XML Implementation Guide

Historical Statisical File

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Introduction

The Historical Statistical File is distributed in two formats: Flat File and XML. The Flat File version is a fixed-length file that summarizes the undergraduate admission process to the point of registration. It is made up of five main groupings:

1. General Applicant Data (High School and Board attended)
2. Confirmed Applicant Choice
3. Registered Applicant Choice
4. Applicant Course Information
5. Applicant University Choice Information

On the other hand, the PESC-XML influenced format of the Historical Statistical File will be broken into the following groupings:

1. An optional Transmission Data
2. A Reference Year element
3. A Board grouping, which can be further broken down into the following:
   a. School
   b. Optional Note/Message
4. An optional Note/Message

The PESC-XML influenced format, in fact, does capture more data than what is currently in the traditional Historical Statistical File format. In many cases, this is a concerted effort to remain consistent with existing PESC elements, as they are listed in current PESC-XML Documentation (list of documentation used can be found in the Bibliography), while maintaining all of the data captured in the original Historical Statistical File. This is most noticeable in Location based data.

It is expected that the new PESC-XML influenced file structure will continue to evolve. There are several elements, mentioned within this document, that are specific to OUAC and are reflective to OUAC's specific business requirements. For example, the PESC XML standards, released thus far, do not record region or county. These elements move the file format away from being strictly PESC compliant. In the future, these elements may be deemed irrelevant and removed or they may be incorporated in a specific education sector of PESC Approved standards.

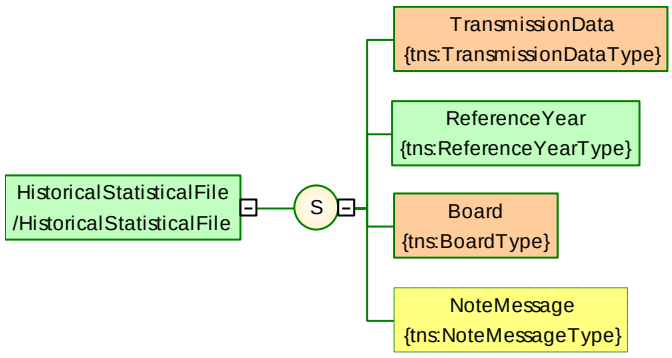
There are two flags – Confirmed Indicator and Registered Indicator – that have been removed from our OUAC-defined XML format that existed in its predecessor.

Organization and Format

Boxes in Diagrams: The heading for each level and sublevel indicates the position of the subsequent diagram in the larger Schema.

Following the heading, the diagram serves to illustrate the relationship with the preceding branch. All diagrams in this guide were copied from a graphical representation of the XML format of the Historical Statistical File using a software package from Sybase known as PowerDesigner (Version 15.3).

Example:



The boxes in the diagrams can illustrate two separate components of the Schema: first, certain boxes show complex data element groupings which branch out to form either lower-level element groupings or the Schema's other primary component, the fields that contain actual data. Each box contains two points of information: The name of the element and the element type. A box with a solid border indicates that the particular data element or field is required. A box with a dashed line indicates an optional data element or field.

The lines that connect two or more boxes help to denote the XML structure. Each line connects a box on the left-hand side to a circle with a letter inset in it. The lines continue out of the circle to the boxes on the right-hand side. Generally, all elements on the right-hand side of the diagram are components of the element on the left. The letter inset in the circle further defines the stucture. An "S" denotes that the elements/boxes on the right-hand side of the diagram must appear in the order they are arranged in the diagram. A "C" denotes that only a single element need be chosen from the set of elements attached to the circle. Alternatively, if an "A" is inset then the set of elements attached to the circle can appear or not and in any order.

The colour of the boxes also imparts information pertaining to that field or element. The colours of the boxes follow the "Recommended Use" designation and are as follows:

- light green colour - *Recommended* or *Required* designation,
- light blue colour - *Optional* or *Conditional,*
- yellow colour - *Not Recommended*, and
- peach colour - Complex.

Complex elements branch out beyond the scope of a given diagram. The Schema (and this Guide) display such branching in subsequent diagrams.

Note: Subsequent diagrams will display the element type on the left-hand side. For example, from the sample diagram above the "Board" element will be further defined in subsequent diagrams, as "BoardType" (as it is listed underneath the element name).

Descriptive Tables: Under each diagram a table will appear with five columns:

Tag Name: This is the name of the data element grouping or field that will appear in the Schema and in the instance document. ("Instance document" refers to a document with real data for an actual student that institutions would exchange.) The format for the tag name is Upper Camel

Case which takes a name such as “Transmission Data” and eliminates the space between the two words, retaining the capital letters of each word making up the tag name.

Schema Use: This column indicates whether the data element or field is required or optional in the instance document. If a required field is not included in the instance document, the file should normally be rejected by the receiving institution or agency’s computer program (XML Parser). This column will also include a notation if a field can be sent multiple times.

Description: This is a brief description of the data included with a particular XML tag name.

Recommended Use: This column reflects recommendations from the author. Recommendations in this column generally match the standards in Schema Use, especially if Schema Use shows an element or field as “Required.” However, a component listed as “Optional” in Schema Use may be listed as “Recommended” in Recommended Use if the author regards the element or field as essential and in keeping with good practices.

> **Required:** Indicates that a sending institution must include the data element or field in its transmission.
>
> **Recommended**: If the information for a field is available at the source, then ‘Recommended’ indicates that the field should be sent. Of course, if the information is not readily available, it would not be included.
>
> **Conditional:** This recommended use does not occur often in this Guide, but it may occur when the recommendation (recommended, optional or not recommended) is dependent on another data element being sent, or even on the value of another data element that is sent.
>
> **Optional:** Indicates that it is generally up to the sender to include the data or not. If a source document/file normally includes the element, or field, then the sender should probably include it. It should be noted that data requirements may differ depending on school, board, province/state and, especially, country, therefore what might be optional to one recipient may not be for another. It is highly recommended that optional data be sent when available.
>
> **Not Recommended:** In many cases, because of the reusability of complex data elements included in this schema they may not be appropriate for use in the Application for Admission. Or, the data element might not be appropriate in a particular place in the schema. In these cases, the recommended use may be designated as “Not Recommended”.

Format: This column shows the minimum and maximum number of occurrences of the data element. It also shows the minimum and maximum length allowable for a field, if that field does not have enumerated values and is not a special type of field such as a date field. Unless otherwise defined for a simple data element, the format is always alpha numeric.

"**minOcc** 1" indicates a required field, since it must have at least one occurrence in the instance document. "minOcc 0" indicates an optional field.

"**maxOcc**" followed by a number or symbol specifies the maximum number of times that an element can recur in an instance document at a particular position. For example, "maxOcc 5" would indicate that the field may occur no more than 5 times in a given position of the instance document. "maxOcc **∞"** indicates that a field may recur an unlimited number of times in the instance document. However, the use of an excessive number of occurrences puts a burden on the receiving agency or institution, so they should always be limited to the fewest number possible.

"**minLength**" indicates the minimum number of characters that a field must contain, while "**maxLength**" indicates the maximum number of characters that a field may contain.

"Enumerations" are used to list the allowable values that may be used in the instance document. They must be used exactly as shown in this column. When the values are enumerated in this column, "minLength" and "maxLength" will not be indicated and are not appropriate.

"**DateTime**" always uses the same format: ccyy-mm-ddThh:ii:ss(+GMT). An example would be "2005-11-20T08:15:36(+7)". If DateTime is used, then "minLength" and "maxLength" will not be indicated.

"Date" always uses the format "ccyy-mm-dd". An example would be "2006-07-15". If Date is used, then "minLength" and "maxLength" will not be indicated. Alternate indications that can be used are "gYearMonth" which represents the partial date such as 2008-05, or gYear which represents only the four digit year.

"**xs:decimal**" indicates a numeric field. It has a maximum length of 18 characters including a decimal if it is explicitly included. Typical values would be (1) a grade point average of "3.250"; (2) credits earned of "24"; or (3) credits included in GPA of "16".

"**minInclusive**" indicates the lowest value of a decimal type field that can be included, while "**maxInclusive**" indicates the maximum value that can be included in a decimal type field. "**totalDigits**" indicates the maximum number of digits that can be used in the specified field.

Comment: Comments are meant to provide further explanation or information about the items displayed in the row or the table above.

Code Illustration: Below each table, a snippet of what that portion of an instance document might look like in XML format. If the code is illustrating a complex data element that will be further explained on a subsequent page of this Guide, then only the opening and closing tags will be included. For example:

<Birth>

</Birth>

If the code is illustrating a simple data element that is not recommended for inclusion, then an empty tag will be included. For example:

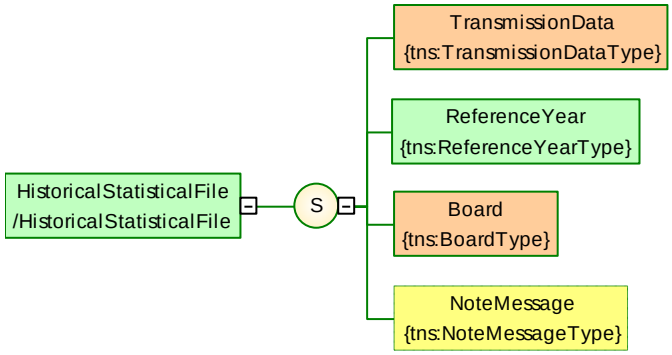
<NoteMessage/>

However, it is common practice not to include an empty tag such as <NoteMessage/> in the instance document.

Order of tag names in the Instance Document: The order of the data elements must be maintained in the instance document in the same order they appear in the schema. Of course, many of the data elements are optional and do not need to be included in the instance document, but if they are included, they must be included in the same order they appear in the schema.

Historical Statistical File

HistoricalFile

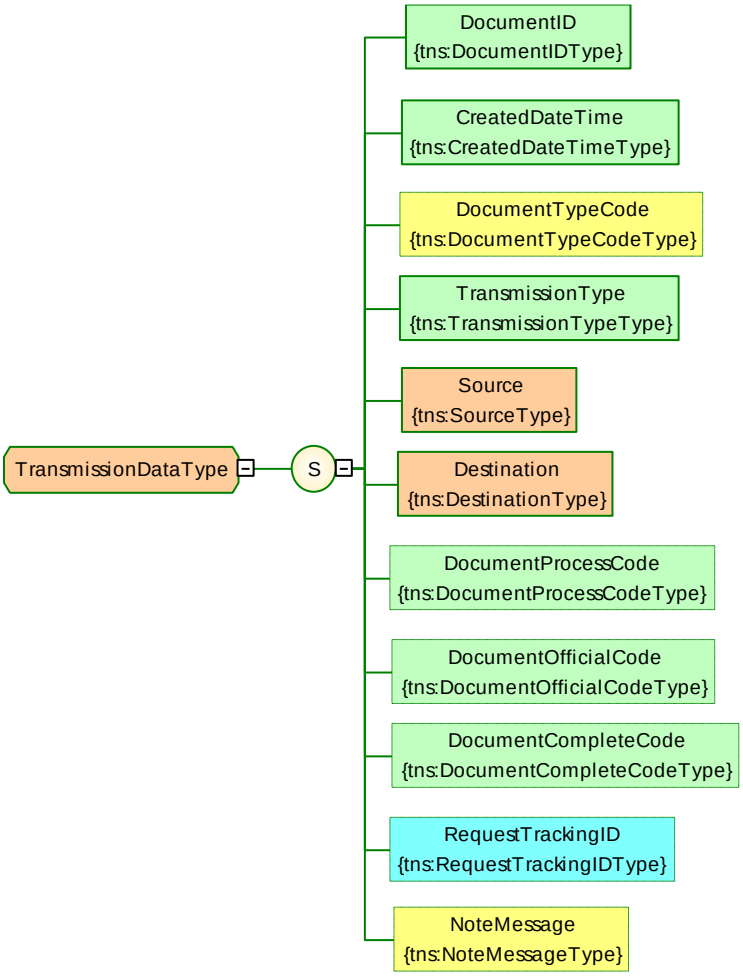


Tag Name	Schema Use	Description	Recommended Use	Format
TransmissionData	Required	Routing and Header Information	Required	minOcc 1 maxOcc 1
Comment: Detailed information about this complex data element to follow on page 10				
ReferenceYear	Required	Defines the application cycle that the document references. This matches the **REFYR** field in HSTAT98P file.	Required	minOcc 1 maxOcc 1 gYear – Format is ccyy
Board	Required Repeatable	This is the board of the school where the applicant was registered by the end of the application cycle or at the time this data was extracted	Required	minOcc 1 maxOcc ∞ Format is an integer
Comment: Additional information about board will be shown on page 32				
NoteMessage	Optional Repeatable	Additive information about the summary report	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80
Comment: In general, it is not recommended to include the unformatted NoteMessage. The use of this tag should be predetermined by the trading partners so that it can be properly processed and stored. If not formatted, then a risk that the trading partner will be unable to properly process and store the data associated with the tag.				

Code Illustration:

```
<HistFile:HistoricalStatisticalFile
  XMLns:AdmApp="urn:org:ouac:message:HistoricalStatisticalFile:v1.0.0"
  XMLns:AdmRec="urn:org:ouac:sector:HistoricalStatisticalFile:v1.0.0"
  XMLns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:org:ouac:message:HistoricalStatisticalFile:v1.0.0"
/HistoricalStatisticalFile_v1.0.0.xsd>
   <TransmissionData>
   </TransmissionData>
   <ReferenceYear>2011</ReferenceYear>
   <Board>
   </Board>
```

Transmission



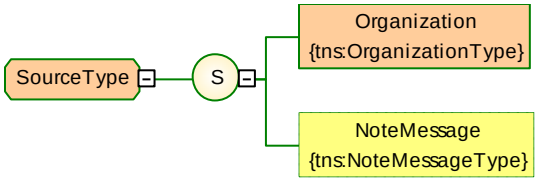
Tag Name	Schema Use	Description	Recommended Use	Format
DocumentID	Required	The File Transmission Date and Time stamp with additional unique qualifying characteristics	Required	minOcc 1 maxOcc 1 minLength 1 maxLength 35
CreatedDateTime	Required	The Date and Time stamp when the document was created	Required	minOcc 1 maxOcc 1 xs: datetime ccyy-mm-ddThh:ll:ss(+-GMT)
DocumentTypeCode	Optional	Type and Purpose of document being transmitted	Not Recommended	minOcc 1 maxOcc 1
Comment: Since this file is usually pushed to all parties without request, the use of this element is deemed to be optional. **Request** would be used to for a complete file of all qualified records. **Change** would be used to request only those records that have changed from the last time a file had been requested. Details explaining the time span that a **Change** request may cover should be placed in a NoteMessage element				
TransmissionType	Required	The nature of the transmission	Required	minOcc 1 maxOcc 1
Comment: The typical value used would be “Original”.				

Source	Required	This field is required and essential to indicate the agency, vendor, or company that is transmitting the file.	Required	minOcc 1 maxOcc 1
Comment: This complex data element will be expanded on page 12. The source will typically be the Ontario Universities' Application Centre (OUAC)				
Destination	Required	This field is required and essential to indicate the agency, vendor, or company that is receiving the file.	Required	minOcc 1 maxOcc 1
Comment: This complex data element will be expanded on page 22				
DocumentProcessCode	Optional	This element indicates a TEST or PRODUCTION	Required if "TEST" "PRODUCTION" implied, not recommended	minOcc 0 maxOcc 1
Comment: During initial testing or whenever any new changes to format are issued, the value "TEST" would be included. After the testing phase is completed, then this optional data element would not be included.				
DocumentOfficialCode	Optional	This element indicates if the document is unofficial. Unofficial documents may be produced for reference purposes, but may not be binding	Required if "Unofficial" "Official" implied, not recommended and not sent by OUAC	minOcc 0 maxOcc 1
Comment: Since the transmission of this type are considered official, this optional data element would not normally be included.				
DocumentCompleteCode	Optional	This element indicates whether the document conveys a complete record. Partial records may be produced for information that is recorded in multiple media or formats	Required if not complete "Complete" is implied, not recommended and not sent by OUAC	minOcc 0 maxOcc 1
Comment: Since all transmissions of this type are considered complete, this optional data element is not normally be included.				
RequestTrackingID	Optional	The unique ID associated with a request action that is returned to the requestor for document matching and tracking	Optional – not sent by OUAC	minOcc 0 maxOcc 1
Comment: This is a number created by the source so that the version of the file can be received and easily matched with this transmission. It may not normally be required if a limited number of the files are created. This number may be exchanged manually, not using an automated process.				
NoteMessage	Optional Repeatable	Additional information about the transmission	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<TransmissionData>
  <DocumentID>2011-04-04-2316139</DocumentID>
  <CreatedDateTime>2011-04-04T09:30:47-05:00</CreatedDateTime>
  <TransmissionType>Original</TransmissionType>
  <Source>
  </Source>
  <Destination>
  </Destination>
  <DocumentProcessCode/>
</TransmissionData>
```

TransmissionData.Source

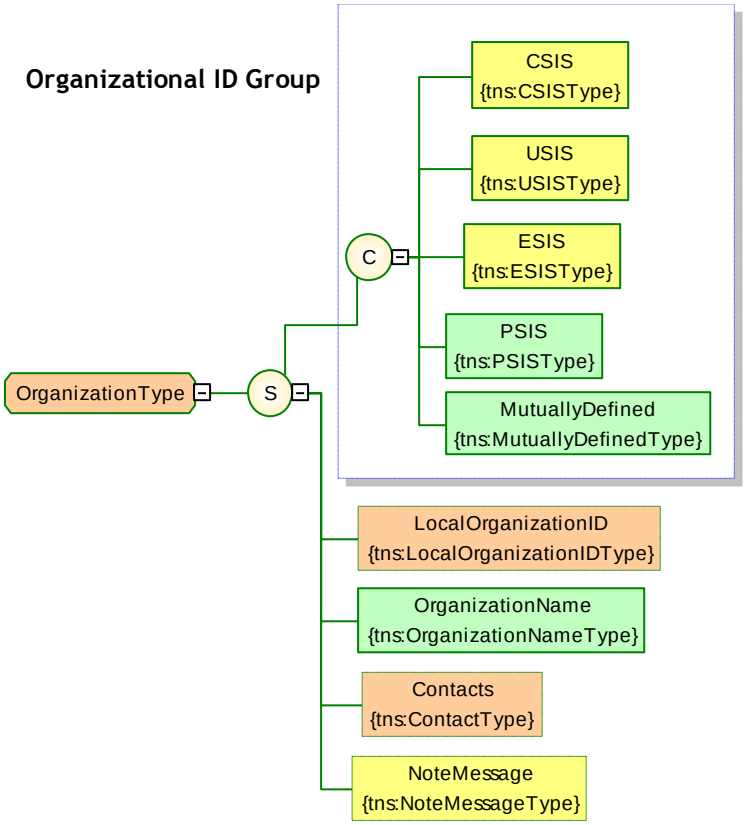


Tag Name	Schema Use	Description	Recommended Use	Format
Organization	Required	Non-person entity such as Organization, Institution, Agency, or Business	Required	minOcc 1 maxOcc 1
Comment: Expanded information about any organization will be provided on page 13. The source Organization is usually Ontario Universities' Application Centre (OUAC)				
NoteMessage	Optional Repeatable	Additional Information about Organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 MaxLength 80
Comment: This gives additional information about the sending or source organization.				

Code Illustration:

```
<Source>
  <Organization>
  </Organization>
</Source>
```

TransmissionData.Source.Organization



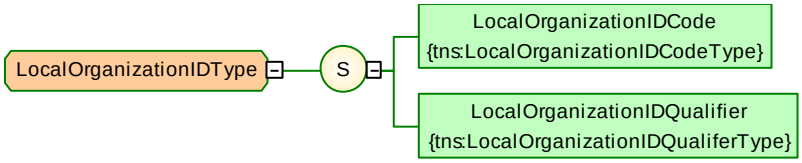
Tag Name	Schema Use	Description	Recommended Use	Format
[OrganizationIDGroup]	Required	Allowable Organization Ids – Exclusive Choice	Required	minOcc 1 maxOcc 1
Comment: [OrganizationIDGroup] is not an XML tag and does not appear in an instance document. It requires a choice of one, and only one, of the following XX code set tags to identify the source organization.				
CSIS	Required choice	This unique identifier assigned by the Statistics Canada Canadian College Student Information System for each postsecondary exchange partner	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
USIS	Required choice	This unique identifier assigned by the Statistics Canada University Student Information System for each postsecondary exchange partner	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
ESIS	Required choice	This unique identifier assigned by the Statistics Canada Enhanced Student Information System for each postsecondary exchange partner	Not Recommended	minOcc 0 maxOcc 1 minLength 8 maxLength 8

Comment: This identifier is scheduled to be replaced by the PSIS code set, it is a valid choice for schools in Canada, just not recommended.				
PSIS	Required choice	This unique identifier assigned by the Statistics Canada Postsecondary Student Information System for each postsecondary exchange partner	Recommended Choice - not sent by OUAC	minOcc 0 maxOcc 1 minLength 8 maxLength 8
Comment: This code set is the preferred code set to identify postsecondary schools in Canada.				
MutuallyDefined	Required choice	A special code set agreed upon in advance by trading partners in the exchange to identify selected trading partners	Recommended Choice	minOcc 0 maxOcc 1 minLength 1 maxLength 60
Comment: MutuallyDefined would be appropriate to identify a company or other agency which does not have one of the other allowable codes in this choice element. However, it must be interpreted correctly by the destination school or agency.				
Comment: End of OrganizationIDGroup choice set tags				
LocalOrganizationID	Optional	A code set to more specifically identify the sending organization	Not Recommended	minOcc 0 maxOcc 1
Comment: Additional information about the complex data element Local Organization ID will be shown on page 15				
OrganizationName	Optional Repeatable	Name of the non-person entity such as organization, institution, or Agency	Recommended	minOcc 0 maxOcc ∞ minLength 1 MaxLength 60
Comment: This is the name of the sending company, vendor, school or agency. It is repeatable so that either a longer name can be included, or more specific parts of the organization can be included.				
Contacts	Optional Repeatable	To identify a person or office at the sending agency to which administrative communications should be directed	Recommended	minOcc 0 maxOcc ∞
Comment: Additional information about the complex data element Contacts will be shown on page 16				
NoteMessage	Optional Repeatable	Additional information about the organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 MaxLength 80
Comment: Since an unformatted NoteMessage cannot be automatically processed by the receiving school's computer, the uses of unformatted NoteMessage data elements are not recommended. However, if the sending and receiving schools or agencies have a prior agreement on the format of a NoteMessage, then it can sometimes be useful within a group of users with common interests.				

Code Illustration:

```
<Organization>
  <MutuallyDefined>12345600</MutuallyDefined>
   <OrganizationName>Ontario Universities' Application Centre</OrganizationName>
  <Contacts>
  </Contacts>
</Organization>
```

TransmissionData.Source.Organization.LocalOrganizationID

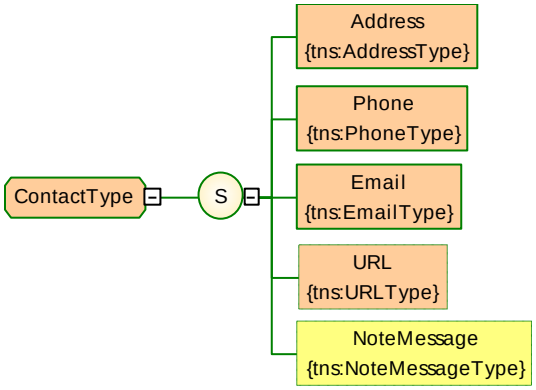


Tag Name	Schema Use	Description	Recommended Use	Format
LocalOrganizationIDCode	Required	The code assigned for the sending organization by the province or other mutually defined agency specified in the LocalIDQualifier that follows.	Required – not sent by OUAC	minOcc 1 maxOcc 1 minLength 1 maxLength 35
Comment: This is a required element only if the Local Organization ID complex data element is sent. This will typically be **'OUAC'**				
LocalOrganizationIDQualifier	Required	This is the state or province that assigned the LocalOrganizationIDCode above.	Required – not sent by OUAC	minOcc 1 maxOcc 1
Comment: This is a required element only if the Local Organization ID data element is sent. This will typically be ON for Ontario. It is further defined in the OUAC System Manual (Element 200).				

Code Illustration:

This element is not sent by OUAC.

TransmissionData.Source.Organization.Contacts

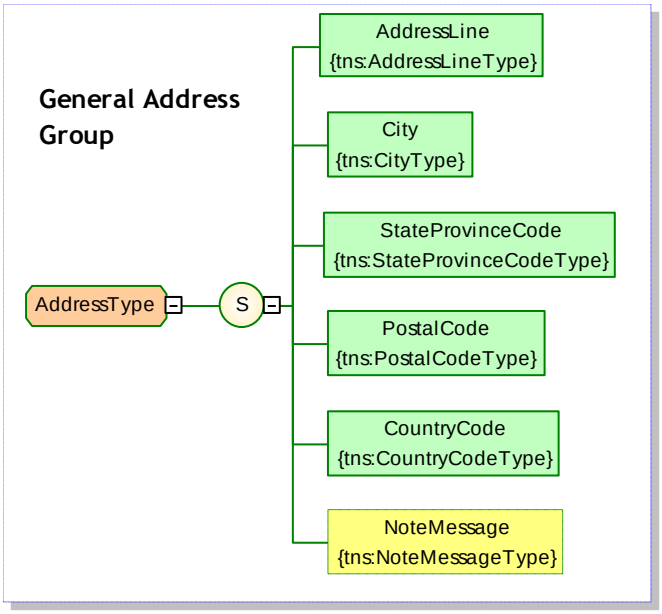


Tag Name	Schema Use	Description	Recommended Use	Format
Address	Optional Repeatable	Address of source organization	Recommended	minOcc 0 maxOcc ∞
Comment: This complex data element will be expanded on page 17.				
Phone	Optional Repeatable	Phone Number of source organization	Recommended	minOcc 0 maxOcc ∞
Comment: This complex data element will be expanded on page 19.				
Email	Optional Repeatable	Email address of source organization	Recommended	minOcc 0 maxOcc ∞
Comment: This complex data element will be expanded on page 20.				
URL	Optional Repeatable	The Uniform Resource Locator of source organization	Optional	minOcc 0 maxOcc ∞
Comment: This complex data element will be expanded on page 21.				
NoteMessage	Optional Repeatable	Additional information about the contacts at the source organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80
Comment: This is the contact information included by the sending organization to indicate the preferred means for the receiving organization to contact the sending organization in case there is a need for further communication. This is the only place in the instance document to include the name, address, and contact information about the organization that is sending the file.				

Code Illustration:

```
<Contacts>
  <Address>
  </Address>
  <Phone>
  </Phone>
  <Email>
  </Email>
  <URL>
  </URL>
</Contacts>
```

TransmissionData.Source.Organization.Contacts.Address

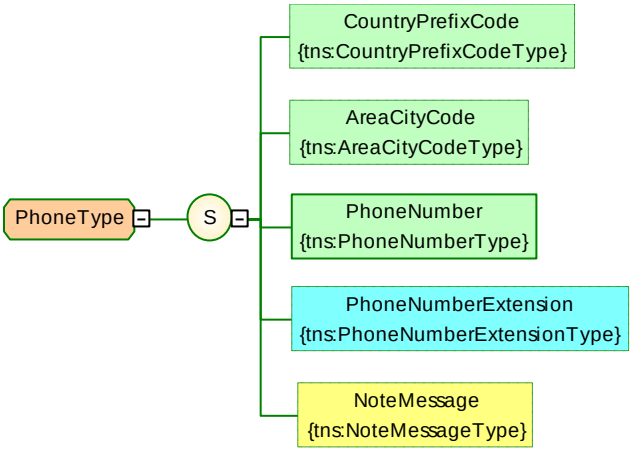


Tag Name	Schema Use	Description	Recommended Use	Format
GeneralAddressGroup	Required	This Address Group for items common to all Addresses	Required	minOcc 1 maxOcc 1
Comment: This group is required in the schema only if you choose to send the address of the contact.				
AddressLine	Required Repeatable	Local delivery information such as street, building number, PO box, or apartment portion of a postal address of a Contact at the Sending (Source) Organization	Required	minOcc 1 maxOcc 3 minLength 1 maxLength 40
City	Required	The city portion of the Address of a Contact at the Sending (Source) Organization	Required	minOcc 1 maxOcc 1 minLength 2 maxLength 30
StateProvinceCode	Required	Code for US States and Canadian provinces	Required	minOcc 1 maxOcc 1
PostalCode	Required	The postal code/zip code portion of the Address	Required	minOcc 1 maxOcc 1 minLength 1 maxLength 17
CountryCode	Optional	Code indicating country. Use ISO 3166-1 alpha-2 standard	Recommended	minOcc 0 maxOcc 1
NoteMessage	Optional Repeatable	Additional information about the addresses of the contacts at the source school	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Address>
  <AddressLine>170 Research Lane</AddressLine>
  <City>Guelph</City>
  <StateProvinceCode>ON</StateProvinceCode>
  <PostalCode>N1G5E2</PostalCode>
 <CountryCode>CA</CountryCode>
</Address>
```

TransmissionData.Source.Organization.Contacts.Phone

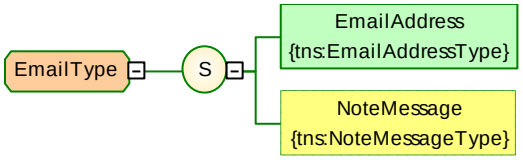


Tag Name	Schema Use	Description	Recommended Use	Format
CountryPrefixCode	Optional	International dialing code	Recommended - not sent by OUAC	minOcc 0 maxOcc 1 minLength 1 maxLength 3
AreaCityCode	Optional	Regional dialing code	Recommended	minOcc 0 maxOcc 1 minLength 1 maxLength 5
PhoneNumber	Required	Telephone Number	Required	minOcc 1 maxOcc 1 minLength 1 maxLength 11
PhoneNumberExtension	Optional	The extended telephone addressing information used in addition to phone number such as PBX extension, a pager PIN, or FAX sub-address	Optional – not sent by OUAC	minOcc 0 maxOcc 1 minLength 1 maxLength 8
NoteMessage	Optional Repeatable	Additional information about the phone number of the contact at the source organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Phone>
   <AreaCityCode>519</AreaCityCode>
  <PhoneNumber>8231940</PhoneNumber>
</Phone>
```

TransmissionData.Source.Organization.Contacts.Email

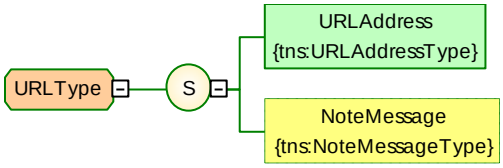


Tag Name	Schema Use	Description	Recommended Use	Format
EmailAddress	Required	The numbers, letters, and symbols used to identify an electronic mail (email) user within a network	Required	minOcc 1 maxOcc 1 minLength 1 maxLength 128
NoteMessage	Optional Repeatable	Additional information about the email address of the contact at the sending organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

<Email>
  *<EmailAddress>*farella@cua.edu*</EmailAddress>*
</Email>

TransmissionData.Source.Organization.Contacts.URL

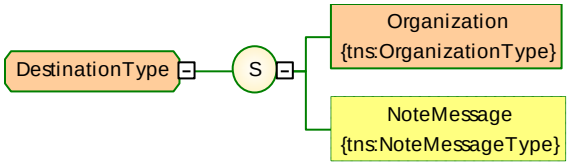


Tag Name	Schema Use	Description	Recommended Use	Format
URLAddress	Required	The Uniform Resource Locator (URL) address of the sending organization or of a contact at the sending organization	Required	minOcc 1 maxOcc 1 minLength 1 maxLength 512
NoteMessage	Optional Repeatable	Additional information about the URL address of the source organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

<URL>
  *<URLAddress>*www.Xap.com*</URLAddress>*
</URL>

TransmissionData.Destination

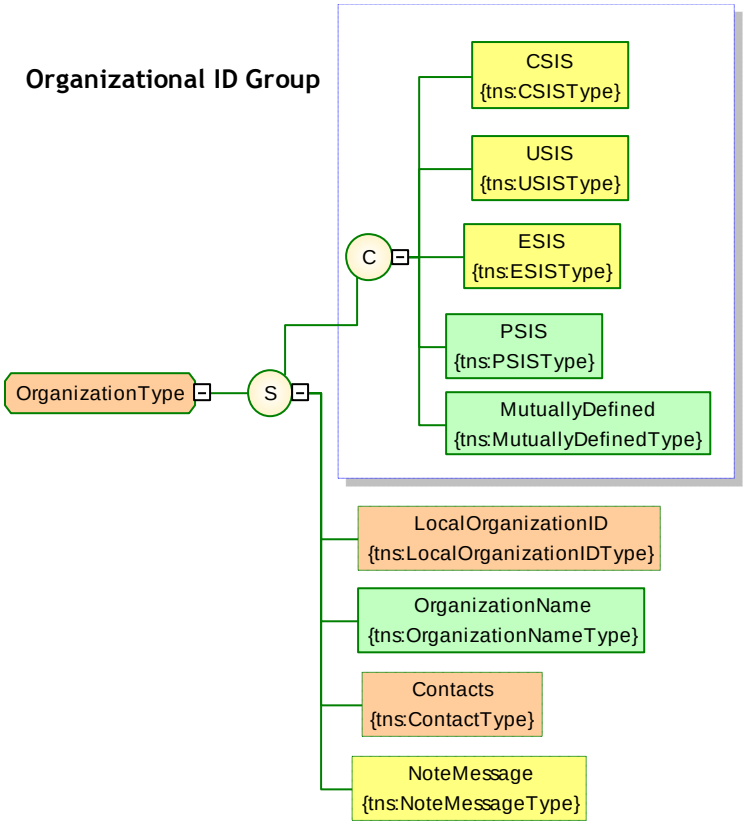


Tag Name	Schema Use	Description	Recommended Use	Format
Organization	Required	Non-person entity such as Organization, Institution, Agency, or Business	Required	minOcc 1 maxOcc 1
Comment: This complex data element will be expanded on page 23.				
NoteMessage	Optional Repeatable	Additional information destination organization	Optional Repeatable – not sent by OUAC	minOcc 0 maxOcc ∞ minLength 1 maxLength 80
Comment: This gives additional information about the destination organization.				

Code Illustration:

<Destination>
  <Organization>
  </Organization>
</Destination>

TransmissionData.Destination.Organization



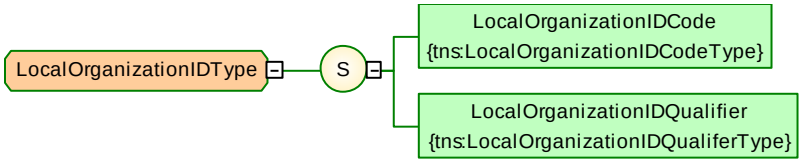
Tag Name	Schema Use	Description	Recommended Use	Format
[OrganizationIDGroup]	Required	Allowable Organization Ids – Exclusive Choice	Required	minOcc 1 maxOcc 1
Comment: [OrganizationIDGroup] is not an XML tag and does not appear in an instance document. It requires the choice of one, and only one, of the following XX code set tags to identify the destination organization.				
CSIS	Required choice	The unique identifier assigned by the Statistics Canada Canadian College Student Information System for each postsecondary data exchange partner.	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
USIS	Required choice	The unique identifier assigned by the Statistics Canada University Student Information System for each postsecondary data exchange partner.	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
ESIS	Required choice	The unique identifier assigned by the Statistics Canada Enhanced Student Information System for each	Not Recommended	minOcc 0 maxOcc 1 minLength 8 maxLength 8

		postsecondary data exchange partner.		
Comment: This identifier is scheduled to be replaced by the PSIS code set, it is a valid choice for schools in Canada, just not recommended.				
PSIS	Required choice	The unique identifier assigned by the Statistics Canada Postsecondary Student Information System for each data postsecondary exchange partner.	Recommended - not sent by OUAC	minOcc 0 maxOcc 1 minLength 8 maxLength 8
Comment: This code set is the preferred code set used to identify postsecondary schools in Canada.				
MutuallyDefined	Required choice	This code set could be used by prior agreement with a previously agreed upon set of trading partners, usually within a province, or within a group of several provinces.	Recommended	minOcc 0 maxOcc 1 minLength 1 maxLength 60
Comment MutuallyDefined would be appropriate to identify a company or other agency which does not have one of the other allowable codes in this choice element. However, it must be interpreted correctly by the destination school or agency.				
Comment: End of OrganizationIDGroup choice set tags				
LocalOrganizationID	Optional	A code set to more specifically identify the destination organization	Optional – not sent by OUAC	minOcc 0 maxOcc 1
Comment: Additional information about the complex data element Local Organization ID will be shown on page 25				
OrganizationName	Optional Repeatable	Name of Non-person entity such as Organization.	Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 60
Comment: This is the name of the receiving company, vendor, school or agency. It is repeatable so that either a longer name can be included, or more specific parts of the organization can be included.				
Contacts	Optional Repeatable	To identify a person or office at the destination agency to which administrative communications should be directed	Recommended	minOcc 0 maxOcc ∞
Comment: Additional information about the complex data element Contacts will be shown on page 26				
NoteMessage	Optional Repeatable	Additional information about the organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 MaxLength 80
Comment: Since an unformatted NoteMessage cannot be automatically processed by the receiving school's computer, the uses of unformatted NoteMessage data elements are not recommended. However, if the sending and receiving schools or agencies have a prior agreement on the format of a NoteMessage, then it can sometimes be useful within a group of users with common interests.				

Code Illustration:

```
<Organization>
  <MutuallyDefined>12345600</MutuallyDefined>
  <OrganizationName>University of Guelph</OrganizationName>
  <Contacts>
  </Contacts>
</Organization>
```

TransmissionData.Destination.Organization.LocalOrganizationID

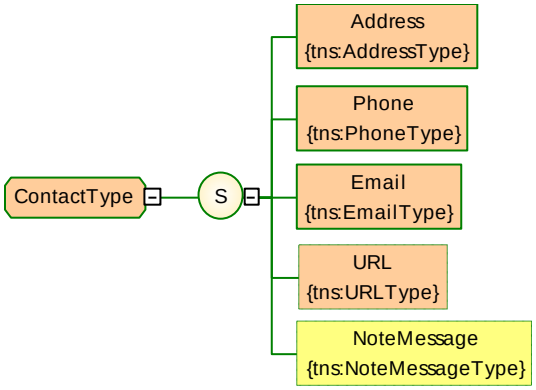


Tag Name	Schema Use	Description	Recommended Use	Format
LocalOrganizationIDCode	Required	The code assigned for the destination organization by the province in the LocalIDQualifier that follows	Required - not sent by OUAC	minOcc 1 maxOcc 1 minLength 1 maxLength 35
Comment**:** This is a required data element only if the Local Organization ID complex data element is sent. This is typically the administrative code assigned by the province to specifically identify an organization in that province.				
LocalOrganizationIDQualifier	Required	This is the province that assigned the Local ID Code above	Required - not sent by OUAC	minOcc 1 maxOcc 1
Comment: This is a required element only if the Local Organization ID data element is sent. This will typically be ON for Ontario. It is further defined in the OUAC System Manual (Element 200).				

Code Illustration:

This element is not sent by OUAC.

TransmissionData.Destination.Organization.Contacts

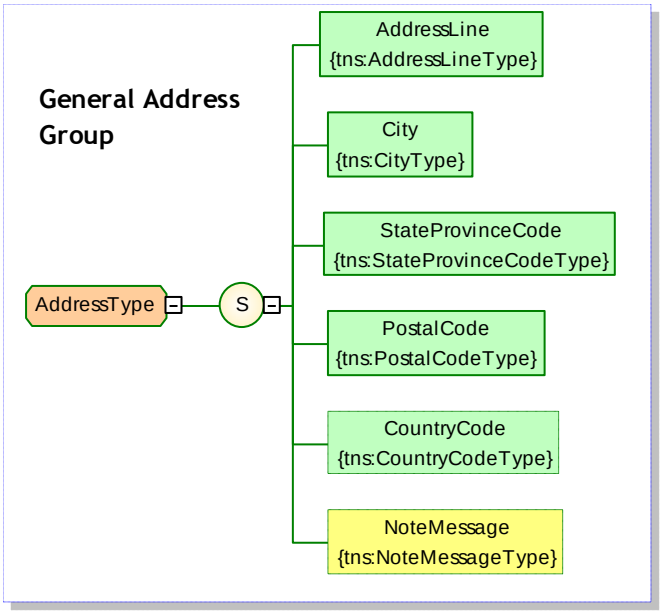


Tag Name	Schema Use	Description	Recommended Use	Format
Address	Optional Repeatable	Address of destination organization	Recommended	minOcc 0 maxOcc ∞
Comment: This complex data element will be expanded on page 27.				
Phone	Optional Repeatable	Phone Number of destination organization	Recommended	minOcc 0 maxOcc ∞
Comment: This complex data element will be expanded on page 29.				
Email	Optional Repeatable	Email address of destination organization	Recommended	minOcc 0 maxOcc ∞
Comment: This complex data element will be expanded on page 30.				
URL	Optional Repeatable	The Uniform Resource Locator of destination organization	Optional	minOcc 0 maxOcc ∞
Comment: This complex data element will be expanded on page 31.				
NoteMessage	Optional Repeatable	Additional information about the contacts at the destination organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80
Comment: This is the contact information included for the destination organization to indicate the intended recipient at the receiving organization. This is the only place in the instance document to include the name, address, and contact information about the organization that is receiving the file.				

Code Illustration:

```
<Contacts>
  <Address>
  </Address>
  <Phone>
  </Phone>
  <Email>
  </Email>
  <URL>
  </URL>
</Contacts>
```

TransmissionData.Destination.Organization.Contacts.Address

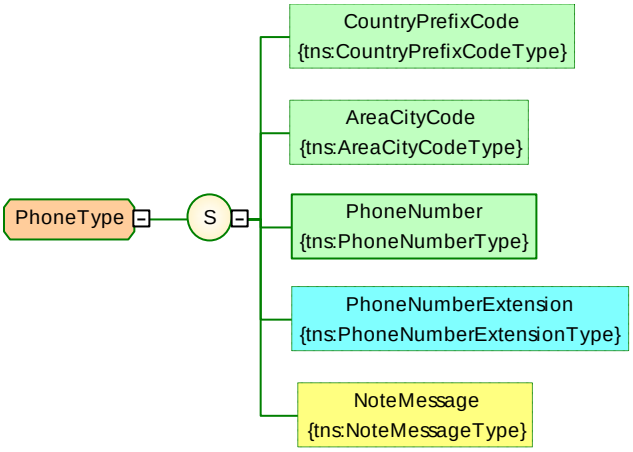


Tag Name	Schema Use	Description	Recommended Use	Format
GeneralAddressGroup	Required	This Address Group for items common to all Addresses	Required	minOcc 1 maxOcc 1
Comment: This group is required in the schema only if you choose to send the address of the contact.				
AddressLine	Required Repeatable	Local delivery information such as street, building number, PO box, or apartment portion of a postal address of a Contact at the Receiving (Destination) Organization	Required	minOcc 1 maxOcc 3 minLength 1 maxLength 40
City	Required	The city portion of the Address of a Contact at the Receiving (Destination) Organization	Required	minOcc 1 maxOcc 1 minLength 2 maxLength 30
StateProvinceCode	Required	Code for US States and Canadian provinces	Required	minOcc 1 maxOcc 1
PostalCode	Required	The postal/zip code portion of the Address	Required	minOcc 1 maxOcc 1 minLength 1 maxLength 17
CountryCode	Optional	Code indicating country. Use ISO 3166-1 alpha-2 standard	Recommended	minOcc 0 maxOcc 1
NoteMessage	Optional Repeatable	Additional information about the addresses of the contacts at the destination school	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Address>
  <AddressLine>50 Stone Road East</AddressLine>
  <City>Guelph</City>
  <StateProvinceCode>ON</StateProvinceCode>
  <PostalCode>N1G2W1</PostalCode>
 <CountryCode>CA</CountryCode>
</Address>
```

TransmissionData.Destination.Organization.Contacts.Phone

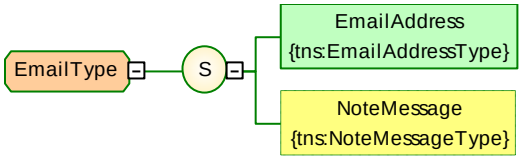


Tag Name	Schema Use	Description	Recommended Use	Format
CountryPrefixCode	Optional	International dialing code	Recommended - not sent by OUAC	minOcc 0 maxOcc 1 minLength 1 maxLength 3
AreaCityCode	Optional	Regional dialing code	Recommended	minOcc 0 maxOcc 1 minLength 1 maxLength 5
PhoneNumber	Required	Telephone Number	Required	minOcc 1 maxOcc 1 minLength 1 maxLength 11
PhoneNumberExtension	Optional	The extended telephone addressing information used in addition to phone number such as PBX extension, a pager PIN, or FAX sub-address	Optional – not sent by OUAC	minOcc 0 maxOcc 1 minLength 1 maxLength 8
NoteMessage	Optional Repeatable	Additional information about the phone number of the contact at the destination organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Phone>
   <AreaCityCode>519</AreaCityCode>
  <PhoneNumber>8231940</PhoneNumber>
</Phone>
```

TransmissionData.Destination.Organization.Contacts.Email

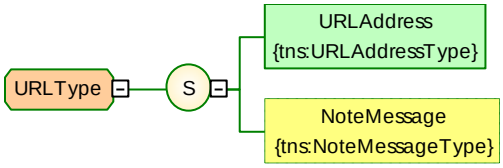


Tag Name	Schema Use	Description	Recommended Use	Format
EmailAddress	Required	The numbers, letters, and symbols used to identify an electronic mail (email) user within a network	Required	minOcc 1 maxOcc 1 minLength 1 maxLength 128
NoteMessage	Optional Repeatable	Additional information about the email address of the contact at the destination organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

<Email>
  *<EmailAddress>*farella@uoguelph.ca*</EmailAddress>*
</Email>

TransmissionData.Destination.Organization.Contacts.URL

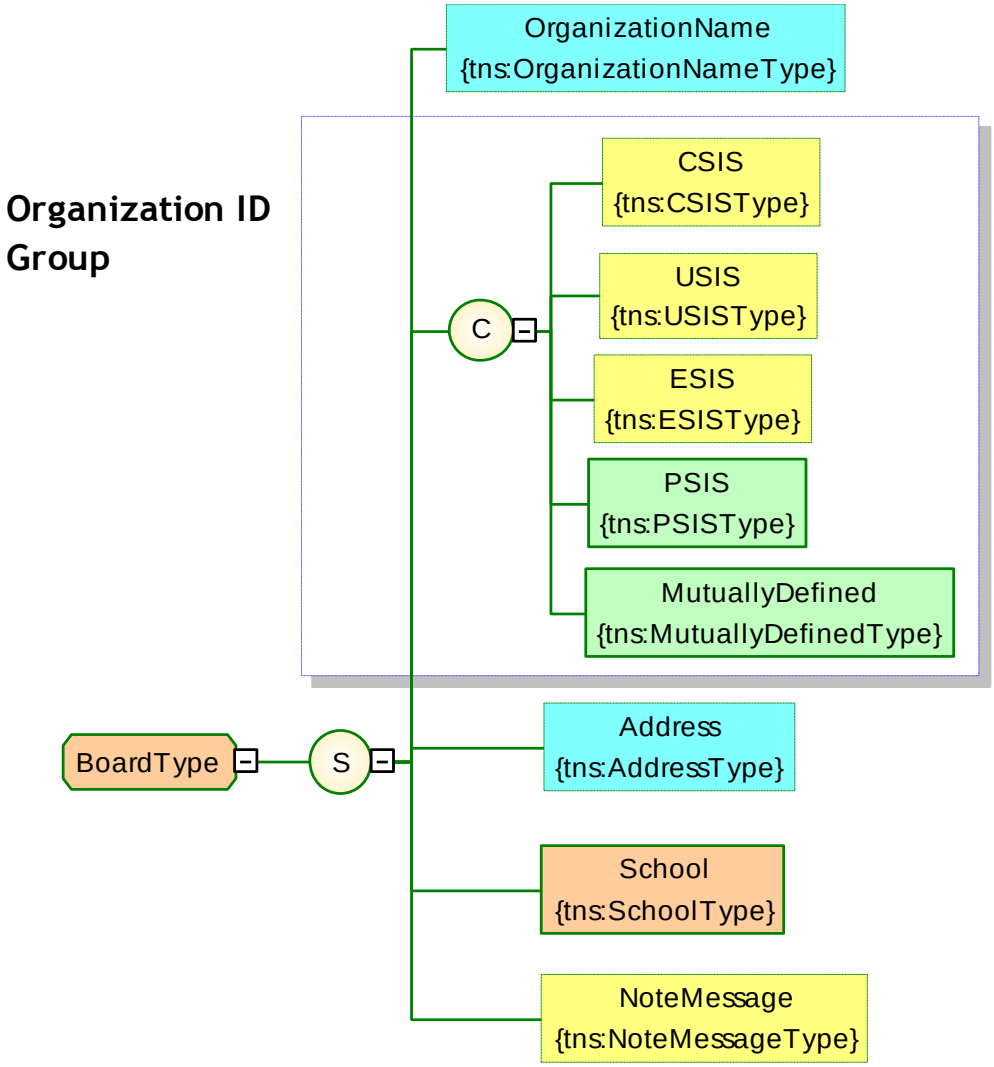


Tag Name	Schema Use	Description	Recommended Use	Format
URLAddress	Required	The Uniform Resource Locator (URL) address of the receiving organization or of a contact at the receiving organization	Required	minOcc 1 maxOcc 1 minLength 1 maxLength 512
NoteMessage	Optional Repeatable	Additional information about the URL address of the destination organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<URL>
  <URLAddress>www.uoguelph.ca</URLAddress>
</URL>
```

Board



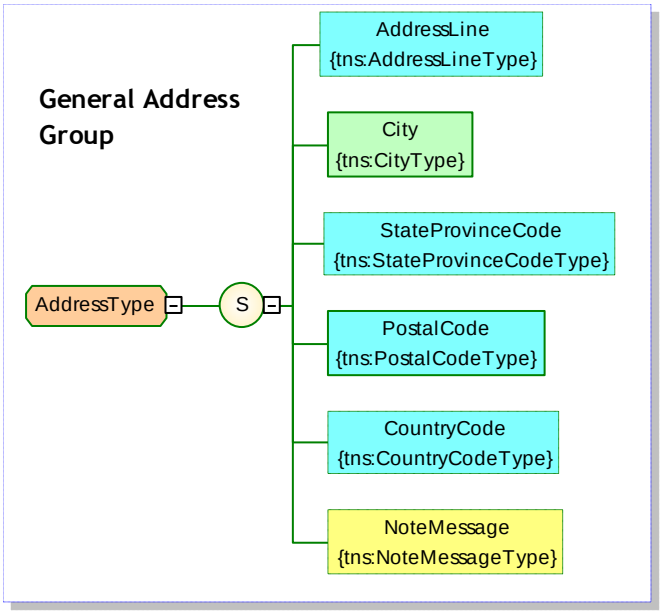
Tag Name	Schema Use	Description	Recommended Use	Format
OrganizationName	Optional	This is the board of the school where the applicant was registered by the end of the application cycle or at the time this data was extracted	Optional – not sent by OUAC	minOcc 0 maxOcc 1 minLength 1 maxLength 60
Comment: This field is optional since it details data that is not included in the HSTAT98P file. The inclusion of this element is consistent with the new PESC standard.				
OrganizationIDGroup	Optional	Allowable Organization Ids – exclusive choice	Optional – not sent by OUAC	minOcc 0 maxOcc 1
Comment: [OrganizationIDGroup] is not an XML tag and does not appear in an instance document. It requires a choice of one, and only one, of the following XX code set tags to identify the board.				

CSIS	Optional Choice	The unique identifier assigned by the Statistics Canada Canadian College Student Information System for each postsecondary data exchange partner	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
USIS	Optional Choice	The unique identifier assigned by Statistics Canada University Student Information System for each data postsecondary exchange partner	Not Recomended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
ESIS	Optional Choice	The unique identifier assigned by Statistics Canada Enhanced Student Information System for each data exchange partner	Not Recommended	minOcc 0 maxOcc 1 minLength 7 maxLength 8
Comment: This identifier is scheduled to be replaced by the PSIS code set, it is a valid choice for schools in Canada, just not recommended.				
PSIS	Optional Choice	The unique identifier assigned by Statistics Canada Postsecondary Student Information System for each data exchange partner	Recommended - not sent by OUAC	minOcc 0 maxOcc 1 minLength 8 maxLength 8
Comment: This code set is the preferred code set to identify postsecondary schools in Canada.				
MutuallyDefined	Required choice	This code set could be used by prior agreement with a previously agreed upon set of trading partners, usually within a province, or within a group of several provinces.	Recommended	minOcc 0 maxOcc 1 minLength 1 maxLength 60
Comment MutuallyDefined would be appropriate to identify a company or other agency which does not have one of the other allowable codes in this choice element. However, it must be interpreted correctly by the destination school or agency.				
Comment: End of OrganizationIDGroup choice set tags				
Address	Optional	This is a complex element containing Address data	Optional – not sent by OUAC	minOcc 0 maxOcc 1
Comment: This data element is not found in the original HSTAT98P file. It is considered optional but is consistent with the PESC standard. This complex data element will be expanded on page 35.				
School	Required Repeatable	This is the school where the applicant was registered by the end of the application cycle or at the time this data was extracted	Required	minOcc 1 maxOcc ∞
Comment: This field is conditional on element Board.School.Applicant.ApplicantType with the enumeration of Secondary. Additional information about school will be shown on page 37.				
NoteMessage	Optional Recommended	Additional information about the board	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Board>
  <MutuallyDefined>12345678</MutuallyDefined>
  <School></School>
</Board>
```

Board.Address

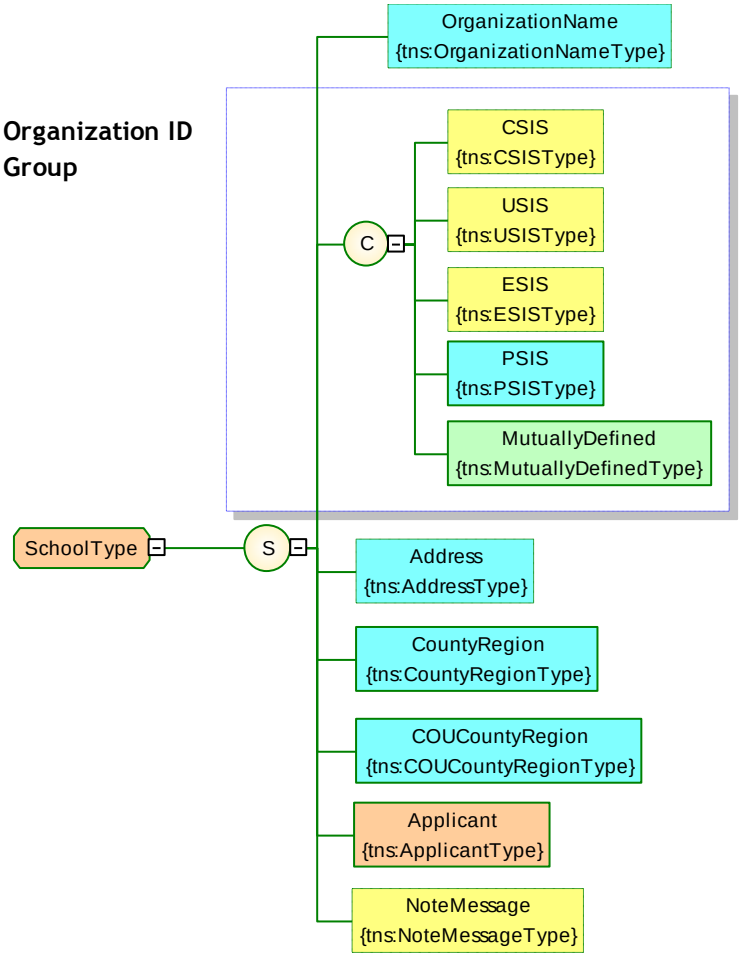


Tag Name	Schema Use	Description	Recommended Use	Format
AddressLine	Optional Repeatable	Local delivery information such as street, building number, PO box, or apartment portion of a postal address of the board	Optional – not sent by OUAC	minOcc 0 maxOcc 3 minLength 1 maxLength 40
City	Required	The city portion of the Address of the board	Required –not sent by OUAC	minOcc 1 maxOcc 1 minLength 2 maxLength 30
StateProvinceCode	Optional	Code for US States and Canadian provinces	Optional – not sent by OUAC	minOcc 0 maxOcc 1
PostalCode	Required	The postal/zip code portion of the Address	Optional – not sent by OUAC	minOcc 0 maxOcc 1 minLength 1 maxLength 17
CountryCode	Optional	Code indicating country. Use ISO 3166-1 alpha-2 standard	Optional – not sent by OUAC	minOcc 0 maxOcc 1
NoteMessage	Optional Repeatable	Additional information about the address of the board	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

This element is not sent by OUAC.

Board.School



Tag Name	Schema Use	Description	Recommended Use	Format
OrganizationName	Optional	This is the school where the applicant was registered by the end of the application cycle or at the time this data was extracted	Optional – not sent by OUAC	minOcc 0 maxOcc 1 minLength 1 maxLength 60
Comment: This field is optional since it details data that is not included in the HSTAT98P file. The inclusion of this element is consistent with the new PESC standard.				
OrganizationIDGroup	Optional	Allowable Organization Ids – exclusive choice	Optional – not sent by OUAC	minOcc 0 maxOcc 1
Comment: [OrganizationIDGroup] is not an XML tag and does not appear in an instance document. It requires a choice of one, and only one, of the following XX code set tags to identify the school.				
CSIS	Optional Choice	The unique identifier assigned by the Statistics Canada Canadian College Student Information	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6

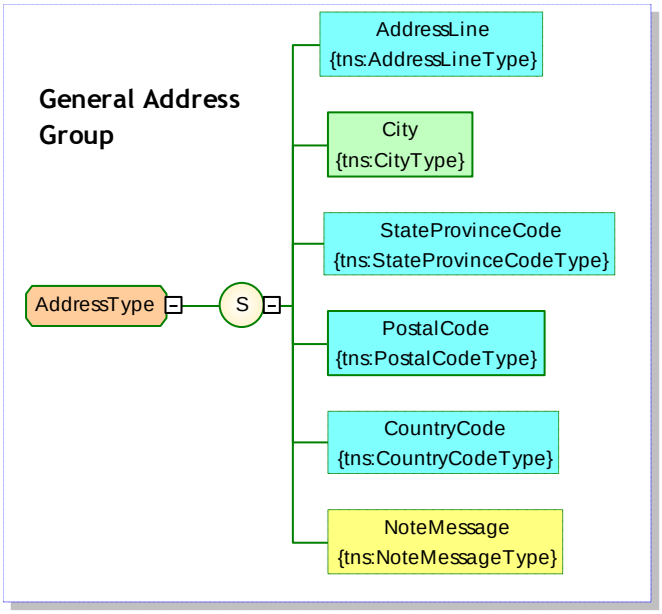
		System for each postsecondary data exchange partner		
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
USIS	Optional Choice	The unique identifier assigned by Statistics Canada University Student Information System for each data postsecondary exchange partner	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
ESIS	Optional Choice	The unique identifier assigned by Statistics Canada Enhanced Student Information System for each data exchange partner	Not Recommended	minOcc 0 maxOcc 1 minLength 7 maxLength 8
Comment: This identifier is scheduled to be replaced by the PSIS code set, it is a valid choice for schools in Canada, just not recommended.				
PSIS	Optional Choice	The unique identifier assigned by Statistics Canada Postsecondary Student Information System for each data exchange partner	Optional – not sent by OUAC	minOcc 0 maxOcc 1 minLength 8 maxLength 8
Comment: This code set is the preferred code set to identify postsecondary schools in Canada.				
MutuallyDefined	Required choice	This code set could be used by prior agreement with a previously agreed upon set of trading partners, usually within a province, or within a group of several provinces.	Recommended	minOcc 0 maxOcc 1 minLength 1 maxLength 60
Comment MutuallyDefined would be appropriate to identify a company or other agency which does not have one of the other allowable codes in this choice element. However, it must be interpreted correctly by the destination school or agency.				
Comment: End of OrganizationIDGroup choice set tags				
Address	Optional	This is a complex element containing Address data	Optional	minOcc 0 maxOcc 1
Comment: This data element is not found in the original HSTAT98P file. It is considered optional but is consistent with the PESC standard. This complex data element will be expanded on page 40.				
CountyRegion	Required	A code to identify the region/county that the Board represents	Conditional	minOcc 1 maxOcc 1 minLength 2 maxLength 2
Comment: This field is conditional on element Board.School.OrganizationId with the presence of an OrganizationID (then mandatory). This field element matches the SBREGN field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 210) and in Appendix A.35.				
COUCountyRegion	Required	This field has the same codes as CountyRegion (SBREGN) except for further breakdown of school boards in Metro Toronto	Conditional	minOcc 1 maxOcc 1 minLength 2 maxLength 2

Comment: This field is conditional on element Board.School.OrganizationId with the presence of an OrganizationID (then mandatory). This field element matches the SBCNTY field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 210).				
Applicant	Repeatable	Body of document. One segment per student. It summarizes the person(s) whom have applied for admission to postsecondary school and the responses received.	Required	minOcc 1 maxOcc ∞
Comment: Detailed information about this complex element to follow on page 42				
NoteMessage	Optional Recommended	Additional information about the school	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<School>
  <MutuallyDefined>12345690</MutuallyDefined>
  <Address></Address>
 <CountyRegion>12</CountyRegion>
 <COUCountyRegion>12</COUCountyRegion>
 <Applicant></Applicant>
</School>
```

Board.School.Address

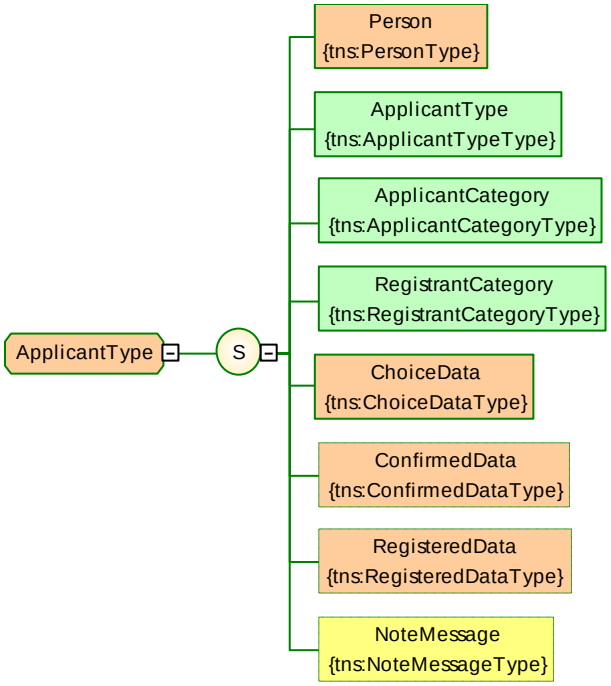


Tag Name	Schema Use	Description	Recommended Use	Format
AddressLine	Optional Repeatable	Local delivery information such as street, building number, PO box, or apartment portion of a postal address of the school	Optional – not sent by OUAC	minOcc 0 maxOcc 3 minLength 1 maxLength 40
City	Required	The city portion of the Address of a school	Required	minOcc 1 maxOcc 1 minLength 2 maxLength 30
StateProvinceCode	Optional	Code for US States and Canadian provinces	Optional – not sent by OUAC	minOcc 0 maxOcc 1
PostalCode	Required	The postal/zip code portion of the Address	Optional	minOcc 1 maxOcc 1 minLength 1 maxLength 17
CountryCode	Optional	Code indicating country. Use ISO 3166-1 alpha-2 standard	Optional – not sent by OUAC	minOcc 0 maxOcc 1
NoteMessage	Optional Repeatable	Additional information about the address of the school	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration

```
<Address>
   <City>Guelph</City>
   <PostalCode>N1E4H1</PostalCode>
</Address>
```

Board.School.Applicant



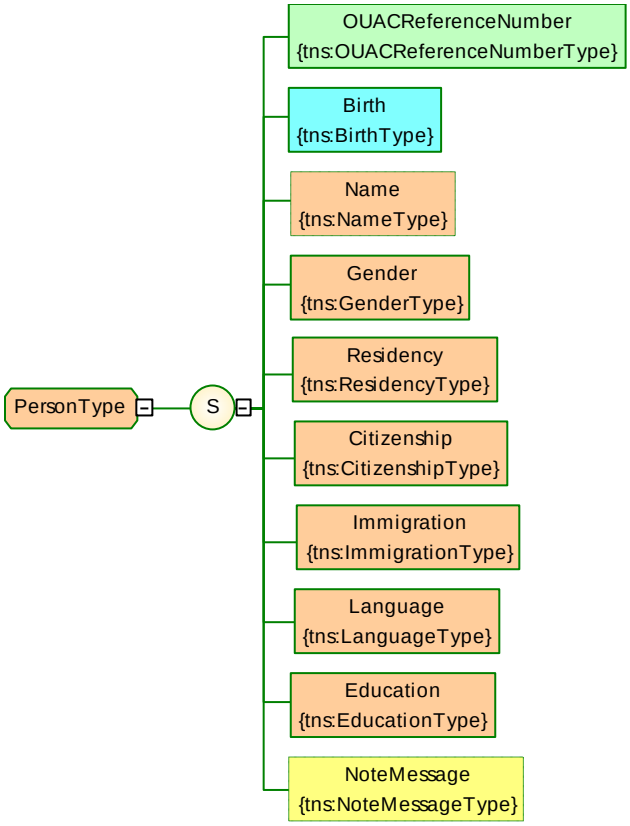
Tag Name	Schema Use	Description	Recommended Use	Format
Person	Required	Information about the person. This element includes secondary school academic data (where applicable).	Required	minOcc 1 maxOcc 1
Comment: Additional information about the person will be shown on page 44.				
ApplicantType	Required	Identifies whether an applicant is a secondary school applicant who has applied using the OUAC 101 form or a non-secondary applicant who used the OUAC 105 form	Required	minOcc 1 maxOcc 1
Comment: This field element matches the APPTYP field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
ApplicantCategory	Required	Categorizes applicants according to whether or not they would be selected and appear as a COU applicant in the annual COU report, "Application Statistics", or as an OUAC Applicant in the annual OUAC "Admission Data System Report".	Required	minOcc 1 maxOcc 1
Comment: This field element matches the APPCAT field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
RegistrantCategory	Required	Category of Registrant	Required	minOcc 1 maxOcc 1
Comment: This field element matches the REGCAT field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				

ChoiceData	Optional	This category carries the applicant's university and program choices.	Optional	minOcc 0 maxOcc ∞
Comment: Additional Information can be found on page 61.				
ConfirmedData	Optional	This category contains the data pertaining to an applicant's confirmed choice.	Optional	minOcc 0 maxOcc 1
Comment: Additional information can be found on page 71.				
RegisteredData	Optional	This category contains the data pertaining to an applicant's registered choice.	Optional	minOcc 0 maxOcc 1
Comment: Additional information can be found on page 78.				
NoteMessage	Optional Repeatable	Additional information about the Applicant	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Applicant>
  <Person>
  </Person>
  <ApplicantType>
  </ApplicantType>
  <ApplicantCategory>
  </ApplicantCategory>
  <RegistrantCategory>
  </RegistrantCategory>
  <ChoiceData>
  </ChoiceData>
  <ConfirmedData>
  </ConfirmedData>
  <RegisteredData>
  </RegisteredData>
</Applicant>
```

Board.School.Applicant.Person



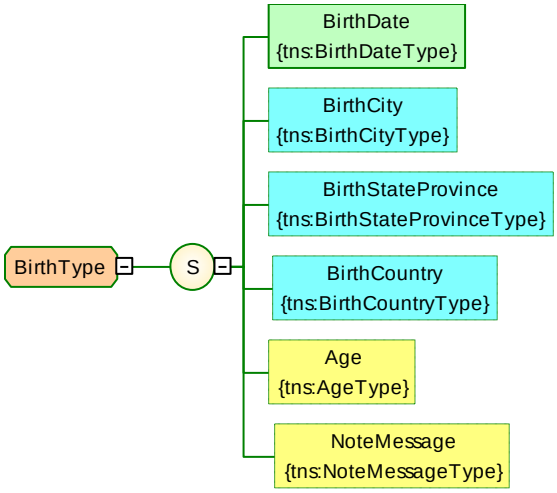
Tag Name	Schema Use	Description	Recommended Use	Format
OUACReferenceNumber	Required	Sequence Number	Recommended	minOcc 1 maxOcc 1 minLength 6 maxLength 6
Comment: This field element matches the SEQNO field of the HSTAT98P.				
Birth	Required	Information about the birth of the applicant.	Conditional	minOcc 1 maxOcc 1
Comment: Additional information about birth will be shown on page 46. Suggested that this be dependent on Applicant.ApplicantType (only for Secondary or Non-Secondary Applicants).				
Name	Optional	The name of the applicant.	Not Recommended	minOcc 0 maxOcc 1
Comment: Additional information about the applicant's name will be shown on page 48. Since this is a depersonalized file this field should always remain empty. Recommend that it be removed entirely.				
Gender	Required	The sex or gender of the applicant	Required	minOcc 1 maxOcc 1
Comment: Additional information about gender will be shown on page 50				
Residency	Required	Information about the residency status and location of the applicant	Required	minOcc 1 maxOcc 1
Comment: Additional information about residency will be shown on page 51.				

Citizenship	Required	Information about the citizenship status of the applicant	Required	minOcc 1 maxOcc 1
Comment: Additional information about citizenship will be shown on page 53.				
Immigration	Required	This is the current (or requested) immigration status in Canada of the applicant as reported by the applicant or school	Required	minOcc 1 maxOcc 1
Comment: Additional information about immigration will be shown on page 54.				
Language	Required	Information about the ability of the person to speak, read and understand languages other than the primary one used in their home country	Required	minOcc 1 maxOcc 1
Comment: Additional information about language will be shown on page 55.				
Education	Required	The amount of formal education which the applicant has received	Required	minOcc 1 maxOcc 1
Comment: Additional information about education will be shown on page 56.				
NoteMessage	Optional Not Recommended	Additional information about the applicant as a person	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Person>
  <OUACReferenceNumber >123456</OUACReferenceNumber>
  <Birth>
  </Birth>
  <Gender>
  </Gender>
  <Residency>
  </Residency>
  <Citizenship>
  </Citizenship>
  <Immigration>
  </Immigration>
  <Language>
  </Language>
  <Education>
  </Education>
</Person>
```

Board.School.Applicant.Person.Birth

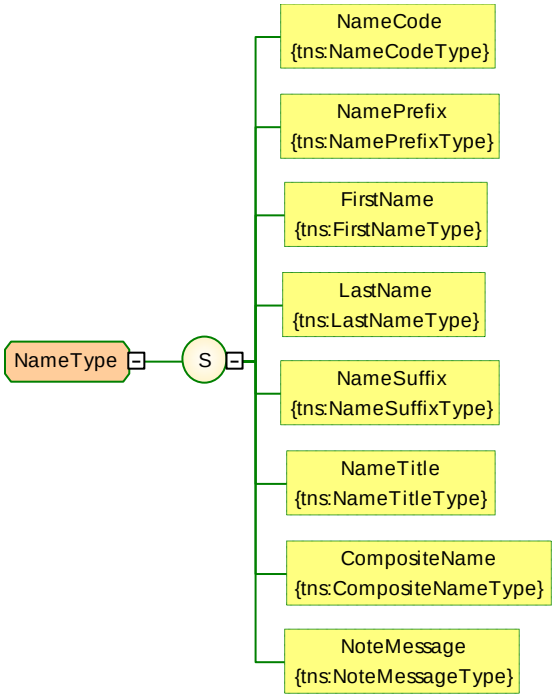


Tag Name	Schema Use	Description	Recommended Use	Format
BirthDate	Required	Date of Birth	Recommended	minOcc 1 maxOcc 1 xs:date Format is ccyy-mm-dd
Comment: This field element matches the BIRTHD field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 240). When a BirthDate element is "Not Reported" it will display an empty element.				
BirthCity	Conditional	The city in which the applicant was born	Optional – not sent by OUAC	minOcc 0 maxOcc 1 minLength 1 maxLength 30
Comment: This element is condtional on BirthDate.				
BirthStateProvince	Conditional	The state, province, or extra-state jurisdiction in which the applicant was born	Optional – not sent by OUAC	minOcc 0 maxOcc 1
Comment: This element is condtional on BirthDate.				
BirthCountry	Conditional	The name of the country in which the applicant was born. Use ISO 3 166-1 alpha-2 standard	Optional – not sent by OUAC	minOcc 0 maxOcc 1
Comment: This element is condtional on BirthDate.				
Age	Condtional	An integer that specifies how old an applicant was at time of application	Not recommended	minOcc 1 maxOcc 1 Format is an integer
Comment: This element is condtional on BirthDate. The use of the element is not recommended since the age can be derived from the ReferenceYear and BirthDate element. This field element matches the AGE field of the HSTAT98P. When a BirthDate element is "Not Reported" it will display an empty element.				
NoteMessage	Optional	Additional information about the birth of the applicant	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Birth>
  <BirthDate>1987-07-20</BirthDate>
   <Age22</Age>
</Birth>
```

Board.School.Applicant.Person.Name



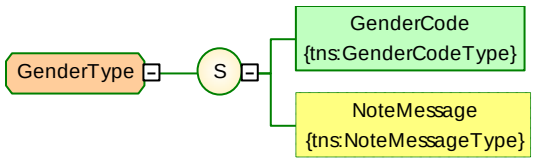
Tag Name	Schema Use	Description	Recommended Use	Format
NameCode	Optional	A code that indicates the type of name that is being described	Not Recommend	minOcc 0 maxOcc 1
NamePrefix	Optional	An honorific title or form of address that precedes the name	Not Recommended	minOcc 0 maxOcc 1 minLength 1 maxLength 30
Comment: The honorific prefix which includes such data as “Dr.”, “Professor”, “Miss”, etc. It is highly recommended not to use this data element				
FirstName	Optional	The first name by which a person is known	Not Recommended	minOcc 0 maxOcc 1 minLength 1 maxLength 35
LastName	Optional	The last name by which a person is known	Not Recommended	minOcc 0 maxOcc 1 minLength 1 maxLength 35
NameSuffix	Optional	The expression or an individual’s generation within a family	Not Recommended	minOcc 0 maxOcc 1
NameTitle	Optional	An honorific title or credential that follows the name	Not Recommended	minOcc 0 maxOcc 1 minLength 1 maxLength 30
CompositeName	Optional	The full name of the person in LastName (space) Suffix	Not Recommended	minOcc 0 maxOcc 1

		(comma) FirstName (space). A comma would be included after last name or NameSuffix		minLength 1 maxLength 140
Comment: The use of the composite format for student name is discouraged. It is much easier for the receiving organization to process the individual name parts into its data base to process a composite name.				
NoteMessage	Optional Repeatable	Additional information about the applicant's name	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

This element is not sent by OUAC.

Board.School.Applicant.Person.Gender

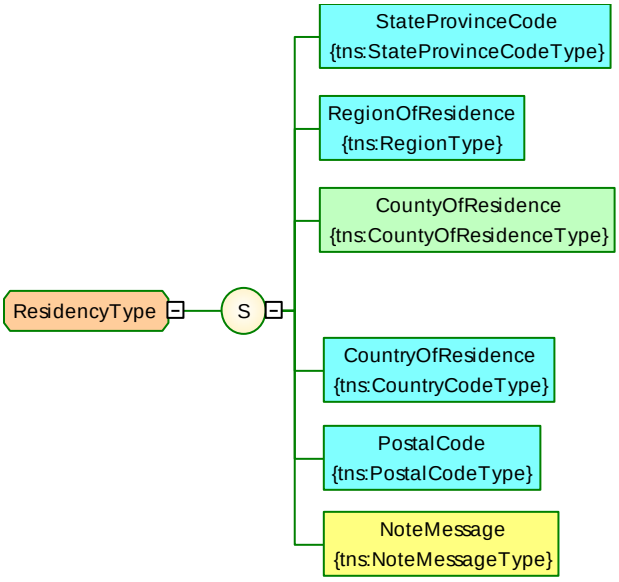


Tag Name	Schema Use	Description	Recommended Use	Format
GenderCode	Required	The gender of the applicant	Required	minOcc 1 maxOcc 1
Comment: This field element matches the SEX field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 230).				
NoteMessage	Optional Repeatable	Additional information about the Gender of the Applicant	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

<Gender>
  *<GenderCode>*Male*</GenderCode>*
</Gender>

Board.School.Applicant.Person.Residency



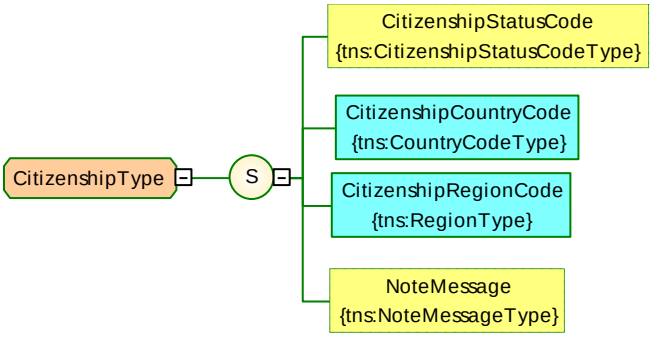
Tag Name	Schema Use	Description	Recommended Use	Format
StateProvinceCode	Required	The state, province, or extra-state jurisdiction of the applicant's home address at the time of application	Optional - sent by OUAC	minOcc 0 maxOcc 1
Comment: This field element matches the PRORES field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 200)				
RegionOfResidence	Required	Region of an Applicant's Home or Permanent address	Conditional	minOcc 0 maxOcc 1
Comment: This field is conditional on element Applicant.ApplicantType with the enumerations of Secondary or NonSecondary. This field element matches the RGNRES field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
CountyOfResidence	Optional	The county of the applicant 's home address at the time of application	Required	minOcc 0 maxOcc 1 minLength 1 maxLength 50
Comment: This field element matches the COURES field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 210)				
CountryOfResidence	Required	The country of the applicant's home address at the time of application	Conditional	minOcc 0 maxOcc 1
Comment: This field is conditional on element Applicant.ApplicantType with the enumerations of Secondary or NonSecondary. This field element matches the CUNRES field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 190)				
PostalCode	Required	The Canadian postal code /U.S. zip code of the applicant's home or permanent residence address	Optional – sent by OUAC	minOcc 0 maxOcc 1 minLength 1 maxLength 17
Comment: This field element matches the HPOST field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 150)				

NoteMessage	Optional Repeatable	Additional information about the residency status of the applicant	Not Recommended	minOcc maxOcc minLength maxLength	0 ∞ 1 80

Code Illustration:

```
<Residency>
  <StateProvinceCode>AB</StateProvinceCode>
  <RegionOfResidence></RegionOfResidence>
   <CountyOfResidence>NotReported</CountyOfResidence>
   <CountryOfResidence>CA</CountryOfResidence>
   <PostalCode>T3E1A2</PostalCode>
</Residency>
```

Board.School.Applicant.Person.Citizenship

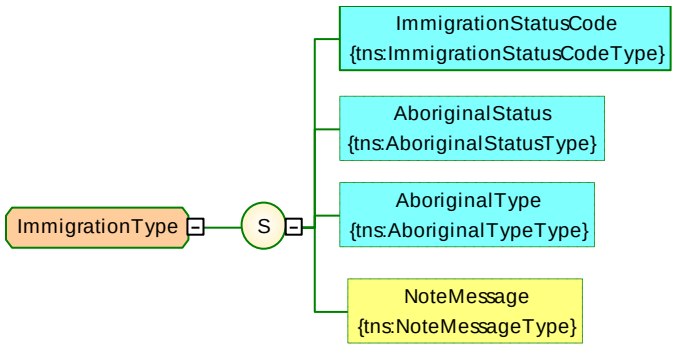


Tag Name	Schema Use	Description	Recommended Use	Format
CitizenshipStatusCode	Optional	Citizenship status of the applicant	Not Recommended	minOcc 0 maxOcc 1
CitizenshipCountryCode	Required	The country of citizenship for the applicant	Conditional	minOcc 0 maxOcc 1
Comment: This field is conditional on element Applicant.ApplicantType with the enumerations of Secondary or NonSecondary. This field element matches the CUNCIT field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 170)				
CitizenshipRegionCode	Required	Geographic Region of the country of citizenship	Conditional	minOcc 0 maxOcc 1
Comment: This field is conditional on element Applicant.ApplicantType with the enumerations of Secondary or NonSecondary. This field element matches the RGNCIT field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
NoteMessage	Optional Repeatable	Additional information about the citizenship status of the applicant	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

<Citizenship>
*<CitizenshipCountryCode>*BR*</CitizenshipCountryCode>*
<CitizenshipRegionCode>Canada</CitizenshipRegionCode>
</Citizenship>

Board.School.Applicant.Person.Immigration

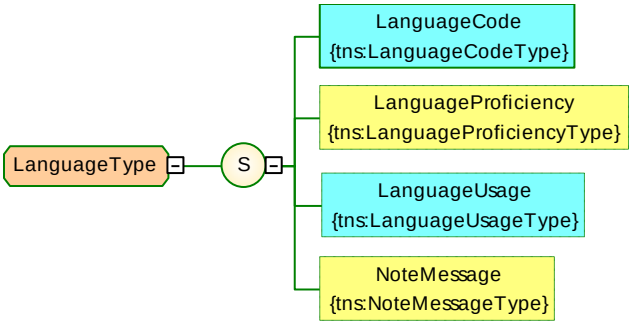


Tag Name	Schema Use	Description	Recommended Use	Format
ImmigrationStatusCode	Required	Status in Canada	Conditional	minOcc 0 maxOcc 1
Comment: This field is conditional on element Applicant.ApplicantType with the enumerations of Secondary or NonSecondary. This field element matches the IMSTAT field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 220).				
AboriginalStatus	Optional	Indication of aboriginal status.	Conditional	minOcc 0 maxOcc 1
Comment: This field is not currently available in the HSTAT98P file. This field element matches the ABORG field and is further defined in the OUAC System Manual (Element 2554)				
AboriginalType	Optional	Indication of the aboriginal type	Conditional	minOcc 0 maxOcc 1
Comment: This field is not currently available in the HSTAT98P file. This field element matches the ABTYP field and is further defined in the OUAC System Manual (Element 2555)				
NoteMessage	Optional Repeatable	Additional information concerning immigration	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Immigration>
  <ImmigrationStatusCode>NativeCanCitizen</ImmigrationStatusCode>
  <AboriginalStatus>Yes</AboriginalStatus>
  <AboriginalType>FirstNations</AboriginalType>
</Immigration>
```

Board.School.Applicant.Person.Language

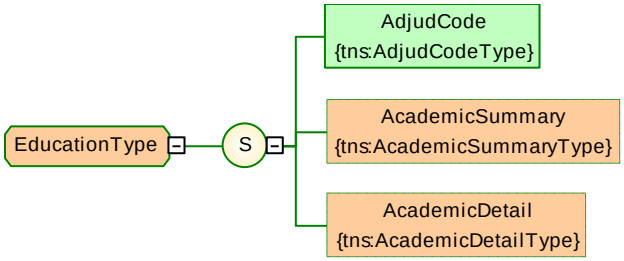


Tag Name	Schema Use	Description	Recommended Use	Format
LanguageCode	Required	Language First spoken and still understood	Conditional	minOcc 0 maxOcc 1
Comment: This field is conditional on element Applicant.ApplicantType with the enumerations of Secondary or NonSecondary. This field element matches the TONGUE field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 270).				
LanguageProficiency	Optional	The proficiency level of the applicant in this language	Not Recomended	minOcc 0 maxOcc 1
Comment: This field is optional since it details data that is not included in the HSTAT98P file. The inclusion of this element is consistent with the new PESC standard.				
LanguageUsage	Conditional	The type of use of this language in which the student claims proficiency	Conditional	minOcc 0 maxOcc ∞
Comment: This field is conditional on element Applicant.Person.Language.LanguageCode. The value will predominantly default to FirstSpokenLanguage. The inclusion of this element is consistent with the new PESC standard.				
NoteMessage	Optional Repeatable	Additonal information about the proficiency of the applicant in this language	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Language>
  <LanguageCode>FRE</LanguageCode>
  <LanguageUsage>FirstSpokenLanguage</LanguageUsage>
</Language>
```

Board.School.Applicant.Person.Education

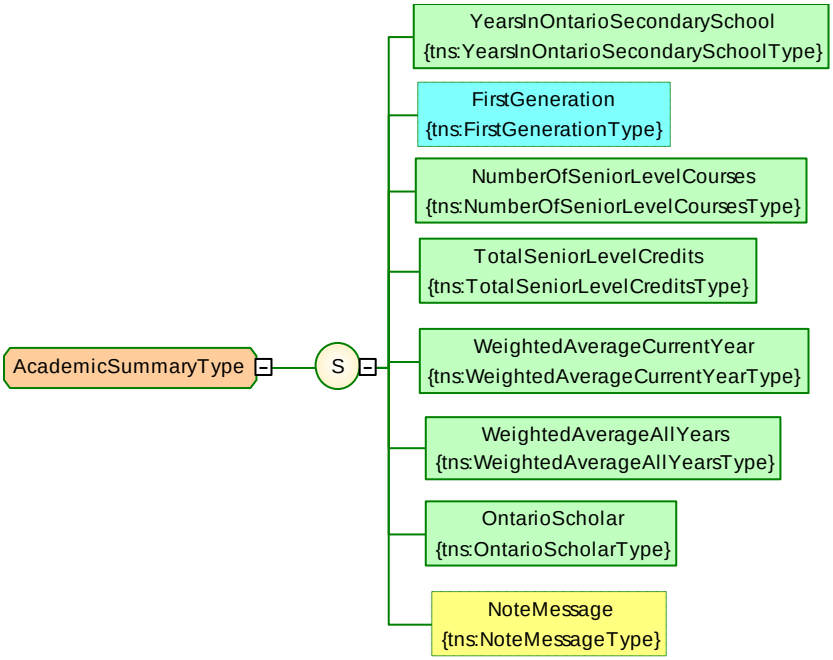


Tag Name	Schema Use	Description	Recommended Use	Format
AdjudCode	Optional	The highest level of education reported by the applicant	Required	minOcc 0 maxOcc 1 minLength 3 maxLength 3
Comment: This field element matches the ADJUD field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 340). The codes entered here will be based on the codes listed in Appendix A.05 of the OUAC System Manual				
AcademicSummary	Conditional Repeatable	Used to send summary totals for all the work taken at a certain academic level	Conditional	minOcc 0 maxOcc 1
Comment: This field is conditional on element Applicant.ApplicantType with the enumeration of Secondary. Additional information about AcademicSummary will be shown on page 57.				
AcademicDetail	Conditional	Used to send more detailed data concerning the courses an applicant has taken	Recommended	minOcc 0 maxOcc 1
Comment: This field is conditional on element Applicant.ApplicantType with the enumeration of Secondary. Additional information about AcademicDetail will be shown on page 59.				

Code Illustration:

```
<Education>
  <AdjudCode></AdjudCode>
  <AcademicSummary>
  </AcademicSummary>
  <AcademicDetail>
  </AcademicDetail>
</Education>
```

Board.School.Applicant.Person.Education.AcademicSummary



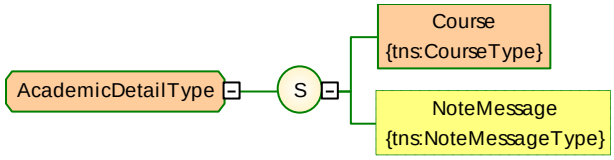
Tag Name	Schema Use	Description	Recommended Use	Format
YearsInOntarioSecondarySchool	Required	The total number of complete years at a secondary school in Ontario	Required	minOcc 1 maxOcc 1 Format is an integer
Comment: This field element matches the YRSSCH field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 540).				
FirstGeneration	Optional	Indication if either of their parents/guardians have attended a university or college	Optional	minOcc 0 maxOcc 1
Comment: This field is not currently available in the HSTAT98P file. This field element matches the FIRSTGEN field and is further defined in the OUAC System Manual (Element 3337).				
NumberOfSeniorLevelCourses	Required	The number of Senior Level courses reported	Required	minOcc 1 maxOcc 1 Format is a decimal
Comment: This field element matches the CNTCRS field of the HSTAT98P.				
TotalSeniorLevelCredits	Required	The number of Senior Level credits reported	Required	minOcc 1 maxOcc 1 Format is a decimal
Comment: This field element matches the TOTCRR field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 572).				
WeightedAverageCurrentYear	Required	The weighted average of the best 6 Senior Level current year finals reported	Required	minOcc 1 maxOcc 1 xs:decimal NNN.NN
Comment: No longer available starting with the 2017 cycle.				

WeightedAverageAllYears	Required	The weighted average of the best 6 Senior Level finals reported	Required	minOcc 1 maxOcc 1 xs: decimal NNN.N
Comment: This element records the weighted average of the best 6 OAC or Grade 12 U/M finals reported (includes applicable course from any year). If less than 6 applicable courses reported or not a secondary school applicant this field wil be displayed as 00.0. This field element matches the AVERG2 field of the HSTAT98P				
OntarioScholar	Required	Element records whether the applicant was granted an Ontario Scholar designation	Required	minOcc 1 maxOcc 1
Comment: No longer available after 1998.				
NoteMessage	Optional Repeatable	Additional information about Academic Summary	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<AcademicSummary>
  <YearsInOntarioSecondarySchool>4</YearsInOntarioSecondarySchool>
  <FirstGeneration>Yes</FirstGeneration>
  <NumberOfSeniorLevelCourses>6</NumberOfSeniorLevelCourses>
  <TotalSeniorLevelCredits>8.25</TotalSeniorLevelCredits>
  <WeightedAverageCurrentYear>92.1</WeightedAverageCurrentYear>
  <WeightedAverageAllYears>87.3</WeightedAverageAllYears>
  <OntarioScholar>Yes</OntarioScholar>
</AcademicSummary>
```

Board.School.Applicant.Person.Education.AcademicDetail

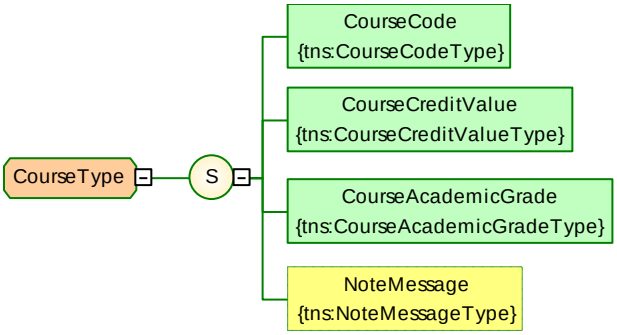


Tag Name	Schema Use	Description	Recommended Use	Format
Course	Required Repeatable	Academic coursework	Required	minOcc 1 maxOcc ∞
Comment: This element will be expanded on page 60.				
NoteMessage	Optional Repeatable	Additional information concerning the Applicant's specific Academic record	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<AcademicDetail>
  <Course>
  </Course>
</AcademicDetail>
```

Board.School.Applicant.Person.Education.AcademicDetail.Course

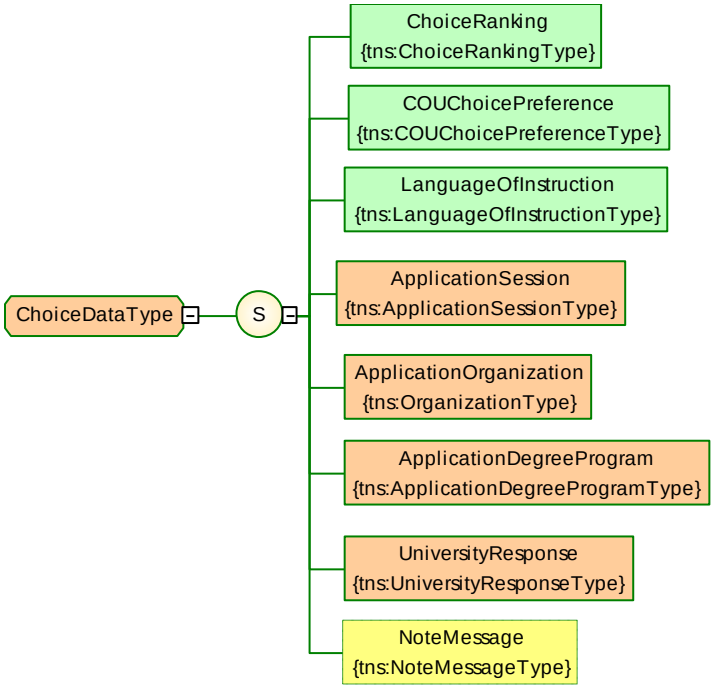


Tag Name	Schema Use	Description	Recommended Use	Format
CourseCode	Required	Ministry –assigned number for Ontario secondary school courses	Required	minOcc 1 maxOcc 1 minLength 5 maxLength 6
Comment: This field element matches the CRS1 field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 580), specifically in Appendix B.39 and A.44.				
CourseCreditValue	Required	Number indicating the credit value the course is worth	Required	minOcc 1 maxOcc 1 xs:decimal
Comment: This field element matches the CRD1 field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 610).				
CourseAcademicGrade	Required	The final grade awarded in the course	Required	minOcc 1 maxOcc 1
Comment: This field element matches the MRK1 field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 620).				
NoteMessage	Optional Repeatable	Additional information about academic course	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<Course>
  <CourseCode>ICS010</CourseCode>
  <CourseCreditValue>0.75</CourseCreditValue>
  <CourseAcademicGrade>080</CourseAcademicGrade>
</Course>
```

Board.School.Applicant.ChoiceData



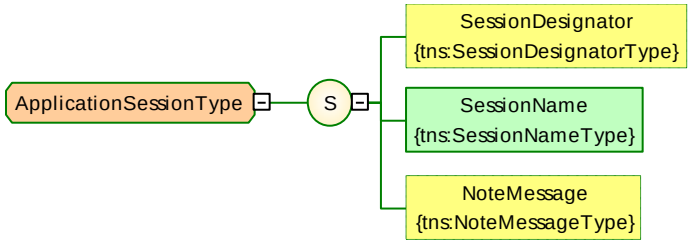
Tag Name	Schema Use	Description	Recommended Use	Format
ChoiceRanking	Required	Indicates the ranking of the university/program selections as provided by the applicant	Required	minOcc 1 maxOcc 1 Format is an integer
Comment: This field element matches the CHS1 field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 370).				
COUChoicePreference	Required	Designates the COU choice preference on the application form	Required	minOcc 1 maxOcc 1 Format is an integer
Comment: The applicant may designate as a valid choice an application for preliminary year/diploma, advanced standing, part-time or non-fall term. In determining the COU desired choice these applications are eliminated, and any following choice numbers are "bumped up". This field element matches the CHSC1 field of the HSTAT98P.				
LanguageOfInstruction	Required	The language in which the applicant wishes to study	Required	minOcc 1 maxOcc 1
Comment: Comment: This field is not currently available in the HSTAT98P file (E=English, F=French, B=Both). It is further defined in the OUAC System Manual (Element 450).				
ApplicationSession	Required	The specific term or session for which the applicant is applying	Required	minOcc 1 maxOcc 1
Comment: This complex data element will be expanded on page 63.				
ApplicationOrganization	Required	The specific organization within the system to which the applicant is applying	Required	minOcc 1 maxOcc 1
Comment: This complex data element will be expanded on page 64.				

ApplicationDegreeProgram	Required	The specific academic program for which the applicant is applying	Required	minOcc 1 maxOcc 1
Comment: This complex data element will be expanded on page 67.				
UniversityResponse	Optional	The University's response to the applicant's request	Required	minOcc 0 maxOcc 1
Comment: This complex data element will be expanded on page 69.				
NoteMessage	Optional	Uncoded text information about this choice	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<ChoiceData>
  <ChoiceRanking>1</ChoiceRanking>
  <COUChoicePreference>1</COUChoicePreference>
  <LanguageOfInstruction>English</LanguageOfInstruction>
  <ApplicationSession>
  </ApplicationSession>
  <ApplicationOrganization>
  </ApplicationOrganization>
  <ApplicationDegreeProgram>
  </ApplicationDegreeProgram>
  <UniversityResponse>
  </UniversityResponse>
</ChoiceData >
```

Board.School.Applicant.ChoiceData.ApplicationSession

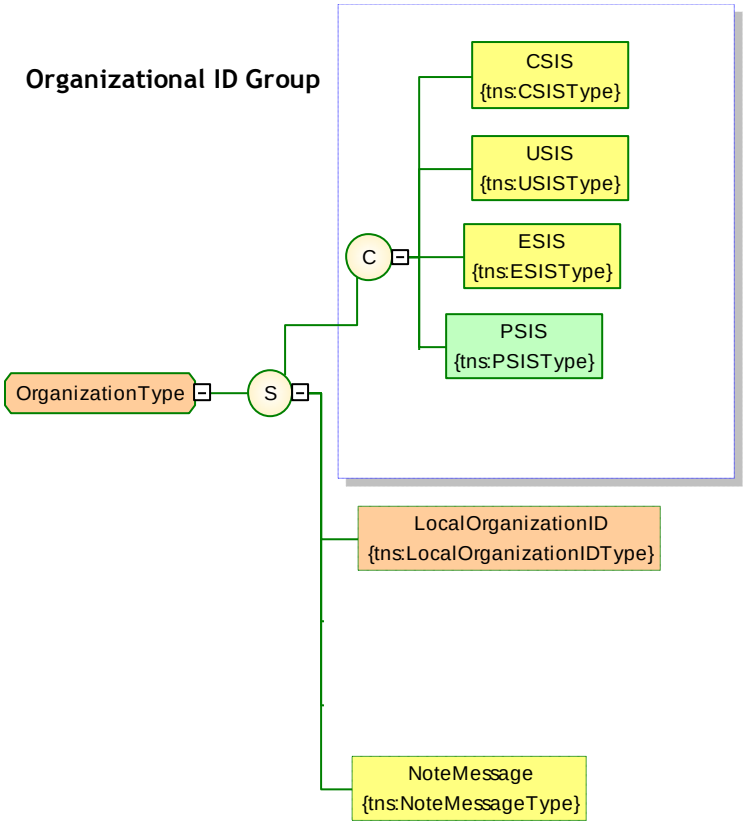


Tag Name	Schema Use	Description	Recommended Use	Format
SessionDesignator	Optional	The academic session to which the applicant is applying	Not Recommended	minOcc 1 maxOcc 1 YearMonth (ccyy-mm)
Comment: The session designator is used to indicate the starting year and month of major academic terms within the school's calendar. For example, a typical fall term would begin in August or September. So, for a fall term that begins in September of the year 2011, the value of this field would be "2011-09".				
SessionName	Required	Name of session	Required	minOcc 1 maxOcc 1
Comment: For example, "Fall", "Winter" or "Spring". This field element matches the ENR1 field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
NoteMessage	Optional Repeatable	Additional information about the Academic Session	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

<ApplicationSession>
  *<SessionName>*Fall*</SessionName>*
</ApplicationSession>

Board.School.Applicant.ChoiceData.ApplicationOrganization



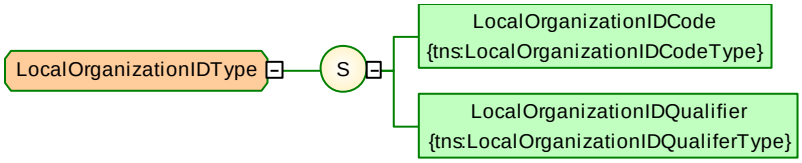
Tag Name	Schema Use	Description	Recommended Use	Format
OrganizationIDGroup	Required	Allowable Organization Ids – Exclusive Choice	Required - not sent by OUAC	minOcc 1 maxOcc 1
Comment: [OrganizationIDGroup] is not an XML tag and does not appear in an instance document. It requires the choice of one, and only one, of the following XX code set tags to identify the organization that the applicant has listed as a choice.				
CSIS	Required choice	The unique identifier assigned by the Statistics Canada Canadian College Student Information System for each postsecondary data exchange partner.	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
USIS	Required choice	The unique identifier assigned by the Statistics Canada University Student Information System for each postsecondary data exchange partner.	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
ESIS	Required choice	The unique identifier assigned by the Statistics Canada Enhanced Student Information System for each	Not Recommended	minOcc 0 maxOcc 1 minLength 8 maxLength 8

		postsecondary data exchange partner.		
Comment: This identifier is scheduled to be replaced by the PSIS code set, it is a valid choice for schools in Canada, just not recommended.				
PSIS	Required choice	The unique identifier assigned by the Statistics Canada Postsecondary Student Information System for each postsecondary data exchange partner.	Recommended – not sent by OUAC	minOcc 0 maxOcc 1 minLength 8 maxLength 8
Comment: This code set is the preferred code set to identify postsecondary schools in Canada.				
Comment: End of OrganizationIDGroup choice set tags				
LocalOrganizationID	Required	A code set to more specifically identify the applicant's chosen institution.	Recommended	minOcc 0 maxOcc 1
Comment: Additional information about the complex data element Local Organization ID will be shown on page 66				
NoteMessage	Optional Repeatable	Additional information concerning applicant's chosen institution.	Optional Repeatable – not sent by OUAC	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

<ApplicationOrganization>
<LocalOrganizationID>
</ LocalOrganizationID>
</ApplicationOrganization>

Board.School.Applicant.ChoiceData.ApplicationOrganization.LocalOrganizationID

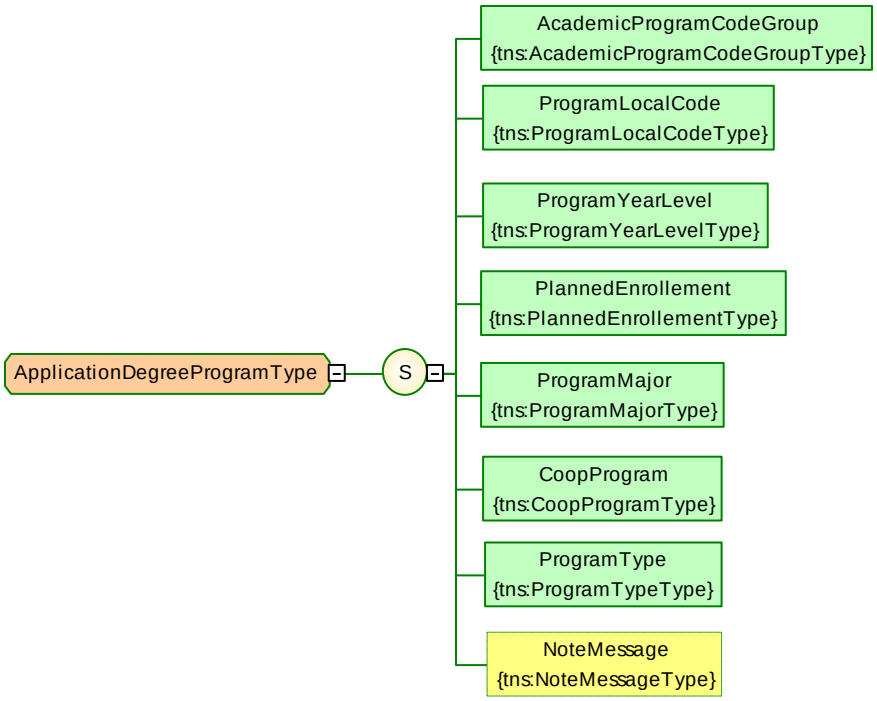


Tag Name	Schema Use	Description	Recommended Use	Format
LocalOrganizationIDCode	Required	A code set typically used by a province or region to further identify the postsecondary school	Recommended	minOcc 1 maxOcc 1
Comment: This field could be used to match up with UNI1 field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
LocalOrganizationIDQualifier	Required	Name of the Organization	Recommended	minOcc 1 maxOcc 1
Comment: This field could be used in conjunction with LocalOrganizationID to provide a more complete listing. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				

Code Illustration:

<LocalOrganizationID>
  *<LocalOrganizationIDCode>*03*</LocalOrganizationIDCode>*
  *<LocalOrganizationIDQualifier>*Guelph*</LocalOrganizationIDQualifier>*
</LocalOrganizationID>

Board.School.Applicant.ChoiceData.ApplicationDegreeProgram



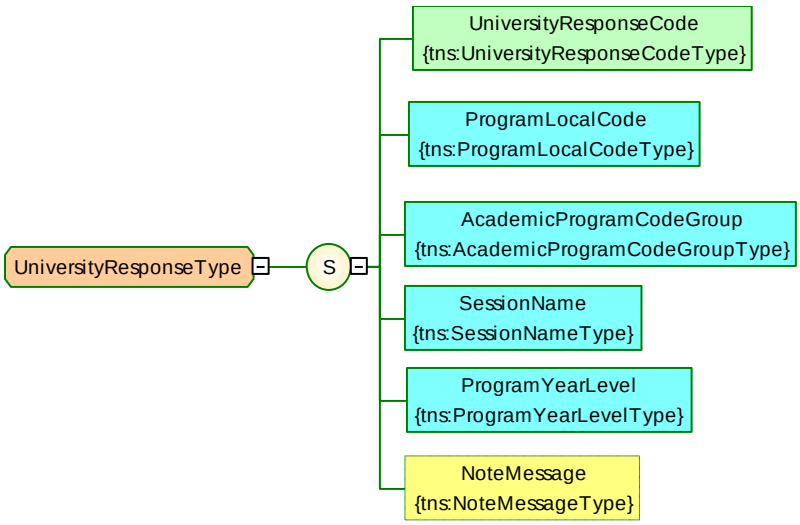
Tag Name	Schema Use	Description	Recommended Use	Format
AcademicProgramCodeGroup	Required	The program group of the program that the applicant applied to.	Recommended	minOcc 1 maxOcc 1 minLength 5 maxLength 5
Comment: This field element matches the PGP1 field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 390).				
ProgramLocalCode	Required	Code used to identify the program applied to at the university.	Recommended	minOcc 1 maxOcc 1 minLength 2 maxLength 3
Comment: This field element matches PGM1 field of the HSTAT98P file. The naming convention for program codes is described in detail in the OUAC System Manual under element 395 and Appendix B.78.				
ProgramYearLevel	Optional	The Year Level of Study of the program that the applicant applied to.	Recommended	minOcc 0 maxOcc 1
Comment: This field element matches the YRL1 field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 411).				
PlannedEnrollment	Optional	The anticipated enrolment level of this program.	Recommended	minOcc 0 maxOcc 1
Comment: This field element matches the FPT1 field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 410).				
ProgramMajor	Required	Applicant's Major within their program of choice	Recommended	minOcc 1 maxOcc 1 minLength 3

				maxLength 5
Comment: This field element matches MAJ1 field of the HSTAT98P file. The naming convention for subject of major interest is described in detail in OUAC systems manual under element 332 and Appendix B.33. Major Interest increased from 3 to 5 digits in the 2000 cycle.				
CoopProgram	Optional	Applicant's wish to apply for cooperative education.	Recommended	minOcc 0 maxOcc 1
Comment: This field element matches the COP1 field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 397).				
ProgramType	Required	Records whether the program the applicant has applied for is a non-fall program or is at the diploma, first year or advanced standing level	Recommended	minOcc 1 maxOcc 1
Comment: This field element matches the TYP1 field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
NoteMessage	Optional Repeatable	Additional information about the Degree Program	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<ApplicationDegreeProgram>
  <AcademicProgramCodeGroup>Science</AcademicProgramCodeGroup>
  <ProgramLocalCode>MS</ProgramLocalCode>
  <ProgramYearLevel>FirstYear</ProgramYearLevel>
  <PlannedEnrollment>FullTime</PlannedEnrollment>
  <ProgramMajor>00028</ProgramMajor>
  <CoopProgram>No</CoopProgram>
  <ProgramType>OUACApplicant<ProgramType/>
</ApplicationDegreeProgram>
```

Board.School.Applicant.ChoiceData.UniversityResponse

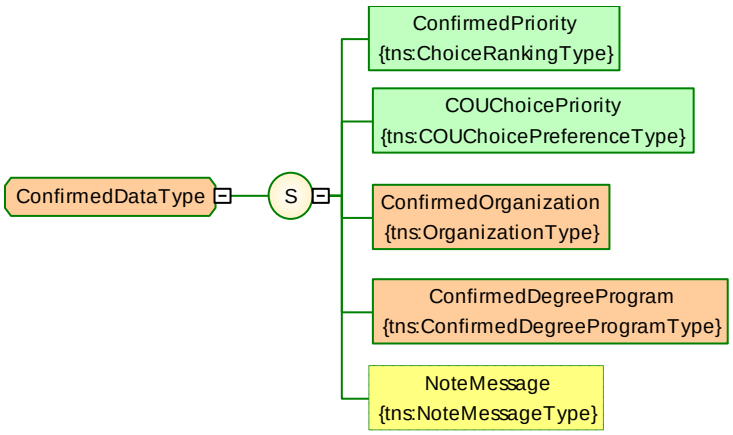


Tag Name	Schema Use	Description	Recommended Use	Format
UniversityResponseCode	Required	Institution's decision regarding the applicant's program choice	Recommended	minOcc 1 maxOcc 1
Comment: This field element matches the DEC1 field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
ProgramLocalCode	Required	Code used to identify the program offered by the university.	Conditional	minOcc 1 maxOcc 1 minLength 2 maxLength 3
Comment: This field is conditional on element Applicant.ChoiceData.UniversityResponse.UniversityResponseCode. This field element matches PGMD1 field of the HSTAT98P file. The naming convention for program codes is described in detail in the OUAC System Manual under element 395 and Appendix B.78.				
AcademicProgramCodeGroup	Required	The program group offered to the applicant by the university	Conditional	minOcc 1 maxOcc 1 minLength 5 maxLength 5
Comment: This field is conditional on element Applicant.ChoiceData.UniversityResponse.UniversityResponseCode This field element matches the PGPD1 field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 660).				
SessionName	Required	The enrollment term offered to the applicant by the university	Conditional	minOcc 1 maxOcc 1
Comment: This field is conditional on element Applicant.ChoiceData.UniversityResponse.UniversityResponseCode. This field element matches the ENRD1 field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
ProgramYearLevel	Optional	The Year Level of Study offered to the applicant by the university	Conditional	minOcc 0 maxOcc 1
Comment: This field is conditional on element Applicant.ChoiceData.UniversityResponse.UniversityResponseCode. This field element matches the YRLD1 field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 633).				
NoteMessage	Optional Repeatable	Additional information about the University response	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<UniversityResponse>
  <UniversityResponseCode>Offer</UniversityResponseCode>
   <ProgramLocalCode>MS</ProgramLocalCode>
   <AcademicProgramCodeGroup>Science</AcademicProgramCodeGroup>
  <SessionName>Fall</SessionName>
  <ProgramYearLevel>FirstYear</ProgramYearLevel>
</UniversityResponse>
```

Board.School.Applicant.ConfirmedData

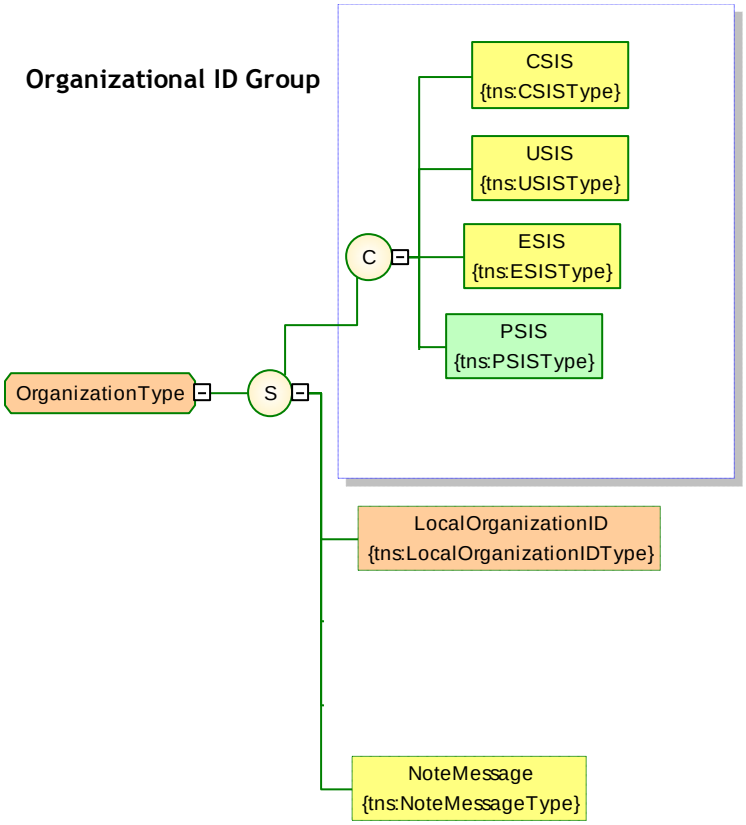


Tag Name	Schema Use	Description	Recommended Use	Format
ConfirmedPriority	Required	The priority given to this choice	Required	minOcc 1 maxOcc 1 Format is an integer
Comment: This field element matches the CNFCHS field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 370).				
COUChoicePriority	Required	The priority given to the choice by the COU	Required	minOcc 1 maxOcc 1 Format is an integer
Comment: This field element matches the CNFCCH field of the HSTAT98P.				
ConfirmedOrganization	Required	The specific organization within the system to which the applicant is confirmed	Required	minOcc 1 maxOcc 1
Comment: This complex data element will be expanded on page 72.				
ConfirmedDegreeProgram	Required	The specific academic program for which the applicant is confirmed	Required	minOcc 1 maxOcc 1
Comment: This complex element is expanded on page 75.				
NoteMessage	Optional Repeatable	Additional information about the applicant's confirmation	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<ConfirmedData>
  <ConfirmedPriority>1</ConfirmedPriority>
  <COUChoicePriority>1</COUChoicePriority>
  <ConfirmedOrganization>
   </ConfirmedOrganization/>
  <ConfirmedDegreeProgram>
   </ConfirmedDegreeProgram>
</ConfirmedData>
```

Board.School.Applicant.ConfirmedData.ConfirmedOrganization



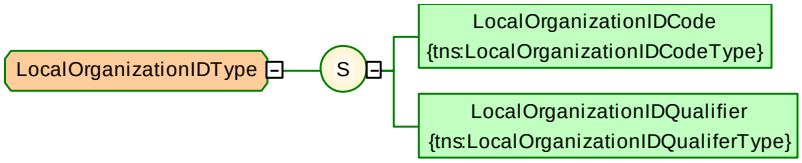
Tag Name	Schema Use	Description	Recommended Use	Format
[OrganizationIDGroup]	Required	Allowable Organization Ids – Exclusive Choice	Required – not sent by OUAC	minOcc 1 maxOcc 1
Comment: [OrganizationIDGroup] is not an XML tag and does not appear in an instance document. It requires the choice of one, and only one, of the following XX code set tags to identify the confirmed organization.				
CSIS	Required choice	The unique identifier assigned by the Statistics Canada Canadian College Student Information System for each postsecondary data exchange partner.	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
USIS	Required choice	The unique identifier assigned by the Statistics Canada University Student Information System for each postsecondary data exchange partner.	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
ESIS	Required choice	The unique identifier assigned by the Statistics Canada Enhanced Student Information System for each postsecondary data exchange partner.	Not Reccommended	minOcc 0 maxOcc 1 minLength 8 maxLength 8

Comment: This identifier is scheduled to be replaced by the PSIS code set, it is a valid choice for schools in Canada, just not recommended.				
PSIS	Required choice	The unique identifier assigned by the Statistics Canada Postsecondary Student Information System for each postsecondary data exchange partner.	Recommended – not sent by OUAC	minOcc 0 maxOcc 1 minLength 8 maxLength 8
Comment: This code set is the preferred code set to identify postsecondary schools in Canada.				
Comment: End of OrganizationIDGroup choice set tags				
LocalOrganizationID	Required	A code set to more specifically identify the confirmed organization	Recommended	minOcc 0 maxOcc 1
Comment: Additional information about the complex data element Local Organization ID will be shown on page 74				
NoteMessage	Optional Repeatable	Additional information about the organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80
Comment: Since an unformatted NoteMessage cannot be automatically processed by the receiving school's computer, the uses of unformatted NoteMessage data elements are not recommended. However, if the sending and receiving schools or agencies have a prior agreement on the format of a NoteMessage, then it can sometimes be useful within a group of users with common interests.				

Code Illustration:

```
<ConfirmedOrganization>
   <LocalOrganizationID>
  </LocalOrganizationID>
</ConfirmedOrganization>
```

Board.School.Applicant.ConfirmedData.ConfirmedOrganization.LocalOrganizationID

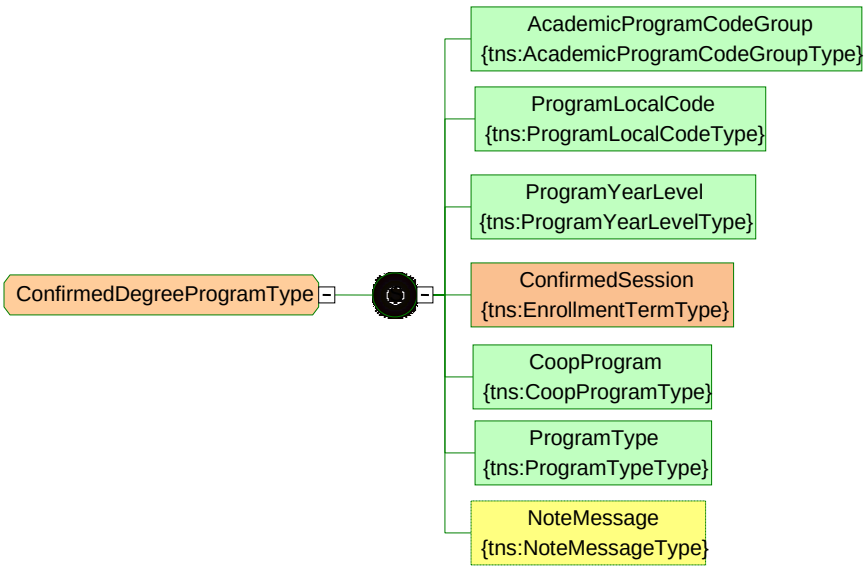


Tag Name	Schema Use	Description	Recommended Use	Format
LocalOrganizationIDCode	Required	A code set typically used by a province or region to further identify the receiving school	Required	minOcc 1 maxOcc 1
Comment: This field could be used to match up with CNFUNI field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
LocalOrganizationIDQualifier	Required	The name of the Organization	Required	minOcc 1 maxOcc 1
Comment: This field could be used in conjunction with LocalOrganizationIDCode to provide a more complete listing. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				

Code Illustration:

<LocalOrganizationID>
  *<LocalOrganizationIDCode>*03*</LocalOrganizationIDCode>*
  *<LocalOrganizationIDQualifier>*Guelph*</LocalOrganizationIDQualifier>*
</LocalOrganizationID>

Board.School.Applicant.ConfirmedData.ConfirmedDegreeProgram



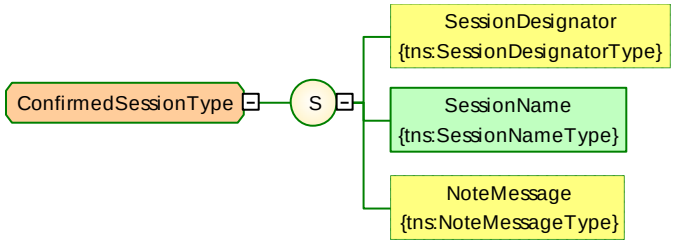
Tag Name	Schema Use	Description	Recommended Use	Format
AcademicProgramCodeGroup	Required	The applicant's program group confirmed to at the university	Required	minOcc 1 maxOcc 1 minLength 5 maxLength 5
Comment: This field element matches the CNFPGP field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 660).				
ProgramLocalCode	Required	Code used to identify the program confirmed to at the university.	Required	minOcc 1 maxOcc 1 minLength 2 maxLength 3
Comment: This field element matches CNFPGM field of the HSTAT98P file. The naming convention for program codes is described in detail in the OUAC System Manual under element 665 and Appendix B.78.				
ProgramYearLevel	Optional	Confirmed year level of Study for the applicant's university/program selection	Required	minOcc 0 maxOcc 1
Comment: This field element matches the CNFYRL field of the HSTAT98P. It is further defined in the OUAC System Manual under element 685. FirstYear is the default value. It is further defined in the OUAC System Manual (Element 685).				
ConfirmedSession	Required	The specific term or session for which the applicant is confirmed for	Required	minOcc 1 maxOcc 1
Comment: This field element matches the CNFENR field of the HSTAT98P. Additional information about the complex data element ConfirmedSession will be shown on page 77				
CoopProgram	Optional	Confirmed whether the applicant is participating in cooperative education	Required	minOcc 0 maxOcc 1
Comment: This field element matches the CNFCOP field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 688).				

ProgramType	Required	Records whether the program to which the applicant is confirmed is a non-fall program or is at the diploma, first year or advanced standing level	Required	minOcc 1 maxOcc 1
Comment: This field element matches the CNFPTP field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
NoteMessage	Optional Repeatable	Additional information about the applicant's confirmation	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<ConfirmedDegreeProgram>
  <AcademicProgramCodeGroup>Arts</AcademicProgramCodeGroup>
  <ProgramLocalCode>ART</ProgramLocalCode>
  <ProgramYearLevel>FirstYear</ProgramYearLevel>
  <ConfirmedSession>
  </ConfirmedSession>
  <CoopProgram>No</CoopProgram>
  <ProgramType>FirstYearFallFull</ProgramType>
</ConfirmedDegreeProgram>
```

Board.School.Applicant.ConfirmedData.ConfirmedDegreeProgram.ConfirmedSession

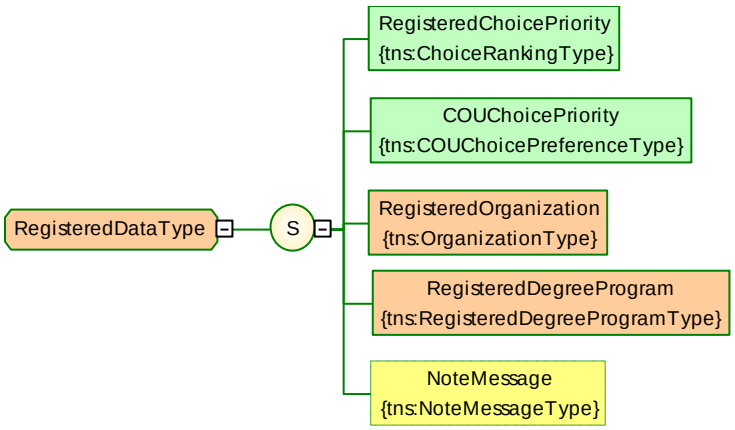


Tag Name	Schema Use	Description	Recommended Use	Format
SessionDesignator	Optional	The academic session to which the applicant is applying	Not Recommended	minOcc 1 maxOcc 1 YearMonth (ccyy-mm)
Comment: The session designator is used to indicate the starting year and month of major academic terms within the school's calendar. For example, a typical fall term would begin in August or September. So, for a fall term that begins in September of the year 2011, the value of this field would be "2011-09".				
SessionName	Required	Name of session	Required	minOcc 1 maxOcc 1
Comment: For example, "Fall", "Winter" or "Spring". This field element matches the ENR1 field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
NoteMessage	Optional Repeatable	Additional information about the Academic Session	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

<ConfirmedSession>
    *<SessionName>*Fall*</SessionName>*
</ConfirmedSession>

Board.School.Applicant.RegisteredData

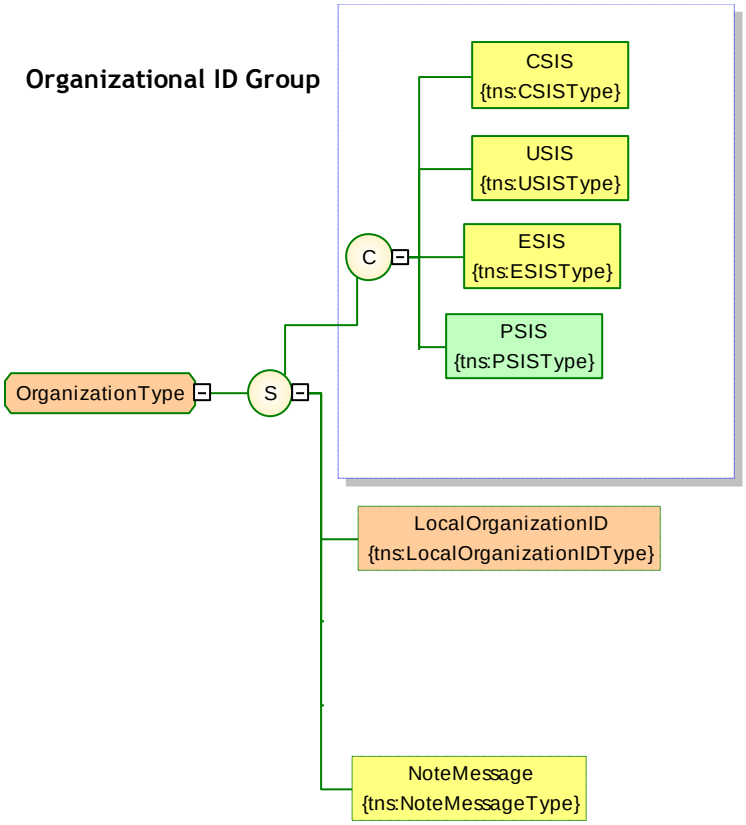


Tag Name	Schema Use	Description	Recommended Use	Format
RegisteredChoicePriority	Optional	The priority to be given to this choice	Required	minOcc 0 maxOcc 1 Format is an integer
Comment: This field element matches the REGCHS field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 370).				
COUChoicePriority	Required	The priority given to the choice by the COU	Required	minOcc 1 maxOcc 1 Format is an integer
Comment: This field element matches the REGCCH field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
RegisteredOrganization	Required	The specific organization within the system to which the applicant is registered	Required	minOcc 1 maxOcc 1
Comment: This complex data element will be expanded on page 79				
RegisteredDegreeProgram	Required	The specific academic program for which the applicant is registered	Required	minOcc 1 maxOcc 1
Comment: This complex element is expanded on page 82.				
NoteMessage	Optional Repeatable	Additional information about the applicant's registration	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<RegisteredData>
  <RegisteredChoicePriority>1</RegisteredChoicePriority>
  <COUChoicePriority>1</COUChoicePriority>
  <RegisteredOrganization>
  </RegisteredOrganization>
  <RegisteredDegreeProgram>
  </RegisteredDegreeProgram>
</RegisteredData>
```

Board.School.Applicant.RegisteredData.RegisteredOrganization



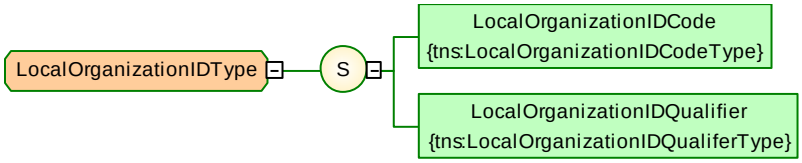
Tag Name	Schema Use	Description	Recommended Use	Format
[OrganizationIDGroup]	Required	Allowable Organization Ids – Exclusive Choice	Required – not sent by OUAC	minOcc 1 maxOcc 1
Comment: [OrganizationIDGroup] is not an XML tag and does not appear in an instance document. It requires the choice of one, and only one, of the following XX code set tags to identify the registered organization.				
CSIS	Required choice	The unique identifier assigned by the Statistics Canada Canadian College Student Information System for each postsecondary data exchange partner.	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
USIS	Required choice	The unique identifier assigned by the Statistics Canada University Student Information System for each postsecondary data exchange partner.	Not Recommended	minOcc 0 maxOcc 1 minLength 6 maxLength 6
Comment: Since it is now being replaced by the PSIS code set, it would no longer be a valid choice for schools in Canada.				
ESIS	Required choice	The unique identifier assigned by the Statistics Canada Enhanced Student Information System for each postsecondary data exchange partner.	Not Reccommended	minOcc 0 maxOcc 1 minLength 8 maxLength 8

Comment: This identifier is scheduled to be replaced by the PSIS code set, it is a valid choice for schools in Canada, just not recommended.				
PSIS	Required choice	The unique identifier assigned by the Statistics Canada Postsecondary Student Information System for each postsecondary data exchange partner.	Recommended – not sent by OUAC	minOcc 0 maxOcc 1 minLength 8 maxLength 8
Comment: This code set is the preferred code set to identify postsecondary schools in Canada.				
Comment: End of OrganizationIDGroup choice set tags				
LocalOrganizationID	Required	A code set to more specifically identify the registered institution	Recommended	minOcc 0 maxOcc 1
Comment: Additional information about the complex data element Local Organization ID will be shown on page 81				
NoteMessage	Optional Repeatable	Additional information about the organization	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80
Comment: Since an unformatted NoteMessage cannot be automatically processed by the receiving school's computer, the use of unformatted NoteMessage data elements are not recommended. However, if the sending and receiving schools or agencies have a prior agreement on the format of a NoteMessage, then it can sometimes be useful within a group of users with common interests.				

Code Illustration:

<Registered*Organization*>
  <LocalOrganizationID>
  </LocalOrganizationID>
</RegisteredOrganization>

Board.School.Applicant.RegisteredData.RegisteredOrganization.LocalOrganizationID

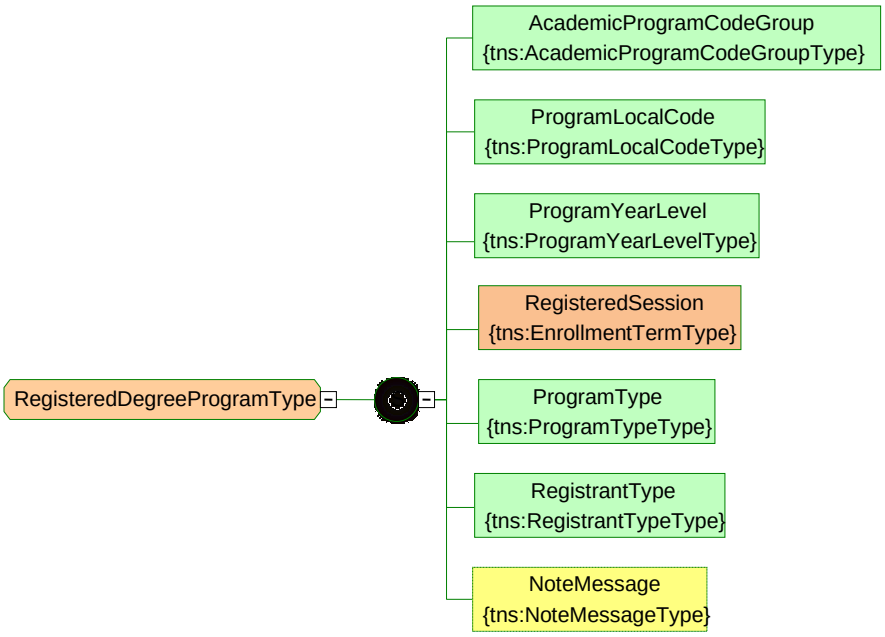


Tag Name	Schema Use	Description	Recommended Use	Format
LocalOrganizationIDCode	Required	A code set typically used by province or region to further identify the receiving school	Recommended	minOcc 1 maxOcc 1
Comment: This field could be used to match up with REGUNI field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
LocalOrganizationIDQualifier	Optional	The name of the Organization	Optional	minOcc 1 maxOcc 1
Comment: This field could be used in conjunction with LocalOrganizationID to provide a more complete listing. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				

Code Illustration:

<LocalOrganizationID>
*<LocalOrganizationIDCode>*01*</LocalOrganizationIDCode>*
*<LocalOrganizationIDQualifier>*Brock*</LocalOrganizationIDQualifier>*
</LocalOrganizationID>

Board.School.Applicant.RegisteredData.RegisteredDegreeProgram



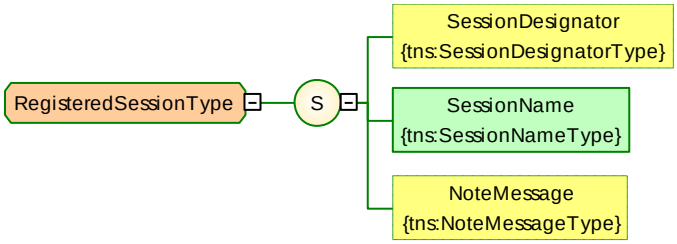
Tag Name	Schema Use	Description	Recommended Use	Format
AcademicProgramCodeGroup	Required	The applicant's program registered to at the university	Required	minOcc 1 maxOcc 1 minLength 5 maxLength 5
Comment: This field element matches the REGPGP field of the HSTAT98P. It is further defined in the OUAC System Manual (Element 710).				
ProgramLocalCode	Required	Code used to identify the program registered to at the university.	Required	minOcc 1 maxOcc 1 minLength 2 maxLength 3
Comment: This field element matches REGPGM field of the HSTAT98P file. The naming convention for program codes is described in detail in the OUAC System Manual under element 715 and Appendix B.78.				
ProgramYearLevel	Optional	Registered year level of Study for the applicant's university/program selection	Required	minOcc 0 maxOcc 1
Comment: This field element matches the REGYRL field of the HSTAT98P. Further detail can be found in the OUAC System Manual under element 735.				
RegisteredSession	Required	The specific term or session for which the applicant is registered for	Required	minOcc 1 maxOcc 1
Comment: Further element details can be found on page 84				
ProgramType	Required	Records whether the program to which the applicant is registered to is a non-fall program or is at the diploma, first year or advanced standing level	Required	minOcc 1 maxOcc 1

Comment: This field element matches the REGPTP field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
RegistrantType	Required	Identifies type of full-time registrant	Required	minOcc 1 maxOcc 1
Comment: This field element matches the REGTYP field of the HSTAT98P. For further information concerning the classification of registrant types, please refer to the OUAC System Manual under element 730. It is also further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
ClassificationInstructionalPrograms1	Optional	First Specialization CIP Code of the registered program.	Recommended	minOcc 0 maxOcc 1
Comment: This field is the First Specialization CIP Code that is reported by the universities to the Ministry of Training, Colleges and Universities (MTCU) through PFIS-USER and provided to the OUAC by MTCU.				
ClassificationInstructionalPrograms2	Optional	Second Specialization CIP Code of the registered program.	Recommended	minOcc 0 maxOcc 1
Comment: This field is the Second Specialization CIP Code that is reported by the universities to the Ministry of Training, Colleges and Universities (MTCU) through PFIS-USER and provided to the OUAC by MTCU.				
ClassificationInstructionalPrograms3	Optional	Third Specialization CIP Code of the registered program.	Recommended	minOcc 0 maxOcc 1
Comment: This field is the Third Specialization CIP Code that is reported by the universities to the Ministry of Training, Colleges and Universities (MTCU) through PFIS-USER and provided to the OUAC by MTCU.				
NoteMessage	Optional Repeatable	Additional information about the applicant's registration	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<RegisteredDegreeProgram>
  <AcademicProgramCodeGroup>Arts</AcademicProgramCodeGroup>
  <ProgramLocalCode>ART</ProgramLocalCode>
  <ProgramYearLevel>FirstYear</ProgramYearLevel>
  <RegisteredSession>
 </RegisteredSession>
  <ProgramType>DiplomaFallFull</ProgramType>
  <RegistrantType>InSystem</RegistrantType>
  <ClassificationInstructionalPrograms1>123456</ClassificationInstructionalPrograms1>
  <ClassificationInstructionalPrograms2>123456</ClassificationInstructionalPrograms2>
  <ClassificationInstructionalPrograms3>123456</ClassificationInstructionalPrograms3>
</RegisteredDegreeProgram>
```

Board.School.Applicant.RegisteredData.RegisteredDegreeProgram.RegisteredSession



Tag Name	Schema Use	Description	Recommended Use	Format
SessionDesignator	Optional	The academic session to which the applicant is applying	Not Recommended	minOcc 1 maxOcc 1 YearMonth (ccyy-mm)
Comment: The session designator is used to indicate the starting year and month of major academic terms within the school's calendar. For example, a typical fall term would begin in August or September. So, for a fall term that begins in September of the year 2011, the value of this field would be "2011-09".				
SessionName	Required	Name of session	Required	minOcc 1 maxOcc 1
Comment: For example, "Fall", "Winter" or "Spring". This field element matches the REGENR field of the HSTAT98P. It is further defined in the Data Definition (Appendix 'B') for the Flat File Distribution: 2017 and after.				
NoteMessage	Optional Repeatable	Additional information about the Academic Session	Not Recommended	minOcc 0 maxOcc ∞ minLength 1 maxLength 80

Code Illustration:

```
<RegisteredSession>
    <SessionName>Fall</SessionName>
</RegisteredSession>
```

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Bibliography

- Ontario Universities' Application Centre. (2012, September 4). *System Manual* (Version 15.0). Retrieved September 19, 2012. From http://admissions.ouac.on.ca/systems/sysman.shtml
- Postsecondary Electronic Standards Council. (2012, July 26). *Implementation Guide for the Postsecondary Electronic Standards Council XML Standard Format for the High School Transcript (Version 1.3.0).* Retrieved September 19, 2012. From http://www.pesc.org/library/docs/standards/High%20School%20Transcript/XML%20HS%20Transcript%20Impl%20Guide%20Version%201.3.0%202012%2007%2026.pdf
- Postsecondary Electronic Standards Council. (2012, August 16). *Implementation Guide for the Postsecondary Electronic Standards Council XML Standard Format of the College Transcript (Version 1.4.0.).* Retrieved September 19, 2012. From http://www.pesc.org/library/docs/standards/College%20Transcript/XML%20College%20Trsc%20Impl%20Guide%202012%2008%2016%20V%201.4.0.pdf
- Postsecondary Electronic Standards Council. (2011, August 28). *Implementation Guide for the Postsecondary Electronic Standards Council XML Standard Format for the Application for Admission to Postsecondary Schools in the United States and Canada (Version 1.1.0.).* Retrieved September 19, 2012. From http://www.pesc.org/library/docs/standards/Admissions%20Application/ADMappIMPguidev1.1.020110828.pdf