Section 4 - TREx XML Standards

Overview

XML schemas function as models for describing the structure of the records being extracted and transmitted through TREx. This includes:

- · the sequence in which elements appear;
- the interrelationship between different elements, including parent and child relationships and nesting levels; and
- the types of data that are contained in elements or attributes.

The *TREx Data Standards* manual provides information on the data elements, coded variables, and schema for use by the districts and vendors of local student information systems for the development and maintenance of the extract file process.

Note: Similar to the TREx Data Standards, the TREx XSD will be updated and republished by TEA annually. Student Information System (SIS) vendors should support updates to the TREx XSD.

Edits and Validations

The TREx XML schema ensures that student data files from school districts adhere to a common structure and consist of valid elements and attributes. An XML extract file must be syntactically perfect or it is rendered as unacceptable by an XML parser.

Restrictions control acceptable values for XML data elements. Restrictions on XML elements are called facets. In combination with an element's declared data type, restrictions enable the XSD validation process not only to validate the structure of the XML file but also to validate the data values contained within the file against its XML schema definition.

An example of a restriction to validate data commonly used in TREx is for a range of years. To define a rule for the ACADEMIC-YEAR data element so that the values fall within the range of 1957-2012, the TREx schema declares the restriction as:

```
<xs:element name="SchoolYear">
  <xs:simpleType>
   <xs:restriction base="xs:integer">
        <xs:minInclusive value="1957"/>
        <xs:maxInclusive value="2012"/>
        </xs:restriction:
   </xs:simpleType>
</xs:element>
```

The XML schema also enforces length restrictions for a given element by either an exact length, minimum length, or maximum length. Patterns represent another restriction on data elements if so defined.

TREx Field Edit Overview

Although the districts/campuses are provided with a manual capability to create a student record or transcript in TREx, most districts/campuses submit data in an XML-based extract file. The file is referred to as an extract file because it is created through a vendor-supported process that extracts data from a district's student information system. The extracted data must be consistent with the TREX XML Schema Definition (XSD).

Prior to transmitting the extract file, TREx verifies the structure of the file against the XSD. In addition, the system verifies the contents of the file against the declared data types and restrictions defined for each element in the TREx XSD for each simple type element. The data types and restrictions defined with the TREx XSD constitute the TREx field edits.

TREx Field Edit Restrictions

As previously described in this section, restrictions control acceptable values for XML data elements. Restrictions on XML elements are called facets. In combination with an element's declared data type, restrictions enable the TREx XSD validation process not only to validate the structure of the XML file but also to validate the data values contained within the file against its XML schema definition. Many simple type elements within the TREx XSD have a restriction that limits the domain of acceptable values.

TREx does not transmit extract files improperly structured or containing unacceptable values.

Available TREx XSD Restrictions

Restriction	Description		
enumeration	Specifies a list of acceptable values.		
minInclusive	Specifies the lower bounds for numeric values. The value must be greater than or equal to this value.		
maxInclusive	Specifies the upper bounds for numeric values. The value must be less than this value.		
minLength	Specifies the minimum number of characters or list items allowed. Must be equal to or greater than zero.		
maxLength	Specifies the maximum number of characters or list items allowed. Must be equal to or greater than zero.		
minOccurs	Specifies minimum number of occurrences allowed.		
maxOccurs	Specifies maximum number of occurrence allowed.		
pattern	Defines the exact sequence of characters that are acceptable.		
restriction	Defines the type of data element (e.g. string, integer, etc.).		
totalDigits	Specifies the exact number of digits permitted. (Value must be greater than zero.)		
whiteSpace	Specifies the use of white space. Denotes line feeds, tabs, spaces, and carriage returns.		

Context Edit Overview

TREx uses context edits to verify data elements against the rules set out in the XSD. Each context edit is traced to its associated Edit Number, a description of which follows.

Context Edit DescriptionsFollowing is a list of TREx Context Edits.

F41: #	Flowant VMI Name	Edit Dula
Edit #	Element XML Name	Edit Rule
T001	StudentID	The first character of StudentID must be "S" or "0"-"8".
T002	StudentID	Each character of StudentID must not be the same number.
T003	StudentID	The first three characters of StudentID must not be "000".
T004	StudentID	If first character of StudentID is not an "S", the fourth and fifth characters must not be "00".
T005	StudentID	If first character of StudentID is not an "S", the last four characters must not be "0000".
T006	FirstName, MiddleName, LastName	The FirstName, MiddleName, and/or LastName must only contain the following characters:
		• a-z or A-Z
		• 0-9
		 Apostrophe
		Hyphen
		Space character
T007	FirstName, MiddleName, LastName	Name must not contain only apostrophes.
T008	FirstName, MiddleName, LastName	Name must not contain only hyphens.
T009	FirstName, LastName	Name must not contain only spaces.
T010	FirstName, MiddleName, LastName	Data elements cannot be repeated as PersonType (student).
T011	FirstName, MiddleName, LastName	Data elements can be repeated as ParentType (parent).
T012	DistrictID	The DistrictID contained within the CampusID must match an entry registered with the TEA.
T013	CampusID	The CampusID must match an entity registered with TEA.
T014	EntryDate	The EntryDate must not be greater than the file submission date.
T015	WithdrawDate	WithdrawDate must not be greater than the current date.
T016	WithdrawDate	WithdrawDate must be greater than ExitDate by at least one day.
T017	ExitDate	ExitDate must be one day less than (earlier) than WithdrawDate.
T018	WithdrawDate, WithdrawReason	If a student in grades 7-12 has withdrawn from school, both fields are required. For grades up to and

Edit #	Element XML Name	Edit Rule
		including grade 6, Withdraw Reason is not required for students who have withdrawn from school but Withdraw Date is required and entered.
T019	DisciplineActionDate	Must be greater than date of extract file creation.
T020	DisciplineActionDate, DisciplineActionCode, DisciplineActionReason	If data are present for any single element, all other elements must include data.
T021	DisciplineActionDate, DisciplineActionCode, DisciplineActionReason	Elements can be repeated on student record if at least one element contains different data from other set.
T022	TestScore, TestDate,TestCode	If TestDate (Assessment Date) is present, data are required in TestScore (Assessment Score) and/or TestCode (Assessment Score Code).
T023	GradeRetained	Must be less than Grade 9.
T024	CertificateDate	Must be blank if date exists in GraduationDate element.
T025	GraduationDate	Must be blank if date exists in CertificateDate element.
T027	ImmunizationDate	If present, data are required for ImmunizationCode.
T028	CreditCampus	CreditCampus must match an entity registered with TEA.

Data and File Requirements

The TREx extracted data are stored in an XML-based file consistent with the TREx XML Schema Definition (XSD) and must follow the XSD standards to be transmitted by TREx.

Rules for XML Schema

While school districts and campuses are responsible for the accuracy of the data transmitted through TREx, TREx verifies the contents of the file against the declared data types and restrictions defined for each element in the TREx XSD. The following business rules apply to XML schemas and the XSD validation process:

- The XML Schema supports a number of built-in data types (e.g., date). When an XML element has a defined data type, a restriction is placed on the element content.
- The XML Schema supports restrictions (edits). In conjunction with the element's declared data type, restrictions are used to control acceptable values for XML elements.
- Declared data types and restrictions enable the XSD validation process.
- The client-side XSD validation process is used to validate the XML file structure and data values against the schema definition.
- If the client-side validation fails, TREx does not transfer the extract file.

Note: For graphical representations of the TREx XSD, reference Appendix C.

TREx XSD Data Types and Restrictions

Following are the TREx data types and restrictions. Restrictions control acceptable values for XML elements. Restrictions used in the XSD validation process validate both the structure of the XML file and the data values against the XML Schema Definition.

Element Name TX Student Unique ID	XML Name StudentUniqueID	Data Type String	RestrictionRequired if available.10 digit numeric value.
Student ID	StudentID	String	 Required element. Public Schools: The only acceptable value for the first position is an "S" or a character in the range of 0 to 8. For positions two through nine, the only acceptable value is eight characters in a sequence with each character in a range from 0 to 9. Private Schools: The minimum length is 1 and the maximum length is 64 characters.
Prior ID	PriorID	String	 Optional element. If provided, minimum length of 1 and a maximum length of 9. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?
Local Student ID	LocalID	String	 Optional element. If provided, minimum length of 1 and a maximum length of 9. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () _ + = : ; " ' , . / < > ?
(Student) First Name	FirstName	String	 Required element. Limited to a single occurrence. The minimum length is 1 and the maximum length is 30 characters. White space is preserved. The only acceptable value is a sequence of at least 1 to 30 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.

Element Name (Student) Middle Name	XML Name MiddleName	Data Type String	 Pestriction Optional element. Limited to a single occurrence. The minimum length is 1 and the maximum length is 30 characters. White space is preserved. The only acceptable value is a sequence of at least 1 to 30 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a
(Student) Last Name	LastName	String	 hyphen, a 0 through 9, or a space. Required element. Limited to a single occurrence. The minimum length is 1 and the maximum length is 40 characters. White space is preserved. The only acceptable value is a sequence of at least 1 to 40 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.
(Student) Generation Code	Suffix	String	 Optional element. Maximum length of a single character. If provided, the only acceptable value is a single character in a rank from 1-9, A-C.
Date of Birth	BirthDate	Date	 Required element. Limited to a single occurrence. The date type implements an ISO data type in the form of yyyy-mm-dd. The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.
Gender Code	Gender	String	 Required element. Limited to a single occurrence. Maximum length of a single character. The only acceptable value is one of the following letters: "M" or "F".
Ethnicity Code	Race	String	 Required for Students prior to 2010-2011 School Year. Limited to a single occurrence. Maximum length of a single character. The only acceptable value is a single character in a range from 1 to 5.

Element Name (Student) Address	XML Name Address	Data Type String	Restriction Optional element.
			Maximum length of fifty characters.
			White space is preserved. Any of the following characters.
			 Any of the following characters, including the space character, are valid:
			ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?
(Student) City	City	String	Optional element.
			 Maximum length of thirty characters.
			 White space is preserved.
			 Any of the following characters, including the space character, are valid:
			ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?
(Student) State	StateProvince	String	Optional element.
			 Maximum length of two characters.
			 The only acceptable values are listed in Code Table TC20.
(Student) Zip	PostalCode	String	 Optional element.
			 Minimum length of five and a maximum length of ten characters.
			 If ten characters provided, must include a hyphen in position six.
(Parent) First	FirstName	String	 Required element.
Name			 The minimum length is 1 and the maximum length is 30 characters.
			 White space is preserved.
			 The only acceptable value is a sequence of at least 1 to 30 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.
(Parent) Middle	MiddleName	String	 Optional element.
Name			 Maximum length is 30 characters.
			 White space is preserved.
			 The only acceptable value is a sequence of at least 0 to 30 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.
			inspired, a o amought o, of a space.

Element Name (Parent) Last Name	XML Name LastName	Data Type String	 Restriction Required element. The minimum length is 1 and the maximum length is 40 characters. White space is preserved. The only acceptable value is a sequence of at least 1 to 40 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.
(Parent) Generation Code	Suffix	String	 Optional element. Maximum length of a single character. If provided, the only acceptable value is a single character in a rank from 1-9, A-C.
District ID	DistrictID	String	 Required element. Minimum length of six characters. Must be valid TEA-approved district identification number. Declared as a string data type to allow for zeros in the first position. The only acceptable value is six characters in a sequence with each character in a range from 0 to 9.
District Name	DistrictName	String	 Optional element. Maximum length of thirty-four characters. White space is preserved. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ? May not include the following characters: \ { } []
Campus ID	SchoolID	String	 Required element. Minimum length of nine characters. Must be valid TEA-approved campus identification number. Declared as a string data type to allow for zeros in the first position. The only acceptable value is nine characters in a sequence with each character in a range from 0 to 9.

Element Name Campus Name	XML Name SchoolName	Data Type String	 Restriction Required data element. Maximum length of thirty-four characters. White space is preserved. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234
(Campus) Address	Address	String	 Optional element. Maximum length of fifty characters. White space is preserved. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?
(Campus) City	City	String	 Optional element. Maximum length of thirty characters. White space is preserved. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " , . / < > ?
(Campus) State	StateProvince	String	 Optional element. Maximum length of two characters. The only acceptable values are listed in Code Table TC20.
(Campus) Zip	PostalCode	String	 Optional element. Minimum length of five and a maximum length of ten characters. If ten characters provided, must include a hyphen in position six.
Country	Country	String	 Optional element. Maximum length of two characters. The only acceptable values are listed in Code Table TC04. Should default to US.

Element Name	XML Name	Data Type	Restriction
(Campus) Phone	PhoneNumber	String	 Required element.
			 Maximum length of twenty characters.
			 White space is preserved.
			 Any of the following characters, including the space character, are valid:
			EXText0123456789 # ()-
(Campus) Fax	Fax	String	 Optional element.
			 Maximum length of twenty characters.
			 White space is preserved.
			 Any of the following characters, including the space character, are valid:
			EXText0123456789 # ()-
Academic Year	SchoolYear	String	 Required element if student has not graduated.
			 Maximum length of nine characters.
			 Punctuation allowed includes dash.
			 Can be repeated as needed.
Grade Level	GradeLevel	String	 Required element.
			 Maximum length of two characters.
			 The only acceptable value are EE, PK, KG, and 01 through 12.
Original Entry Date	EntryDate	Date	Optional element.
			 Record must contain only one.
			 The date type implements an ISO data type in the form of yyyy-mm-dd.
			 The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.
Last Date of	ExitDate	Date	 Optional element.
Attendance			 Record may contain only one.
			 The date type implements an ISO data type in the form of yyyy-mm-dd.
			 The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.
Last Withdrawal	WithdrawDate	Date	Optional element.
Date			 Record may contain only one.
			 The date type implements an ISO data type in the form of yyyy-mm-dd.
			 The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.

Element Name Withdrawal	XML Name WithdrawReason	Data Type String	Restriction Optional element.
Reason	Trianara William	ounig	 Maximum length of two characters.
			 The only acceptable values are listed in Code Table TC23.
Placed in Grade	GradePlaced	String	Optional element.
		o o	 Maximum length of two characters.
			 The only acceptable value are EE, PK, KG, and 01 through 12.
Promoted to	GradePromoted	String	Optional element.
Grade			Maximum length of two characters.
			 The only acceptable value are EE, PK, KG, and 01 through 12.
Grade of Retention	GradeRetained	String	Optional element.
(PK-8)			 Maximum length of two characters.
			 The only acceptable value are EE, PK, KG, and 01 through 12.
Total Days	DaysAttended	String	Optional element.
Present			 Implied decimal within ###.# format.
			 Must end in .0 or .5 (implied decimal).
Total Days Absent	DaysAbsent	String	Optional element.
			Implied decimal within ###.# format.
			 Must end in .0 or .5 (implied decimal).
Home Language	Language	String	Optional element.
			 Maximum length of two characters.
			 The only acceptable values are listed in Code Table TC14.
Migrant Indicator	Migrant	String	Optional element.
			Maximum length of one character.
			 The only acceptable value is a single character of 0 or 1.
Foster Care	FosterCare	String	Optional element.
Indicator Code			 Maximum length of one character.
			 The only acceptable values are listed in Code Table TC33
Military Connected	MilitaryConnected	String	 Optional element.
			 Maximum length of one character.
			 The only acceptable values are listed in Code Table TC34
Dyslexia Indicator Code	Dyslexia	String	 The only acceptable values are listed in Code Table TC16 (0/1)
			 Maximum length of one character.
			Optional element.
Homeless	Homeless	String	Optional element.
Indicator			Maximum length of one character.
			 The only acceptable values are listed in Code Table TC32.

Element Name Unschooled Asylee/Refugee Code	XML Name AsyleeRefugee	Data Type String	 Restriction Optional element. Maximum length of one character. The only acceptable value is a single character of 0,1 or 2.
LEP (Limited English Proficiency) Indicator	LEP	String	 Optional element. Maximum length of one character. The only acceptable values are 0, 1, F, or S.
Economically Disadvantaged Indicator	EconomicDisadvanta ged	String	 Optional element. Maximum length of two characters. The only acceptable values are listed in Code Table TC08.
At Risk Indicator	AtRisk	String	 Optional element. Maximum length of one character. The only acceptable value is a single character of 0 or 1.
Title I Part A Indicator	Titlel	String	 Optional element. Maximum length of one character. The only acceptable value is a single character of 0, A, 6, 7, 8, or 9.
Special Education Indicator	SpecialEd	String	 Optional element. Maximum length of one character. The only acceptable value is a single character of 0 or 1.
IEP (Individualized Education Program) Indicator	IEP	String	 Optional element. Maximum length of one character. The only acceptable value is a single character of 0 or 1.
Bilingual Indicator	Bilingual	String	 Optional element. Maximum length of one character. If provided, the only acceptable values are 0, 2, 3, 4, or 5.
ESL (English as Second Language) Indicator	ESL	String	 Optional element. Maximum length of one character. The only acceptable values are 0, 2, or 3.
Gifted/Talented Indicator	GiftedTalented	String	 Optional element. Maximum length of one character. If provided, the only acceptable value is a single character in a rank from 0 through 2
Career Tech Ed Indicator	CTE	String	 Optional element. Maximum length of one character. If provided, the only acceptable value is a single character of 0 though 3.

Element Name Personal Graduation Plan	XML Name PersonalGradPlan	Data Type String	 Restriction Optional element. Maximum length of one character. The only acceptable value is a single character of 0 or 1.
Assessment Name	TestName	String	 Optional element. May be repeated for each assessment. Maximum length of two digits. If provided, the only acceptable values are listed in Code Table TC01. If provided, then the TestDate and TestScore or TestCode are required. If provided, then AdditionalTestName must be blank within each assessment.
Assessment Grade Level	TestLevel	String	 Optional element. May be repeated for each assessment. Maximum length of two characters. If provided, the only acceptable values are listed in Code Table TC12.
Assessment Score	TestScore	String	 Optional element. May be repeated for each assessment. If provided, then TestName or AdditionalTestName and TestDate are required. Maximum length of six characters. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?

Element Name Assessment Date	XML Name TestDate	Data Type Date	 Pestriction Optional element. May be repeated for each assessment. If provided, then TestName and TestScore or Test Code are required. Maximum length of seven characters. The date type implements an ISO data type in the form of yyyy-mm. The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01 and less than 2040-01. For STAAR® EOC, mm value 13 indicates Fall, 15 indicates Spring and 16 indicates Summer testing windows.
Assessment Date Exit Requirement Met	ExitRequirementMet Date	Date	 Optional element. May be repeated for each assessment. Maximum length of seven characters. The date type implements an ISO data type in the form of yyyy-mm. The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01 and less than 2040-01.
Assessment Score Code	TestCode	String	 Optional element. May be repeated for each assessment. If provided, then TestName or AdditionalTestName and TestDate are required. Maximum length of a single character. The only acceptable values are listed in Code Table TC02.
STAAR Performance Level	PerformanceLevel	String	 Optional Element May be repeated for each assessment. If provided, then TestName or AdditionalTestName and TestDate are required. Maximum length of a single character. The only acceptable values are listed in Code Table TC31.

Element Name Additional Test Name	XML Name AdditionalTestName	Data Type String	 Restriction Optional element If provided, then TestName must be blank within each Assessment. Maximum length of 60 characters If provided, then the TestDate and TestScore or TestCode are required.
Assessment Subtest	SubTestName	String	 Optional element. Maximum length of 60 characters. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?
Assessment Subtest Score	SubTestScore	String	 Optional element Maximum length of 6 characters If provided, then the SubTestName and TestDate are required. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?
Course Category	SubjectArea	String	 Optional element. May be repeated for each course or academic year. Maximum length of four characters. The only acceptable values are listed in Code Table TC05
Class Period	ClassPeriod	String	 Optional element. May be repeated for each course or academic period. Maximum length of five characters. White space is preserved. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?

Element Name Course Name	XML Name CourseTitle	Data Type String	 Restriction Optional element. May be repeated for each course or academic period. Maximum length of one hundred characters. White space is preserved. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; "
Course Abbreviation	Abbreviation	String	 ',./<>? Optional element May be repeated. Maximum length of one hundred characters. White space is preserved. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ #\$%^&*()+=:;"
Course Number	CourseID	String	 ',./<>? Optional element. May be repeated for each course or academic period. Maximum length of eight characters for public schools. Maximum length of 64 characters for private schools. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ',./<>?
Course Semester	Semester	String	 Optional element. May be repeated for each course or academic period. Maximum length of one digit.

Element Name Course Grade	XML Name CourseGrade	Data Type String	 Restriction Optional element. May be repeated for each course. Maximum length of ten characters. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?
Withdrawal Course Grade	WithdrawGrade	String	 Optional element. May be repeated for each course. Maximum length of fifteen characters. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?
Course Grade Average	GradeAverage	String	 Optional element. May be repeated for each course. Maximum length of ten characters. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " ', . / < > ?
Final Grade Average	FinalGradeAverage	String	 Optional element. May be repeated for each course. Maximum length of ten characters. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " , . / < > ?
Course Credit	CourseCredit	String	 Optional element. May be repeated for each course. Implied decimal within #.# format.
Pass/Fail Credit Indicator	PassFailCredit	String	 Optional element. May be repeated for each course, Maximum length of two characters. If present, the only acceptable values are listed in Code Table TC25.

Element Name Course Teacher	XML Name CourseTeacher	Data Type String	 Restriction Optional element. May be repeated for each CourseTitle. Maximum length of forty characters. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; "
Semester Sequence	SemesterSeq	String	 ', . / < > ? Optional element. Maximum length of a single character. May be repeated for each course or AcademicSessionType. If present, the only acceptable values are 0 through A.
Special Explanation Code	Explanation	String	 Optional element. Maximum length of a single character. May be repeated for each course. If present, the only acceptable values are listed in Code Table TC19.
Campus Awarding Credit	CreditCampus	String	 Optional element. Minimum length of nine characters. Must be valid TEA-approved campus identification number. Declared as a string data type to allow for zeros in the first position. The only acceptable value is nine characters in a sequence with each character in a range from 0 to 9.
Class Rank	ClassRank	String	 Optional element. Maximum length of five digits. If provided, the only acceptable value is a range from 0 through 99999.
Number in Class	ClassTotalNumber	String	 Optional element. Maximum length of five digits. If provided, the only acceptable value is a range from 1 through 99999.
Date of Ranking	ClassRankingDate	Date	 Optional element. The date type implements an ISO data type in the form of yyyy-mm-dd. The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.

Element Name Quartile	XML Name Quartile	Data Type String	 Restriction Optional element. Maximum length of a single character. If present, the only acceptable value is a single character in a rank from 1 through 4.
Grade Point Average	GPA	String	 Optional element. Maximum length of ten characters. Any of the following characters, including the space character, are valid: ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " , . / < > ?
Graduation Date	GraduationDate	Date	 Optional element. The date type implements an ISO data type in the form of yyyy-mm. The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01 and less than 2052-01.
Graduation Program Type	GraduationDiplomaT ype	String	 Optional element if GradeLevel 10 or lower. Maximum length of two characters. If provided, the only acceptable values are listed in Code Table TC13.
Certification of Coursework Completion Date	CertificateDate	Date	 Optional element. The date type implements an ISO data type in the form of yyyy-mm-dd. The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.
College Board Campus Code	CollegeCampusCode	String	 Optional element. Maximum length of six characters. Declared as a string data type to allow for zeros in the first position. The only acceptable value is six characters in a sequence with each character in a range from 0 to 9.
Texas Grant Indicator	TexasGrant	String	 Optional element. Maximum length of a single character. If provided, the only acceptable value is a single character in a rank from 1 through 7.

Element Name	XML Name	Data Type	Restriction
FHSP Participant Code	FHSPParticipantCod e	String	 The only acceptable values are listed in Code Table TC35
			Maximum length of one character.
			Optional element.
FHSP Disting Level Achieve	FHSPDistingIndicat orCode	String	 The only acceptable values are listed in Code Table TC35
Indicator Code			 Maximum length of one character.
			 Optional element.
Arts and Humanities	ArtsEndorsementC ode	String	 The only acceptable values are listed in Code Table TC35
Endorsement			 Maximum length of one character.
Indicator Code			 Optional element.
Business and Industry	BusinessEndorsem entCode	String	 The only acceptable values are listed in Code Table TC35
Endorsement			 Maximum length of one character.
Indicator Code			 Optional element.
Multi Disciplinary	MultiStudiesEndors ementCode	String	 The only acceptable values are listed in Code Table TC35
Studies			 Maximum length of one character.
Endorsement Indicator Code			 Optional element.
Public Services Endorsement	PublicServicesEndo rsementCode	String	 The only acceptable values are listed in Code Table TC35
Indicator Code			 Maximum length of one character.
			Optional element.
STEM Endorsement	STEMEndorsement Code	String	 The only acceptable values are listed in Code Table TC35
Indicator Code			 Maximum length of one character.
			 Optional element.
Immunization	ImmunizationCode	String	 Optional element.
Name			 Maximum length of thirty-five characters.
			 Any of the following characters, including the space character, are valid:
			ABCDEFGHIJKLMNOPQRSTUVWX YZabcdefghijklmnopqrstuvwxyz01234 56789 ~! @ # \$ % ^ & * () + = : ; " , . / < > ?
Immunization	ImmunizationDose	Integer	Optional element
Dose			Maximum length of two digits.
Immunization Date	ImmunizationDate	Date	Optional element.
			 The date type implements an ISO data type in the form of yyyy-mm-dd.
			 The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.

Element Name Disciplinary Action	XML Name DisciplineActionDate	Data Type Date	Restriction
End Date	DisciplineActionDate	Date	 Optional element. The date type implements an ISO data type in the form of yyyy-mm-dd.
			 The only acceptable value is a valid date with a minimum value greater than current date (date record is created).
Disciplinary Action Number	DisciplineActionNum	String	Optional element.
	Discipling Action Code	Ctrin a	Maximum length of three characters.
Disciplinary Action Code	DisciplineActionCode	String	Optional element.
0000			Maximum length of two characters.
			 If provided, the only acceptable values are listed in Code Table TC06.
Disciplinary Action	DisciplineActionReas	String	 Optional element.
Reason	on		 Maximum length of two characters.
			 If provided, the only acceptable values are listed in Code Table TC07.
Distinguished	DistinguishedAchieve	String	 Optional element.
Achievement	ment		 Maximum occurrence is one.
Advanced	AdvancedMeasure	String	 Optional element.
Measure			 Maximum occurrence is four.
			 The only acceptable values are listed in Code Table TC29
American Indian- Alaska Native	AmericanIndianAlask aNativeCode	String	 The only acceptable values are listed in Code Table TC16 (0/1)
			 Maximum length of one character.
			 Optional element.
Asian	AsianCode	String	 The only acceptable values are listed in Code Table TC16 (0/1)
			 Maximum length of one character.
			Optional element.
Black-African Americican	BlackAfricanAmeric icanCode	String	 The only acceptable values are listed in Code Table TC16 (0/1)
			 Maximum length of one character.
			Optional element.
Native Hawaiian-Pacific	NativeHawaiianPac ificIslanderCode	String	 The only acceptable values are listed in Code Table TC16 (0/1)
Islander	mcisianuel code		 Maximum length of one character.
			Optional element.
White	WhiteCode	String	 The only acceptable values are listed in Code Table TC16 (0/1)
			 Maximum length of one character.
			Optional element.
			Spanial diditional

Element Name	XML Name	Data Type	Re	striction
Hispanic-Latino	HispanicLatinoCode	String	•	The only acceptable values are listed in Code Table TC16 (0/1)
			•	Maximum length of one character.
			•	Optional element.

Example of TREx Instance

Following is an example of the XSD for an extract file for a student record. Please reference Appendix B of this manual for an example of the full TREx XML schema.

```
<?xml version="1.0" encoding="UTF-8" ?>
- <trex:TRExStudentRecords xmlns:trex="urn:us:tx:state:tea:TREx:v1.9</p>
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
- <TRExStudentRecord>
- <StudentIdentification>
 <StudentUniqueID>1234567890</StudentUniqueID>
- <Name>
 <FirstName>Joe</FirstName>
 <MiddleName>Q</MiddleName>
 <LastName>Jones</LastName>
 <Suffix>1</Suffix>
   </Name>
 <StudentID>333224444</StudentID>
- <Address>
 <Address>101 Congress Ave.</Address>
 <City>Austin</City>
 <StateProvince>TX</StateProvince>
 <PostalCode>78701</PostalCode>
   </Address>
   </StudentIdentification>
- <Parent>
<u>-</u> <Name>
 <FirstName>Cassandra</FirstName>
 <LastName>Jones</LastName>
   </Name>
   </Parent>
- <Parent>
- <Name>
 <FirstName>George</FirstName>
 <LastName>Smith</LastName>
   </Name>
   </Parent>
- <StudentDemographic>
 <Gender>M</Gender>
 <Race>5</Race>
- < Ethnicity>
 <AmericanIndianAlaskaNativeCode>O
 <AsianCode>1</AsianCode>
 <BlackAfricanAmericanCode>1</BlackAfricanAmericanCode>
 <HispanicLatinoCode>1</HispanicLatinoCode>
 <NativeHawaiianPacificIslanderCode>0</NativeHawaiianPacificIslanderCode>
 <WhiteCode>0</WhiteCode>
   </Ethnicity>
 <BirthDate>1997-4-1</BirthDate>
 <Language>98</Language>
```

```
<Migrant>0</Migrant>
  <FosterCare > 0 < /FosterCare >
 <MilitaryConnected>3</MilitaryConnected>
  <Dyslexia>0</Dyslexia>
  <Homeless>1</Homeless>
  <AsyleeRefugeeCode>2</AsyleeRefugeeCode>
   </StudentDemographic>
- <School>
 <SchoolID>00555555</SchoolID>
 <SchoolName>Bar School</SchoolName>
 <DistrictID>005555</DistrictID>
 <DistrictName>Bar Partner
- <Address>
 <Address>4103 Slaughter Lane</Address>
 <City>Austin</City>
 <Country>US</Country>
 <PostalCode>78749</PostalCode>
   </Address>
 <PhoneNumber>5124145247
 <Fax>5122920527</Fax>
   </School>
- < Enrollment >
 <GradeLevel>09</GradeLevel>
 <EntryDate>2002-8-30</EntryDate>
 <ExitDate>2007-1-3</ExitDate>
 < Withdraw Date > 2007-3-1 < / Withdraw Date >
 < WithdrawReason > 01 < / WithdrawReason >
 <GradePromoted>11</GradePromoted>
   </Enrollment>
- <SpecialPrograms>
 <LEP>0</LEP>
 <EconomicDisadvantaged>00</EconomicDisadvantaged>
 <AtRisk>0</AtRisk>
 <TitleI>O</TitleI>
 <SpecialEd>0</SpecialEd>
 <IEP>0</IEP>
 <Bilingual>0</Bilingual>
 <ESL>0</ESL>
 <GiftedTalented>2</GiftedTalented>
 <CTE>0</CTE>
 <PersonalGradPlan>0</PersonalGradPlan>
   </SpecialPrograms>
- <Assessment>
 <TestName>01</TestName>
 <TestLevel>10</TestLevel>
 <TestDate>2006-3</TestDate>
 <TestScore>100</TestScore>
   </Assessment>
- <Assessment>
 <TestName>05</TestName>
```

```
<TestLevel>11</TestLevel>
 <TestDate>2007-3</TestDate>
 <TestScore>100</TestScore>
   </Assessment>
- <Assessment>
 <TestName>06</TestName>
 <Testl evel>11</Testl evel>
 <TestDate>2007-3</TestDate>
 <TestScore>100</TestScore>
   </Assessment>
- <Assessment>
 <TestName>11</TestName>
 <TestLevel>10</TestLevel>
 <TestDate>2007-04</TestDate>
 <ExitRequirementMetDate>2007-05</ExitRequirementMetDate>
 <TestScore>Exempt</TestScore>
 <TestCode>D</TestCode>
   </Assessment>
- <Assessment>
 <TestName>12</TestName>
 <TestLevel>10</TestLevel>
 <TestDate>2007-02</TestDate>
 <ExitRequirementMetDate>2007-05</ExitRequirementMetDate>
 <TestScore>2100</TestScore>
   </Assessment>
- <Assessment>
 <TestName>14</TestName>
 <TestLevel>10</TestLevel>
 <TestDate>2007-02</TestDate>
 <ExitRequirementMetDate>2007-03</ExitRequirementMetDate>
 <TestScore>2100</TestScore>
- <AssessmentSubTest>
 <SubTestName>TAKS Writing</SubTestName>
 <SubTestScore>1000</SubTestScore>
   </AssessmentSubTest>
   </Assessment>
- <Assessment>
 <TestName>47</TestName>
 <TestLevel>10</TestLevel>
 <TestDate>2012-04</TestDate>
 <TestScore>1850</TestScore>
 <PerformanceLevel>2</PerformanceLevel>
   </Assessment>
- <Attendance>
 <DaysAttended>80</DaysAttended>
 <DaysAbsent>0</DaysAbsent>
   </Attendance>
- < Immunization>
```

```
<ImmunizationDate>2002-4-1
 <ImmunizationDose>25/ImmunizationDose>
   - < DisciplineAction >
 <DisciplineActionDate>2010-12-21/DisciplineActionDate>
 <DisciplineActionCode>25</DisciplineActionCode>
 <DisciplineActionReason>26</DisciplineActionReason>
   </DisciplineAction>
- <AcademicStatus>
  <GraduationDate>2007-6</GraduationDate>
 <GraduationDiplomaType>33</GraduationDiplomaType>
 <TexasGrant>1</TexasGrant>
 <FHSPParticipantCode>1/FHSPParticipantCode >
 <FHSPDistingIndicatorCode>1/FHSPDistingIndicatorCode>
 <MultiStudiesEndorsementCode>2</MultiStudiesEndorsementCode>
 <STEMEndorsementCode>1</STEMEndorsementCode>
- < Distinguished Achievements >
 <AdvancedMeasure>A</AdvancedMeasure>
 <AdvancedMeasure>D</AdvancedMeasure>
 <AdvancedMeasure>E</AdvancedMeasure>
 <AdvancedMeasure>F</AdvancedMeasure>
   </DistinguishedAchievements>
   </AcademicStatus>
- < CurrentCoursework >
- <Course>
 <CourseTitle>Algebra I 2092</CourseTitle>
 <CourseID>03100500</CourseID>
 <Semester > 1 </Semester >
 <ClassPeriod>6</ClassPeriod>
 <SubjectArea>MA</SubjectArea>
 <CourseGrade>95</CourseGrade>
 <Explanation>A</Explanation>
 <CourseTeacher>Smith</CourseTeacher>
   </Course>
 <SchoolYear>2006-2007</SchoolYear>
 <GradeLevel>09</GradeLevel>
   </CurrentCoursework>
- <AcademicSession>
 <SchoolYear>2006-2007</SchoolYear>
 <GradeLevel>08</GradeLevel>
- <Course>
 <CourseTitle>English 3 1030</CourseTitle>
 <CourseID>03220300</CourseID>
 <Semester>1</Semester>
 <ClassPeriod>1</ClassPeriod>
 <SubjectArea>ELA</SubjectArea>
 <CourseGrade>90</CourseGrade>
 <CourseGrade>95</CourseGrade>
 <CourseGrade>100</CourseGrade>
 <GradeAverage>95</GradeAverage>
```

```
<SemesterSeq>1</SemesterSeq>
   </Course>
- <Course>
 <CourseTitle>Biology 3091</CourseTitle>
 <CourseID>03010200</CourseID>
 <Semester>1</Semester>
 <ClassPeriod>2</ClassPeriod>
 <SubjectArea>SC</SubjectArea>
 <CourseGrade>90</CourseGrade>
 <CourseGrade>91</CourseGrade>
 <CourseGrade>92</CourseGrade>
 <GradeAverage>91</GradeAverage>
 <SemesterSeq>1</SemesterSeq>
   </Course>
- <Course>
 <CourseTitle>English 3 1030</CourseTitle>
 <CourseID>03220300</CourseID>
 <Semester>2</Semester>
 <ClassPeriod>1</ClassPeriod>
 <SubjectArea>ELA</SubjectArea>
 <CourseGrade>85</CourseGrade>
 <CourseGrade>85</CourseGrade>
 <CourseGrade>85</CourseGrade>
 <GradeAverage>85</GradeAverage>
 <CourseCredit>1.0</CourseCredit>
 <SemesterSeq>2</SemesterSeq>
 <FinalGradeAverage>90</FinalGradeAverage>
   </Course>
- <Course>
 <CourseTitle>Biology 3091</CourseTitle>
 <CourseID>03010200</CourseID>
 <Semester>2</Semester>
 <ClassPeriod>2</ClassPeriod>
 <SubjectArea>SC</SubjectArea>
 <CourseGrade>70</CourseGrade>
 <CourseGrade>75</CourseGrade>
 <CourseGrade>78</CourseGrade>
 <GradeAverage>74</GradeAverage>
 <CourseCredit>1.0</CourseCredit>
 <SemesterSeq>2</SemesterSeq>
 <FinalGradeAverage>83/FinalGradeAverage>
   </Course>
- <AcademicSummary>
 <GPA>3.0</GPA>
   </AcademicSummary>
   </AcademicSession>
- <AcademicSummary>
 <GPA>3.0</GPA>
 <ClassTotalNumber>200</ClassTotalNumber>
 <ClassRank>15</ClassRank>
```

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- <ClassRankingDate>2006-12-1</ClassRankingDate>
- <Quartile>1</Quartile>
 - </AcademicSummary>
 - </TRExStudentRecord>
 - </trex:TRExStudentRecords>

TREx Complex Types

Following is a list of the complex types and groups included in the TREx XML schema. Please refer to Appendix B for a full copy of the TREx XML Schema.

Complex Type Name	Sequence
AcademicSessionType	SchoolYear
	GradeLevel
	SessionType
	CourseType
	AcademicSummaryType

AcademicStatusType GraduationDate

GraduationDiplomaType

CertificateDate TexasGrantType

DistinguishedAchievements
FHSPParticipantCode
FHSPDistingIndicatorCode
ArtsEndorsementCode
BusinessEndorsementCode
MultiStudiesEndorsementCode
PublicServicesEndorsementCode

STEMEndorsementCode

AcademicSummaryType GPA

ClassTotalNumber

ClassRank

ClassRankingDate

Quartile

CollegeCampusCode

AddressType Address City

City

StateProvince Country PostalCode

AssessmentType TestName

TestLevel TestDate

ExitRequirementMetDate

TestScore TestCode

PerformanceLevel AssessmentSubTest

AssessmentSubTestType SubTestName

SubTestScore

AttendanceType DaysAttended

DaysAbsent

CourseType CourseTitle

CourseID

Complex Type Name Sequence

Abbreviation Semester ClassPeriod SubjectArea CourseGrade WithdrawGrade GradeAverage CourseCredit PassFailCredit Explanation CourseTeacher CreditCampus SemesterSeq

FinalGradeAverage

CurrentCourseworkType CourseType

SchoolYear GradeLevel SessionType

DisciplineActionType DisciplineActionDate

DisciplineActionNum DisciplineActionCode DisciplineActionReason

DistinguishedAchievementType AdvancedMeasure

EnrollmentType GradeLevel

EntryDate
ExitDate
WithdrawDate
WithdrawReason
GradePlaced
GradePromoted
GradeRetained

EthnicityType AmericanIndianAlaskaNativeCode

AsianCode

BlackAfricanAmericanCode

HispanicLatinoCode

NativeHawaiianPacificIslanderCode

WhiteCode

ImmunizationType ImmunizationCode

ImmunizationDate ImmunizationDose

ParentType PersonNameType

PersonNameType FirstName

MiddleName LastName Suffix Complex Type NameSequencePhoneNumberGroupPhoneNumber

Fax

SchoolType SchoolID

SchoolName DistrictID DistrictName AddressType

PhoneNumberGroup

SpecialProgramsType LEP

EconomicDisadvantaged

AtRisk TitleI SpecialEd IEP Bilingual ESL

GiftedTalented

CTE

Personal Graduation Plan

StudentDemographicType Gender

Race
BirthDate
Language
Migrant
Foster Care
MilitaryConnected

Dyslexia Homeless AsyleeRefugee

StudentIdentificationType StudentUniqueID

PersonNameType

StudentID PriorID LocalID AddressType

Student RecordType StudentIdentificationType

ParentType

StudentDemographicType

SchoolType
EnrollmentType
SpecialProgramsType
AssessmentType
AttendanceType
ImmunizationType
DisciplineActionType
AcademicStatusType
CurrentCourseworkType

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Complex Type Name

Sequence

AcademicSessionType AcademicSummaryType

TREx Simple Types

Following is a list of the simple types found in the

TREx XML schema:

Common NameSimple NameAcademic YearSchoolYear

Additional Test Name AdditionalTestName

Address (Student/Campus) Address

Advanced Measure AdvancedMeasure

American Indian-Alaska Native AmericanIndianAlaskaNativeCode

Arts and Humanities Endorsement Indicator Code ArtsEndorsementCode

Asian AsianCode
Assessment Date TestDate

Assessment Date Exit Requirement Met ExitRequirementMetDate

 Assessment Grade Level
 TestLevel

 Assessment Name
 TestName

 Assessment Score
 TestScore

 Assessment Score Code
 TestCode

 Assessment SubTest
 SubTestName

 Assessment SubTest Score
 SubTestScore

At Risk Indicator AtRisk
Bilingual Indicator Bilingual

Black-African American

Black-African American Code
Business and Industries Endorsement Indicator

Business EndorsementCode

Code

Country

Campus Awarding Credit CreditCampus

Campus Fax
Campus ID
Campus Name
Campus Phone
SchoolName
PhoneNumber

Career and Tech Ed Indicator CTE

Certification of Coursework Completion CertificateDate

City (Student/Campus) City

Class Period Class Period Class Rank Class Rank

College Board Campus Code CollegeCampusCode

Course Abbreviation Abbreviation Course Category SubjectArea Course Credit CourseCredit Course Grade CourseGrade Course Grade Average GradeAverage Course Name CourseTitle Course Number CourseID Course Semester Semester Course Teacher CourseTeacher Date of Birth **BirthDate**

Date of Ranking

Disciplinary Action Code

Disciplinary Action End Date

Disciplinary Action Number

Disciplinary Action Reason

ClassRankingDate

DisciplineActionCode

DisciplineActionDate

DisciplineActionNum

Disciplinary Action Reason

Country

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Following is a list of the simple types found in the

TREx XML schema:

Common Name Simple Name **District Name** DistrictName Dyslexia Indicator Code Dyslexia

Economically Disadvantaged Indicator EconomicDisadvantaged

ESL (English as Second Language) Indicator **ESL** Ethnicity Race

FHSP Disting Level Achieve Indicator Code

FHSPDistingIndicatorCode FHSP Participant Code FHSPParticipantCode FinalGradeAverage Final Grade Average First Name (Student/Parent) FirstName

Foster Care Indicator Code **FosterCare** Gender Code Gender

Generation Code (Student/Parent) Suffix

Gifted/Talented Indicator GiftedTalented Grade Level GradeLevel Grade of Retention GradeRetained

Grade Point Average GPA

Graduation Date GraduationDate

Graduation Program Type GraduationDiplomaType Hispanic Latino HispanicLatinoCode

Home Language Language Homeless Indicator Homeless

IEP (Individualized Education Program) Indicator **IEP**

Immunization Date **ImmunizationDate** Immunization Description **ImmunizationCode** Immunization Dose **ImmunizationDose** Last Date of Attendance ExitDate

Last Name (Student/Parent) LastName Last Withdrawal Date WithdrawDate

LEP (Limited English Proficiency) Indicator **LEP** Local Student ID LocalID Middle Name (Student/Parent) MiddleName

Migrant Indicator Migrant Military Connected MilitaryConnected

Multi Disciplinary Studies Endorsement Indicator MultiStudiesEndorsementCode

Code

Native Hawaiian Pacific Islander NativeHawaiianPacificIslanderCode

Number in Class ClassTotalNumber EntryDate Original Entry Date Pass/Fail Credit Indicator **PassFailCredit** Personal Graduation Plan PersonalGradPlan

Placed In Grade GradePlaced PriorID Prior ID

Promoted To Grade GradePromoted

PublicServicesEndorsementCode Public Services Endorsement Indicator Code

Quartile Quartile Race/Ethnicity Ethnicity Semester Sequence SemesterSeq Session Type SessionType

Following is a list of the simple types found in the

TREx XML schema:

Common Name
Special Education Indicator

Special Explanation

STAAR Performance Level State (Student/Campus)

STEM Endorsement Indicator Code

Student ID

Texas Grant Indicator
Title I Part A Indicator
Total Days Absent
Tx Student Unique ID
Unschooled Asylee/Refugee

White

Withdrawal Course Grade Withdrawal Reason Zip (Student/Campus) **Simple Name**

SpecialEd Explanation

PerformanceLevel StateProvince

STEMEndorsementCode

StudentID TexasGrant

Titlel

DaysAbsent StudentUniqueID AsyleeRefugee WhiteCode WithdrawGrade WithdrawReason PostalCode

4.35

TREx Enumerated Values

Following is a list of the data elements with enumerated values. These are described further in Sections 2 and 3 of this manual, as well as included in the schema in Appendix B.

Code Table Common Name	Element XML Short Name	Location
Advanced Measure	AdvancedMeasure	
		Student Record; Transcript
Assessment Name	TestName	Student Record; Transcript
Assessment Score Code	TestCode	Student Record
Bilingual Program Type Code	Bilingual	Student Record
Career Tech Ed Indicator	CTE	Student Record
Course Category	SubjectArea	Transcript
Country	Country	Transcript
Discipline Action Code	DisciplineActionCode	Student Record
Discipline Action Reason	DisciplineActionReason	Student Record
Economic Disadvantaged	EconomicDisadvantage	Student Record
ESL Program Type Code	ESL	Student Record
Ethnicity (USDE 1977 definitions)	Race	Student Record; Transcript
Foster Care Indicator Code	FosterCare	StudentRecord
FHSP	FHSPParticipantCode	Student Record
FHSP	FHSPDistingIndicatorCode	Student Record; Transcript
FHSP	ArtsEndorsementCode	Student Record; Transcript
FHSP	BusinessEndorsementCode	Student Record; Transcript
FHSP	MultiStudiesEndorsementCode	Student Record; Transcript
FHSP	PublicServicesEndorsementCode	Student Record; Transcript
FHSP	STEMEndorsementCode	Student Record; Transcript
Gender	Gender	Student Record; Transcript
Generation Code	Suffix	Student Record; Transcript
Gifted Talented Indicator	GiftedTalented	Student Record
Grade Level	GradeLevel	Student Record; Transcript
Graduation Program Type	GraduationDiplomaType	Transcript
Home Language	Language	Student Record
Homeless Indicator	Homeless	Student Record
LEP Indicator	LEP	Student Record
Military Connected	MilitaryConnected	Student Record
Quartile	Quartile	Transcript
Participation Indicator Code	SpecialEd	Student Record
Participation Indicator Code	AtRisk	Student Record
Participation Indicator Code	Migrant	Student Record
Participation Indicator Code	IEP	Student Record
Participation Indicator Code	PersonalGradPlan	Student Record
Participation Indicator Code	Dyslexia	Student Record
Race/Ethnicity (USDE 1997	Ethnicity	Student Record, Transcript
definitions)	Ethinoity	Student Necord, Transcript
Semester Sequence Code	SamastarSag	Student Record Transcript
	SemesterSeq	Student Record, Transcript
Special Explanation Code STAAR Performance Level	Explanation PerformanceLevel	Transcript
		Student Record, Transcript
State Tayon Cront Indicator Code	StateProvince	Student Record, Transcript
Texas Grant Indicator Code	TexasGrant	Transcript
Title I Part A Indicator	Titlel	Student Record
Unschooled Asylee/Refugee Code	AsyleeRefugee	Student Record
Withdrawal Reason Code	WithdrawReason	Student Record

Hierarchy of XML Elements

```
TRExStudentRecords
        TRExStudentRecord (1 ... n)
                 StudentIdentificationType (1)
                          StudentUniqueID (1)
                          Name (1)
                                  FirstName (1)
                                  MiddleName (0 or 1)
                                  LastName (1)
                                  Suffix (0 or 1)
                         PriorID (0 or 1)
                         LocalID (0 or 1)
                          Address (0 or 1)
                                  Address (0 or 1)
                                  City (0 or 1)
                                  StateProvince (0 or 1)
                                  Country (0 or 1)
                                  PostalCode (0 or 1)
                 Parent (0 ... n)
                         Name (1)
                                  FirstName (1)
                                  MiddleName (0 or 1)
                                  LastName (1)
                                  Suffix (0 or 1)
                 StudentDemographic (1)
                         Gender (1)
                         Race (0 or 1)
                         Ethnicity (0 or 1)
                         BirthDate (1)
                         Language (0 or 1)
                         Migrant (0 or1)
                         FosterCare(0 or 1)
                         MiltaryConnected (0 or1)
                         Dyslexia (0 or 1)
                         Homeless (0 or 1)
                         AsyleeRefugeeCode (0 or 1)
                 School (1)
                         SchoolID (1)
                         SchoolName (1)
                         DistrictID (1)
                         DistrictName (0 or 1)
                         Address (0 or 1)
                                  Address (0 or 1)
                                  City (0 or 1)
                                  StateProvince (0 or 1)
                                  Country (0 or 1)
                                  PostalCode (0 or 1)
                         PhoneNumber (1)
                         Fax (0 or 1)
                 Enrollment (1)
                         GradeLevel (1)
                         EntryDate (0 or 1)
                         ExitDate (0 or 1)
                         WithdrawDate (0 or 1)
```

```
WithdrawReason (0 or 1)
        GradePlaced (0 or 1)
        GradePromoted (0 or 1)
        GradeRetained (0 or 1)
SpecialPrograms (0 or 1)
        LEP (0 or 1)
        EconomicDisadvantaged (0 or 1)
        AtRisk (0 or 1)
        TitleI (0 or 1)
        SpecialEd (0 or 1)
        IEP (0 or 1)
        Bilingual (0 or 1)
        ESL (0 or 1)
        GiftedTalented (0 or 1)
        CTE (0 or 1)
        PersonalGradPlan (0 or 1)
Assessment (0 \dots n)
        TestName (0 or 1)
        AdditionalTestName (0 or 1)
        TestLevel (0 or 1)
        TestDate (0 or 1)
        ExitRequirementMetDate (0 or 1)
        TestScore (0 or 1)
        TestCode (0 or 1)
        PerformanceLevel(0 or 1)
        AssessmentSubTest (0 ... n)
                 SubTestName (0 or 1)
                 SubTestScore (0 or 1)
Attendance (0 or 1)
        DaysAttended (0 or 1)
        DaysAbsent (0 or 1)
Immunization (0 \dots n)
        ImmunizationCode (0 or 1)
        ImmunizationDate (0 or 1)
        ImmunizationDose (0 or 1)
DisciplineAction (0 ... n)
        DisciplineActionDate (0 or 1)
        DisciplineActionNum (0 or 1)
        DisciplineActionCode (0 or 1)
        DisciplineActionReason (0 or 1)
AcademicStatus (0 or 1)
        GraduationDate (0 or 1)
        GraduationDiplomaType (0 or 1)
        CertificateDate (0 or 1)
        TexasGrant (0 or 1)
        DistinguishedAchievements (0 or 1)
        AdvancedMeasure (0...4)
        FHSPParticipantCode (0 or 1)
        FHSPDistingIndicatorCode (0 or 1)
        ArtsEndorsementCode (0 or 1)
        BusinessEndorsementCode (0 or 1)
        MultiStudiesEndorsementCode (0 or 1)
        PublicServicesEndorsementCode (0 or 1)
        STEMEndorsementCode (0 or 1)
CurrentCoursework (0 or 1)
```

```
Course (1 ... n)
                 CourseTitle (0 or 1)
                 CourseID (0 or 1)
                 Abbreviation (0 or 1)
                 Semester (0 or 1)
                 ClassPeriod (0 or 1)
                 SubjectArea (0 or 1)
                 CourseGrade (0 ... n)
                 WithdrawGrade (0 or 1)
                 GradeAverage (0 or 1)
                 CourseCredit (0 or 1)
                 PassFailCredit (0 or 1)
                 Explanation (0 ... n)
                 CourseTeacher (0 or 1)
                 CreditCampus (0 or 1)
                 SemesterSeq (0 or 1)
                 FinalGradeAverage (0 or 1)
        SchoolYear (1)
        GradeLevel (1)
AcademicSession (0 ... n)
        SchoolYear (1 ... n)
        GradeLevel (1)
        Course (1 ... n)
                 CourseTitle (0 or 1)
                 CourseID (0 or 1)
                 Abbreviation (0 or 1)
                 Semester (0 or 1)
                 ClassPeriod (0 or 1)
                 SubjectArea (0 or 1)
                 CourseGrade (0 ... n)
                 WithdrawGrade (0 or 1)
                 GradeAverage (0 or 1)
                 CourseCredit (0 or 1)
                 PassFailCredit (0 or 1)
                 Explanation (0 ... n)
                 CourseTeacher (0 or 1)
                 CreditCampus (0 or 1)
                 SemesterSeq (0 or 1)
                 FinalGradeAverage (0 or 1)
        AcademicSummary (0 or 1)
                 GPA (0 or 1)
                 ClassTotalNumber (0 or 1)
                 ClassRank (0 or 1)
                 ClassRankingDate (0 or 1)
                 Quartile (0 or 1)
                 CollegeCampusCode (0 or 1)
AcademicSummary (0 or 1)
        GPA (0 or 1)
        ClassTotalNumber (0 or 1)
        ClassRank (0 or 1)
        ClassRankingDate (0 or 1)
        Quartile (0 or 1)
CollegeCampusCode (0 or 1)
```