

Overview

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Preface

The *Electronic Data Exchange (EDE) Technical Reference* is designed to meet the reference needs of programmers and data processing staff who want to incorporate electronic Free Application for Federal Student Aid (FAFSA[®]) and correction functionality into their institutional systems. This technical reference includes information about record layouts, required edits, printing assistance, and reject messages that are applicable for electronic FAFSA records, Institutional Student Information Records (ISIRs), electronic corrections, and signature records.

The information in this technical reference can assist you in developing your own software or creating bridges between your own mainframe software systems and the EDEExpress for Windows PC software. We also explain how you can create bridges between your systems and selected Web site functionality provided by Federal Student Aid for sending and receiving FAFSA data.

The remainder of this section provides the following:

- An overview of the EDEExpress and EDconnect software products, which you can use in combination with (or in place of) institutional systems you develop to exchange information with Federal Student Aid's data processors
- A description of Central Processing System (CPS) input and output data files
- An overview of new and modified items in the 2016-2017 version of the *EDE Technical Reference*

Software Products

To facilitate electronic data exchange, the U.S. Department of Education (ED) provides three software products free of charge to EDE participants: EDEExpress for Windows, EDconnect, and TDClient which can be found on the Department of Education's Federal Student Aid Download (FSAdownload) Web site located at fsadownload.ed.gov.

EDEExpress for Windows

EDEExpress is a financial aid management software package provided to Title IV financial aid administrators (FAAs) by ED. With EDEExpress, you can manage Title IV student financial aid application data, package awards, and exchange origination and disbursement data with the Common Origination and Disbursement (COD) System for Direct Loans, Pell Grants, and the Teacher Education Assistance for College and Higher Education (TEACH) Grant Program.

FAFSA and ISIR correction entry in EDEExpress uses embedded browser technology to provide an interface with the FAA Access to CPS Online Web site (faaaccess.ed.gov). You submit the data through the Web interface, and processed results are returned to your Student Aid Internet Gateway (SAIG) mailbox, also known as a destination point, which you can then import into EDEExpress.

Using this technical reference, you can create files of FAFSA data in the same format that the FAA Access to CPS Online interface uses to send data to the CPS. Some schools and agencies choose to send the data using EDE and import resulting ISIR data into EDEExpress for storage purposes. Then, they can also use EDEExpress data management tools and report functionality.

To enroll for access to the FAA Access to CPS Online Web site, go to the SAIG Enrollment Web site at fsawebenroll.ed.gov.

EDconnect

EDconnect is a Windows-based file transfer protocol (FTP) program that enables users to send and receive Federal Student Aid information electronically. Users collect data on their PCs or computer systems and transmit the collected data in batches over the SAIG using EDconnect. The appropriate Title IV Application System receives the data, processes the data, performs any required database cross-referencing, and returns the processed data to the user's SAIG mailbox, where it can be downloaded to the user's PC or system with EDconnect.

TDClient

Transaction Delivery Client Software (TDClient) is used to send and receive File Transfer Protocol (FTP) data transmissions securely over the Internet using FIPS 140-2 Advanced Encryption Standard (AES). Compression software is contained within TDClient, so separate steps are not needed in your send and receive scripts. TDClient is supported under several mainframe and mid-range operating systems. A list of supported operating systems can be found in the [SAIG Host Communication Guide](#) on the FSAdownload Web site.

EDE Input and Output Files

Input Data Files

Input data files are files that you create in your own system to submit your student FAFSA and FAFSA correction data. To be processed, these data files must match the record layouts included in the Record Layouts section of this technical reference.

Electronic FAFSA

After a student has completed and signed his or her FAFSA, a school's authorized FAA can submit it electronically by entering the data on the FAA Access to CPS Online Web site or by transmitting it to the CPS in a formatted ASCII file. The CPS transmits processed FAFSA records back to the school's mailbox as ISIRs in the IDAP17OP message class. A message class is a group of records of the same type.

The Record Layouts section of this technical reference contains the FAFSA Application Export Record Layout (EAPS17IN). Reject codes are found in the Processing Codes section. Procedures for handling rejected FAFSAs are located later in this section and in the EDE Processing section. The Printing section includes details on printing ISIRs.

Electronic Corrections

Schools can submit corrections to FAFSA data electronically by entering the data on the FAA Access to CPS Online Web site or by transmitting it to the CPS in a formatted ASCII file format. You can find the Correction Record Layout in the Record Layouts section of this technical reference. Electronic corrections are submitted in the CORR17IN message class. Valid field content specifications for the fields that you can correct are found in the Processing Codes section.

Information about adding your Federal School Code to receive electronic data, making signature corrections, and using the Correction Record Layout is located in the EDE Processing section.

Output Data Files

Output data files are the files you receive as a result of FAFSA or FAFSA correction data you submitted. You either receive a processed ISIR data file or a record level reject data file. The ISIR file contains student records that met the layout specifications expected by the CPS and defined in the Record Layouts section. Record level reject error files include student records that could not be processed because the format or the data in the file did not match the specifications.

Institutional Student Information Record (ISIR)

The CPS generates and sends an ISIR to each school listed on the student's FAFSA, in response to the following input:

- Electronic FAFSAs or corrections submitted by your school using EDE or FAA Access to CPS Online
- Electronic FAFSAs or corrections submitted by another school using EDE or FAA Access to CPS Online
- Web FAFSAs or corrections submitted using FAFSA on the Web or Corrections on the Web
- Paper FAFSAs or corrections to a Student Aid Report (SAR)
- Postscreening transactions from the National Student Loan Data System (NSLDS) or the Department of Homeland Security (DHS)
- System-generated transactions created by the CPS to provide updated data, such as revised match information from the Department of Defense (DOD) Match
- Federal Student Aid Information Center (FSAIC) corrections as a result of a student correction request or for issues such as a data entry error
- FAFSA data entered by FSAIC through the FAFSA on the phone application process

New for 2016-2017: We are changing the school codes that are included in the ISIR file. This is what you will receive if you are a:

- **School** – For each student, you will receive one ISIR that includes your Federal School Code. All other Federal School Code and Housing Code positions will be blank. In addition, the Electronic Federal School Code Indicator and FAA Federal School Codes fields will *always* be blank and the Electronic Transaction Indicator (ETI) Flag field will be set to the ETI flag of the school receiving the ISIR.
- **Servicer** – You will receive one ISIR for each student with only one Federal School Code and housing code listed. You will receive multiple ISIRs for a student if he or she included more than one Federal School Code for schools you service. In addition, the Electronic Federal School Code Indicator and FAA Federal School Codes fields will *always* be blank and the Electronic Transaction Indicator (ETI) Flag field will be set to the ETI flag of the school receiving the ISIR.
- **State Agency** – You will continue to receive ISIRs as you have in the past; all school and housing codes that the student listed on the FAFSA will be included on the ISIR.

The Record Layouts section of this technical reference provides the ISIR Record Description/Data Dictionary record layout. The Processing Codes section includes information on reject codes, the appropriate action to take, and the comment codes associated with the reject. Specifications for printing the ISIR are in the Printing section.

Handling Record Level Rejected Records

If the specifications in this technical reference are not followed on a particular record, an EDE Record Level Error Report File is transmitted to you and can be printed as an error report. The error layout is in the Record Layouts section.

The EDE Record Level Error Report Import Record Layout contains the student's Social Security Number (SSN), name ID, transaction number, last name, first name, the Federal School Code, the CPS Correction # (number) in error, an edit code, an error code, and a text explanation for the reason the record was rejected. Each field in error is reported in this file. If the record was rejected due to an invalid value, the CPS sends the actual value of the data received from the school. When a record has more than one field in error, the student's SSN is listed more than once in the EDE Record Level Error Report File. See the Processing Codes section for additional details about rejects.

The following is a list of message classes for reporting errors:

Message Class	Data
CORE17OP	Electronic Correction Errors
EAPR17OP	Electronic Application Errors
SIGA17OP	Signature Record Errors

What's New and Changed in the *EDE Technical Reference* for 2016-2017

Listed below are the changes to the *EDE Technical Reference*. For a complete listing of changes to the Central Processing System (CPS), including changes to database matches and system edits, refer to the *2016-2017 Summary of Changes for the Application Processing System* guide. You can find this guide, available later this fall, on the U.S. Department of Education's Information for Financial Aid Professionals (IFAP) Web site located at ifap.ed.gov, as well as the Federal Student Aid Download (FSADownload) Web site.

We revised the *EDE Technical Reference* for the annual rollover changes that include updating year references and adding, removing, renaming, renumbering, and updating the fields' start and end positions and valid content based on changes to the ISIR.

Overview Changes

We revised the What's New and Changed in the *EDE Technical Reference* for 2016-2017 section to describe changes to the document. We are changing the school codes that are included on ISIRs sent to schools and servicers. There is no change to the ISIRs that are sent to state agencies. See the "What's New for 2016-2017" note in the "Institutional Student Information Record (ISIR)" section on page 1-5.

EDE Processing Changes

We revised this section to include annual rollover changes and updated the Signed Numeric Fields Table based on ISIR field name and number changes.

New for 2016-2017: We have revised edits for corrections to school codes. The changes are described in the EDE Processing section.

Record Layout Changes

The record layouts for 2016-2017 did not change significantly. Each record layout includes a column called "Changes," which describes changes to that field; review that column for specific changes.

Processing Codes Changes

2016-2017 ISIR Cross-Reference

We updated the cross-reference to compare the 2015-2016 ISIR with the changes to the 2016-2017 ISIR record layout.

Table of Reject Codes and How to Respond to Each Code

- We incremented the date of birth end-year references in Rejects A and B, which alert FAAs that the date of birth entered may be in error, because the student is older than most students (greater than 75) or younger than most students (less than 16) pursuing a postsecondary education:
 - **Reject A** – Date of birth year equals 1900 through 1941
 - **Reject B** – Independent student and date of birth is on or after September 01, 2000, and the SSA match for the student is not equal to “4” (successful match)

Transaction Reject Error Messages

- We updated the year indicator in error 13 to “7” for 2016-2017.

Assumption Overrides

- We updated the tax year in Assumption Overrides 5 and 6.

Field Name and Position Cross-References

- We updated the ISIR Cross-Reference Table to reflect year reference changes in the field names. The field numbers, correction numbers, and field positions did not change.

NSLDS Loan Program Codes

- The NSLDS Program Codes did not change.

Correction Data Entry Specifications

We updated the data entry specifications to reflect the year reference changes in field names and valid content.

Message Class Changes

- We updated the process year in all message classes from “16” to “17.”

Comment Codes

- The Comment Codes section contains no significant changes. For more information, see the *Summary of Changes for the Application Processing System Guide*, which describes the changes to the comment codes and text or review the *SAR Comment Codes and Text* guide Changes column. Both guides will be available on the IFAP Web site later this fall.

Printing Changes

The Printing section describes the ISIR printed from EDEExpress.

Note: You are not required to print ISIRs. If you choose to print ISIRs, you can print them from your own system or EDEExpress. You are not required to print the ISIR output document exactly as the EDEExpress software prints it. For more information on printing ISIRs, refer to the Printing section in this technical reference.

The ISIR layout did not change significantly.

EDE Technical Reference Changes Since the Draft Release in September 2015

The following changes were made to the Records Layout and Processing Codes sections.

ISIR Record Description/Data Dictionary

Updated the ISIR Record Description/Data Dictionary in the Record Layouts section as follows:

- **Multi School Code Flags, ISIR field 372** – The Multi School Code Flag was changed to filler because servicers will no longer receive ISIRs with more than one school code listed. Servicers will receive multiple ISIRs for a student if he or she included more than one Federal School Code for colleges serviced.

Field Name and Position Cross-References

Updated Field Name and Position Cross-Reference table in the Processing Codes section to reflect FAFSA field name changes as follows:

- **SAR and FAFSA #23** – The FAFSA Field Name was revised to reorder the types of federal aid from “(such as grants, loans, or work-study)?” to “(such as grants, work-study, or loans)?”
- **SAR and FAFSA #26** – The wording of the FAFSA Field Name was revised from “When you begin college in the 2016-2017 school year, what will be your high school completion status?” to “What will your high school completion status be when you begin college in the 2016-2017 school year?”
- **SAR and FAFSA #28** – The wording of the FAFSA Field Name was revised from “Will you have your first bachelor’s degree before July 1, 2016?” to “Will you have your first bachelor’s degree before you begin the 2016-2017 school year?”
- **SAR and FAFSA #29** – The wording of the FAFSA Field Name was revised from “When you begin the 2016-2017 school year, what will be your grade level?” to “What will your grade level be when you begin the 2016-2017 school year,?”
- **SAR and FAFSA #30** – The wording of the FAFSA Field Name was revised from “When you begin the 2016-2017 school year, what degree or certificate will you be working on?” to “What degree or certificate will you be working on when you begin the 2016-2017 school year?”
- **SAR and FAFSA #44.d** – The SAR Field Name and FAFSA Field Name were revised to replace “student grant” with “college grant.”
- **SAR and FAFSA #55** – The wording of the FAFSA Field Name was revised from “As determined by a court in your state of legal residence, are you or were you in legal guardianship?” to “Does someone other than your parent or stepparent have legal guardianship of you, as determined by a court in your state of legal residence?”

- **SAR and FAFSA #93.d** – The SAR Field Name and FAFSA Field Name were revised to replace “student grant” with “college grant.”

Getting Help

CPS/SAIG Technical Support

If you have questions regarding this technical reference, contact CPS/SAIG Technical Support. Federal Student Aid maintains this call center to address questions about CPS processing, EDExpress, DL Tools, EDconnect and TDClient software, SAIG enrollment, and data transmissions, and to collect system enhancement suggestions.

800/330-5947; 319/665-4762; (TDD/TTY 800/511-5806)

Fax: 319/665-7662

Representatives are available Monday through Friday, 8 a.m. to 8 p.m. eastern time (ET).

E-mail: CPSSAIG@ed.gov

FSATECH

FSATECH is an e-mail listserv for technical questions about Federal Student Aid systems, software, and mainframe products.

For more information on subscribing to FSATECH, go to ed.gov/offices/OSFAP/services/fsatechsubscribe.html.