



**CCCApply Download Client**

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# Download Client Overview

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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 as 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 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.

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:

Item	Size
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

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.

- 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.

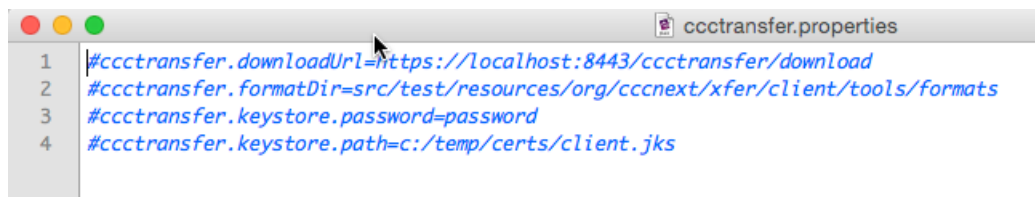
- c. Locate your college key alias by looking at the key name at the beginning of the entry of type "PrivateKeyEntry". The college key alias will usually be in the format of "xxx.edu" where xxx is your college's initials.
- d. Update your college keystore password by entering the following command at 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 keystore 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 the 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 word password. That is, edit the word password after the = sign in this entry: ccctransfer.keystore.password=password



```
1 #ccctransfer.downloadUrl=https://localhost:8443/ccctransfer/download
2 #ccctransfer.formatDir=src/test/resources/org/ccnnext/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.
- k. Test the new keystore by entering the following command at the command prompt (for QA):


```
java -jar transfer-client.jar -test https://qa.admin.openccc.net/ccctransfer/debug
```

Confirm that no errors are printed.


To test the new keystore for production, enter the following command at the command prompt:

```
java -jar transfer-client.jar -test https://admin.openccc.net/ccctransfer/debug
```

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.

```

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://qa.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="ccMain" 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 QA 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.
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).

```

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.)
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 XLM 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.

```

mycollege-150313-160632.txt
1 999-2015-Bain-Tyler-Andrew--08/02/1993-400-558-2400-tbain@unicon.net-1760 East Pecos Road-Gilbert-AZ-85295-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-500182-AAAA007
2 999-2015-Bain-Tyler-Andrew-901-12-1234--01/14/1992-400-558-2400-tbain@unicon.net-1760 east pecos road-gilbert-AZ-85204-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-10000-AAAA007
3 999-2015-Bain-Tyler-Andrew--08/02/1993-400-558-2400-tbain@unicon.net-1760 East Pecos Road-Gilbert-AZ-85295-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-500185-AAAA007
4 999-2015-Bain-Tyler-Andrew-901-12-1234--01/14/1992-400-558-2400-tbain@unicon.net-1760 east pecos road-gilbert-AZ-85204-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-10007-AAAA007
5 999-2015-Bain-Tyler-Andrew-901-12-1234--01/14/1992-400-558-2400-tbain@unicon.net-1760 east pecos road-gilbert-AZ-85204-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-10006-AAAA007
6 999-2015-Bain-Tyler-Andrew--08/02/1993-400-558-2400-tbain@unicon.net-1760 East Pecos Road-Gilbert-AZ-85295-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-500131-AAAA007
7 999--Bain-Tyler-Andrew--04/26/1989-400-558-2400-tbain@unicon.com-1760 East Pecos Road-Gilbert-AZ-85295-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-500093-AAAA007
8 999--Bain-Tyler-Andrew--04/26/1989-400-558-2400-tbain@unicon.com-1760 East Pecos Road-Gilbert-AZ-85295-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-500094-AAAA007
9 999-2015-Bain-Tyler-Andrew-901-12-1234--07/30/1993-400-558-2400-tbain@unicon.net-17600000 East Pecos Road-Gilbert-AZ-85295-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-10184-AAAA007
10 999-2015-Bain-Tyler-Andrew-901-12-1234--07/30/1993-400-558-2400-tbain@unicon.net-17600000 East Pecos Road-Gilbert-AZ-85295-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-10185-AAAA007
11 999-2015-Bain-Tyler-Andrew-901-12-1234--04/21/1989-400-558-2400-tbain@unicon.net-1760 East Pecos Road-Gilbert--4345-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-10062-AAAA007
12 999-2015-Bain-Tyler-Andrew-901-12-1234--01/29/1993-400-558-2400-tbain@unicon.net-1760 East Pecos Road-Gilbert-AZ-85295-0-5-n-n-n-n-y --1-----0-0-0-1-0-10-0-0-0-10-false--Y-X-10253-AAAA007

```

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 cron 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.ccnnext.org/xfer"> <filedirectory="c:/temp"formatId="ccMainV1"prefix="contracosta"suffix=".txt" /> <filedirectory="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	
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 QA	https://qa.admin.openccc.net:8443/ccctransfer
Standard Production	https://admin.openccc.net:8443/ccctransfer

BOG QA	https://qa.admin.openccc.net:8443/ccctransferbog
BOG Production	https://admin.openccc.net:8443/ccctransferbog
International QA	https://qa.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 <i>id</i> attribute. <b>Note:</b> 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 version="1.0" encoding="UTF-8"?>
<formatDefinitions xmlns="http://xmlns.ccnnext.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="coll_name" len="57"/>
      <whitespace len="4" comment="SCHOOL TYPE"/>
      <field name="coll_start_date" len="10">
        <dateFormatter pattern="MM/dd/yyyy"/>
      </field>
      <field name="coll_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="coll_cds" len="15"/>
      <field name="coll_degree_obtained" len="1"/>
      <field name="coll_degree_date" len="10">
        <dateFormatter pattern="MM/dd/yyyy"/>
      </field>
    </fieldList>
  </formatDefinition>
</formatDefinitions>
```

```

</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>

```

### formatDefinitions 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). outputFormat="delimited" delimiter=" " (tab is the delimiter)
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 using it in production so you know you are getting the results you expect.

## Child Elements

### <fieldList>

Field list 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	
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	Descriptions
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, it will not add any padding.

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

Attribute Name	Descriptions
len	If specified, it will right pad the text with spaces if the len is greater than the length of the text. If omitted, it 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. <newline />

### <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>**

```
<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)

**<ssnFormatter>**

```
<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
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. 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

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

Attribute Name	Description
----------------	-------------

name	Name of the input field.
len	Specifies the length of the output (<to>) field (fixed format only).
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

**<phoneFormatter>**

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

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

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

## Data Fields: Standard Application

Database Field Name & Type	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	Application	Consent	General Application	
app_lang character(2)	Application	N/A	General Application	
esignature boolean	Application	Submission	General Application	
ack_fin_aid boolean	Application	Submission	General Application	
fin_aid_ref boolean	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	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	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	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	Education	Education	Education	
cahs_3year boolean	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	Education	Education	Education	
college_count smallint	Education	Education	Education	
hs_attendance smallint	Education	Education	Education	
coenroll_confirm boolean	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	Personal Info	Personal Information	Personal Information	
race_group text	Personal Info	Personal Information	Personal Information	
ssn (for downloads see ssnFormatter)	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	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	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	Residency	Citizenship/Military	Citizenship/Military	
military_legal_residence character(2)	Residency	Citizenship/Military	Citizenship/Military	
ca_res_2_years boolean	Residency	Residency	Residency	
ca_date_current date	Residency	Residency	Residency	
ca_not_arrived boolean	Residency	Residency	Residency	
ca_college_employee boolean	Residency	Residency	Residency	
ca_school_employee boolean	Residency	Residency	Residency	
ca_seasonal_ag boolean	Residency	Residency	Residency	
ca_foster_youth boolean	Residency	Residency	Residency	
ca_outside_tax boolean	Residency	Residency	Residency	

ca_outside_tax_year date	Residency	Residency	Residency	
ca_outside_voted boolean	Residency	Residency	Residency	
ca_outside_voted_year date	Residency	Residency	Residency	
ca_outside_college boolean	Residency	Residency	Residency	
ca_outside_college_year date	Residency	Residency	Residency	
ca_outside_lawsuit boolean	Residency	Residency	Residency	
ca_outside_lawsuit_year date	Residency	Residency	Residency	
res_status character(1)	Residency	Calculated	Residency	
res_status_change boolean	Residency	Calculated	Residency	
res_prev_date date	Residency	Calculated	Residency	
adm_ineligible smallint	Residency	Calculated	Residency	
elig_ab540 boolean	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	Needs and Interests	Needs & Interests	Needs & Interests	
financial_assistance boolean	Needs and Interests	Needs & Interests	Needs & Interests	
tanf_ssi_ga boolean	Needs and Interests	Needs & Interests	Needs & Interests	
foster_youths boolean	Needs and Interests	Needs & Interests	Needs & Interests	
athletic_intercollegiate boolean	Needs and Interests	Needs & Interests	Needs & Interests	
athletic_intramural boolean	Needs and Interests	Needs & Interests	Needs & Interests	

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

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

col1_ceed character(7)	Colleges Attended	Education	Colleges Attended	
col1_cds character(6)	Colleges Attended	Education	Colleges Attended	
col1_not_listed boolean	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_ceed character(7)	Colleges Attended	Education	Colleges Attended	
col2_cds character(6)	Colleges Attended	Education	Colleges Attended	
col2_not_listed boolean	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_ceed character(7)	Colleges Attended	Education	Colleges Attended	
col3_cds character(6)	Colleges Attended	Education	Colleges Attended	

col3_not_listed boolean	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_ceed character(7)	Colleges Attended	Education	Colleges Attended	
col4_cds character(6)	Colleges Attended	Education	Colleges Attended	
col4_not_listed boolean	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 varying(15)	Term	Enrollment	Enrollment	



term_description character varying(100)	Term	Enrollment	Enrollment	
major_code 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	Residency	Residency	Residency	
foster_youth_mis Boolean	Residency	Residency	Residency	
foster_youth_priority Boolean	Residency	Residency	Residency	
integrity_flags character varying(255)	Residency	Residency	Residency	Has all integrity flags like in XAP

## 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_ceed 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
<b>For Colleges only listing first occurrence of each field</b>	
coll_ceed character(7)	College enrolled 1 - ceeb
coll_cds character(6)	collegeCDSCode1
coll_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_code character varying(15)	enrol_term_year_code
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

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

Database field name and type	Comments
ccc_id character varying(8) NOT NULL,	
status character(1),	
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),	
app_lang character(2),	
tstmp_create timestamp with time zone DEFAULT now(),	
tstmp_update timestamp with time zone,	
tstmp_submit timestamp with time zone,	
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_residence_same_as_mailing boolean,	
current_mailing_address_outside_us boolean,	
current_residence_non_us_address boolean,	
current_residence_street_1 character varying(50),	
current_residence_street_2 character varying(50),	
current_residence_city character varying(50),	
current_residence_state character(2),	
current_residence_zip_code character varying(20),	
current_residence_non_us_province character varying(50),	
current_residence_non_us_postal_code character varying(30),	
current_residence_country character(2),	
current_residence_address_verified 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(2),	
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(1),	
highest_comp_date date,	
hs_name character varying(40),	
hs_ceed character(30),	
hs_cds character(30),	
hs_lang character(2),	
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(2),	
higher_diploma_cert character(12),	
higher_diploma_cert_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(8),	
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(8),	
col2_major character varying(50),	
col3_college_attended_id bigint,	
col3_ceed 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(8),	
col3_major character varying(50),	
col4_college_attended_id bigint,	
col4_ceed 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(8),	
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,	
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,	
ssn_type character(1),	
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,	
tstmp_download timestamp with time zone,	

## Data Fields: BOG Fee Waiver Application

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Reference the **OpenCCCBog\_specifications.doc** for field definitions.

Database field name and type	Comments
ccc_id character varying(8) NOT Null	New field – not in XAP
confirmation_number character varying(25)	
status character(1)	
app_lang character(2)	
college_id character(3)	MIS code of the college being applied to
year_code bigint	Used internally
term_code character varying(5)	This is the same as the Enrollment Term in XAP
year_description character varying(100)	This is the year description
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	
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	Submission date and time
tstmp_create timestamp with time zone	
tstmp_update timestamp with time zone	
tstmp_download timestamp with time zone	

## Data Fields: Supplemental Questions Responses

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**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.

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