



U.S. Department of Education
1998 Electronic Access Conferences



***1999-2000
Electronic Data Exchange
(EDE) Technical Specifications
Changes and Updates***



Objective

Look at the EDE Technical Reference structure, content, and changes.



1999-2000 EDE Technical Reference

“The Electronic Data Exchange (EDE) Technical Reference Guide is designed to meet the reference needs of programmers and data processing staff.”



1999-2000 EDE Technical Reference

- 6 sections:
 1. Overview
 2. EDE Processing
 3. Layouts
 4. Processing Codes and System Requirements
 5. Printing
 6. Miscellaneous



1999-2000 EDE Technical Reference

- Removed 3 sections
 1. Data Dictionary
 2. Packaging
 3. SSCR



Overview

- Explains summary of EDE processes
- Summary of topics included in this section:
 - Layout Definitions
 - Renewal Application Process
 - Handling Rejected Applications
 - What's New for 1999-2000
 - What's Changed for 1999-2000
 - Sources of Assistance



EDE Processing

- This section describes the processes in more detail along with instructions for the financial aid office and state agencies



EDE Processing (cont.)

- Corrections using transaction 99
 - **Must send Federal School Code and DRN**
 - **CPS will make corrections to the latest transaction without an FAA EFC Adjustment**
- Duplicate requests
 - **Sent in CORR00IN file**
 - **Received in SARR00OP file**
 - Deleted Duplicate Message Classes
 - Deleted #D in batch identifiers



Record Layouts

- This section provides the system developer and the financial aid office with the design for the files that they send and receive in the EDE Process.
- Rearranged layouts
- Columns:
 - Field numbers -- Start and End positions
 - Field lengths -- Field names
 - Valid Field Content -- Justification



Record Layout Example

Header Record Sent To/Received From The CPS

Field #	Start Position	End Position	Field Length	Field Name	Valid Field Content	Justify
1	1	12	12	Header Record Identifier	CPS HEADER Left justified with one blank position after CPS, and two blank positions after HEADER	Left
2	13	16	4	Data Record Length Indicates length of the data records	4-digit numeric Right justified, zero filled	Right
3	17	17	1	Sent To CPS: Type of Data Transmitted ----- Received From CPS: Filler	A = Initial Applications R = Renewal Applications H = History corrections or Duplicate requests F = FDR Request 7 = RAD Request ----- For ED Use Only	Left
4	18	24	7	Destination Number WAN assigned when initial Letter of Application was processed	"TGXXXXX" where XXXXX is the 5-digit code for your destination point	Left



Record Layouts- Record Length Changes

	1998-1999 Length	1999-2000 Length	Change Amount
Header Record	87	85	+2
Trailer Record	102	109	+7
EDE Batch Level Error Report	106	109	+3
EDE Record Level Error Report	106	109	+3
ISIR Record/Data Dictionary	2563	2640	+77



Record Layouts- Record Length Changes (cont.)

	1998-1999 Length	1999-2000 Length	Change Amount
Type 2 Individual RAD Request	102	109	+7
RAD Request Address 1	73	73	
RAD Request Address 2	64	64	
RADD Import	553	553	
Initial/Renewal Application	650	560	-90



Record Layouts- Record Length Changes (cont.)

	1998-1999 Length	1999-2000 Length	Change Amount
History Correction	474	440	-34
Duplicate Request	474	440	-34
FDR Request	474	440	-34



Record Layouts- Header and Trailer

- **Modified trailer field**
 - Total Number of Student Records in this batch (57-61) defines number of students, not records
 - Example: 15 students' duplicate ISIRs requested. The value for this field is 15, not 2 -number of records (first record with 12 students & second record with 3 students).



Record Layouts- Header and Trailer (cont.)

- Added 3 Student Record Counts to trailer:
 - Accepted Record Count (88-94)
Number of accepted student records received as ISIRs
 - Error Record Count (95-101)
Number of student records in batch received as errors;
includes records not on database
 - Not on Database Count (102-108)
Number of student records whose identifier is not on
CPS database- Part of Error Record Count



Record Layouts- Error File Layouts

- Added Student Transaction number to batch level errors for corrections
- Error Message text
 - When error message is “Invalid Value” the invalid data sent by user will print to the right of of the “Invalid Value” message



Record Layouts- ISIR

- Increased from 2,563 bytes to 2,640 bytes
- Reorganized to more closely match the FAFSA and group “like data” such as processing data and match flags
- Added field descriptions to field names
- New layout format
 - Added “SAR Field Number” column
 - Added “Modified/Added” column
 - Justify column now tells if the field is signed



Record Layouts- ISIR Layout Structure

ISIR Record Description/Data Dictionary

(SARA00OP, EAPS00OP, REAP00OP, SARR00OP, ESN00OP, ESFR00OP, FDRF00OP)

Field #	SAR Field #	Start Position	End Position	Field Length	Modified/ Added	Field Name	Valid Field Content	Justify/ Signed
1		1	1	1	Modified	Batch Year	0 (zero) Will always be '0' (for 1999-2000)	Left
2		2	2	1		Student Last Name/ SSN Change Flag Indicates whether the student's last name and/or SSN have been changed.	N = Last Name change S = Social Security number change B = Social Security number and last name change Blank = No change	Left



Record Layouts- ISIR

- Reordered fields
- Deleted fields
- Added fields
 - FAFSA
 - ISIR
 - NSLDS
- Modified fields
 - General/Overview
 - FAFSA
 - ISIR
 - NSLDS



Record Layouts- ISIR (Reordered Fields)

- **Dependency status ?s**
 - Born before 01-01-1976?
(256)
 - **Graduate/Professional Student in 1999-2000?**
(257)
 - **Is Student Married? (258)**
 - **Orphan or Ward of the Court? (259)**
 - **Veteran of the US Armed Forces? (260)**
 - Have Legal Dependents other than a Spouse? (261)
- **Assumption Overrides**
 - deleted #6
 - #7 becomes #6 (490)
 - #8 becomes #7 (491)



Record Layouts- ISIR (Deleted Fields)

- Asset Values and Asset Debts
- Reject overrides G and U
- Individual signatures
- Special Conditions (expected values)
- Some assumptions
- Course of Study



Record Layouts- ISIR (Added Fields)

■ FAFSA

- Net Worth
(238-255 & 315-332)
 - Investments
 - Business
 - Investment Farm
- Legal Residents before
01-01-1994 for student
and parent (169 & 339)
- Are you Male? (176)
- Type of Tax Form
(190 & 266)
- Eligible to file 1040A or
EZ (191 & 267)
- Total Amount from
Worksheet A
(222-226 & 299-303)



Record Layouts- ISIR (Added Fields cont.)

■ ISIR

- Duplicate Date (1434-1441)
- ETI Destination Code (475-481)
- Record Type (500)
- SSN Date of Death (546-553)
- VA Match Flag (555)
- Compute Batch Number (582-584)
- Paid EFC (825-829)
- Compute values- (Primary & Secondary)
 - NW: EFC Net Worth (1011-1019, 1066-1174)
 - SATI: Student's Allowance against Total Income (1071-1077, 1226-1232)
 - SDNW: Student's Discretionary Net Worth (1085-1093, 1240-1248)



Record Layouts- ISIR (Added Fields cont.)

■ **NSLDS**

- NSLDS Flag (1465)
- NSLDS Pell Verification Flag
(1571-1573, 1615-1617 & 1659-1661)
- NSLDS Pell EFC
(1574-1577, 1618-1621 & 1662-1665)
- Third Pell Detail Record (1662-1700)
- NSLDS Grade Level (all 12 loans)



Record Layouts- ISIR (Modified Fields)

■ General / Overall

- Deleted all illegible
- Only 6 negative fields (signed-numeric)
 - AGI, student/spouse and parents (192-197 & 267-273)
 - Income earned from work: student, spouse, father and mother (210-221 & 287-298)
- Modified year reference for 1999-2000 process year
- All dates Y2K compliant



Record Layouts- ISIR (Modified Fields cont.)

■ FAFSA

- Different values for Student (153) and Parents' (333) Marital Status
- Added comma to Street Address and City
- Foreign Country = FC
- 3 for Citizenship Status (143)
- INS Verification Number = 15 bytes (529-543)
- Degree/Certificate (178)
- Grade Level in College (179) -- 1 byte
- Student (189) and Parents' (265) Tax Return filed
- Early Analysis is now correctable (467)



Record Layouts- ISIR (Modified Fields cont.)

■ ISIR

- Application (570) and Transaction (572)
Source Codes added
6 = FOTW and ROTW
- Correction and Highlight Flags (585-824) updated to reflect new SAR field numbers

■ NSLDS

- “Unsubsidized” to “Combined”
- “SEOG” to “FSEOG”



Processing Codes/ Systems Requirements

- Provides tables to assist user with
 - **Rejects**
 - **Error Messages**
 - Batch Level
 - Record Level
 - **ISIR Comment Code Text**
 - **SAR/ISIR Correction/Highlight Flags**
 - **NSLDS Codes**
 - **State/County/Jurisdiction Codes**
 - **Correction Data Entry Specifications**



Table of Reject Codes and How to Respond to Each

Reject Code	Reject Reason	Action	Comment Code
*B	Independent student and date of birth equals 09/01/83 or greater, and date of birth is not equal to or greater than current year.	Verify or correct the Date of Birth.	N/A
*N	Missing first or last name.	Verify or correct the student's last name and the first name.	80
P	Invalid SSN range.	Verify or correct the student's current SSN.	23
*W	Questionable number of family members, greater than 15.	If the student is dependent, verify or correct Parents' Number of Family Members. If the student is independent, verify or correct Student's Number of Family Members.	N/A
1	Simplified needs test is not met and all asset data are blank.	If the student is dependent, provide the following: Parents' Cash, Savings, and Checking; Parents' Investment Net Worth; Parents' Business Net Worth and Parents' Investment Farm Net worth If the student is independent, provide the following: Student's Cash, Savings and Checking; Student's Investment Net Worth; Student's Business Net Worth and Student's Investment Farm Net Worth.	N/A
2	Incomplete Application or Renewal Application .	If the student is dependent, provide parents' taxed and untaxed income. If the student is independent, provide student's and spouse's (if married) taxed and untaxed income.	N/A



Changes to Rejects

- Deleted reject reasons:
 - U & G (Real Estate Investment debt greater than value)
 - 26-32 and 46-52 (Negative asset values, or blank asset values with positive asset debts)
 - 3 (Incomplete Renewal Application), Combined with Reject 2
 - 6 (Not married and two expected year earnings reported - Special Conditions)
 - 12 (A field is illegible for EFC calculation)



ISIR Correction and Highlight Flags

SAR/ISIR Correction Flags Correction/Highlights

SAR Field # Correction/ Highlight Flag Field #	SAR Field Name	ISIR Field Positions	FAFSA Field Name	FAFSA #
001	Last Name	25-40	Last Name	1
002	First Name	41-49	First Name	2
003	Middle Initial	50	M. I.	3
004	Permanent Street Address	51-78	Your Permanent Mailing Address: Number and Street (Include Apartment Number)	4
005	City	79-94	Your Permanent Mailing Address: City	5
006	State	95-96	Your Permanent Mailing Address: State	6
007	Zip Code	97-101	Your Permanent Mailing Address: 's Zip Code	7

Correction Flags found in positions 585-704

Highlight Flags found in positions 705-824

If position 588 has a 1 in it, the Permanent Street Address has been corrected



Correction Data Entry Specifications

Correction Data Entry Specifications

SAR #	Field Length	Justify	Field Name	Valid Field Content	* = Correct to Blank
006	2	Left	Student's Permanent State	Uppercase A to Z Valid postal code See State/Country/Jurisdiction Table	Y
007	5	Right	Student's Permanent Zip Code	00000 to 99999 Must be 00000 if mailing state is CN, MX or FC	N
008	9	Right	Student's Current Social Security Number	001010001 to 999999999	N
009	8	Right	Student's Date of Birth	Format is CCYYMMDD 19000101 to 19991231	N
010	10	Right	Student's Permanent Phone Number	0000000000 to 9999999999	Y
011	1	Left	Do you have a Driver's License?	1 = Yes 2 = No	Y



Printing

- This section provides users with layouts to assist with printing ISIRs and Renewal Applications to the specifications approved by ED.
- Describes Assumptions, Highlights, Comments, Signed-Numeric values, Rejects and how to print them.
- Sample output documents



Example of a Print Layout

Detail for ISIR Page 2

Row	Column	Report Label FAFSA #	Print Instructions
7	3-4	Net Worth of Investment Farm 52	Print Student's Investment Farm Net Worth Right justify.
8	1-2	Have Driver's License? 11	If Have a Driver's License? = 1, print 'YES' 2, print 'NO' Right justify.
8	3-4	None	Leave blank.
9	1-2	Driver's Lic No. 12-13	Print Student's Driver's License Number and Student's Driver's License State Code in XXXXXXXXXXX-XX format. Right justify.
9	3-4	STEP TWO (THE STUDENT) (Q53 – Q58)	Print as is. Left justify.



Miscellaneous

- This section provides additional information necessary to further assist the user in the implementation of the EDE process.
- It contains the 1999-2000 ISIR Change List, EDE Message Classes, and testing procedures with test cases.



1999-2000 ISIR Changes List

- List provides the 1998-1999 and 1999-2000 Field Name and Number
 - (Does not list fields that only have different ISIR field numbers or positions.)
- A column listing fields Deleted, Added or Modified, in alphabetical order



1999-2000 ISIR Changes Table

1999-2000 ISIR Field Name	1999-2000 ISIR Field #	1998-1999 ISIR Field Name	1998-1999 ISIR Field #	Deleted, Added or Modified	Valid Field Content Modified
		Student's Assumed Expected Total from Worksheet #3	246	Deleted	
		Student's Expected Total from Worksheet #3	243	Deleted	
		Verification Type	241	Deleted	
Assumed VA status	236			Added	2 = Assumed not a Veteran Blank = No assumption
Are You Male?	33			Added	1 = Yes 2 = No Blank
Compute Batch Number	159			Added	000 to 999 Blank



1999-2000 ISIR Changes Table

1999-2000 ISIR Field Name	1999-2000 ISIR Field #	1998-1999 ISIR Field Name	1998-1999 ISIR Field #	Deleted, Added or Modified	Valid Field Content Modified
VA Match Flag	148			Added	1 = Veteran status confirmed 2 = Record found on VA database but not a qualifying Veteran 3 = Record not found on VA database 4 = Record found on VA database but applicant on active duty Blank = Record not sent to VA
Age of Older Parent	87		107	Modified	Deleted ? = Illegible
Application Receipt Date	127	Date Application Received	90	Modified	19990101 to 20001231
Application Site Code	155	Application Source Site Code	271	Modified	Added 5 = Site 5 Added 6 = Site 6
Application Source Code	154		208	Modified	2 = Electronic Renewal App 4 = FAFSA Express Added 6 = FAFSA on the Web/ Renewal App on the Web Deleted 3 = Electronic Corrections Deleted 8 = PIC



Miscellaneous - Message Classes

- **New...SYSG00OP**
 - CPS Reprocessing
 - NSLDS Post-Screening
 - Change in Hold status
- **Batch Number**
 - #Y for CPS reprocessing
 - #Z for other systems-generated batches



Other Changes

- Matches
- Edits



Matches

- New VA match (555)
 - Student answers Yes to “Are You a Veteran?”
 - Student sent to the VA Match for verification
 - SAR comments and SAR C flag are set based on results of match



Matches (cont.)

- Social Security Match (544)
 - Date of Death (DOD)(546-553) generates new reject (8) and SAR Comment 145
 - Match flag of 5 will be set for these records
 - Deleted Match flag 9 (records returned from SSA do not match records sent)



Matches (cont.)

- Selective Service Match(526) & Registration (527)
 - Are you Male? replaces Student's Title
 - Match flag N replaces blank (registration not completed)



Matches (cont.)

- National Student Loan Database System (NSLDS) (554)
 - Additional Pell detail record
 - Verification flag and EFC added to Pell records
 - “Unsubsidized” fields in Aggregate Loan data section renamed to “Combined”
 - Loan Amount and Outstanding Balance increased to 6 digits
 - Grade level added to loan records



Matches (cont.)

- Immigration and Naturalization Service (INS) (528)
 - Verification Number (529-543) increased from 13 bytes to 15 bytes

- Prisoner Match
 - Anticipated delivery Summer 1999
 - Positions are allocated in ISIR for match flag (556) and date (557-564).



EDIT Changes

- CPS converts 00 for Number of Family Members for Student and Parent to Blank
- All edits renumbered to reflect 1999-2000 system changes



Questions?



Summary

- No major structure changes to the EDE Technical Reference
 - Removal of the Data Dictionary, Packaging and SSCR sections
- Major Changes to the ISIR
- 1999-2000 ISIR Change List
- Changes to Matches
 - Addition of DOD
 - Addition of the VA match
 - Prisoner Match



CPS Customer Service

■ **CPS Customer Service 800/330-5947**

TDD/TTY: 800/511-5806

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Fax: 319/358-4260

Working hours: 7:00 a.m. - 7:00 p.m. (CT)

The Overview Section has a complete listing of the services offered by CPS CS.