MLDS CENTER
Maryland Longitudinal Data System

Better Data • Informed Choices • Improved Results

Substantive Changes to

the

MLDS Data Inventory

December 2016

Contents

Overview

The Maryland Longitudinal Data System (MLDS) is Maryland's central repository for comprehensive data from all levels of education and into the State's workforce. The MLDS Governing Board is required to create an inventory of individual student and workforce data proposed to be maintained in the system (Md. Ed. Art. §24-704(g)(6)). Additionally, the data inventory serves to inform the public about the contents of the MLDS database. This document provides a comprehensive summary of data elements proposed to be maintained, or removed from the System.

Process

The development of the Data Inventory is a collaborative process between DLLR, MSDE and MHEC, and the Data Advisory Group members. The MLDS Data Advisory Group annually reviews the Data Inventory and identifies what data elements to propose for inclusion or remove from the System. All data must be relevant to answering one of the questions in the Research Agenda or generally identified as necessary for evaluating federal or State supported education programs. Data elements identified for inclusion or removal in the System are presented to the Governing Board for approval. Once approved, the requirements are developed with the agency and included in the data collection calendar.

Accessing the Data Inventory

Beginning in December 2016, the MLDS Data Inventory will be available online through the MLDS Center website. This change allows the inventory to be more dynamic, by presenting the inventory in a way that may be organized according to the user's needs.

Changes to the Data Inventory

As a result of publishing the Data Inventory in a dynamic format, this document will only include substantive changes for each of the domains. Substantive changes are inclusions or removals of data elements in the Data Inventory.

Administrative changes are made annually and include the following:
- Clarification to the database in which the data element is maintained (i.e. ODS or MDM)
- Corrections and consistency in the CEDS Global ID for the Data Element
- Consistency in reporting the Element Name

Student Data

State law (Education Article §24-701, Annotated Code of Maryland) defines student data to mean data relating to student performance, including the following:
- State and national assessments;
- Course-taking and completion;
- Grade point average;
- Remediation;
- Retention;
- Degree, diploma, or credential attainment;
- Enrollment; and

- Demographic data.

The law specifically prohibits the Center from collecting data on students from juvenile delinquency records, criminal and Child In Need of Assistance records, medical and health records; and discipline records.

Workforce Data

State law (Education Article §24-701, Annotated Code of Maryland) defines workforce data as data relating to:

- Employment status;
- Wage information;
- Geographic location of employment; and
- Employer information.

Understanding the Fields in the Data Inventory

Approval Status – identifies the Governing Board approval status for the Domain, Entity, or Element. Approval Status may either be 'Approved' are 'Proposed' for approval by the MLDS Governing Board for collection by the MLDS Center.

Approval Date – date that the Governing Board approved the inclusion of the Data Element to be maintained in the System.

Availability – the earliest date that the Date Element is available to the MLDS.

CEDS Global ID – is the Common Education Data Standards unique identifier for the data element. Data elements in the MLDS database are mapped to the [Common Education Data Standards](#) (CEDS Version 6.0) when possible. CEDS represents a national, collaborative effort to develop voluntary, common data standards across the P-20W pipeline and provides nationally recognized naming conventions and definitions. Where data cannot be mapped to CEDS 6.0 standards, alternate domain, entity, and element names are provided, if applicable.

Database – an indication of the location of the data element within the MLDS. Data elements are either in the Operational Data Store (ODS) or the Master Data Management (MDM) database. The MDM database contains confidential and sensitive information on student and workers and is restricted to specified authorized staff of the MLDS Center. The ODS contains sensitive, de-identified information on students and workers and is restricted to authorized staff of the MLDS Center.

Description – a description of the Data Element that provides additional information related to how the data element is collected, used, or defined in the System.

Domain – Domains indicate the sectors that are part of the MLDS: primary and secondary education (PK12), postsecondary, and workforce. The Data Inventory contains both internal and external domains. Internal domains relate to the MLDS partner agencies that provide student and workforce data directly to the MLDS through a memorandum of understanding. MLDS partners include: Maryland State Department of Education (MSDE), Maryland Higher Education Commission (MHEC), and Maryland

Department of Labor, Licensing and Regulation (DLLR). External domains are publicly available information or are provided through a memorandum of understanding with the external entity. Data from external sources are used to enhance the data received from internal sources, and provide additional context to the data in the System.

Internal domains include:
- Workforce,
- Postsecondary,
- PK12.

External Domains include:
- Integrated Postsecondary Education Data System (IPEDS),
- U.S. Census Bureau (CENSUS), and
- Motor Vehicle Administration (MVA).

Element Name – describes the data element provided to the MLDS. These are attributes of the Entity. This may be the name used by the partner agency, or a standard name used by CEDS.

Entity – Entities represent persons, places, events, objects or concepts about which the data is collected or shared. The Entities in the MLDS Data Inventory are:

- Address
- AE Student
- Assessments
- Authentication and Authorization
- EL Child
- EL Organization
- EL Staff
- Financial Aid
- Institutional Characteristics
- K12 Class/Section
- K12 Course
- K12 Organizations
- K12 School
- K12 Staff
- K12 Student
- LEA
- NA
- PS Institution
- PS Student
- Quarterly Employment
- Tuition
- W Employer
- W Person

Load Status – provides an indication of the status of the data element within the MLDS. *Active* data elements are loaded into the System and are currently in use. *Inactive* data elements are approved for use by the Governing Board, but are not currently used in the System for any of the following reasons:
- Not yet loaded into the MLDS, or
- Not yet provided to the MLDS.

Removed data elements have been eliminated from the System even though they may have been approved by the Governing Board for use. Data elements are removed for the following reasons:
  o No longer collected by the partner agency, or
  o Collected by the partner agency for their internal use but has limited or no use to the MLDS.

Source – indicates the origin of the data for the specific Domain. This may be the name of the data collection administered by the agency or the table name. The source is specific to the agency providing the data to the MLDS.

Workforce

Workforce domain data is provided to the MLDS from the Department of Labor, Licensing and Regulation (DLLR).

Proposed Sources

There are no proposed workforce data elements at this time.

Removal of Workforce Data Elements

Quarterly Wage File and UI Claimant

MLDS Center recommends removing six data elements that are not in use in the System. These data elements include parts of addresses and telephone numbers that are not relevant to the work of the MLDS.

Workforce Data Elements – Removals

The following data elements are recommended for removal from the MLDS Data Inventory:

CEDS Global ID	Entity	Element Name	Approval Status	Approval Date	Availability	Source	Database
000214	Quarterly Employment	Employer Zip Bar Code	Approved	2013	2008	Quarterly Wage File	MDM
000214	Quarterly Employment	Employer Zip Code Carrier Code	Approved	2013	2008	Quarterly Wage File	MDM
000269	Quarterly Employment	Employer Address Line 3	Approved	2013	2008	Quarterly Wage File	MDM
000279	Quarterly Employment	Employer Phone Number	Approved	2013	2008	Quarterly Wage File	MDM
000269	W Person	Address Line 2	Approved	2013	2008	UI_Claimant	MDM
000279	W Person	Telephone Number	Approved	2013	2008	UI_Claimant	ODS

PK12

PK12 domain data is provided to the MLDS from the Maryland State Department of Education (MSDE).

Proposed Sources

Assessments

One data element was missing from prior approval of the Assessment data elements. Assessment Test Date has been included to align to the data submission from MSD.

DECD (Division of Early Childhood Development)

MLDSC Staff have reached out to MSDE and the Division of Early Childhood Development to begin collecting the Kindergarten Readiness Assessment (KRA) data. The data elements for inclusion in the Data Inventory are detailed in the table below.

HSSC (High School Status and Completers)

MSDE has begun collecting additional fields in the High School Status and Completers data collection to capture students' College and Career Readiness Determination. The data elements for inclusion in the Data Inventory are detailed in the table below.

SSDS (Standard Student Demographic String)

MSDE maintains a Standard Student Demographic String that is reported on all data submissions to and from MSDE. The Data Inventory did not clearly cite these fields from MSDE. Additionally, MSDE is in the process of revising the Standard Demographic String to include new data elements. The data elements for inclusion in the Data Inventory are detailed in the table below.

USIS (Unique Student Identification System) and UTIS (Unique Teacher Identification System)

Each teacher and student in Maryland's public school system is assigned a unique identifier called a SASID for students and a SATID for teachers. Occasionally, it is discovered that a student or teacher was assigned multiple unique identifiers. In these cases, MSDE and the local school systems thoroughly research the identities. If it is determined that the identities are the same, the unique identifiers are merged together. MSDE is providing these data elements to the MLDS to assist with identity matching. These data elements will only be maintained in the Master Data Management system. The data elements for inclusion in the Data Inventory are detailed in the table below.

PK12 Data Elements – Proposed

The following data elements are proposed for inclusion in the MLDS Data Inventory:

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
001021	Assessments	Assessment Test Date	Proposed	2008	Assessments	ODS
000228	K12 Student	KRA Exempt Flag	Proposed	2015	DECD	ODS
000228	K12 Student	KRA Exempt Reason	Proposed	2015	DECD	ODS
000718	K12 Student	KRA Overall Proficiency Level	Proposed	2015	DECD	ODS
000245	K12 Student	KRA Overall Score	Proposed	2015	DECD	ODS
000718	K12 Student	KRA Subtest Proficiency Level	Proposed	2015	DECD	ODS
000245	K12 Student	KRA Subtest Score	Proposed	2015	DECD	ODS
000275	K12 Student	KRA Subtest Title	Proposed	2015	DECD	ODS
000321	EL Child	Other Prior Care	Proposed	2015	DECD	ODS
000321	EL Child	Predominant Prior Care	Proposed	2015	DECD	ODS
001068	K12 Student	Accountability Reporting LEA	Proposed	2008	HSSC	ODS
001069	K12 Student	Accountability Reporting School	Proposed	2008	HSSC	ODS
-	K12 Student	CCR Dual Enrollment Indicator	Proposed	2008	HSSC	ODS
-	K12 Student	CCR Indicator ELA	Proposed	2008	HSSC	ODS
-	K12 Student	CCR Indicator Math	Proposed	2008	HSSC	ODS
000061	K12 Student	CCR Transition Course Indicator	Proposed	2008	HSSC	ODS
000043	K12 Student	CTE CIP Code	Proposed	2008	HSSC	ODS
000029	K12 Student	CTE Technical Assessment Indicator	Proposed	2008	HSSC	ODS
000245	K12 Student	CTE Technical Assessment Score	Proposed	2008	HSSC	ODS
001021	K12 Student	CTE Technical Assessment Test Date	Proposed	2008	HSSC	ODS
-	K12 Student	Met Local Graduation Requirements	Proposed	2008	HSSC	ODS
000265	K12 Student	Rigorous HS Program Indicator-ACT 2.0	Proposed	2008	HSSC	ODS
-	K12 Student	Rigorous HS Program Indicator-Approved	Proposed	2008	HSSC	ODS

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
		Advanced Tech Ed				
-	K12 Student	Rigorous HS Program Indicator-Foreign Language	Proposed	2008	HSSC	ODS
000127	K12 Student	Rigorous HS Program Indicator-GPA 3.0	Proposed	2008	HSSC	ODS
-	K12 Student	Rigorous HS Program Indicator-Mathematics	Proposed	2008	HSSC	ODS
000265	K12 Student	Rigorous HS Program Indicator-SAT 1000	Proposed	2008	HSSC	ODS
-	K12 Student	Rigorous HS Program Indicator-Science	Proposed	2008	HSSC	ODS
000016	K12 Student	American Indian or Alaska Native	Proposed	2008	SSDS	ODS
000020	K12 Student	Asian	Proposed	2008	SSDS	ODS
000033	K12 Student	Birthdate	Proposed	2008	SSDS	MDM
000034	K12 Student	Black or African American	Proposed	2008	SSDS	ODS
000973	K12 Student	Demographic Race Two or More Races	Proposed	2008	SSDS	ODS
000529	K12 Student	English Learner Entry into the US Date	Proposed	2018	SSDS	ODS
000180	K12 Student	English Learner Exempt Flag	Proposed	2018	SSDS	ODS
000180	K12 Student	English Learner Indicator	Proposed	2008	SSDS	ODS
001247	K12 Student	English Learner Service Begin Date	Proposed	2008	SSDS	ODS
000570	K12 Student	English Learner Service End Date	Proposed	2008	SSDS	ODS
000115	K12 Student	First Name	Proposed	2008	SSDS	MDM
-	K12 Student	Foreign Exchange Student	Proposed	2008	SSDS	ODS
-	K12 Student	Foster Care	Proposed	2018	SSDS	ODS
000092	K12 Student	Free/Reduced Price Meals	Proposed	2008	SSDS	ODS
000255	K12 Student	Gender	Proposed	2008	SSDS	ODS
000121	K12 Student	Generational Suffix	Proposed	2008	SSDS	MDM
001210	K12 Student	Grade	Proposed	2008	SSDS	ODS
000144	K12 Student	Hispanic or Latino Ethnicity	Proposed	2008	SSDS	ODS

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
000149	K12 Student	Homeless	Proposed	2018	SSDS	ODS
000172	K12 Student	Last Name	Proposed	2008	SSDS	MDM
001068	K12 Student	Local Education Agency Identifier	Proposed	2008	SSDS	MDM
001071	K12 Student	Local Student ID Number	Proposed	2008	SSDS	MDM
000184	K12 Student	Middle Name	Proposed	2008	SSDS	MDM
000185	K12 Student	Migrant	Proposed	2008	SSDS	ODS
001576	K12 Student	Military Connected	Proposed	2018	SSDS	ODS
000192	K12 Student	Native Hawaiian or Other Pacific Islander	Proposed	2008	SSDS	ODS
001069	K12 Student	School Number	Proposed	2008	SSDS	ODS
000259	K12 Student	Social Security Number	Proposed	2008	SSDS	MDM
001242	K12 Student	Special Education	Proposed	2008	SSDS	ODS
000138	K12 Student	Special Education Certificate	Proposed	2008	SSDS	ODS
000263	K12 Student	Special Education End Date	Proposed	2008	SSDS	ODS
001071	K12 Student	State Assigned Student Identifier (SASID)	Proposed	2008	SSDS	MDM
000281	K12 Student	Title I Indicator	Proposed	2008	SSDS	ODS
000301	K12 Student	White	Proposed	2008	SSDS	ODS
001275	K12 Student	Date of Merge	Proposed	2008	USIS	MDM
001071	K12 Student	Merged State Assigned Student Identifier (SASID)	Proposed	2008	USIS	MDM
001275	K12 Staff	Date of Merge	Proposed	2008	UTIS	MDM
001071	K12 Staff	Merged State Assigned Teacher Identifier (SATID)	Proposed	2008	UTIS	MDM

Removal of PK12 Data Elements

MLDS Center recommends removing seven data elements that are not in use in the System.

Attendance

These three data elements are no longer collected by MSDE and are no longer provided to the MLDS.

SCGT

These three data elements are no longer collected by MSDE and are no longer provided to the MLDS.

Staff

The Faculty and Administration Performance Level School data element was approved by the MLDS Governing Board for inclusion in the System, but after review was determined to not be appropriate to provide to the MLDS.

PK12 Data Elements – Removals

The following data elements are recommended for removal from the MLDS Data Inventory:

CEDS Global ID	Entity	Element Name	Approval Status	Approval Date	Availability	Source	Database
000046	K12 Student	Cohort Year	Approved	2013	2008	Attendance	ODS
000531	K12 Student	Non-promotion reason	Approved	2013	2015	Attendance	ODS
000584	K12 Student	Cohort Graduation Year	Approved	2013	2015	Attendance	ODS
-	K12 Class/ Section	Prior to Secondary Course Identifier	Approved	2013	2015	SCGT	ODS
000060	K12 Class/ Section	Course Grade Point Average Applicability	Approved	2013	2015	SCGT	ODS
001074	K12 Class/ Section	Staff Member Identification System	Approved	2013	2015	SCGT	MDM
000589	K12 Student	Faculty and Administration Performance Level School	Approved	2015	2015	Staff	ODS

Postsecondary

Postsecondary domain data is provided to the MLDS from the Maryland Higher Education Commission (MHEC).

Proposed Sources

MHEC_4 and MHEC_5

MHEC is updating their data collections to accommodate revisions to the SAT assessment, including a data element for the new SAT mathematics score, and the new SAT Evidence Based Reading and Writing Score. Additionally, MHEC is including a flag to identify the link between their End-of-Term (EOT) and Enrollment Information (EI) data collections. The data elements for inclusion in the Data Inventory are detailed in the table below.

Postsecondary Data Elements – Proposed

The following Postsecondary domain data elements are proposed for inclusion in the MLDS Data Inventory:

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
000265	PS Student	SAT Math Score 2016	Proposed	2017	MHEC_4	ODS
000265	PS Student	SAT EBRW Score 2016	Proposed	2017	MHEC_4	ODS
-	PS Student	EOTS-EIS Match Flag	Proposed	2017	MHEC_5	MDM

Removal of Postsecondary Data Elements

There are no removals of Postsecondary Data Elements at this time.

Inactive Postsecondary Data Elements

The following data sources are inactive in the MLDS, because the data has not yet been provided to the MLDS per the Data Collection Calendar.

- MHEC_1
- MHEC_3
- MHEC_8
- MHEC_9

External Domains

External domain data is acquired by the MLDS from:

- Integrated Postsecondary Education Data System (IPEDS);
- U.S. Census Bureau (Census); and
- Maryland Department of Transportation, Motor Vehicle Administration (MVA).

IPEDS Data Elements

There are no proposed Data Elements. The IPEDS data elements remain inactive in the System, as the MLDS Center determines the best way to incorporate this information.

CENSUS Data Elements

There are no proposed Data Elements. The CENSUS data elements remain inactive in the System, as the MLDS Center determines the best way to incorporate this information.

MVA Data Elements

There are no changes to the MVA data elements.

Supporting Information

For more information on the MLDS Center please visit the MLDS Center website at www.mldscenter.org.

For additional information on CEDS 6.0 Data Standards visit ceds.ed.gov.
CEDS 101 describes what the CEDS standard is, why it is needed, and the parts of the CEDS standard.

Contributors and Change History

Date	Description/Reason for change	Authors/Contributors	Version
07/25/2012	Initial Draft	John Bruns	1.0
09/1/2012	Revision of content, addition of tables	John Bruns, Rob London	1.0
10/2/2013	Revision of content, addition of person, organization data elements; mapping to CEDS workforce elements added	John Bruns	2.0
10/29/2013	Added CEDS 4.0 details and data elements planned for the MLDS Master Data Management system	John Bruns	2.0
10/31/2013	Review and update	Chandra Haislet	2.0
11/1/2013	Updates to sections 2.0-5.0	Ross Goldstein	2.1
11/1/2013	Inactive CEDS 4.0 elements removed from Appendix B	John Bruns	2.2
11/15/2013	Active and Approved elements added to Appendix B and C; reserved elements removed	John Bruns	2.3
11/20/2013	Removed Appendices related to elements by policy question and system source; added active and Approved elements; denoted elements not mapped to CEDS 4.0	John Bruns	2.4
11/25/2013	Defined Approved elements as those approved by agencies for submission; removed Approved elements not approved	John Bruns	2.5
12/13/2013	All "Approved" data elements in Version 2.5 marked as active following MLDS Board approval	John Bruns	2.6
1/4/2014	Initial Draft of CEDS Elements	John Bruns (MSDE)	3.1
1/31/2014	Research Request of CEDS Elements	Mike Woolley (UMB)	3.1
2/28/2014	Availability of Data Alignment – K12	Janice Johnson (MSDE)	3.2
2/28/2014	Availability of Data Alignment – Workforce	Donni Turner (DLLR)	3.2
2/28/2014	Availability of Data Alignment – Postsecondary	Andrew Nichols (MHEC)	3.2
3/13/2014	Approved Items for Inventory	Chandra Haislet (MLDS Center)	3.3
5/28/2014	Availability of Data Alignment – Postsecondary	Jon Enriquez (MHEC)	3.4
6/2/2014	Approved Items for Inventory (Data Gab)	Chandra Haislet (MLDS Center)	3.5
6/6/2014	Availability of Data Alignment – Early	Phil Koshkin (ECE)	3.6

Date	Description/Reason for change	Authors/Contributors	Version
	Learning		
6/6/2014	Additional Postsecondary Data	Jon Enriquez (MHEC)	3.7
6/9/2014	Availability of Data Alignment – Workforce	Donni Turner (DLLR)	3.8
12/8/2014	Availability of Data Alignment – Governing Board Meeting 12/16/2014	Laia Tiderman (MLDS Center)	4.0
12/18/2014	Proposed Data Elements Approved by the Governing Board 12/16/2014	Laia Tiderman (MLDS Center)	4.1
11/10/15	Inclusion of Data Elements approved in previous versions (MHEC and DLLR) Inclusion of MVA Data Elements for approval by the MLDS Governing Board	Laia Tiderman (MLDS Center)	4.2
12/8/2015	Revisions by MHEC to Postsecondary Data Elements	Parris Jackson	4.3
12/9/2015	Final Revisions prior to presentation at the MLDS Governing Board	Laia Tiderman	4.5
12/15/2015	Final with approval from Governing Board	Laia Tiderman	4.5
10/13/2015	Revisions for Data GAB 10/19/2016	Laia Tiderman	4.7
11/1/2016	Published Data Inventory on MLDS Website Revised document to include substantive changes Included definitions for all fields included in online Data Inventory	Laia Tiderman	5.0
11/21/2016	Changes to proposed workforce sources and elements	Laia Tiderman	5.1
12/2/2016	Updates to *Overview*, inclusion of *Process*, *Student* and *Workforce Data* definitions, updates to *Understanding* the Fields in the Data Inventory	Laia Tiderman	5.2