

VOLUME I GETTING STARTED

COMMON ORIGINATION AND DISBURSEMENT
2017-2018 TECHNICAL REFERENCE



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Document Standards



The Common Origination and Disbursement System (COD) Technical Reference includes information for schools using the COD System. School Participants use the XML Common Record to submit Pell Grant, TEACH Grant, and/or Direct Loan data to COD.

The 2017-2018 COD Technical Reference contains message classes, edits, record layouts, implementation guides, and supporting information for Pell Grant, TEACH and Direct Loan Users.

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How to Use This Technical Reference

The *2017-2018 COD Technical Reference* is an operational guide that informs schools, vendors, and third-party servicers how to transmit Pell Grant, TEACH Grant, and Direct Loan Origination and Disbursement data to the COD System.

In particular, this Technical Reference provides the record layout and data elements that are required for the COD System to successfully process submitted records as well as the record layout and data elements for responses that are returned to participants by the COD System.

The information provided in this Technical Reference is not intended to reflect all Federal regulations that govern the Pell Grant, TEACH Grant, and Direct Loan programs and with which all participants must comply. As such, schools, vendors, and third-party servicers must refer to these regulations and documents such as the *Federal Student Aid Handbook* and Dear Colleague Letters for guidance on regulatory compliance.

Document Structure

The *2016-2017 COD Technical Reference* is comprised of six separate volumes that contain key 2017-2018 development information for COD Users. To use the technical reference effectively, choose the appropriate volume for your needs. Each volume has its own table of contents and individual sections.

Volume I: Getting Started

- Volume I Table of Contents
- Section 1: Document Standards
- Section 2: COD Overview of Changes from 2016-2017 to 2017-2018
- Section 3: COD Overview for Users

Volume II: Common Record Technical Reference

- Volume II Table of Contents
- Section 1: Implementation Guide
- Section 2: Message Classes
- Section 3: Common Record Layout
- Section 4: Edit Codes and Descriptions

Volume III: Pell Grant, TEACH Grant & Direct Loan Combination System Supplement

- Volume III Table of Contents
- Section 1: Combination System Implementation Guide
- Section 2: Combination System Message Classes
- Section 3: Combination System Record Layouts
- Section 4: Combination System Edit Codes and Descriptions

Volume IV: Direct Loan Tools

- Volume IV Table of Contents
- Section 1: Direct Loan (DL) Tools for Windows, available
Section 2: DL Tools Message Classes
- Section 3: DL Tools Record Layouts
- Section 4: DL Tools Reports

Volume V: School Testing Guides

- Volume V Table of Contents

- Section 1: COD School Testing Guide
- Section 2: COD Test Cases

Volume VI: Appendices

- Volume VI Table of Contents
- Section 1: Glossary of Terms
- Section 2: Funding Methods
- Section 4: State, Jurisdiction, Country, Codes
- Section 5: System Security
- Section 6: XML Examples
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- Section 8: COD Reports

Volume VII: System Generated Responses

- Volume VII Table of Contents
- Section 1: COD System Generated XML Response File Instructions
- Section 2: AC Doc Type Example
- Section 3: AT Doc Type Example
- Section 4: BN Doc Type Example
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- Section 8: PN Doc Type Example
- Section 9: PS Doc Type Example
- Section 10: SP Doc Type Example
- Section 11: SU Doc Type Example
- Section 12: OF Doc Type Example
- Section 13: CS Doc Type Example

Document Conventions

The *COD Technical Reference* update for the 2017-2018 Award Year features many new and exciting changes. The following design conventions have been applied to help distinguish between the information presented within this document.

Notes & Updates

Notes and updates are now placed in the margins, as well as important changes to system functionality.

Code Samples

All code samples, field names, and field values are now distinguished from regular text by their font face, *Courier New*. Extended snippets of code are presented in the following manner:

```
<DLLoanInformation AwardKey="1">
  <OriginationFeePercent>1.068</OriginationFeePercent>
  <InterestRebatePercent>0</InterestRebatePercent>
  <DisclosureStatementPrintCode>Y</DisclosureStatementPrintCode>
  <StudentLevelCode>1</StudentLevelCode>
  <FinancialAwardBeginDate>2016-09-01</FinancialAwardBeginDate>
  <FinancialAwardEndDate>2017-05-15</FinancialAwardEndDate>
  <AcademicYearBeginDate>2016-09-01</AcademicYearBeginDate>
  <AcademicYearEndDate>2017-05-15</AcademicYearEndDate>
</DLLoanInformation>
```

Calculations

Calculations have been highlighted and are presented in the following manner:

Eligibility Used Calculation

$$\text{EU \%} = 100\% \times (\text{Sum of Actual Disbursements of Award} - \text{DMCS Repayments of Award}) \div \text{Scheduled Award Amount}$$

Viewing & Printing the Document

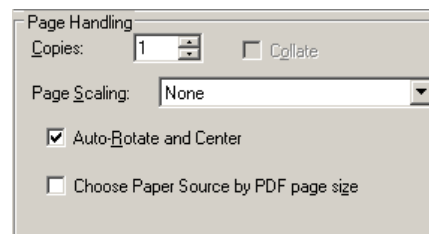
Updates to this document can be found posted on the following websites:

- FSA Download,
<https://www.fsadownload.ed.gov/CODTechRef1718.htm>
 - Provides PDF format
- IFAP,
<http://ifap.ed.gov/ifap/byAwardYear.jsp?type=codtechref&display=single>
 - Provides PDF format

Auto-Rotating

A number of documents in this Technical Reference will contain sections that are oriented differently, utilizing both landscape and portrait orientations to maximize usability. Some printers may not be automatically configured to print both orientations.

The user may have to configure the printer to auto-rotate the pages. This option can be set immediately before sending the document to the printer by selecting the “Auto-Rotate and Center” option:



Printing Double-Sided

This document is best printed in black and white on a printer that is capable of printing double-sided. Double-sided printing will ensure the mirror-margins appear correctly.

Alternatively, if your printer is unable to print double-sided, you can make sure your document is printed properly by following these suggested steps:

1. Print all even pages of the document
2. Load the even pages into the printer.
3. Print all odd pages of the document.

It is helpful to determine the paper orientation required to print on both sides properly so that the odd pages are not on the same side as the even pages or upside-down.

Please note that printing odd pages first, then even pages, may result in the entire document being collated backwards.

COD School Relations

If you have any questions regarding the information contained in this document, please contact the COD School Relations Center at the following phone numbers:

- (800) 474-7268 for Grant assistance
- (800) 848-0978 for Direct Loan

The COD School Relations Center can also be contacted via live chat on [COD Web](#), upon login.

Staff is available Monday through Friday, 8am-11pm Eastern Time. Or, please email COD Customer Service at CODSupport@ed.gov.

Overview of Changes from 2016-2017 to 2017-2018



This section provides an overview of the changes made for 2017-2018 for Common Origination and Disbursement (COD).

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Common Origination and Disbursement (COD) Changes

Changes from 2016-2017 to 2017-2018

The change descriptions are organized by the following three categories: Additions, Modifications, and Removals. The first column provides a description of each change. The remaining columns indicate which programs the change will affect.

Additions to Common Origination and Disbursement

Description	Pell Grant Program	Direct Loan Program	TEACH Grant Program
Program-Related Data Reporting	✓	✓	✓
Pell Grant School Account Statement (SAS) Report	✓		
Pell Grant School Account Statement (SAS) Disbursement Detail on Demand	✓		
SULA Adjustment Needed Report		✓	
Year-Round Pell	✓		
MPN Status Report		✓	

Modifications to Common Origination and Disbursement

Description	Pell Grant Program	Direct Loan Program	TEACH Grant Program
Edit 043	✓	✓	✓
Edit 065	✓		
Edit 068	✓		
Edit 071	✓	✓	✓
Edit 172	✓		
Edit 173	✓		
Edit 174	✓		
Edit 175	✓		
Edit 202	✓	✓	✓
Edit 203		✓	✓
Edit 204	✓		
Edit 208		✓	✓
Edit 209	✓	✓	✓
Edit 211	✓	✓	✓
Edit 221	✓	✓	✓
Direct Loan Rebuild		✓	
TEACH Rebuild			✓

Pell Year-to-Date			
COD Reporting Website			
Duplicate Student Borrower Report			
Direct Loan Actual Disbursement List			
Direct Loan Counseling Report			
Direct Loan School Account Statement (SAS)			
Direct Loan School Account Statement (SAS) Disbursement Detail on Demand			
TEACH Multiple Reporting Record (MRR)			
TEACH ATS Discharge Report			
TEACH Pending Disbursement List Report			
Pell Multiple Reporting Record (MRR)			
Pell Lifetime Eligibility Used			
Pell Pending Disbursement List Report			
Pell Verification Status report			
Pell POP Report			

Removals from Common Origination and Disbursement

Description	Pell Grant Program	Direct Loan Program	TEACH Grant Program
Edit 171			
Direct Loan Booking Warning Report			
Direct Loan SSN/Name/Date of Birth Change Report			
MPN Discharge Report			
Expired MPN Report			
MPNs Due to Expire			
Direct Loans Inactive Loans Report			
TEACH Inactive Grant Report			
TEACH SSN/Name/Date of Birth Change Report			
Pell SSN/Name/Date of Birth Change Report			

Additions to COD for 2017-2018

Program-Related Data Reporting

Beginning in March 2017, the COD System will be updated to collect program-related data information. For each program type, Pell, Iraq & Afghanistan Service Grant, TEACH and Direct Loan, relevant fields will be added to, or shifted in placement on, the schema to facilitate the eligibility determination process. Additionally, COD will begin editing on the new fields; new values and edits will be returned in the Common Record response.

For the Pell/Iraq & Afghanistan Service Grant programs, the following tags will be removed from the award block and added to the disbursement block. These tags will be required for all new disbursements for the 2017-2018 Award Year and forward:

- <PublishedPgmLengthYears>
- <PublishedPgmLengthMonths>
- <PublishedPgmLengthWeeks>
- <WeeksProgramsAcademicYear>
- <SpecialPrograms>
- <ProgramCredentialLevel>

For the Pell/Iraq & Afghanistan Service Grant programs, two existing fields will be required in the disbursement level block for Award Years 2017-2018 and forward:

- <EnrollmentStatus>
- <ProgramCIPCode>

For the Direct Loan Program, the following tags will be added to the disbursement block for Award Years 2017-2018 and forward. These tags will be required for all new disbursements for the 2017-2018 Award Year and forward. Please note, the fields will not be removed from the award block as they will remain in use for Award Years 2016-2017 and prior:

- <PublishedPgmLengthYears>
- <PublishedPgmLengthMonths>
- <PublishedPgmLengthWeeks>
- <WeeksProgramsAcademicYear>
- <SpecialPrograms>
- <ProgramCredentialLevel>

COD will validate that the fields are in the correct location for each award year; COD will return Edit 996 if the tags are not submitted in the correct blocks for the submitted award year.

For the TEACH Program, the following fields will be added to the disbursement block. These tags will be required for all new disbursements for the 2017-2018 Award Year and forward:

- <PublishedPgmLengthYears>

- <PublishedPgmLengthMonths>
- <PublishedPgmLengthWeeks>
- <WeeksProgramsAcademicYear>
- <SpecialPrograms>
- <ProgramCredentialLevel>

Pell Grant School Account Statement (SAS)

Beginning in March 2017, the COD System will deliver via the SAIG mailbox the Pell Grant School Account Statement (SAS) for Award Years 2017-2018 and forward.

Pell Grant School Account Statement (SAS) Disbursement Detail On-Demand

Beginning in March 2017, schools will be able to request the new Pell Grant School Account Statement (SAS) Disbursement Detail on Demand via the New Report Requests page in COD for Pell 2017-2018 and forward.

SULA Adjustment Needed Report

In June 2017, the SULA Adjustment Needed Report was made available to schools in 'Comma-Delimited with Headers' format in the COD Reporting Web site. Please refer to Volume VI Section 8 – Reports for more details.

Required Updates/Loan Reductions

In [Dear Colleague Letter Gen-13-13](#), schools are required to reduce remaining anticipated disbursements to zero, adjust all award amounts to equal the sum of actual disbursements, and adjust loan period dates to remove terms/payment periods for which no disbursement was made or retained. These changes are to be made within the 15-day reporting guidelines. For more detailed guidance see the Electronic Announcement 150% Direct Subsidized Loan Limit: Electronic Announcement #21 - Common Subsidized Loan Limit Usage Inquiries.

Beginning late 2017, in cases where the school has not made the required updates, the COD System will update the records when:

1. The school or FSA confirms the school has closed out for the award year for which the loan was reported.
And/Or
2. The closeout date has passed, the school is not on extended processing and the latest loan period (i.e. the financial award end date) for that school is in the past. The date of the reduction will be announced.

The reductions will be completed for all loan types and awards reported in 2012/13 and forward, to ensure more accurate subsidized usage calculations for borrowers.

Year-Round Pell

Dear Colleague Letter GEN-17-06 outlined new guidance regarding student eligibility to receive up to 1.5 times their Scheduled Federal Pell Grant (SFPG) for the 2017-2018 Award Year and forward, when the Additional Eligibility Indicator (AEI) is equal to “true” for the award year. This new guidance also applies to the Iraq Afghanistan Service Grant.

Beginning October 15, 2017, the COD System will accept, store, display, and return the optional <AdditionalEligibilityIndicator> (AEI) Boolean field in the Pell Award block. The AEI is required to be submitted on Pell Awards that will exceed the standard 100% SFPG so that the proper editing can be triggered. The AEI should not be submitted for a Pell Awards that will not exceed 100% of a student’s SFPG. Various edit modifications, outlined in this section and in more detail in Volume II, Section 4, will be made to accommodate this project.

MPN Status Report

Beginning October 15, 2017, the new MPN Status Report will be available to schools as a combination of the MPN Discharge Report, Expired MPN Report, and MPNs Due to Expire Report. The report will be sent to schools in ‘Comma-Delimited with Headers’ format in both SAIG and the COD Reporting Web site. The report will be sent in the new message class *MPNSTAOP*. Please refer to Volume VI Section 8 – Reports for more details.

Modifications to COD for 2017-2018

Edit 043

The COD System evaluates whether the common record received date is on or after the record submission deadline, before the record submission start date, or after the school has closed out for Direct Loan, Pell, and TEACH. If the common record is not received within the valid record submission date range without Extended Processing Period, or after school has been confirmed closed out, the award will be rejected with Edit 43. This Edit will continue to not apply to Pell Grants if it is a downward disbursement adjustment or if the student is in a POP situation.

Edit 065

The COD System triggers Disbursement Level Warning Edit 065 for Pell awards if the award’s Disbursement Amount is decreased but the Pell award is still in POP or Negative Pending situation. For 2017-2018 Award Year and forward this edit triggers regardless of the value of the AEI.

Edit 068

The COD System triggers Disbursement Level Warning Edit 068 for Pell awards if the student has two or more Pell awards in an award year at different schools, and the student is in a POP situation. This change began with the 2017-2018 Award Year, and will occur regardless of the value of the AEI.

Edit 071

If a new disbursement, disbursement adjustment, or a disbursement maintenance to set DRI = T for the first time is not received within the valid record submission date range (between Earliest Date to Accept a Common Record (EDACR) and Latest Date to Accept a Common Record (LDACR)) without Extended Processing Period, or after school has been confirmed closed out, the disbursement will be rejected with Edit 71. This Edit will continue to not apply to Pell Grants if it is a downward disbursement adjustment or if the student is in a POP situation.

Edit 172

The COD System will trigger the Award Level Rejecting/Correcting Edit 172 for Pell awards in the 2017-2018 Award Year and forward if the Pell Award Amount exceeds 1.5 times the student's Scheduled Federal Pell Grant (SFPG) and the AEI is equal to "true".

Edit 173

The COD System will trigger the Award Level Rejecting/Correcting Edit 173 for Pell awards in the 2017-2018 Award Year and forward when the AEI is changed from "true" to "false" and the Award Amount is greater than the student's SFPG.

Edit 174

The COD System will trigger the Award Level Warning Edit 174 for Pell awards in the 2017-2018 Award Year and forward when the AEI is changed from "true" to "false" and the Award Amount is reduced to an amount that is lower than the Total Funded Disbursement Amount.

Edit 175

The COD System will trigger the Award Level Warning Edit 175 for Pell awards in the 2017-2018 Award Year and forward when the AEI is changed from "true" to "false" and the TEU is greater than 100% plus the absolute net value of Closed School LEU Resoration Adjustments for that award year.

Edit 202

In March 2017 the COD System began to apply Edit 202 for the Direct Loan, Pell, Iraq & Afghanistan Service Grant, and TEACH program types at the disbursement level for Award Years 2017-2018 and forward.

Edit 203

In March 2017, Edit 203 began to be applied at the disbursement level for both TEACH and Direct Loan program types for Award Years 2017-2018 and forward.

Edit 204

In March 2017, the COD System began to apply Edit 204 for Pell and Iraq & Afghanistan Service Grants at the disbursement level for Award Years 2017-2018 and forward.

Edit 208

In March 2017, Edit 208 began to be applied at the disbursement level for both TEACH and Direct Loan program types for Award Years 2017-2018 and forward.

Edit 209

In March 2017, the COD System began to apply Edit 209 for the Direct Loan, Pell, Iraq & Afghanistan Service Grant, and TEACH program types at the disbursement level for Award Years 2017-2018 and forward.

Edit 211

In March 2017, the COD System retired common record Edit 211 for records submitted with in a 4.0c schema version; COD will continue to return Edit 211 for records submitted using an earlier version of the schema.

Edit 221

In March 2017, the COD System began to apply Warning Edit 221 to indicate a student's Pell Lifetime Eligibility Used (LEU) has been altered due to Closed School LEU Restoration adjustment.

Direct Loan Rebuild

In March 2017, the Direct Loan Rebuild file began to include program-related data reporting fields.

TEACH Rebuild

In March 2017, the TEACH Rebuild file began to include program-related data reporting fields.

Pell Year-to-Date (YTD) Report

In March 2017, the Pell Year to Date Report began to include program-related data reporting fields.

COD Reporting Website

School reports that are generated after October 15, 2017 will now be available in the new COD Reporting Web site instead of the current school Newsbox. The Report Selection and Report Request pages on COD Web will also be updated to reflect the new options and formats. Modified reports will be sent in new SAIG message classes. Please refer to Volume VI Section 8 – Reports for more details.

Duplicate Student Borrower Report

Beginning October 15, 2017, the Duplicate Student Borrower Report will be sent to schools with updated logic in 'Comma-Delimited with

Headers' format in both SAIG and the COD Reporting Web site. The 'Preformatted Text' and 'Pipe-Delimited' formats will no longer be available as of this date. Please refer to Volume VI Section 8 – Reports for more details.

Direct Loan Actual Disbursement List

Beginning October 15, 2017, the Direct Loan Actual Disbursement List will be sent to schools with additional fields in 'Comma-Delimited with Headers' format in both SAIG and the COD Reporting Web site. Please refer to Volume VI Section 8 – Reports for more details.

Direct Loan Counseling Report

Beginning October 15, 2017, the Direct Loan Counseling Report will be sent to schools with updated fields in 'Comma-Delimited with Headers' format only in the COD Reporting Web site. Please refer to Volume VI Section 8 – Reports for more details.

Direct Loan School Account Statement (SAS)

Beginning October 15, 2017, the Direct Loan School Account Statement (SAS) will be sent to schools in 'Fixed Length' or 'Comma-Delimited with Headers' formats in SAIG. The 'Comma-Delimited without Headers' and 'Pipe-Delimited' formats will no longer be available as of this date. Schools who are opted into the retired formats as of this date will begin to receive the 'Comma-Delimited with Headers' instead. This option can be updated to 'Fixed Length' on the Report Options page on COD Web. Please refer to Volume VI Section 8 – Reports for more details.

Direct Loan School Account Statement (SAS) Disbursement Detail on Demand

Beginning October 15, 2017, the Direct Loan School Account Statement (SAS) will be sent to schools in 'Fixed Length' or 'Comma-Delimited with Headers' formats in SAIG. The 'Comma-Delimited without Headers' and 'Pipe-Delimited' formats will no longer be available as of this date. Please refer to Volume VI Section 8 – Reports for more details.

Direct Loan Pending Disbursement Listing Report

Beginning October 15, 2017, the Direct Loan Pending Disbursement Listing Report will be sent to schools in 'Comma-Delimited with Headers' format in both SAIG and the COD Reporting Web site. The report will be sent in the new message class *DLPDyyOP*. The 'Preformatted Text' and 'Pipe-Delimited' formats will no longer be available as of this date. Please refer to Volume VI Section 8 – Reports for more details.

TEACH Multiple Reporting Record (MRR)

Beginning October 15, 2017, the TEACH Multiple Reporting Record will be sent to schools in 'Fixed Length' format via SAIG and will now be available in 'Comma-Delimited with Headers' format in the COD Reporting Web site. Please refer to Volume VI Section 8 – Reports for more details.

TEACH ATS Discharge Report

Beginning October 15, 2017, the TEACH ATS Discharge Report will be sent to schools in 'Fixed Length' format via SAIG and 'Comma-Delimited with Headers' format in the COD Reporting Web site. Please refer to Volume VI Section 8 – Reports for more details.

TEACH Pending Disbursement List Report

Beginning October 15, 2017, the TEACH Pending Disbursement List Report will be sent to schools in 'Comma Delimited with Headers' format in both SAIG and the COD Reporting Web site. The report will be sent in the new message class *THPEyyOP*. The preformatted version will no longer be available as of this date. Please refer to Volume VI Section 8 – Reports for more details.

Pell Multiple Reporting Record (MRR)

Beginning October 15, 2017, the Pell Multiple Reporting Record will be sent to schools in 'Fixed Length' format via SAIG and will now be available in 'Comma-Delimited with Headers' format in the COD Reporting Web site. Please refer to Volume VI Section 8 – Reports for more details.

Pell Lifetime Eligibility Used

Beginning October 15, 2017, the Pell Lifetime Eligibility Used will continue to be sent to schools in 'Comma Delimited with Headers' format in SAIG and will now be available in the same format on the COD Reporting Web site. Please refer to Volume VI Section 8 – Reports for more details.

Pell Pending Disbursement List Report

Beginning October 15, 2017, the Pell Pending Disbursement List Report will be sent to schools in 'Comma Delimited with Headers' format in both SAIG and the COD Reporting Web site. The report will be sent in the new message class *PGPEyyOP*. The preformatted version will no longer be available as of this date. Please refer to Volume VI Section 8 – Reports for more details.

Pell Verification Status Report

Beginning October 15, 2017, the Pell Verification Status Report will be sent to schools in 'Comma Delimited with Headers' format in both SAIG and the COD Reporting Web site. The report will be sent in the new message class *PGVSyyOP*. The preformatted version will no longer be available as of this date. Please refer to Volume VI Section 8 – Reports for more details.

Pell POP Report

Beginning October 15, 2017, the Pell Verification Status Report will be sent to schools in 'Comma Delimited with Headers' format in both SAIG and the COD Reporting Web site. The report will be sent in the new message class *PGPOyyOP*. The preformatted version will no longer be

available as of this date. Please refer to Volume VI Section 8 – Reports for more details.

Removals from COD for 2017-2018

Edit 171

This edit is no longer applicable and has therefore been removed from the COD System.

Retired COD Reports

The following reports will not be generated in both the COD Reporting Website and SAIG versions beginning October 15, 2017:

- Direct Loan Booking Warning Report
- Direct Loan SSN/Name/Date of Birth Change Report
- MPN Discharge Report
- Expired MPN Report
- MPNs Due to Expire
- Direct Loans Inactive Loans Report
- TEACH Inactive Grant Report
- TEACH SSN/Name/Date of Birth Change Report
- Pell SSN/Name/Date of Birth Change Report

The Common Origination and Disbursement (COD) System was implemented in April 2002 by the Office of Federal Student Aid (FSA) to re-engineer the process of delivering and reporting Federal Pell Grants and Direct Loans from two processes into one Common Origination and Disbursement Process. This section will provide an overview of the COD System, contact information for COD Customer Service, and high-level information regarding the common record files and how they are processed through COD.

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Common Origination and Disbursement

The Common Origination and Disbursement (COD) System was implemented in April 2002 by the Office of Federal Student Aid (FSA) to re-engineer the process of delivering and reporting Federal Pell Grants and Direct Loans from two processes into one Common Origination and Disbursement Process.

On July 1, 2006, the COD System implemented the Higher Education Reconciliation Act of 2005 (the HERA). The HERA introduced the Academic Competitiveness Grant (ACG), the National Science and Mathematics Access to Retain Talent (SMART) Grant, and the PLUS loan for graduate and professional student borrowers (Grad PLUS). The COD System processes Grad PLUS for the 2005-2006 award year and forward, and processes the two new Grant programs for the 2006-2007 through the 2010 -2011 award years.

On September 27, 2007, Congress enacted the College Cost Reduction and Access Act (CCRAA). As a result, the TEACH Grant Program was established effective beginning with the 2008-2009 Award Year. On July 1, 2008, the COD System began processing TEACH Grant awards for the 2008-2009 Award Year and forward.

Beginning in March 2016, the COD System will no longer process Academic Competitiveness Grant (ACG), the National Science and Mathematics Access to Retain Talent (SMART) Grant awards.

COD provides a common process and an integrated system that enables efficient delivery of Title IV Funds. COD allows for:

- Common Processing:
 - One process and record for submitting origination and disbursement data
 - Edits that are common across the Pell Grant, TEACH Grant, and Direct Loan programs
 - Data tags that are common across the Pell Grant, TEACH Grant, and Direct Loan programs, and are (approaching) a cross-industry standard for data definitions
 - Elimination of duplicate data reporting for Pell Grants, TEACH Grant, and Direct Loans
- Streamlined edits to reduce turnaround time for exception processing
- Expanded online capability to make corrections/changes, to process “emergency” requests, and to check transmission status

In general, the COD Process is a simplified process for requesting, reporting, and reconciling Title IV funds.

COD Users

A COD User utilizes the Common Record in XML format to submit Pell Grant, TEACH Grant, and/or Direct Loan origination and disbursement data to the COD System.

COD Participants may submit data to the COD system in two ways:

- Batch processing of Common Record documents over the Student Aid Internet Gateway (SAIG).
- Manual entry of Common Record data using the COD web site.

Users should refer to *2017-2018 COD Technical Reference, Volume II - Common Record Technical Reference* for record layouts and processes.

COD Web Site Cookies

The COD Web site uses a “cookie” to help visitors use the web site interactively. A cookie is a small file that a web site transfers to the user’s computer hard disk, usually for the purpose of tracking the user while he or she is connected to that site.

The cookie on this site does not collect any information about the user, only about the user’s browser session. The cookie makes it easier for users to use the dynamic features on these web pages, without having to provide the same information over and over again as the user moves from one page to another, essentially confirming that a valid log-in was performed each time the user moves to another page. If a user has his or her computer set to block all cookies, the cookie is not created at log-in. As a result, the COD Web site cannot validate when the user moves from one web page to another. If the COD Web site cannot validate the user, the user’s session is terminated and the user is forced to log in again. **To avoid this situation, all users must set their Internet browser Privacy settings for cookies to “high” or less.**

COD Web site & Privacy

For more information about COD Web privacy, please go to:

<https://cod.ed.gov/cod/Privacy>.

COD Customer Service

The COD School Relations Center integrates customer service for the Direct Loan, TEACH Grant, and Pell Grant Programs.

All schools should use the numbers or email address listed below for assistance:

- For Pell Grant and TEACH Grant assistance
 - (800) 474-7268
 - CODSupport@ed.gov
- For Direct Loan assistance – for award years 2002-2003 and forward
 - (800) 848-0978
 - CODSupport@ed.gov
- The COD School Relations Center can also be contacted via live chat on [COD Web](#), upon login.
- Transmit all batch files to the SAIG mailbox to be forwarded to COD to be processed
- Perform on-line Parent PLUS and Grad PLUS Credit Checks on the COD Web site at:
 - <https://cod.ed.gov>
- Mail all Promissory Notes, including overnights, to:

US Department of Education
100 Capitol Commerce Blvd., Suite 160
Montgomery, AL 36117

Direct Loan: Award Year 2001-2002 and Prior

For Direct Loan assistance for award years 2001-2002 and earlier, please e-mail dlops@ed.gov.

Cessation of Paper Pnote Printing

Beginning in November 2012, the COD System stopped printing and mailing paper promissory notes to borrowers or schools. MPNs are available for order via FSA Pubs (www.fsapubs.gov). Borrowers may still complete a paper MPN by downloading the form from StudentLoans.gov and mailing the completed promissory note to Federal Student Aid.

- Refunds of Cash for Direct Loans should be returned using the Electronic Refund function in G5. The Electronic Refund function can be accessed from the G5 “Main Menu.”
- **Refund Checks**
As of January 1, 2015 the COD System will no longer accept refund checks.
- Refunds of Cash for Pell Grants should be returned using the Electronic Refund function in G5. The Electronic Refund function can be accessed from the G5 “Main Menu.”
- Request Direct Loan Publications by contacting ED Pubs at:
 - Web: www.FSApubs.gov
 - Telephone: (800) 394-7084
 - E-mail: orders@fsapubs.gov
 - Fax: (301) 470-1244
- Schools choosing to create Master Promissory Note (MPN) forms instead of using Department provided forms must submit them for testing and review only to:

US Department of Education

ATTN: Rhonda Outlaw
100 Capitol Commerce Blvd., Suite 160
Montgomery, AL 36117

Submitting MPNs for Test and Review

All documents and shipping packages should be clearly marked “For Testing Only”.

Common Record Overview

The Common Origination and Disbursement process utilizes one single record across programs for both origination and disbursement. Participants use a Common Record, one that uses common data elements, definitions, edits, and structure for Pell Grants, TEACH Grants, and Direct Loans. Although the record has the same layout for all programs, not all data elements are required for each transmission. This record layout relies on a technology called the eXtensible Markup Language, or XML.

The Common Record was developed in partnership with members of the National Council of Higher Education Loan Programs (NCHELP) and the Postsecondary Electronic Standards Council (PESC). This collaborative effort enables the Common Record to bring consistency and standardization to the transmission of student financial aid data.

What is XML?

XML stands for eXtensible Markup Language. XML is a recommendation by the World Wide Web Consortium (W3C) for how to represent structured information in a text-based format. XML is a markup language whose roots originate in HTML and SGML. Like HTML, XML consists of elements that are defined by tags. A start tag containing a name precedes element data; an end tag follows it. While HTML tags have a specific meaning and generally describe how the text between them should look, XML uses tags only to delimit pieces of data and leaves the interpretation of the data completely to the application. The tags identify data elements and provide metadata, or meaning, for the information that appears between the tags.

The textual and self-describing nature of XML makes its platform independent and very flexible in terms of content. It is an open standard for storing, publishing, and exchanging any kind of information between any number of disparate systems. As long as two parties agree on and adhere to a common data structure, they can transfer information to each other without any knowledge of the other party's operating system, database type or programming language. XML can be used in conjunction with HTML to store data within standard web pages. It can also be used to store data in files and to pull information from disparate, incompatible databases.

One of the objectives behind the design of the COD Process and System was to provide FSA and our partnering student aid schools greater flexibility in record processing, i.e., opportunities for multiple data cross-walks. The COD Process could serve as a technological foundation for future FSA integration initiatives. Given these objectives, XML was the logical choice for the Common Record's format and structure. XML offers the flexibility to design records, known as XML documents, particular to an audience or community. It allows increased access to and reuse of information. It supports validation [edits] by checking structural validity and flagging errors. It also enables systems to share information and users to see different views of available data.

XML 101

XML technology allows a common data packet structure to be used between two disparate systems. It is a markup language that defines data structure. An XML document is the vehicle through which data is transmitted. It can be thought of as a batch.

XML documents are comprised of markup and content. Markup defines the content. For example, `<LastName>` is the markup describing the content, `Jones`.

```
<LastName>Jones</LastName>
```

`<LastName>` is a start tag. Note the presence of brackets. `LastName` is an element. `Jones` is the data, or XML content. `</LastName>` is an end tag.

Elements can be either complex or simple. A complex element is a grouping of attributes or other elements. The Common Record is a logical grouping of complex elements. In the following example, the Complex Element is bolded.

Complex Element:

```
<Name>
  <FirstName>Heidi</FirstName>
  <LastName>Smith</LastName>
</Name>
```

A simple element refers to the value that is contained within tags. In the following example, the two simple elements are bolded.

Simple Element:

```
<Name>
  <FirstName>Heidi</FirstName>
  <LastName>Smith</LastName>
</Name>
```

Fixed-Format Files vs. XML Documents

Fixed-format files have been used as vehicles through which data can be exported and imported to business applications. Fixed-format files contain a sequence of fields that is in machine-readable language. An example of a comma-separated, fixed-format file follows:

```
Sally, A, Smith, 299999999, 1980-02-03, IN, DL222222, false, P,
417 Halper Road, Fort Wayne, IN, 46807, Allen, USA, 2197999999,
sally.a.smith@email.net, 1, 221784902
```

In the above comma-separated fixed-format file, it is difficult to understand what the data means. There is also no way to validate the document to make sure that the data is represented in a format that can be read by the receiving application.

XML is a language that is not only machine readable, but also human readable. It also has a mechanism to ensure the validity of the document format through the use of XML schemas. As a result, business applications are rapidly moving toward the use of XML to exchange data. The following example demonstrates that XML not only represents data in a human readable text format, but also provides meaning to the

data through the use of tags. This is how a Student record similar to the one represented in the fixed-format file above would be represented in XML:

```
<Student>
  <Index>
    <SSN>299999999</SSN>
    <BirthDate>1980-02-03</BirthDate>
    <LastName>Smith</LastName>
  </Index>
  <Contacts>
    <PermanentAddress>
      <AddressLine>417 Hapler Road</AddressLine>
      <City> Fort Wayne </City>
      <StateProvinceCode>IN</StateProvinceCode>
      <PostalCode>46807</PostalCode>
    </PermanentAddress>
    <Phone>
      <PhoneNumber>219-799-9999</PhoneNumber>
    </Phone>
    <Email>
      <EmailAddress>sally.a.smith@email.net</EmailAddress>
    </Email>
  </Contacts>
  <Citizenship>
    <CitizenshipStatusCode>1</CitizenshipStatusCode>
  </Citizenship>
  <Note>
    <SchoolNoteMessage>New Person</SchoolNoteMessage>
  </Note>
</Student>
```

Common Record Structure

The XML document called the Common Record is composed of different information modules, referred to as complex elements or blocks. Data fields within the blocks emphasize similarities across programs and contain information such as: document or batch information, school or entity information, person information, award or origination information, disbursement information, and the response status of the record.

A general rule regarding sequence of data within blocks, and within complex elements: the start and end data tags and their content must be presented on the XML document within the block's tags or the complex element tags to which they belong. The sequence of the data within that block or element is dictated by the sequence of the data tags presented in the XML Common Record Schema. For example, if a complex element has ten simple elements within it, those ten elements must occur in the same sequence as depicted in the XML Common Record Schema.

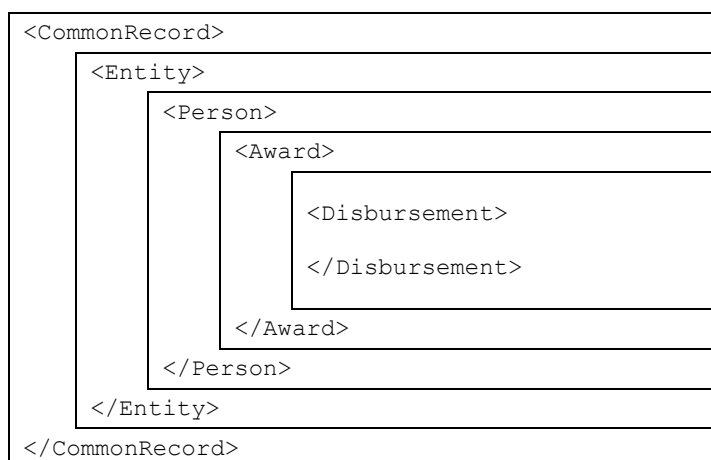
The Common Record is organized into the following structure:

Quick Reference Block Description

	Block Name	Block Description
1	Document Information	The Document Information Block contains information that was previously associated with a batch. It contains a date/time stamp, document validation information, summary-level document information, as well as the source of the document. This block occurs once per XML Document or submission.
2	Entity Information	The Entity Information Block contains information about the reporting and attending school. This block occurs once per reporting entity or school within the XML Document or submission.
3	Person Information	The Person Block contains student or parent information. This block occurs once per person, except for Grad PLUS where there will be two person blocks with identical data. All data within the two blocks must be identical.
4	Award Information	The Award Information Block contains Direct Loan, Pell Grant, and TEACH Grant award information, similar to origination data submitted in the fixed-length record layouts. As other partners use the Common Record to transport data, this will be the location of those awards. This block occurs once per award per person.
5	Disbursement Information	The Disbursement Information Block contains Direct Loan, Pell Grant, and TEACH Grant disbursement information. This block occurs once per disbursement.
6	Response	A Response block is nested within each block. The Response block is returned by COD to the submitting entity upon processing the Common Record. The Response block contains information about processing edits and document status.

Below is a pictorial representation of the Common Record layout. It illustrates how the Common Record is comprised of information modules or blocks.

The Common Record Document Structure



These information modules or blocks may be reused many times in the same record to transmit data for multiple awards and multiple disbursements for one or multiple students by one or multiple Attended Schools.

Schema Version

In March 2017, all records containing 2017-2018 data should be submitted in the 4.0c schema.

Schools may continue to send records for prior Award Years in earlier schema versions (3.0e, 3.0d, 4.0a, and 4.0b only)

XML Schema

An XML Schema specifies the rules surrounding the logical structure of an XML document. It is a language that describes the allowed content of documents. It defines the elements present in the document and the order in which they appear, as well as any attributes that may be associated with an element.

To support the open standards proven effective in the development of the Common Record, FSA is making the XML Schema for the Common Record available electronically to all interested parties. Whether a school, a software provider, or a third-party servicer is using it for product development to support COD or any student financial resource trading partner is interested in incorporating the Common Record into their products and services, the schema is available on the web at: <http://ifap.ed.gov/ifap/publications.jsp>.

XML Resources

Extensible Markup Language (XML) is a growing standard for e-commerce, data transmissions and structured documents using the Internet. Many industry groups are developing schemas and data dictionaries for this purpose. As a result, there is extensive information available about XML and the initiatives specific to the higher education community. Many institutions are already using XML for their own Internet initiatives, including self-service applications for students, faculty, and staff; data exchanges both within and outside the school, and even data coordination or backup with data warehouse projects.

Available resources about XML include courses at many institutions and local or Internet bookstores. The Web is also a resource, including the sites mentioned below. The first three are international standards bodies, and the last is specifically for the schema and data dictionary for higher education.

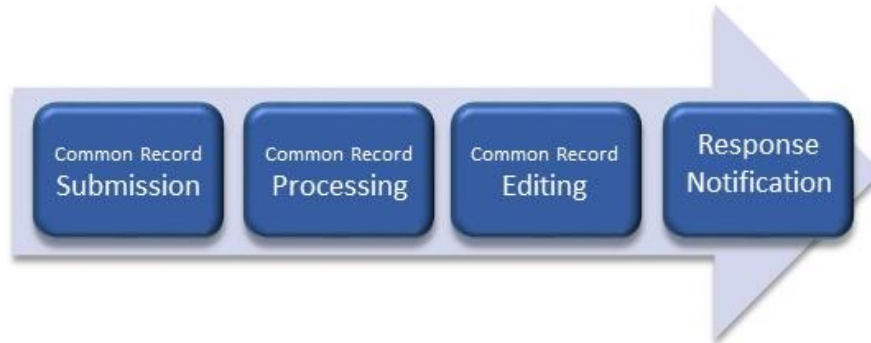
- <http://www.w3.org>
- <http://www.ebXML.org>
- <http://www.oasis-open.org>
- <http://www.PESC.org>
- IBM's Introduction to XML: <http://www-106.ibm.com/developerworks/xml/>
- Sun's XML & Java Technologies: <http://java.sun.com/xml>
- The XML Industry Portal: <http://www.xml.org>
- Web Reference: Exploring XML: <http://www.webreference.com/xml/>
- XML Information: <http://html.about.com/cs/xmlinformation>
- O'Reilly XML.com: <http://www.xml.com>
- The XML FAQ: <http://www.ucc.ie/xml>

Literature is constantly being updated as new technologies develop and mature. Therefore, it is recommended that time be spent exploring these resources.

Common Record Processing

This section addresses at a high level the processing of the Common Record from the institution perspective.

The COD Process is comprised of the following steps:



Please note that this overview of the COD Process will not cover the entire cycle for a school. There are items that take place prior to the submission of records (i.e. packaging) that are not explained in this document.

Common Record Submission

The COD Process begins when a school submits a Common Record. The Common Record is submitted by schools in one of two ways:

- Batch Submission via SAIG
- Manual Online Submission via the COD web site

Batch Submission

All Common Records sent in batch mode are submitted to COD's Student Aid Internet Gateway (SAIG) mailbox. The Enterprise Application Integration Bus (EAI Bus) performs periodic sweeps of COD's SAIG mailbox and transmits the Common Record data to the COD System.

Online Submission

A COD User can manually enter data online via the COD web site. The COD Web site creates a Common Record document for data entered online and sends it directly to the COD System.

Common Record Receipt

Beginning in March 2016, the COD system will no longer generate and send receipts for Common Record documents received via SAIG.

Common Record Processing

Upon receiving a record the COD System classifies the record to determine how it is to be processed. The types of records are:

- New Record
- Update/Maintenance Record

New Record

A New Record establishes a new person, award or disbursement on the COD System. There are three types of new records:

- New Person with New Award – If the SSN contained in the student identifier does not match any previously submitted to the COD System, then the record is considered a New Student. Any New Student Record must contain a New Award Record. For Pell Grant, TEACH Grant, and Direct Loan Subsidized/Unsubsidized, the Student Identifier submitted by a school to establish the student on COD is matched to data from the Central Processing System (CPS).
 - For Pell Grant and TEACH Grant, the current SSN, current Date of Birth, and first two characters of the current Last Name are matched with CPS data.
 - For Direct Loans, the current SSN and current Date of Birth are matched with CPS data.
- New Award – If the student identifier matches an SSN already established on the COD System, then the system checks to determine if the award is already on file. If not, then the record is considered a New Award.
- New Disbursement – If the person and award already exist on the COD System, then the system checks the disbursement number submitted for the award. If it is not already on file, then the system logs the disbursement as a new disbursement. There are two types of disbursement records:
 - Actual Disbursement - Actual Disbursement Records contain a `DisbursementReleaseIndicator` equal to `true`. The `DisbursementReleaseIndicator` is a tag on the Common Record that signals to the COD System that the disbursement information is an actual disbursement. It either makes funds available to a school, or substantiates cash already made available to the school. These records affect the Current Funding Level (CFL) calculation for the school. This can be thought of as the actual disbursement record in the old fixed-length record process.
 - Anticipated Disbursement – Anticipated Disbursement Records contain a `DisbursementReleaseIndicator` equal to `false` or omitted. If the `DisbursementReleaseIndicator` is omitted, the

Award Already on File

For Direct Loans and TEACH Grant, the Financial Award Type, Financial Award Year, Attended Entity ID, Reporting Entity ID, and Financial Award ID fields are checked to determine if the award is already on file.

indicator will default to `false`. These disbursements are not considered Actual Disbursements; therefore, they do not substantiate drawdowns. These records do not affect the CFL calculation for the school.

Update/Maintenance Record

An Update/Maintenance Record performs a change to information or elements that were previously established on the COD System by a New Record. There are two types of Update/Maintenance Records:

- Update/Maintenance Record – An Update/Maintenance Record performs a change to a data element that was previously established by a New Record or is used to change disbursement amounts and dates that occur prior to substantiating drawdowns.
- Release Record – A Release Record can be submitted to the COD System with a `DisbursementReleaseIndicator` equal to `true` for a disbursement record previously submitted as an Anticipated Disbursement Record. Data elements can be changed via the COD Web site or by resubmission of a Common Record. Once the release indicator is set to `true`, there will no longer be an anticipated disbursement on the system with the same disbursement number as the actual.

Common Record Editing

Once the Common Record is received and has been classified, the COD System performs a series of valid format and content edits to determine if the file is suitable for further processing.

The COD System performs three types of edits:

- Correction – For Pell Grant data, if the school selects this option, the system automatically corrects the data and sends a response to the entity that submitted the record indicating that a correction took place, the element corrected, the original value, and the corrected value. The default option in the COD System for all schools is set to ‘correct’. If a school wants to have COD reject data instead of correcting it, then it must contact the COD School Relations Center to request that FSA make this change.
- Warning – The COD System sends a response to the entity that submitted the record indicating a warning, the warning code and the relevant element. The record continues to be processed by the COD System.
- Reject – The COD System sends a response to the entity that submitted the record indicating the reject code, the reject reason(s) and the relevant element(s). The record requires action from the school to continue processing.

Where possible, COD uses information from CPS as a basis for these edits. COD receives the information from CPS on a daily basis. This file is used to:

- Confirm a valid ISIR is on file (if applicable) and,

Please note the COD System does not correct Direct Loan and TEACH Grant data.

- Pull student-level information required for Common Record processing.

The COD System performs edits on the Document, Entity, Person, Award and Disbursement levels of the Common Record data. Data that passes edits is accepted and continues to be processed while data that does not pass edits is rejected. The COD System stores rejected data and associated reject reasons. Rejected data is held for corrective action to be taken by the school. Data can be corrected via Common Record re-submission or via the COD web site. The COD System then returns a response record notifying the school of the edit results.

Response Documents

For all Common Records received and processed by the COD System, the COD System returns a Response document indicating the status of the Common Record processing, including any rejected data elements and the reason for the rejection. If the Common Record was accepted, then the Response document indicates that the record was accepted.

The COD System sends one Response document for each Common Record document submitted. For Common Records that are transmitted via the SAIG, the COD System sends Response documents to the school's SAIG mailbox. For Common Record data entered into the COD web site, schools have an option to receive a Response document via their SAIG mailbox in addition to seeing the response via the COD Web site.

For Responses received via the SAIG mailbox, schools also have the option to receive a Full or a Standard Response to Common Records processed by the COD System. A Full Response contains all the original tags sent by the school and the rejected data elements and reason codes. A Standard Response contains only the minimum tags, the rejected data elements and reason codes.

The Common Record can be resubmitted in its entirety or sent with just the key identifiers, minimum data elements required for processing, and those data elements that have changed.

Record Layouts and Processes

For further information regarding record layouts and processes, schools/software vendors should refer to *Volume II – Common Record Technical Reference*.

For examples of COD Response Documents, please refer to *Volume VI, Section 6 – XML Examples* and *Volume VII, Section 7 – COD System Generated XML Response Files*.

If you use a combination of EDEExpress and another system, please refer to *Volume III – Pell Grant & Direct Loan Combination System Supplement* for record layouts, processes, and edits pertinent to working in a combination system.