Prepared for:

by:

Smarter Balanced Reporting
Data Specification Format
Student Registration

Approvals

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Revision History

Revision Description	Author/Modifier	Date
Initial Release (DRAFT)	Steve Kang (Amplify)	2014.06.03

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Student Registration Data Dictionary

Student Registration data is composed of a pair of CSV and JSON files. CSV files are comma delimited and the first line must contain the header that lists the expected field names. Its corresponding JSON file contains the metadata that describes the Student Registration CSV data.

Student Registration CSV data format

Name	Description	Width (chars)	Required	Acceptable Values	Data Type	References
StateName	The name of the state in which the SEA address is located.	50	Y	one or more printable ASCII characters	xsd:token	None
StateAbbreviation	The abbreviation for the state in which the SEA address is located.	2	Y	AK CA CT DE HI IA ID KS ME MI MO MT NC ND NH NV OR PA	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=19974 CEDS Element ID 000267

				SC SD VI VT WA WI WV WY		
ResponsibleDistrictIdentifier	The district responsible for specific education services and/or instructions of the student.	40	Y	one or more printable ASCII characters	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20905 CEDS Element ID 000637
OrganizationName	The name of the district that provided serviced and/or instruction of the student.	60	Y	one or more printable ASCII characters	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=19902 CEDS Element ID 000204
ResponsibleSchoolIdentifier	The school responsible for specific education services and/or instructions of the student.	40	Y	one or more printable ASCII characters	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20774 CEDS Element ID 001069
NameOfInstitution	The full legal name of the institution.	60	Y	one or more printable ASCII characters	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=19831 CEDS Element ID 000191
StudentIdentifier	A unique number or alphanumeric code	40	Y	one or more printable	xsd:token	https://ceds.ed.gov/CEDSElem

	assigned to a student by a school, school system, a state, or other agency or entity. This does not need to be the code associated with the student's educational record; this ID may be assigned for use specifically with Smarter Balanced testing.			ASCII characters		entDetails.aspx?TermxTopicId=20775 CEDS Element ID 001071
ExternalSSID	A State assigned student Identifier which is unique within that state. This identifier is used by states that do not wish to share student personal identifying information outside of state-deployed systems. Components sending data to Consortium-deployed systems would use this alternate identifier rather than the student's SSID.	40	Y	one or more printable ASCII characters	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20775 CEDS Element ID 001071
FirstName	The full legal first name given to a person at birth, baptism, or through legal change.	35	N	zero or more printable ASCII characters	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20753 CEDS Element ID 000115
MiddleName	The full legal middle name given to a person at birth, baptism, or through legal change.	35	N	zero or more printable ASCII characters	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20786 CEDS Element ID 000184
LastOrSurname	The full legal last name borne in common by members of a family.	35	N	zero or more printable ASCII characters	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20781 CEDS Element ID 000172

Sex	The concept describing the biological traits that distinguish the males and females of a species	10	Y	Male, Female, NOT_STATED	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20811 CEDS Element ID 000255
Birthdate	The year, month and day on which a person was born.	10	N	YYYY-MM-DD	xsd:date	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=19995 CEDS Element ID 000033
GradeLevelWhenAssessed	The grade or developmental level of a student when assessed.	10	Y	03 04 05 06 07 08 09 10 11 12 13 PS	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20749 CEDS Element ID 000100
HispanicOrLatinoEthnicity	An indication that the person traces his or her origin or descent to Mexico, Puerto Rico, Cuba, Central and South America, and other Spanish cultures, regardless of race.	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20765 CEDS Element ID 000144
AmericanIndianOrAlaskaNative	A person having origins in any of the original peoples of North and South America (including Central America), and who maintains cultural identification through tribal affiliation or community	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20907 CEDS Element ID 000016

	attachment.					
Asian	A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian Subcontinent. This area includes, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20908 CEDS Element ID 000020
BlackOrAfricanAmerican	A person having origins in any of the black racial groups of Africa.	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20909 CEDS Element ID 000034
NativeHawaiianOrOtherPacificIslander	A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20910 CEDS Element ID 000192
White	A person having origins in any of the original peoples of Europe, Middle East, or North Africa.	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20911 CEDS Element ID 000301
IDEAIndicator	A person having intellectual disability; hearing impairment, including deafness; speech or language impairment; visual impairment, including blindness; serious emotional disturbance (hereafter referred to as emotional disturbance); orthopedic impairment; autism;	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20771 CEDS Element ID 000151

	traumatic brain injury; developmental delay; other health impairment; specific learning disability; deaf-blindness; or multiple disabilities and who, by reason thereof, receive special education and related services under the Individuals with Disabilities Education Act (IDEA) according to an Individualized Education Program (IEP), Individual Family Service Plan (IFSP), or service plan.					
LEPStatus	sed to indicate persons (A) who are ages 3 through 21; (B) who are enrolled or preparing to enroll in an elementary school or a secondary school; (C) (who are I, ii, or iii) (i) who were not born in the United States or whose native languages are languages other than English; (ii) (who are I and II) (I) who are a Native American or Alaska Native, or a native resident of the outlying areas; and (II) who come from an environment where languages other than English have a significant impact on their level of language proficiency; or (iii) who are migratory, whose native languages are languages other than English, and who come from an environment where languages other than English are dominant; and (D) whose difficulties in speaking, reading, writing, or understanding the English language may be sufficient to deny the individuals (who are denied I or ii or iii) (i) the ability to meet the state's proficient level of achievement on state assessments described in section 1111(b)(3); (ii) the ability to successfully achieve in	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20783 CEDS Element ID 000180

	classrooms where the language of instruction is English; or (iii) the opportunity to participate fully in society.					
Section504Status	Individuals with disabilities who are being provided with related aids and services under Section 504 of the Rehabilitation Act of 1973, as amended.	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20810 CEDS Element ID 000249
EconomicDisadvantageStatus	An indication that the student met the State criteria for classification as having an economic disadvantage.	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20741 CEDS Element ID 000086
MigrantStatus	Persons who are, or whose parents or spouses are, migratory agricultural workers, including migratory dairy workers, or migratory fishers, and who, in the preceding 36 months, in order to obtain, or accompany such parents or spouses, in order to obtain, temporary or seasonal employment in agricultural or fishing work (A) have moved from one LEA to another; (B) in a state that comprises a single LEA, have moved from one administrative area to another within such LEA; or (C) reside in an LEA of more than 15,000 square miles, and migrate a distance of 20 miles or more to a temporary residence to engage in a fishing activity.	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20789 CEDS Element ID 000189
DemographicRaceTwoOrMoreRaces	A person having origins in any of more than one of the racial groups.	3	N	Yes, No	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId

						=20425 CEDS Element ID 000973
ConfirmationCode	A non-unique number or alphanumeric code assigned to a student by a school, school system, a state, or other agency or entity. This value may be a code or may be the student's first name if state policy allows. The code will be used to help authenticate the student at testing time.	50	Y	one or more printable ASCII characters	xsd:token	None
LanguageCode	The code for the specific language or dialect that a person uses to communicate.	3	N	values defined in https://ceds.ed.gov/languageCodes.aspx	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20829 CEDS Element ID 000317
EnglishLanguageProficiencyLevel	An indicator of an ELL student's English language proficiency based on a scale used by the State for reporting purposes.	20	N	zero or more printable ASCII characters	xsd:token	No CEDS; examples include: http://www.k12.wa.us/migrantbilingual/eld.aspx http://ell.dpi.wi.gov/files/ell/pdf/elp-levels.pdf
FirstEntryDateIntoUSSchool	The year, month and day of a person's initial enrollment into a United States school.	10	N	YYYY-MM-DD	xsd:date	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20860 CEDS Element ID 000529
LimitedEnglishProficiencyEntryDate	The year, month and day a student classified as limited English proficient entered the LEP program.	10	N	YYYY-MM-DD	xsd:date	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20717

						CEDS Element ID 001247
LEPExitDate	The year, month and day a student classified as limited English proficient exited the LEP program.	10	N	YYYY-MM-DD	xsd:date	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20880 CEDS Element ID 000570
TitleIIILanguageInstructionProgramType	The type of Title III language instructional programs.	27	N	DualLanguage, TwoWayImmersion, TransitionalBilingual, DevelopmentalBilingual, HeritageLanguage, ShelteredEnglishInstruction, StructuredEnglishImmersion, SDAIE, ContentBasedESL, PullOutESL, Other	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=19922 CEDS Element ID 000447
PrimaryDisabilityType	The major or overriding disability condition that best describes a person's impairment.	3	N	AUT, DB, DD, EMN, HI, ID, MD, OI, OHI, SLD, SLI, TBI, VI	xsd:token	https://ceds.ed.gov/CEDSElementDetails.aspx?TermxTopicId=20800 CEDS Element ID 000218

Student Registration JSON data format

Each csv file is accompanied by a corresponding JSON file. The JSON file provides the content type of the CSV file, the identification of the student registration information, and the notification callback.

Parent	Element Name	Description	Width (chars)	Requir ed	Acceptable Values	Data Type	Referen ces
Root	Content	The content type of the JSON file.	50	Y	StudentRegistration	xsd:token	None
Identification	Guid	The guid that uniquely identifies the student registration data.	50	Y	one or more printable ASCII characters	xsd:token	None
Identification	AcademicYear	The year for a particular school session.	4	Y	Format: YYYY representing 4 digit year	xsd:short	None
Identification	ExtractDate	The date in which student registration data was extracted.	10	Y	Format: YYYY-MM-DD	xsd:date	None
Source	TestRegSysID	The guid of the registration system.	50	Y	one or more printable ASCII characters	xsd:token	None
Source	TestRegCallbackURL	The callback URL used for notification.	512	N	A properly formatted URI.	xsd:token	None

Sample JSON file

```
{
  "Content": "StudentRegistration",
  "Identification": {
    "Guid": "009a34ee-4609-4b13-8ca2-ed1bc0386afb",
    "AcademicYear": "2015",
```

```
  "ExtractDate": "09-01-2014"
 },
 "Source": {
   "TestRegSysID": "800b3654-4406-4a90-9591-be84b67054df",
   "TestRegCallbackURL": "http://www.example.com/notification"
 }
}
```

Data Exchange Protocol

Student Registration data are expected to be transferred using SFTP to a tenant specific landing zone. The chroot jail landing zone enforces files to be either added and or deleted in a specific directory. We expect the tenant to provide their public SSH key which will be saved in our landing zone server. This allows tenants to SFTP without the need of a password.

The CSV and JSON files are expected to be Tar, GZip, signed and encrypted into one file, known as the Landing Zone file. The expected extension of the file is .tar.gz.gpg.

Encryption

GnuPG 1.4 is used for encryption of data files and we recommend using AES256 as the encryption algorithm. Encryption key needs to be exchanged between us and the client. The process involves the client generating a set of keys used for signing and then sharing the public key with us. In return, we share the public key that is used for encryption with the client.

Example commands to create a Landing Zone file:

1. Tar GZip the CSV and JSON files

```
tar -cvzf studentRegData.tar.gz data.json meta.csv
```

2. Sign and Encrypt the file

```
gpg –o studentRegData.tar.gz.gpg --local-user tenant@smarterbalanced.org --recipient
dataLoader@smarterbalanced.org --cipher-algo AES256 --encrypt --sign studentRegData.tar.gz
```