

CSU Kuali Financial System Interface Specifications

Overview

The current financial system used at CSU (FRS) will be replaced by the Kuali Financial System (KFS). This will occur on July 1, 2009 for fiscal year 2010. The financial transactions currently being fed to FRS from other systems will need to be rewritten to conform to the KFS transaction layout. The location where these transactions are sent will also need to be changed. The purpose of this document is to describe the KFS transaction layout.

The method for feeding financial transactions to KFS is called a Collector Feed. A Collector Feed consists of two files having the same prefix but different extensions. Together, these two files are called a file set. The files that make up a fileset are the data file (extension .xml and the done file (extension .done). The data file uses an XML format. The done file is an empty file that simply indicates that the other two files in the set are ready to be processed when the KFS Collector Feed job runs.

Data File Description

The Collector data file must begin with the standard XML version line.

The root (first) tag for collector files must be the <batch> tag and the file must contain only one <batch></batch> tag. This tag also contains attributes that identify the schema the document adheres to.

Following the batch tag must be the <header> tag. This section gives general information about the set of records being transmitted. Like the batch tag, the file must contain only one <header></header> tag. Within the header tag are other tags that identify pieces of header information.

Next comes a <glEntry> tag. This tag contains other tags that represent the individual fields of the interface transaction. Each <glEntry></glEntry> tag represents one interface transaction. In FRS, a single transaction contained the debit side of the accounting entry as well as the credit side of the accounting entry. A single interface transaction within KFS only contains one side of the accounting entry. Either the debit or the credit. A second <glEntry> transaction is required for the other side of the accounting entry. Collector files are validated to ensure the dollar amount of the debits equals the dollar amount of the credits.

The final tag required for a collector batch file is the <trailer> tag. This contains tags for reconciliation of the file. The file must contain only one <trailer></trailer> tag.

The format for the data file is as follows:

Name	Type	Max Size	Required?	Special Formatting
<header>				
<chartOfAccountsCode>	Char	2	Yes	CO
<organizationCode>	Char	4	Yes	
<transmissionDate>	Date		Yes	YYYY-MM-DD date format
<batchSequenceNumber>	Integer		Yes	Up to 5 digits
<personUserId>	Char	7	Yes	
<workgroupName>	Char	70	Yes	Valid Email Address
<departmentName>	Char	30	Yes	
<mailingAddress>	Char	30	Yes	
<phoneNumber>	Char	20	Yes	
<campusCode>	Char	2	Yes	M
<glEntry>				
<universityFiscalYear>	Integer	4	No	
<chartOfAccountsCode>	Char	2	Yes	CO
<accountNumber>	Char	7	Yes	
<subAccountNumber>	Char	5	No	
<objectCode>	Char	4	Yes	

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<subObjectCode>	Char	3	No	
<balanceTypeCode>	Char	2	Yes	AC
<objectTypeCode>	Char	4	No	Leave blank
<universityFiscalAccountingPeriod>	Char	2	No	Leave blank
<documentTypeCode>	Char	4	Yes	CLTR
<originationCode>	Char	2	Yes	Assigned by Kuali team
<documentNumber>	Char	14	Yes	Cannot be reused
<transactionEntrySequenceId>	Integer		No	Leave Blank
<transactionLedgerEntryDescription>	Char	40	Yes	
<transactionLedgerEntryAmount>	Decimal		Yes	Money format (2 decimal places)
<debitOrCreditCode>	Char	1	Yes	Must have value 'D' or 'C'
<transactionDate>	Date		Yes	YYYY-MM-DD date format
<organizationDocumentNumber>	Char	10	No	
<projectCode>	Char	10	No	
<organizationReferenceId>	Char	8	No	
<Trailer>				
<totalRecords>	Integer	Yes		
<totalAmount>	Decimal	Yes		Money format (2 decimal places)

Example Collector File:

```
<?xml version="1.0" encoding="UTF-8"?>
<batch xmlns="http://www.kuali.org/modules/gl/collector"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" >
  <header>
    <chartOfAccountsCode>CO</chartOfAccountsCode>
    <organizationCode>1029</organizationCode>
    <transmissionDate>2009-07-01</transmissionDate>
    <batchSequenceNumber>0</batchSequenceNumber>
    <personUserId>kul</personUserId>
    <workgroupName>xxxxxxx@colostate.edu</workgroupName>
    <campusCode>M</campusCode>
    <phoneNumber>491-1586</phoneNumber>
    <mailingAddress>1029 Campus Delivery</mailingAddress>
    <departmentName>info Sys</departmentName>
  </header>
  <glEntry>
    <chartOfAccountsCode>CO</chartOfAccountsCode>
    <accountNumber>1234567</accountNumber>
    <objectCode>4707</objectCode>
    <balanceTypeCode>AC</balanceTypeCode>
    <documentTypeCode>CLTR</documentTypeCode>
    <originationCode>P1</originationCode>
    <documentNumber>KLM07010900001</documentNumber>
    <transactionLedgerEntryDescription>Description</transactionLedgerEntryDescription>
    <transactionLedgerEntryAmount>1234.56</transactionLedgerEntryAmount>
    <debitOrCreditCode>C</debitOrCreditCode>
    <transactionDate>2009-07-01</transactionDate>
    <organizationDocumentNumber>ODN</organizationDocumentNumber>
    <organizationReferenceId>ORI</organizationReferenceId >
  </glEntry>
  <glEntry>
    <chartOfAccountsCode>CO</chartOfAccountsCode>
    <accountNumber>7654321</accountNumber>
    <objectCode>2001</objectCode>
    <balanceTypeCode>AC</balanceTypeCode>
    <documentTypeCode>CLTR</documentTypeCode>
    <originationCode>P1</originationCode>
```

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```

<documentNumber>KLM07010900001</documentNumber>
<transactionLedgerEntryDescription>Description</transactionLedgerEntryDescription>
<transactionLedgerEntryAmount>1234.56</transactionLedgerEntryAmount>
<debitOrCreditCode>D</debitOrCreditCode>
<transactionDate>2009-07-01</transactionDate>
<organizationDocumentNumber>ODN</organizationDocumentNumber>
<organizationReferenceId>ORI</organizationReferenceId >
</glEntry>
<trailer>
  <totalRecords>2</totalRecords>
  <totalAmount>1234.56</totalAmount>
</trailer>
</batch>

```

General XML Rules

File must begin with the xml declaration.

```
<?xml version="1.0" encoding="UTF-8"?>
```

All elements (tags) must have a closing tag.

Tags are case-sensitive

A tag must not contain extra whitespace (blanks) at the beginning or end.

Tags must not be empty. If there is no value for the field (and it is not required) then do not render the element.

Coding of special characters:

Description	Desired character	Syntax	Example
less than	<	<	<deptName>B<FS</deptName>
greater than	>	>	<deptName>B>FS</deptName>
Ampersand	&	&	<deptName>B&FS</deptName>
Apostrophe	'	'	<deptName>B'FS</deptName>
quotation mark	"	"	<deptName>B"FS</deptName>

All GL entries in the file must be the same document type code.

The total amount of debits must equal the total amount of credits.

An email is generated (using the email address from the workgroupName tag) to indicate the status of the collector file. If it was successfully processed or if there were errors detected (and what those errors were). When any errors are detected, the entire file is rejected and must be resubmitted.

Origination Codes

Dept	KFS Origination Code	FRS Batch Ref
1018 ACNS	A1	CCB
8035 Bookstore	B1	SCM
6011 Central Receiving	C1	YMS
1644 Diag Lab	D1	DOO
6030 Facilities	F1	PPL
2007 Lab Animal Resources	L1	VRS
2021 Macro Res Facil	M1	YBC
6004 Payroll	P1	YPL

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2002 Spon Pgm	S1	VRA
1009 Telecom	T1	TEL
1620 VTH	V1	YVH