

# EDUCATION MANAGEMENT INFORMATION SYSTEM MANUAL

## **CHAPTER 1** **Introduction to EMIS**



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## Chapter 1 Revision History

Version	Date	Owner/Source	Description
<b>1.00</b>	<b>2-21-2006</b>	<b>Office of Data Services</b>	<b>Version 1.0 Released</b>
1.01	5-02-2006		Added dates to Feb Count Week
			Clarified legislative ADM funding reference to include Feb.
	<b>5-15-2006</b>		Removed EMIS URL references
3.00	8-15-2006	Office of Data Services	<b>Version 3.0 Released</b>

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## Overview of EMIS

Established by law in 1989, the Education Management Information System (EMIS) provides the architecture and standards for reporting data to the Ohio Department of Education (ODE). School districts, data processing centers operated by Information Technology Centers (ITCs), formerly Data Acquisition Sites (DA-Sites), and other EMIS reporting entities are linked for the purposes of transferring data to ODE.

EMIS is the statewide data collection system for Ohio's primary and secondary education. Staff, student, district/building, and financial data are collected through this system. Staff data include demographic, attendance, and course information. Demographic, attendance, program, course, and test data are submitted to ODE at the student level. General school district and school building data, including financial data, are also reported through EMIS.

The source data for Ohio's accountability and funding systems are the EMIS data files. In addition, these files are utilized for many other state and federal requirements. There are four major functions of EMIS:

- 1. State and Federal Reporting**

Originally designed almost exclusively as a data collection mechanism, many of the system's functions and most of the required data elements are statutorily defined. The EMIS provision in law (Ohio Revised Code section 3301-0714) requires that certain student, staff, and financial data elements be collected and maintained by school districts and subsequently submitted to ODE. One of the primary functions of EMIS is to streamline state and federal reporting requirements for school districts.

- 2. Funding and Distribution of Payments**

EMIS provides a streamlined system for districts to report information required to receive state funding and to determine eligibility for federal funding. EMIS automates the complexity of the funding formula calculations specified in Ohio law so that districts do not have to interpret the legislation to calculate and report total counts of students. Districts report specific information on each student, such as student status, percent of time educated, attendance/absence days, disability condition, etc. EMIS aggregates and compiles the data to determine funding.

- 3. Academic Accountability System**

EMIS is at the heart of Ohio's academic accountability system for students, schools, and districts. It allows ODE to collect, analyze, and report data to a variety of audiences, such as policymakers, educators, administrators, and the general public, who need data to gauge the performance of their students. EMIS also serves as the mechanism for school districts to report test results – these academic assessments are at the core of the state's accountability system and are the basis of the local

report card. EMIS enables both ODE and school districts to comply with state law and federal *No Child Left Behind* (NCLB) requirements.

#### 4. **Generates Statewide and District Reports**

ODE collects, analyzes, and reports data to a variety of audiences, such as policymakers, educators, administrators, and the general public via EMIS. EMIS does provide data for the generation of state reports. Examples of statewide reports include: accountability reports, the Local report card, and the Teacher Supply and Demand Report. Other statewide reports are produced from EMIS data for the following: legislators, education organizations, and policy and research needs. School districts also receive data verification reports, after every EMIS processing, in order to validate data submitted to ODE.

### **EMIS Process**

School district personal, student software vendors, ITC staff, SSID (Statewide Student Identifier) third party vendor, staff, and representatives from the Ohio Department of Education each participate in a significant part of the EMIS process. The roles of the above units will further be discussed in later portions of this chapter. Below is an overview of how each of these units functions together, in each aspect of the EMIS Process.

#### **Data Collection and Extraction**

Data originate at the school district or EMIS reporting entity. Each entity may choose to report data, for operational purposes, using any student information software of their preference. However, EMIS data is to be reported and submitted according to the data definitions, requirements, and rules as instructed in Chapters 2, 3, 4 and 5 of the EMIS Manual. Once the data have been reported into the software system, local software extracts EMIS files and transfers the records to the ITC.

EMIS Maintenance Screens have been developed by the SSID (State Software Development Team). These screens allow school districts to bypass their local student software systems and edit/update their EMIS data files at the ITCs.

#### **Data Validation**

Prior to submitting the EMIS data to ODE, reporting entities have the opportunity to review their data, which is checked for accuracy and completeness. After EMIS data have been extracted, they are validated through several routines called “aggregations”, which are found in the EMIS state software. Derived from the business rules at the Department of Education, the aggregations will either allow data to be submitted to ODE<sup>1</sup>, or disallow data from being submitted in the form of a fatal error. EMIS reporting entities have the opportunity to produce validation and error reports.

<sup>1</sup> Data which receive a “warning” message are still accepted at ODE. However, the warning message may indicate a problem with how the data was reported.

### **Data Submission**

Once the ITC has aggregated, compiled, and formatted the data, data files/records are submitted to ODE. Each file is submitted according to its file layout as described in Chapter 5 of the EMIS Manual. Calculations for state and federal requirements are applied at ODE. The data are then used for funding, accountability, and reporting.

### **Data Verification**

After each EMIS processing, ODE releases data verification reports to the ITC's, which then make these verification reports accessible to the school districts. The data verification reports are tools which the school districts, and ITC's, can use to ensure that data have been reported accurately and completely to the Department of Education.

### **Operational Data Store and Data Warehouse**

After each EMIS processing, the EMIS files are moved into an operational data store, within the department. At the end of each reporting period, accountability data such as local report card data are cleansed and then moved into the ODE data warehouse. Local report card and accountability data are both defined and retrieved from the data warehouse within the department.

### **Security**

ITC sites must have a security policy that specifies procedures for access to their computers and to their databases. Copies of this policy shall be provided to all EMIS reporting entities whose data are being processed by the ITC. Procedures for assigning new user accounts, rotating and security of user passwords, and maintaining accounts for employee turnover must be included in the security policy.

All personnel at the ITC are to be bonded against the unauthorized use or release of EMIS data. Pursuant to state legislation<sup>2</sup>, the following is in effect: "Any person who removes data from the information system established under this section for the purpose of releasing it to any person not entitled under law to have access to such information is subject to section 2913.42 of the Revised Code prohibiting tampering with data. The ITC site may not provide any EMIS data to any individual, company or agency without the expressed written consent of the EMIS reporting entity, other than data that the ITC submitted to the Department.

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<sup>2</sup> ORC 3301.0714 (K)

## **Reporting Responsibilities**

### **EMIS Reporting Entities**

All city, local, and exempted village school districts, as well as vocational, education service centers, community schools, and the Department of Youth Services, are required to report data through EMIS. In addition, the Ohio School for the Deaf and the Ohio School for the Blind also report data through EMIS. These entities are required to report data according to the file layouts described in Chapter 5.

It is the EMIS reporting entities' responsibility to provide data on a medium that can be processed by the ITC site. Time is needed in order to process data. Therefore, it is important that school districts follow schedules established by their respective ITC.

The accuracy and correctness of the data is the sole responsibility of the EMIS reporting entity. ITC's provide data validation and error reports; however, the reporting entities are responsible for correcting such errors in a timely manner and resubmitting their data.

### **EMIS Coordinator**

Each EMIS reporting entity must designate an individual to serve as their EMIS Coordinator. This person receives all EMIS mailings, disseminates information to the appropriate persons, and ensures EMIS data is collected and reported in accordance with the EMIS manual on behalf of the reporting entity.

### **Information Technology Centers**

The Ohio Education Computer Network (OECN), comprised of the Information Technology Centers (ITCs), serves as the primary data acquisition vehicle. These sites provide data validation and aggregation points for school district data to pass through, prior to transfer to the Department.

Processing data is an important function of the ITC. This includes extracting, aggregating/validating, formatting, compiling, and transferring data according to the requirements set forth by the Department of Education. EMIS data can be extracted from software packages supported by the Department of Education, such as the Uniform School Payroll System (USPS) and Uniform School Accounting System (USAS). Private software vendors will have to modify their existing software packages in order to allow for the collection and extraction of EMIS data.

Some large city school districts function independently of an ITC and process all of their data locally. They do not use the services of an acquisition site in the OECN. These entities are responsible for processing, compiling, aggregating, formatting, validating, and transferring EMIS data according to the business rules set forth in this manual. All

data files/records must be submitted containing all data elements, as defined in the file layouts of Chapter 5.

Validation and error reports are created at the ITC after the data have been aggregated by the EMIS state software. Based on these reports, EMIS reporting entities can correct errors either by using the EMIS data entry programs, or by correcting the data locally, and then resubmitting the files to the acquisition site.

## **SSID Provider**

Although the SSID provider does not report directly to EMIS, they are responsible for maintaining the unique State Student Identifier database. One unique SSID is required for each public school student in Ohio. EMIS reporting entities, when reporting student-level data, must report the SSID on all student-level records transferred to ODE. IBM is the third party vendor for assigning unique SSIDs. In addition, valid SSID files are provided for purposes of data verification.

## **Ohio Department of Education**

The EMIS staff at the Ohio Department of Education (ODE) documents the EMIS data elements, definitions, and requirements in the form of the EMIS Manual. The appropriate file record layouts and data formats are also included in the manual. The manual provides EMIS data reporting instructions for EMIS reporting entities, EMIS Coordinators, ITC personnel, and educational software vendor staff.

ODE provides standard editing procedures to ITCs, educational software vendors, and EMIS reporting entities. These include specifications for the validations, errors, and options. In the process of loading EMIS files received, ODE will perform identical editing procedures. If severe errors are found; the file will be returned to the data acquisition site for correction. The Department is also responsible for notifying data acquisition sites when district data are received.

In addition, ODE is also responsible for the following:

- utilizing EMIS data to ensure appropriate funding for school districts
- compiling state and federal reports according to their respective requirements
- distributing Local Report Cards
- informing decisions regarding policy and/or legislation



## EMIS Reporting Periods

Within a school year, there are several nonconsecutive reporting periods. Each period is open for a different length of time, during a different part of the year. Different data elements and records are reported during each reporting period, as each has a unique purpose. Below is a brief, high-level, description of each reporting period.

### October (K)

Reporting Period K is most often referred to as October (K) reporting period. Student, staff, program, and course data are the primary data elements collected during this reporting period. One of the main purposes of the October (K) reporting period is to capture school district enrollment during the first full week of October. Known as “October Count Week,” and based in law, Ohio school districts<sup>3</sup> are funded based on the student ADM (Average Daily Membership) as reported to EMIS during the October and February Count Week<sup>4</sup>.

Generally, the October (K) reporting period is a data collection reflecting the district’s October Count Week. However, there are a few exceptions. The following are situations when the data collected in the October (K) reporting period does not necessarily reflect a student who was enrolled during the October Count Week.

- Summer graduates/withdrawals
- Preschool students who have an admission date after the district’s October Count Week and on or before December 1 of the current school year.

### February (C)

Beginning in FY07 there will be a new reporting period, Reporting Period C, referred to as February (C) reporting period.

The purpose of February (C) reporting period is to capture data needed for funding. This includes students who were enrolled during the first full week of February, hereafter known as February Count Week, and students who were enrolled in October Count Week and graduated on or before the last day of February Count Week.

Data elements on the records submitted for February reporting should reflect the status as of the end of the February Count Week. Additional reporting instructions are found throughout various chapters of the EMIS manual.

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<sup>3</sup> Community schools are funded monthly through the CSADM

<sup>4</sup> Exceptions do apply, and waivers are available to move to a count week prior to the first full week of the Count Week. This is addressed later in the EMIS Manual.

**December (M)**

Reporting period M, also known as December (M) reporting period, captures all students who have a current IEP on December 1 of the current year. Student Demographic, Attendance, and Program records are reported during this timeframe. Federal requirements require children with disabilities enrolled on or prior to December 1 of the current school year to be counted in the child count reported to them. In addition to children with disabilities, preschool students enrolled on or prior to December 1 are also captured within this reporting period. State requirements allow preschoolers, both with and without disabilities, to be included in counts for funding purposes.

**March (D)**

Also known as March reporting. CTAE (Career-Technical and Adult Education) Workforce Development Completer Follow-UP data are reported during this reporting period. This is the only record reported at this time.

**Yearend (N)**

Yearend (N) reporting is a data collection reflecting the district's entire school year, with the exception of the CTAE record reported in reporting period D. Yearend is designed to capture what has occurred in each district throughout the school year. This includes data elements describing student discipline, gifted, and attendance. Student testing records are also reported at yearend, which drive the Local Report Card and district accountability reports. In addition, the Proficiency-Only Test Record is reported during the Yearend (N) reporting period if an individual is not enrolled in the district but subsequently completes testing requirements, and having met graduation requirements, has been issued a diploma.

**July (H)**

Financial data elements are reported during the H reporting period.

**Five Year Forecast (P)**

Five Year Forecast data are reported during the P reporting period.

**EMIS Reporting Periods**

Each reporting period has a beginning and an ending EMIS data processing date. Because the calendar dates change from year to year, the EMIS processing schedule, indicating the beginning and end of a reporting period, may change. The EMIS processing schedule can be found on the EMIS website.

## Getting Help

The Department recognizes the need to provide support for EMIS. ODE has worked extensively to improve its customer support system. A customer service process has been designed based on input and recommendations from both school districts and ITC's. The goal of the customer support system is to efficiently and effectively respond to inquiries by leveraging Department, ITC, and also reporting entity resources.

### EMIS Coordinators

The first level of support is the designated EMIS Coordinator within each reporting entity. The EMIS Coordinator is responsible for the accuracy, completeness, and transfer of the EMIS data to the ITC. EMIS Coordinators should be the first to be consulted with any EMIS questions.

### ITCs

If an EMIS Coordinator needs assistance, then he/she should contact his/her ITC as the second level of support for assistance. The ITC's extensive EMIS expertise and close contact with districts enable them to provide rapid and reliable responses to 98 percent of districts' questions.

### Help Desk

As a third level of support, ITCs can direct questions to ODE and/or the SSDT through the OECN DAS Forum. One of the components of the Forum is the EMIS Help Desk. Technical questions may be answered by the SSDT as well as ODE. ODE generally will address education program related questions. Some inquiries require in-depth research, policy guidance and/or legal interpretation from ODE. They often cannot be addressed by a single individual or office within ODE.

## Synopsis of Data Records

Chapters 2, 3, and 4 each cover a set of data, as reported to EMIS. Each element has been precisely defined through a cooperative effort of school administrators, educational software vendors, the general public and representatives from ODE and OECN. EMIS is updated annually with data elements, definitions and reporting requirements in order to comply with changes in both State and Federal legislation, and also changes in educational programs/business rules. Therefore, data elements may be added and defined, removed, or adjusted annually according to such requirements.

Data for EMIS are reported in various formats. Data may be required to be submitted in the format of text, date, yes/no options, or numeric values. Valid options for various data elements are also defined in the subsequent chapters. When submitting a date value, the general format in which the date is submitted from school districts to the ITC is in the

format of Year, Month, Day; YYYYMMDD. Generally, student software programs will ensure that the correct format of the date is submitted even though the date may not be entered into the student software package as YYYYMMDD. Chapter 5 of the EMIS Manual lists the valid format for a year as the COBOL format: CCYY (Century, Year). A year in this century is considered 20XX even though we are in the “21<sup>st</sup> Century”.

Table 1.0 summarizes EMIS data by means of category. The associated data records as reported to ODE are listed next to the corresponding category. A comprehensive list of all data records, elements within each record, valid options per element, field record numbers, and required data format per element can be found in Chapter 5 of the EMIS Manual. However, the specific reporting instructions and definitions for each data element, found on each data record, are located in the following chapters of this manual, and are indicated in Table 1.0 below.

**Table 1.0**

<b>Data Category</b>	<b>Data Records</b>	<b>Reporting Instructions</b>
Student	Demographic, Attendance, Testing, CTAE Testing, Course, Program, Discipline, Gifted, OTELA (English Language Development Assessment), Kindergarten Readiness-Literacy, Preschool Assessment, Preschool ASQ, Special Education, CTAE Follow-Up.	Chapter 2
Staff	Demographic, Employment (Job), Contractor, Contractor Only, Course, Correlated Class Schedule for CTAE	Chapter 3
District & Building	Fall/October, February, Yearend	Chapter 4
Financial	Cash, Expenditure, Receipt, Operational Unit, Exhibit 1, Statements J-N R & S, Federal Assistance Detail, Spending Plan, Five Year Forecast	Chapter 4

## Legislation

Amended Substitute House Bill 140, passed by the 118<sup>th</sup> Ohio General Assembly in June of 1989, became effective August 2, 1990.

[Section 3301.0714](#) of the Ohio Revised Code required the State Board of Education to “adopt rules for a statewide Education Management Information System.” These rules, formulated by the EMIS Standards and Reporting Committee appointed by the state Superintendent of Public Instruction were proposed to the State Board of Education and became effective in April 1991. The adopted rules provide the organizational structure for the Ohio Education Management Information System (EMIS).

Amended Substitute House Bill 215, passed in June 1997, includes data accountability requirements to EMIS.

Amended Substitute House Bill 282, passed in July 1998, authorized the reporting of personally unidentifiable student level data through EMIS.

Through the use of a third-party administrator, the Statewide Student Identification System was implemented in 2002. Unique data verification codes are assigned to students in public school districts and community schools.

In 2003, HB 95 replaced the uniform software language in 3301.0714 (HB 215 of 1997) with the language mandating software be certified as EMIS compliant.

Complete versions of the above Revised Code sections can be found at Andersons Publishing website:

<http://onlinedocs.andersonpublishing.com/oh/lpExt.dll?f=templates&fn=titlepage.htm>

In addition, analyses and summaries of the above acts, along with the complete text of each act can be found on the Ohio General Assembly's website:

<http://www.legislature.state.oh.us/>

## **Terms of Use**

The Ohio Department of Education assumes no responsibility for any user's interpretation from an EMIS Manual which has been downloaded, manipulated/alterd, and/or disseminated through a means other than the ODE website.

## Navigating the EMIS Manual

### Formats

The EMIS Manual is created in Microsoft® Word 2002. However, it is available on the ODE EMIS website in both Microsoft® Word and also Adobe® PDF formats.

A separate Word/PDF document is created for each chapter 1-5 and also for all appendices. Every chapter has its own cover and table of contents pertaining only to the content in that particular chapter. Appendices may or may not have a table of contents, depending upon the nature/content of the appendix itself.

### Document Map

Microsoft® 2002 Word provides a tool called a Document Map to assist readers in navigating larger documents electronically. The Document Map is a separate pane that displays a list of headings in the document. Use the Document Map to quickly navigate through the document while keeping track of your location.

When you click on a heading in the Document Map, Microsoft® Word jumps to the corresponding heading in the document, displays it at the top of the window, and highlights the heading in the Document Map.

You can choose the level of detail to display in the Document Map. For example, you can display all headings or only top-level headings, or show or hide detail for individual headings. You can also set the font and size of the headings in the Document Map and change the highlight color of the active heading.

To get to the Document Map, click on “View”, and then select Document Map. For more information on the Document Map, click on Help, and search on Document Map.

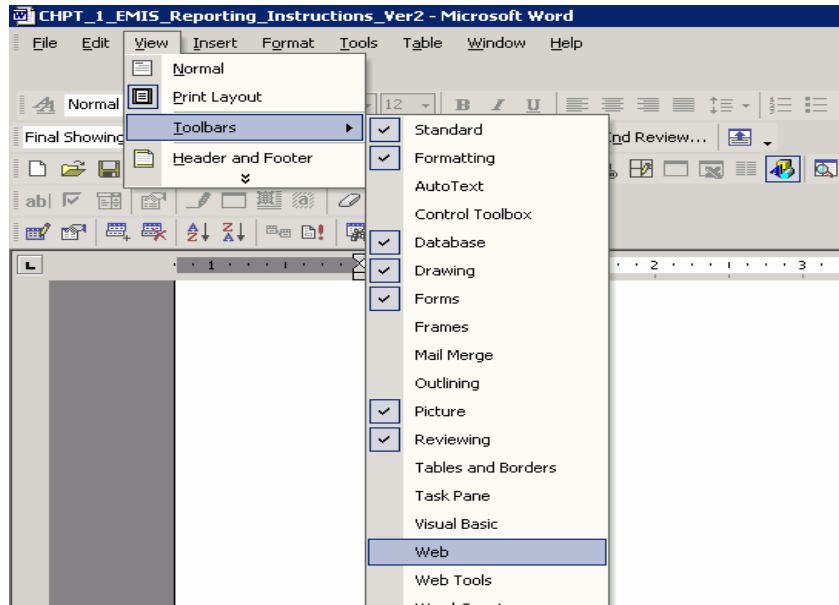
Similar to the Document Map, Adobe Acrobat (PDF) allows the user to navigate through the document by utilizing the “bookmark” tab on the left side of the page. Scroll to the section of the document you are interested to read and click on the heading.

### Table of Contents

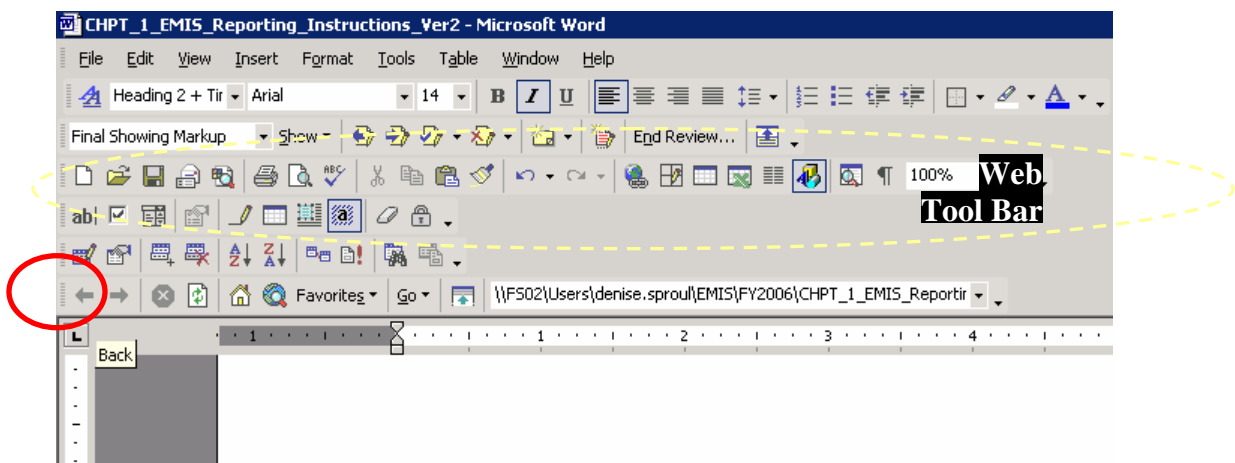
When viewing electronically, the Table of Contents acts as hyperlinks to the pages in the document, as identified in the table. Hover over a particular item in the table of contents with your cursor, press the Ctrl button on the key board and click the mouse. Microsoft® Word takes you directly to that section of the document.

In a sense, Microsoft® Word has the capability of acting like a web browser; the user can return or go back to the Table of Contents, or to the page he/she was reading after clicking a link that took him/her to a different page in the document. This functionality is

similar to that of the back button in a web browser, and can be done with the appropriate tool bar showing in MS Word® 2002: the Web toolbar. In order to have the web toolbar appear in MS Word® 2002, go to View at the top of the page, select Toolbars, and check the Web toolbar, if not already checked. Below is a picture.



Below is a picture of what the Web tool bar looks like in Microsoft® Word 2002. The back button is circled. When hovering over it with the cursor, the back caption will appear.



The table of contents in the Adobe© (PDF) versions provide similar functionality. The only exception that the user only has to point and click on the heading and **not** hold down the control button as with Microsoft® Word 2002.

## Footnotes

Footnotes are used throughout this manual, and are in the numeric <sup>1, 2, 3...</sup> format. In the Microsoft® Word 2002 version of this document, the end user may hover over the number of the footnote in order to read the text of the footnote without scrolling to the bottom of the page. When hovering over with the cursor, a caption which contains the text of the numbered footnote appears on the screen. When the cursor is not on the number, the caption disappears.

## References

References are used in this document to refer the reader to different pages within the document in order to provide additional information regarding the topic. References will appear after the section, looking like this [REF: pg 40](#). Similar to the Table of Contents, the reference acts as a link to another page within the document. By clicking on the reference link, the reader is taken to the referenced page. In order to return to the original page, the reader can use the “back” button in the Web tool bar to go back to the original page.

Both footnotes and references are hyperlinks in Adobe© (PDF). Therefore they can be used to navigate the manual through the point and click method as well.