges Attended	
col3_country	character	2	Colleges Attended	Education	Colleges Attended	
col3_start_date	date		Colleges Attended	Education	Colleges Attended	
col3_end_date	date		Colleges Attended	Education	Colleges Attended	
col3_degree_date	date		Colleges Attended	Education	Colleges Attended	
col3_degree_obtained	character	1	Colleges Attended	Education	Colleges Attended	
col4_ceeb	character	7	Colleges Attended	Education	Colleges Attended	
col4_cds	character	6	Colleges Attended	Education	Colleges Attended	
col4_not_listed	boolean	1	Colleges Attended	Education	Colleges Attended	
col4_name	character varying	30	Colleges Attended	Education	Colleges Attended	
col4_city	character varying	20	Colleges Attended	Education	Colleges Attended	
col4_state	character varying	30	Colleges Attended	Education	Colleges Attended	
col4_country	character	2	Colleges Attended	Education	Colleges Attended	
col4_start_date	date		Colleges Attended	Education	Colleges Attended	
col4_end_date	date		Colleges Attended	Education	Colleges Attended	

col4_degree_date	date		Colleges Attended	Education	Colleges Attended	
col4_degree_obtained	character	1	Colleges Attended	Education	Colleges Attended	
college_name	character varying	50	College	N/A	General Application	
district_name	character varying	50	District	N/A	General Application	
term_code character	character varying	15	Term	Enrollment	Enrollment	
term_description	character varying	100	Term	Enrollment	Enrollment	
major_code character	character varying	30	Major	Enrollment	Enrollment	
major_description	character varying	100	Major	Enrollment	Enrollment	
tstmp_submit	timestamp with time zone		N/A	Derived		
tstmp_update	timestamp with time zone		N/A	Derived		
ssn_display	character varying	11	N/A	From User Account	Personal Information	
foster_youth_status	character	1	Residency	Residency	Residency	
foster_youth_preference	boolean	1	Residency	Residency	Residency	
foster_youth_mis	boolean	1	Residency	Residency	Residency	
foster_youth_priority	boolean	1	Residency	Residency	Residency	
integrity_flags	character varying	255	Residency	Residency	Residency	Has all the same integrity flags as XAP
military_stationed_ca_ed	boolean	1	Residency	Residency		
integrity_fg_65	boolean	1	Residency			
ip_address	character varying	15	Application	N/A		
campaign1	character varying	255	Application	N/A		
campaign2	character varying	255	Application	N/A		
campaign3	character varying	255	Application	N/A		

Data Map: Standard Application

Database Field Name & Type	XAP field name
ccc_id character varying(8)	N/A - new
status character(1)	N/A - new
college_id character(3)	N/A - new
edu_goal character(1)	educationalGoals
highest_edu_level character(5)	highestEdLevel highestEducationLevelYear
consent_indicator boolean	consent
app_lang character(2)	spanishApplication
esignature boolean	Application Certification Info
ack_fin_aid boolean	CCCApply Finaid Confirmation
fin_aid_ref boolean	financialAidReferral
confirmation character varying(30)	Application Confirmation Number
streetaddress1 character varying(50)	Mailing address – street
streetaddress2 character varying(50)	Mailing address – street 2
city character varying(50)	Mailing address - city
postalcode character varying(20)	Mailing address - zip code mailingAddrIntlCode
state character(2)	Mailing address - state
nonusaprovince character varying(30)	mailAddrNonUSState
country character(2)	Mailing address – country
non_us_address boolean	N/A – indicator of non us address
email character varying(50)	Email address
perm_streetaddress1 character varying(50)	Permanent address – street
perm_streetaddress2 character varying(50)	Permanent address – street 2
perm_city character varying(50)	Permanent address - city
perm_postalcode character varying(20)	Permanent address - zip code permAddrIntlCode
perm_state character(2)	Permanent address - state
perm_nonusaprovince character varying(30)	permAddrNonUSState
perm_country character(2)	Permanent address – country
address_same boolean	permAddrSameAsMailing (In new system perm address & mailing are reversed so this means mailing is same as perm.).
mainphone character varying(14)	Primary phone number
mainphone_ext character varying(4)	Primary phone - extension

mainphone_auth_text Boolean	N/A – new – authorized for text messages
secondphone character varying(14)	Secondary phone number
secondphone_ext character varying(4)	Secondary phone - extension
secondphone_auth_text boolean	N/A – new – authorized for text messages
enroll_status character(1)	enrollmentStatusOneChar
hs_edu_level character(1)	highSchoolEdLevel
hs_comp_date date	highSchoolCompletionDate
higher_edu_level character(1)	higherEdLevel
higher_comp_date date	higherEdCompletionDate
cahs_graduated boolean	graduatedCAHS
cahs_3year boolean	attendedCAHS3Years
hs_name character varying(30)	High sch 1 enrolled - name
hs_city character varying(20)	High sch 1 enrolled - city
hs_state character(2)	High sch 1 enrolled - state
hs_country character(2)	High sch 1 enrolled - country
hs_cds character(6)	highSchoolCDSCode1
hs_ceeb character(7)	High sch 1 enrolled - ceeb
hs_not_listed boolean	N/A – new – Indicates user selected their high school was not listed.
home_schooled Boolean	N/A – new – applicant indicated they were home schooled.
college_count smallint	N/A – new – applicant's response to number of colleges attended.
hs_attendance smallint	notAttendHS
gender character(1)	gender
dependent_status character(1)	over19OrMarried (Different definition)
pg_firstname character varying(20)	Guardian/Parent name - first
pg_lastname character varying(25)	Guardian/Parent name - last
pg_rel character(1)	guardianOrParentRelation
pg1_edu character(1)	edLevelParentGuardian1
pg2_edu character(1)	edLevelParentGuardian2
pg_edu_mis character(2)	N/A – new – combines previous two fields
race_ethnic text	raceEthnicity
hispanic boolean	hispanicLatino
race_group text	raceGroup
ssn (for downloads see ssnFormatter)	Social Security Number

birthdate date	Birthdate
firstname character varying(50)	Student name - first
middlename character varying(50)	Student name - middle
lastname character varying(50)	Student name - last
suffix character varying(3)	nameSuffix
otherfirstname character varying(50)	Other name - first name
othermiddlename character varying(50)	N/A - new
otherlastname character varying(50)	Other name - last name
citizenship_status character(1)	citizenshipStatus
alien_reg_number character varying(20)	visaNumber
visa_type character varying(20)	visaType
no_documents boolean	noDocuments
alien_reg_issue_date date	visaIssueDate
alien_reg_expire_date date	visaExpirationDate
alien_reg_no_expire boolean	noVisaExpirationDate
military_status character(1)	militaryStatus
military_discharge_date date	militaryDischargeDate
discharge_type	N/A - new
military_home_state character(2)	militaryHomeRecord
military_home_country character(2)	militaryHomeCountry
military_ca_stationed boolean	militaryInCA
military_legal_residence character(2)	militaryLegalResidence
ca_res_2_years boolean	residentCAAtLeast2Years
ca_date_current date	Date stay in CA began
ca_not_arrived boolean	notCAResident
ca_college_employee boolean	fullTimeEmployee
ca_school_employee boolean	publicSchoolCredEmployee
ca_seasonal_ag boolean	agriculturalEmployee
ca_foster_youth boolean	under20FosterYouthCA
ca_outside_tax boolean	nonCAResForTax
ca_outside_tax_year date	yearNonCAResForTax
ca_outside_voted boolean	registeredVoterInNonCAState
ca_outside_voted_year date	yearRegisteredVoterInNonCAState
ca_outside_college boolean	residentAtNonCACollege
ca_outside_college_year date	yearResidentAtNonCACollege

ca_outside_lawsuit boolean	lawsuitNonCAState
ca_outside_lawsuit_year date	yearLawsuitOutsideCalifornia
res_status character(1)	residencyStatus
res_status_change boolean	residencyStatusChange
res_prev_date date	previousResidencyDate
adm_ineligible smallint	ineligibilityFlag
elig_ab540 boolean	eligibleForWaiver
res_area_a smallint	N/A – new – Residency – Citizenship Area
res_area_b smallint	N/A – new – Residency – Stay and Intent Area
res_area_c smallint	N/A – new – Residency - Military Exemption Area
res_area_d smallint	N/A – new – Residency - Other exemptions
experience integer	CCC SLO Survey 1 Satisfaction
recommend integer	CCC SLO Survey 2 Recommend
comments text	CCC SLO Survey 3 Comments
comfortable_english boolean	primaryLanguage
financial_assistance boolean	financialAidInfo
tanf_ssi_ga boolean	generalAssistance
foster_youths boolean	fosterYouth
athletic_intercollegiate boolean	N/A – new – Title IX field
athletic_intramural boolean	N/A – new – Title IX field
athletic_not_interested boolean	N/A – new – Title IX field
academic_counseling boolean	academicCounseling
basic_skills boolean	basicSkills
calworks boolean	calWorks
career_planning boolean	careerPlanning
child_care boolean	childCare
counseling_personal boolean	personalCounseling
dsps boolean	disabledStudentPrograms
eops boolean	EOPS
esl boolean	ESL
health_services boolean	healthServices
housing_info boolean	housing
employment_assistance boolean	jobPlacement
online_classes boolean	onlineClasses
reentry_program boolean	reentryProgram

scholarship_info boolean	scholarships
student_government boolean	studentGovernment
testing_assessment boolean	testing
transfer_info boolean	transferInfo
tutoring_services boolean	tutoringServices
veterans_services boolean	veteransServices
integrity_fg_01 boolean	integrityFlags (all in one field in XAP)
integrity_fg_02 boolean	integrityFlags (all in one field in XAP)
integrity_fg_03 boolean	integrityFlags (all in one field in XAP)
integrity_fg_04 boolean	integrityFlags (all in one field in XAP)
integrity_fg_11 boolean	integrityFlags (all in one field in XAP)
integrity_fg_47 boolean	integrityFlags (all in one field in XAP)
integrity_fg_48 boolean	integrityFlags (all in one field in XAP)
integrity_fg_49 boolean	integrityFlags (all in one field in XAP)
integrity_fg_50 boolean	integrityFlags (all in one field in XAP)
integrity_fg_51 boolean	integrityFlags (all in one field in XAP)
integrity_fg_52 boolean	integrityFlags (all in one field in XAP)
integrity_fg_53 boolean	integrityFlags (all in one field in XAP)
integrity_fg_54 boolean	integrityFlags (all in one field in XAP)
integrity_fg_55 boolean	integrityFlags (all in one field in XAP)
integrity_fg_56 boolean	integrityFlags (all in one field in XAP)
integrity_fg_57 boolean	integrityFlags (all in one field in XAP)
integrity_fg_58 boolean	integrityFlags (all in one field in XAP)
integrity_fg_59 boolean	integrityFlags (all in one field in XAP)
integrity_fg_60 boolean	integrityFlags (all in one field in XAP)
integrity_fg_61 boolean	integrityFlags (all in one field in XAP)
integrity_fg_62 boolean	integrityFlags (all in one field in XAP)
integrity_fg_63 boolean	integrityFlags (all in one field in XAP)
integrity_fg_70 boolean	integrityFlags (all in one field in XAP)
integrity_fg_80 boolean	integrityFlags (all in one field in XAP)
integrity_flags char varying(255)	This has all the flags like in XAP
For Colleges only listing first occurence of each field	
col1_ceeb character(7)	College enrolled 1 - ceeb
col1_cds character(6)	collegeCDSCode1
col1_not_listed boolean	Colleges Attended

col1_name character varying(30)	College enrolled 1 – name
col1_city character varying(20)	College 1 address - city
col1_state character varying(30)	College 1 address – state
col1_country character(2)	College 1 address - country
col1_start_date date	College enrolled 1 - date from
col1_end_date date	College enrolled 1 - date to
col1_degree_date date	collegeDegreeDate1
col1_degree_obtained character(1)	collegeDegreeType1
col1_expelled_status	N/A - new
college_expelled_summary	N/A - new
college_name character varying(50)	N/A – Name of college applied to
term_description character varying(100)	enrol_term_year_description
major_code character varying(30)	Major Code
major_description character varying(100)	Major Name
tstmp_submit timestamp with time zone	Application Date Submitted
ssn_display character varying(11)	N/A - new
foster_youth_status character(1)	fosterYouthStatus
foster_youth_preference Boolean	N/A - new
foster_youth_mis Boolean	fosterYouthMIS
foster_youth_priority Boolean	fosterYouthPriority

Data Fields: International Application

Reference the International Application Specifications document on our project website for field definitions.

```
"app_id" bigint NOT NULL,
"ccc_id" character varying(8) NOT NULL,
"status" character(1),
"last_page" character varying(30),
"college_id" character(3),
"enroll_term_description" character varying(50),
"enroll_term_code" character varying(15),
"major_description" character varying(64),
"major_code" character varying(30),
"intended_4_year_major" character varying(255),
"educational_goal" character(1),
"consent" boolean,
"authorize_agent_info_release" boolean,
"confirmation" character varying(30),
"sup_page_code" character varying(30),
"app_lang" character(2),
"esignature" boolean,
"tstmp_create" timestamp with time zone DEFAULT now(),
"tstmp_update" timestamp with time zone,
"tstmp_submit" timestamp with time zone,
"firstname" character varying(50),
"middlename" character varying(50),
"lastname" character varying(50),
"suffix" character varying(3),
"otherfirstname" character varying(50),
"othermiddlename" character varying(50),
"otherlastname" character varying(50),
"birthdate" date,
"ssn" text,
"email" character varying(254),
"main_phone_number" character varying(25),
"main_phone_ext" character varying(4),
"main_phone_auth_txt" boolean,
"second_phone_number" character varying(25),
"second_phone_ext" character varying(4),
"second_phone_auth_txt" boolean,
"perm_addr_non_us_address" boolean,
"perm_addr_street_1" character varying(50),
"perm_addr_street_2" character varying(50),
"perm_addr_city" character varying(50),
"perm_addr_state" character(2),
"perm_addr_zip_code" character varying(20),
"perm_addr_non_us_province" character varying(50),
"perm_addr_non_us_postal_code" character varying(30),
"perm_addr_country" character(2),
"perm_addr_address_verified" boolean,
"phone_number" character varying(25),
"phone_ext" character varying(4),
"phone_auth_txt" boolean,
"non_us_phone_number" character varying(25),
"non_us_phone_ext" character varying(4),
"non_us_phone_auth_txt" boolean,
"alt_non_us_phone_number" character varying(25),
"alt_non_us_phone_ext" character varying(4),
"alt_non_us_phone_auth_txt" boolean,
```

```
"fax_number_number" character varying(25),
"emergency_contact_first_name" character varying(25),
"emergency_contact_no_first_name" boolean,
"emergency_contact_last_name" character varying(25),
"emergency_contact_relationship" character varying(20),
"emergency_contact_phone_number" character varying(25),
"emergency_contact_phone_ext" character varying(4),
"emergency_contact_phone_auth_txt" boolean,
"emergency_contact_email" character varying(50),
"emergency_contact_non_us_address" boolean,
"emergency_contact_street_1" character varying(50),
"emergency_contact_street_2" character varying(50),
"emergency_contact_city" character varying(50),
"emergency_contact_state" character(2),
"emergency_contact_zip_code" character varying(20),
"emergency_contact_non_us_province" character varying(50),
"emergency_contact_non_us_postal_code" character varying(30),
"emergency_contact_country" character(2),
"emergency_contact_address_verified" boolean,
"parent_guardian_first_name" character varying(25),
"parent_guardian_no_first_name" boolean,
"parent_guardian_last_name" character varying(25),
"parent_guardian_relationship" character(1),
"parent_guardian_phone_number" character varying(25),
"parent_guardian_phone_ext" character varying(4),
"parent_guardian_phone_auth_txt" boolean,
"parent_guardian_email" character varying(50),
"parent_guardian_non_us_address" boolean,
"parent_guardian_street_1" character varying(50),
"parent_guardian_street_2" character varying(50),
"parent_guardian_city" character varying(50),
"parent_guardian_state" character(2),
"parent_guardian_zip_code" character varying(20),
"parent_guardian_non_us_province" character varying(50),
"parent_guardian_non_us_postal_code" character varying(30),
"parent_guardian_country" character(2),
"parent_guardian_address_verified" boolean,
"current_mailing_non_us_address" boolean,
"current_mailing_street_1" character varying(50),
"current_mailing_street_2" character varying(50),
"current_mailing_city" character varying(50),
"current_mailing_state" character(2),
"current_mailing_zip_code" character varying(20),
"current_mailing_non_us_province" character varying(50),
"current_mailing_non_us_postal_code" character varying(30),
"current_mailing_country" character(2),
"current_mailing_address_verified" boolean,
"current_mailing_same_as_permanent" boolean,
"current_mailing_address_outside_us" boolean,
"non_us_permanent_home_non_us_address" boolean,
"non_us_permanent_home_street_1" character varying(50),
"non_us_permanent_home_street_2" character varying(50),
"non_us_permanent_home_city" character varying(50),
"non_us_permanent_home_non_us_province" character varying(50),
"non_us_permanent_home_non_us_postal_code" character varying(30),
"non_us_permanent_home_country" character(2),
"non_us_permanent_home_address_verified" boolean,
"gender" character(1),
"primary_language" character varying(10),
"country_of_birth" character(2),
"country_of_citizenship" character(2),
"hispanic" boolean,
"race_ethnicity" text,
"race_group" text,
```

```
"enroll_status" character(1),
"highest_edu_level" character varying(5),
"highest_comp_date" date,
"hs_name" character varying(40),
"hs_ceeb" character(30),
"hs_cds" character(30),
"hs_lang" character varying(10),
"hs_type" character(1),
"hs_edu_level" character(1),
"hs_street_1" character varying(50),
"hs_street_2" character varying(50),
"hs_city" character varying(50),
"hs_state" character(2),
"hs_zip_code" character varying(20),
"hs_non_us_address" boolean,
"hs_non_us_province" character varying(50),
"hs_non_us_postal_code" character varying(30),
"hs_country" character(2),
"hs_address_verified" boolean,
"hs_start_date" date,
"hs_end_date" date,
"hs_not_listed" boolean,
"hs_comp_date" date,
"hs_diploma_cert" character(12),
"hs_diploma_cert_date" date,
"higher_lang" character varying(10),
"college_edu_level" character(12),
"college_comp_date" date,
"eng_proficiency_req" text,
"eng_proficiency_type" character(2),
"eng_proficiency_date" date,
"eng_proficiency_other" character varying(50),
"eng_proficiency_show_score" boolean,
"eng_proficiency_score" character(6),
"eng_months_studied" smallint,
"college_count" smallint,
"coenroll_confirm" character(1),
"college_expelled_summary" boolean,
"col1_college_attended_id" bigint,
"col1_ceeb" character varying(30),
"col1_cds" character varying(30),
"col1_not_listed" boolean,
"col1_name" character varying(30),
"col1_city" character varying(50),
"col1_state" character varying(2),
"col1_non_us_province" character varying(50),
"col1_country" character(2),
"col1_start_date" date,
"col1_end_date" date,
"col1_degree_date" date,
"col1_degree_obtained" character(1),
"col1_expelled_status" boolean,
"col1_primary_instruction_language" character varying(10),
"col1_major" character varying(50),
"col2_college_attended_id" bigint,
"col2_ceeb" character varying(30),
"col2_cds" character varying(30),
"col2_not_listed" boolean,
"col2_name" character varying(30),
"col2_city" character varying(50),
"col2_state" character varying(2),
"col2_non_us_province" character varying(50),
"col2_country" character(2),
"col2_start_date" date,
```

```
"col2_end_date" date,
"col2_degree_date" date,
"col2_degree_obtained" character(1),
"col2_expelled_status" boolean,
"col2_primary_instruction_language" character varying(10),
"col2_major" character varying(50),
"col3_college_attended_id" bigint,
"col3_ceeb" character varying(30),
"col3_cds" character varying(30),
"col3_not_listed" boolean,
"col3_name" character varying(30),
"col3_city" character varying(50),
"col3_state" character varying(2),
"col3_non_us_province" character varying(50),
"col3_country" character(2),
"col3_start_date" date,
"col3_end_date" date,
"col3_degree_date" date,
"col3_degree_obtained" character(1),
"col3_expelled_status" boolean,
"col3_primary_instruction_language" character varying(10),
"col3_major" character varying(50),
"col4_college_attended_id" bigint,
"col4_ceeb" character varying(30),
"col4_cds" character varying(30),
"col4_not_listed" boolean,
"col4_name" character varying(30),
"col4_city" character varying(50),
"col4_state" character varying(2),
"col4_non_us_province" character varying(50),
"col4_country" character(2),
"col4_start_date" date,
"col4_end_date" date,
"col4_degree_date" date,
"col4_degree_obtained" character(1),
"col4_expelled_status" boolean,
"col4_primary_instruction_language" character varying(10),
"col4_major" character varying(50),
"passport_country_of_issuance" character(2),
"passport_not_yet" boolean,
"passport_number" character varying(20),
"passport_expiration_date" date,
"visa_type" character varying(4),
"no_visa" boolean,
"issue_date" date,
"expiration_date" date,
"citizenship_status" character varying(1),
"i94_admission_number" character varying(32),
"i94_expiration_date" date,
"no_i94_expiration_date" boolean,
"number_of_dependents" smallint,
"presently_studying_in_us" boolean,
"sevis_id_number" character varying(11),
"i20_issuing_school_name" character varying(20),
"i20_expiration_date" date,
"number_of_practical_training" smallint,
"pt1_practical_training_id" bigint,
"pt1_start_date" date,
"pt1_end_date" date,
"pt1_type" character varying(3),
"pt1_authorizing_school" character varying(32),
"pt2_practical_training_id" bigint,
"pt2_start_date" date,
"pt2_end_date" date,
```

```
"pt2_type" character varying(3),
"pt2_authorizing_school" character varying(32),
"pt3_practical_training_id" bigint,
"pt3_start_date" date,
"pt3_end_date" date,
"pt3_type" character varying(3),
"pt3_authorizing_school" character varying(32),
"pt4_practical_training_id" bigint,
"pt4_start_date" date,
"pt4_end_date" date,
"pt4_type" character varying(3),
"pt4_authorizing_school" character varying(32),
"dep1_dependent_id" bigint,
"dep1_first_name" character varying(25),
"dep1_no_first_name" boolean,
"dep1_last_name" character varying(25),
"dep1_date_of_birth" date,
"dep1_country_of_birth" character varying(2),
"dep1_gender" character varying(1),
"dep1_relationship" character varying(20),
"dep2_dependent_id" bigint,
"dep2_first_name" character varying(25),
"dep2_no_first_name" boolean,
"dep2_last_name" character varying(25),
"dep2_date_of_birth" date,
"dep2_country_of_birth" character varying(2),
"dep2_gender" character varying(1),
"dep2_relationship" character varying(20),
"dep3_dependent_id" bigint,
"dep3_first_name" character varying(25),
"dep3_no_first_name" boolean,
"dep3_last_name" character varying(25),
"dep3_date_of_birth" date,
"dep3_country_of_birth" character varying(2),
"dep3_gender" character varying(1),
"dep3_relationship" character varying(20),
"dep4_dependent_id" bigint,
"dep4_first_name" character varying(25),
"dep4_no_first_name" boolean,
"dep4_last_name" character varying(25),
"dep4_date_of_birth" date,
"dep4_country_of_birth" character varying(2),
"dep4_gender" character varying(1),
"dep4_relationship" character varying(20),
"dep5_dependent_id" bigint,
"dep5_first_name" character varying(25),
"dep5_no_first_name" boolean,
"dep5_last_name" character varying(25),
"dep5_date_of_birth" date,
"dep5_country_of_birth" character varying(2),
"dep5_gender" character varying(1),
"dep5_relationship" character varying(20),
"dep6_dependent_id" bigint,
"dep6_first_name" character varying(25),
"dep6_no_first_name" boolean,
"dep6_last_name" character varying(25),
"dep6_date_of_birth" date,
"dep6_country_of_birth" character varying(2),
"dep6_gender" character varying(1),
"dep6_relationship" character varying(20),
"dep7_dependent_id" bigint,
"dep7_first_name" character varying(25),
"dep7_no_first_name" boolean,
"dep7_last_name" character varying(25),
```

```
"dep7_date_of_birth" date,
"dep7_country_of_birth" character varying(2),
"dep7_gender" character varying(1),
"dep7_relationship" character varying(20),
"dep8_dependent_id" bigint,
"dep8_first_name" character varying(25),
"dep8_no_first_name" boolean,
"dep8_last_name" character varying(25),
"dep8_date_of_birth" date,
"dep8_country_of_birth" character varying(2),
"dep8_gender" character varying(1),
"dep8_relationship" character varying(20),
"dep9_dependent_id" bigint,
"dep9_first_name" character varying(25),
"dep9_no_first_name" boolean,
"dep9_last_name" character varying(25),
"dep9_date_of_birth" date,
"dep9_country_of_birth" character varying(2),
"dep9_gender" character varying(1),
"dep9_relationship" character varying(20),
"dep10_dependent_id" bigint,
"dep10_first_name" character varying(25),
"dep10_no_first_name" boolean,
"dep10_last_name" character varying(25),
"dep10_date_of_birth" date,
"dep10_country_of_birth" character varying(2),
"dep10_gender" character varying(1),
"dep10_relationship" character varying(20),
"company" character varying(50),
"contact" character varying(50),
"agent_phone_number" character varying(25),
"agent_phone_ext" character varying(4),
"non_us_address" boolean,
"street_1" character varying(50),
"street_2" character varying(50),
"city" character varying(50),
"state" character varying(2),
"zip_code" character varying(20),
"non_us_province" character varying(50),
"non_us_postal_code" character varying(30),
"country" character varying(2),
"address_verified" boolean,
"ssn_type" character(1),
"signature" text,
"tstmp_download" timestamp with time zone,
"ip_address" character varying(15),
"campaign1" character varying(255),
"campaign2" character varying(255),
"campaign3" character varying(255),
```

Data Fields: BOG Fee Waiver Application

Reference the **OpenCCCBog_specifications.doc** for field definitions.

```
"app_id" bigint NOT NULL DEFAULT
 nextval('bog_application_app_id_seq'::regclass),
    "ccc_id" character varying(8) NOT NULL, (NOTE: New field, not in XAP)
    "confirmation_number" character varying(25),
    "status" character(1),
    "app_lang" character(2),
    "college_id" character(3), (NOTE: MIS code of the college being applied
 to)
    "term_code" character varying(4),

(NOTE: This field (term_code) is downloadable and refers to the highest year
 of the BOG Academic Year
Ex. "term_code" = 2016 for the BOG Academic Year of 2015-2016
This is the same as the Enrollment Term in XAP)

    "year_code" bigint,
    "year_description" character varying(100), (NOTE: This is the BOG year
 description (i.e. Fall 2015 through Summer 2016))
    "determined_residentca" character(1),
    "determined_ab540_eligible" character(1),
    "determined_non_res_exempt" character(1),
    "lastname" character varying(50),
    "firstname" character varying(50),
    "middlename" character varying(50),
    "mainphone" character varying(14),
    "mainphone_ext" character varying(4),
    "mainphone_auth_text" boolean,
    "email" character varying(128),
    "non_us_address" boolean,
    "streetaddress1" character varying(50),
    "streetaddress2" character varying(50),
    "city" character varying(50),
    "state" character varying(2),
    "province" character varying(30),
    "country" character varying(2),
    "postalcode" character varying(20),
    "ssn" text,
    "ssn_hash" text,
    "student_college_id" character varying(20),
    "birthdate" date,
    "marital_status" character(1),
    "reg_dom_partner" character(1),
    "born_before_23_year" character(1),
    "married_or_rdp" character(1),
    "us_veteran" character(1),
    "dependents" character(1),
    "parents_deceased" character(1),
    "emancipated_minor" character(1),
    "legal_guardianship" character(1),
    "homeless_youth_school" character(1),
    "homeless_youth_hud" character(1),
    "homeless_youth_other" character(1),
    "dependent_on_parent_taxes" character(1),
    "living_with_parents" character(1),
    "dependency_status" character(1),
    "cert_veteran_affairs" character(1),
    "cert_national_guard" character(1),
```

```
"elig_medal_honor" character(1),
"elig_sept_11" character(1),
"elig_police_fire" character(1),
"tanf_calworks" character(1),
"ssi_ssp" character(1),
"general_assistance" character(1),
"parents_assistance" character(1),
"dep_number_household" integer,
"ind_number_household" integer,
"dep_gross_income" integer,
"ind_gross_income" integer,
"dep_other_income" integer,
"ind_other_income" integer,
"dep_total_income" integer,
"ind_total_income" integer,
"elig_method_a" boolean,
"elig_method_b" boolean,
"elig_bogfw" character(1),
"confirmation_parent_guardian" boolean,
"parent_guardian_name" character varying(60),
"ack_fin_aid" boolean DEFAULT false,
"confirmation_applicant" boolean DEFAULT false,
"last_page" character varying(25),
"ssn_last4" character(4),
"tstmp_submit" timestamp with time zone, (NOTE: Submission date and time)
"tstmp_create" timestamp with time zone DEFAULT now(),
"tstmp_update" timestamp with time zone,
"tstmp_download" timestamp with time zone,
"term_code" character varying(5),
"cryptokeyid" integer,
"ssn_type" character(1),
"ip_address" character varying(15),
"campaign1" character varying(255),
"campaign2" character varying(255),
"campaign3" character varying(255),
```

Data Fields: Supplemental Questions Responses

Important: These fields names are the names populated in the database table and therefore the names you reference in your format definitions XML file. See the sections above for what names to use in the XML file. When you configure your format XML file for supplemental question download by including the database field name below, the "nn" in the Database Field Name column example below is replaced with the number for each field of that type that you included in your supplemental questions (i.e. <field name = "supp_secret_01"/>, <field name = "supp_secret_02"/>, etc.).

Database Field Name	Data Type	Comment
supp_check_nn	boolean	50 check box answers; nn=01 thru 50
supp_country_nn	character(2)	5 country code answers; nn=01 thru 05
supp_date_nn	date	5 date answers; nn=01 through 05
supp_secret_nn	character varying(20)	5 hidden text field responses; nn= 01 through 05
supp_menu_nn	boolean	30 menu answers nn=01 through 30
supp_phonenumber_nn	character varying(25)	5 phone number answers nn=01 through 05
supp_state_nn	character(2)	5 state code answers nn=01 through 05
supp_text_nn	character varying(250)	20 text answers nn=01 through 20
supp_yesno_nn	boolean	30 yes/no answers nn=01 through 30