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# Banner Financial Aid Release Guide

Release 8.18  
September 2013



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September 2013	New version that supports Banner Financial Aid 8.18 software.

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# Introduction

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This guide documents the Banner® Financial Aid 8.18 release, which includes enhancements, regulatory updates, Change Request - Enhancements, and problem resolutions.

## Release hints, suggestions, and corrections

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Any release hints, suggestions, or corrections to this release guide that arise, subsequent to the posting of this release, will be documented in the *Are there any helpful hints, suggestions and/or corrections to release documentation for Banner Financial Aid release 8.18?*, Article # 1-1CO1HAE, and made available through the Ellucian Support Center (<http://www.ellucian.com/Solutions/Ellucian-Client-Support/>). It is recommended that you refer to this document periodically under Articles #1-1CO1HAE as you use the new release functionality.

## Enhancements

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The following enhancements are included in this release:

### 2012-2013 FISAP

This section describes updates for the 2012-2013 Fiscal Operations Report and Application to Participate (FISAP) process.

### 2013-2014 Direct Loan Compare Extract Process update

This section describes updates for the 2013-2014 Direct Loan Compare Extract Process for School Account Statement (SAS) reporting.

### Algorithmic Batch Posting

The functional and technical sections describe enhanced functionality for the Batch Posting Process to use Algorithmic Rules to determine the value to be posted.

## Miscellaneous Enhancements

Functional section describes miscellaneous enhancements included in the 8.18 release:

### Resolved Change Request - Enhancements

#### Batch Posting (for modified Batch Posting Types)

- Allow Null for Pell Aid Period (Change Request - Enhancement 1-BIEWM2)

#### FISAP Reporting

- Select all students paid FSEOG, FWS, or Federal Perkins (Change Request - Enhancement - 1-1CO1GSS)
- Discrepancy Report (Change Request - Enhancement 1-TF7TMY)

## Cumulative documentation and patches

This document provides detailed information about the Banner Financial Aid 8.18 release. Banner Financial Aid 8.18 is a cumulative release that includes:

- Patches delivered after the Banner Financial Aid 8.17.1 release.

The following postings/patches are included in Release 8.18. Information on these patches can be found at the Ellucian Support Center (<http://www.ellucian.com/Solutions/Ellucian-Client-Support/>). Please see the following summarized list:

Release/Patch Number	Dates	Comments	Additional information
FINAIDNEEDANALYSIS.081701.zip	April 2013	Upgrade Instructions & Documentation	<ul style="list-style-type: none"><li>• The packaged file FINAIDNEEDANALYSIS.081701.zip includes the software for the FM NEED CALCULATION for institutions who have selected On-Premise Option.</li><li>• The Financial Aid Hosted Services Handbook March 2013, section titled "FM Need Analysis On-Premise Configuration", to complete the install (finaid2013-03hshb.pdf).</li></ul>

Release/Patch Number	Dates	Comments	Additional information
p1-1d87o50_bwr8160001	April 2013	Change Request - Defect Posting	<p>Banner Financial Aid Self-Service release, 8.16 or higher must have been applied but not upgraded to Banner Financial Aid Self Service release, 8.17.1.</p> <p><b>Note</b> - When upgrading to Financial Aid Self-Service release 8.17.1 in the future, you must apply the 8.17.1.1 version of the patch (p1-1db9qr5_bwr8170101), to prevent these Change Request - Defects from recurring.</p> <p>Those clients who have already installed Banner Financial Aid Self-Service release 8.17.1, should apply the 8.17.1.1 version of the patch, (p11db9qr5_bwr8170101), instead of this patch.</p> <ul style="list-style-type: none"> <li>• Change Request - Defect 1-1D87O50</li> <li>• Change Request - Defect 1-1D7TEZR</li> </ul>
<p>Multi-Entity Processing (MEP) Alert: This patch supports MEP in your database and requires no manual modifications to the delivered scripts during the course of application.</p> <p><b>Note</b> - MEP refers to processing via Virtual Private Databases (VPD), enabled by the use of VPDI_CODE in MEP enabled tables.</p>			
p1-1db9qr5_bwr8170101	April 2013	Change Request - Defect Posting	<p>Banner Financial Aid release, 8.17.1 must be applied before applying this patch.</p> <ul style="list-style-type: none"> <li>• Change Request - Defect 1-1DB9QR5</li> <li>• Change Request - Defect 1-1DB9QR1</li> </ul>
<p>Multi-Entity Processing (MEP) Alert: This patch supports MEP in your database and requires no manual modifications to the delivered scripts during the course of application.</p> <p><b>Note</b> - MEP refers to processing via Virtual Private Databases (VPD), enabled by the use of VPDI_CODE in MEP enabled tables.</p>			

Release/Patch Number	Dates	Comments	Additional information
p1-1d5rroj_res8170101	April 2013	Change Request - Defect Posting	<p>This patch can be applied on Banner Financial Aid release 8.17 or higher.</p> <p><b>Note</b> - A patch for Banner Financial Aid Self-Service (p1-1db9qr5_bwr8170101) had been previously released for 8.17.1.1. Because Banner Financial Aid Self-Service is a separate product, this Banner Financial Aid patch uses separate sequencing which is the reason it is also designated as being part of 8.17.1.1.</p> <ul style="list-style-type: none"> <li>• Change Request - Defect 1-1D5RROJ</li> <li>• Change Request - Defect 1-1DPEYOT</li> </ul>
p1-1e560w3_res8170102	May 2013	Change Request - Defect Posting	<p>Banner Financial Aid patch, p1-1d5rroj_res8170101, must be applied before applying this patch.</p> <ul style="list-style-type: none"> <li>• Change Request - Defect 1-1E560W3</li> <li>• Change Request - Defect 1-1E9RNYJ</li> </ul>
p1-1enqfn7_res8170103	July 2013	Change Request - Defect Posting	<p>This patch can be applied on Banner Financial Aid release 8.17 or higher.</p> <ul style="list-style-type: none"> <li>• Change Request - Defect 1-1CHSNHU</li> <li>• Change Request - Defect 1-1ENQFN7</li> </ul>
p1-1ftg5p5_res8170201	August 2013		<p>This patch can be applied on Banner Financial Aid release 8.17 or higher.</p> <ul style="list-style-type: none"> <li>• Change Request - Defect 1-1FTG5P5</li> </ul>
<p>Multi-Entity Processing (MEP) Alert: This patch supports MEP in your database and requires no manual modifications to the delivered scripts during the course of application.</p> <p><b>Note</b> - MEP refers to processing via Virtual Private Databases (VPD), enabled by the use of VPDI_CODE in MEP enabled tables.</p>			

## Problem Resolutions

Problem resolutions are summarized by object at the end of the release guide. For more information about a problem resolution, refer to the `finaid81800resolutions.xlsx` file that accompanies the Banner Financial Aid 8.18 release.

# 2012-2013 FISAP - Functional

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## Overview

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Each year, Title IV-eligible schools must report the fiscal year's final campus-based aid disbursed by fund type, as well as the number of students receiving such aid. This reporting is done through Fiscal Operations Report and Application to Participate (FISAP) processing, which includes data from Banner Financial Aid, Banner Student, and Banner Accounts Receivable. Banner provides your institution with the two grids needed to report this campus-based data. You can then use these reports to transfer the data to the Department of Education's FISAP Web site.

For 2012-2013, the Department of Education did not add any new fields to the FISAP. However, certain fields were expanded, dates incremented, and text in the instructions modified. The only change that has an impact on RORFS13 is found in Part VI, Section A (as income grids have been expanded).

For reference purposes, changes that do not impact RORFS13 are:

- Part 1, Section A, Item 5. Additional Institutions:
  - The item was previously listed as "Additional Locations"
- Part II, Section D and F, Non-Traditional Calendar Enrollment Information:
  - In the past, the FISAP only asked for undergraduate information from Non-Traditional schools. However, these institutions now offer degrees above the undergraduate level. Therefore,
    - Line 9-22 of Part II, Section D has been expanded to include columns (c) and (d) for graduate enrollment
    - Non-traditional schools will also report Graduate/Professional student data in the income grid in Section F, items 25 – 29, column (e)

Although RORFS13 collects data in Part II, Section F, there are no changes that had to be made.

- The FISAP Upload option has been removed from the eCB System because fewer than .05% of schools used the feature.

The modifications necessary to support 2012-2013 FISAP processing were originally delivered in the Banner Financial Aid 8.17.2.1 posting and re-delivered with this 8.18 release.

## Auto Zero EFC

For 2012-2013, the Auto Zero EFC was reduced from an income threshold of \$31,000 to \$23,000. Therefore, changes were made to RORFS13 to properly report those qualifying for Auto Zero EFC. The *FISAP Definitions, Calculation of Automatic Zero EFC* section lists the details for the Auto Zero EFC calculation for RORFS13.

## New reports and processes

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**Note:** Important information for those using the California Dataload Process:

The California Dataload process was implemented in 2012-2013. As a result, the FISAP was modified to not include a student's record on the FISAP if the current record indicator has an information source of "CAL".

If a student's record should be included because they have an EDE record, but the EDE record is not set as the current record, you must update the EDE to the current record for the student to be included on the FISAP.

## FISAP Report for 2012-2013 (RORFS13)

The 2012-2013 FISAP Report is needed to properly generate the FISAP due on October 1, 2013. Updates made to the 2012-2013 FISAP process include the following:

- The FISAP report for 2012-2013 has been updated for aid year references.
- Income Grid Updates (Part VI, Section A)
- Resolution of request for additional Discrepancy Reports

## Income Grid Updates (Part VI, Section A)

### Undergraduate Dependent

Prior to the 2012-2013 FISAP, the Undergraduate Dependent income grids stopped at \$60,000. For the 2012-2013 FISAP, the income grids have been extended to \$100,000. There have been no changes to the 2012-2013 FISAP income grid ranges between 0 and \$59,999.

The new income grid values range from \$60,000 to \$99,999 (in \$10,000 increments), up to \$100,000, as listed below:

- \$60,000 - \$69,999
- \$70,000 - \$79,999
- \$80,000 - \$89,999
- \$90,000 - \$99,999
- \$100,000 and over

### Undergraduate Independent

Prior to the 2012-2013 FISAP, the Undergraduate Dependent income grids stopped at \$20,000. For the 2012-2013 FISAP, the income grids have been extended to \$40,000. There have been no changes to the 2012-2013 FISAP income grid ranges between 0 and \$19,999.

The new income grid values range from \$20,000 to \$39,999 (in \$5,000 increments), up to \$40,000, as listed below:

\$20,000 - \$24,999

\$25,000 - \$29,999

\$30,000 - \$34,999

\$35,000 - \$39,999

\$40,000 and over

### Create/Print Options (Parameter 02)

To resolve Change Request - Enhancement 1-1CO1GSS and Change Request - Enhancement 1-TF7TMY, the Create/Print Options parameter (02) has been changed from **R - Print Auto Zero Discrepancies** to **R - Print FISAP Discrepancies**.

The Auto Zero Discrepancy Report will continue to function as it always has. However, in addition, the new report now lists students who have been offered and/or paid Title IV (Pell, SEOG, Perkins, Work Study, Stafford, PLUS) aid but not reported in Part II, Section F and students offered and/or paid FSEOG, FWS or Perkins but not included in Part VI, Section A, thus allowing aid administrators to review and correct data, as needed.



**Note:** To produce the Discrepancy Report, the FISAP must have already been created to allow comparison between students on the FISAP versus those not on the FISAP.



**Note:** Important information for those using the California Dataload Process:

The California Dataload process was implemented in 2012-2013. As a result, the FISAP was modified to not include a student's record on the FISAP if the current record indicator has an information source of "CAL".

If the student has been offered or paid Title IV aid, they will be reported on the discrepancy report.

## FISAP Definitions

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### Calculation of Automatic Zero EFC

Automatic Zero EFC students are determined by the following criteria based upon 2012-2013 information:

#### Dependent students

Dependent Students automatically qualify for an automatic zero EFC if both item 1 and item 2 are true:

1. A person who is considered part of the parent's household size (as defined on the FAFSA) who received benefits during 2010 or 2011 from any of the designated means-tested Federal benefit programs: the SSI Program, the Food Stamp Program, the Free and Reduced Price School Lunch Program, the TANF Program, and WIC;

OR

the student's parents filed or are eligible to file a 2011 IRS Form 1040A or 1040EZ (they are not required to file a 2011 Form 1040)\*, or the parents are not required to file any income tax return;

OR

the student's parent is a dislocated worker.

AND

2. The 2011 income of the student's parents is \$23,000 or less.
  - For tax filers, use the parents' adjusted gross income from 2011 Form 1040A or 1040EZ\* to determine if income is \$23,000 or less.
  - For non-tax filers, use the income shown on the 2011 W-2 forms of both parents (plus any other earnings from work not included on the W-2s) to determine if income is \$23,000 or less.

## Independent students

Independent students with dependents other than a spouse automatically qualify for an Automatic Zero EFC if both of the following are true:

1. Anyone included in the student's household size (as defined on the FAFSA) received benefits during 2010 or 2011 from any of the designated means-tested Federal benefit programs: the SSI Program, the Food Stamp Program, the Free and Reduced Price School Lunch Program, the TANF Program, and WIC;

OR

the student and the student's spouse (if the student is married) each meet one of the following conditions: filed or is eligible to file a 2011 IRS Form 1040A or 1040EZ or is not required to file any income tax return;

OR

the student (or the student's spouse, if any) is a dislocated worker.

AND

2. The student's (and spouse's) 2011 income is \$23,000 or less.
  - For tax filers, use the student's (and spouse's) adjusted gross income from 2011 Form 1040A or 1040EZ\* to determine if income is \$23,000 or less.
  - For non-tax filers, use the income shown on the student's (and spouse's) 2011 W-2 forms (plus any other earnings from work not included on the W-2s) to determine if income is \$23,000 or less.



**Note:** An independent student without dependents other than a spouse is not eligible for an automatic zero EFC.

Schools have different uses for manual records. Some schools may use them in lieu of EDE records and want to include them in their FISAP reporting. Banner will calculate the FISAP Total Income for manual records without a need analysis calculation, but there are certain mandatory field requirements the institution must input for the student to be a part of the FISAP calculation. This is outlined in the income information described in the *Calculation of FISAP Total Income* section, below. Some schools will want partial MANUAL records in the FISAP reporting and some will not want any. Whatever the scenario schools must follow, the information outlined in the *Calculation of FISAP Total Income* section should be used to ensure valid results.

\* One of the following 2011 income tax forms may be filed as an alternative to filing a Form 1040A or 1040EZ:

- The income tax return required by the tax code of the Commonwealth of Puerto Rico, Guam, American Samoa, the U.S. Virgin Islands, the Republic of the Marshall Islands, the Federated States of Micronesia, or Palau.

Applicants who are not required to complete an IRS Form 1040, but do so solely to claim an educational tax credit are considered eligible if they meet all the other requirements for the simplified EFC formulas.

## Calculation of FISAP Total Income

FISAP Total Income (TI) is calculated as follows:



**Note:** Each of the calculations in this section use the following common variables:

UI (Untaxed Income) = Tax-Deferred Pensions + IRA and Keogh Deductions + Child Support Received + Tax-Exempt Interest + Untaxed IRA Distributions + Untaxed Pensions + Military and Clergy Allowance + VA Non-Education Benefits + Other Untaxed Income

AFI (Additional Financial Information) = Education Tax Credits + Child Support Paid + Need Based Employment + Grant and Scholarship Aid + Combat Pay + Co-op Earnings

### Dependent student

1. Total Income (TI)

#### Tax Filer

If parents' tax filing status is tax filer, the following information is used to determine Total Income:

$$\text{Parents' Adjusted Gross Income} + (\text{UI}) - (\text{AFI}) = \text{TI}$$

#### Non-Tax Filer

If parents' tax filing status is non-tax filer, the following information is used to determine Total Income:

$$\text{Father's Income} + \text{Mother's Income} + (\text{UI}) - (\text{AFI}) = \text{TI}$$

## 2. Student's Total Income (STI)



**Note:** Each of the calculations in this section use the following common variables:

UI (Untaxed Income) = Tax-Deferred Pensions + IRA and Keogh Deductions + Child Support Received + Tax-Exempt Interest + Untaxed IRA Distributions + Untaxed Pensions + Military and Clergy Allowance + VA Non-Education Benefits + Other Untaxed Income + Other Non-Reported Money

AFI (Additional Financial Information) = Education Tax Credits + Child Support Paid + Need Based Employment + Grant and Scholarship Aid + Combat Pay + Co-op Earnings

### Student Tax Filer

If the student's tax filing status is tax filer, the following information is used to determine Student Total Income:

$$\text{Student's Adjusted Gross Income} + (\text{UI}) - (\text{AFI}) = \text{STI}$$

### Student Non-Tax Filer

If the student's tax filing status is non-tax filer, the following information is used to determine Student Total Income:

$$\text{Student's Income} + (\text{UI}) - (\text{AFI}) = \text{STI}$$

## 3. Dependent Student FISAP Total Income (FTI)

$$\text{TI} + \text{STI} = \text{FTI}$$

## Independent student

### 1. Total Income (TI)



**Note:** Each of the calculations in this section use the following common variables:

UI (Untaxed Income) = Tax-Deferred Pensions + IRA and Keogh Deductions + Child Support Received + Tax-Exempt Interest + Untaxed IRA Distributions + Untaxed Pensions + Military and Clergy Allowance + VA Non-Education Benefits + Other Untaxed Income + Other Non-Reported Money

AFI (Additional Financial Information) = Education Tax Credits + Child Support Paid + Need Based Employment + Grant and Scholarship Aid + Combat Pay + Co-op Earnings

## Student Tax Filer

If student's tax filing status is tax filer, the following information is used to determine Total Income:

$$\text{Student's Adjusted Gross Income} + (\text{UI}) - (\text{AFI}) = \text{TI}$$

## Student Non-Tax Filer

If student's tax filing status is non-tax filer, the following information is used to determine Total Income:

$$\text{Student's Income} + \text{Spouse's Income} + (\text{UI}) - (\text{AFI}) = \text{TI}$$

### 2. Independent Student FISAP Total Income (FTI)

$$\text{TI} = \text{FTI}$$

## Creating manual records without FAFSA

The FISAP depends on the student's dependency status, tax filing status and income being reported in Banner Financial Aid. If you have created student records by just entering the student's EFC on the 2012-2013 Need Analysis Result Form (RNARS13) so that the student is packaged, then Banner doesn't have sufficient data in order to accurately place or count the student in the two income grids. At a minimum, you must enter the following on the 2012-2013 Need Analysis Form (RNANA13):

<b>Dependent Students</b>	<b>Independent Students</b>
Parent Tax Return Filed	Student Tax Return Filed
Parent Tax Return Type Form Filed	Student Tax Return Type Form Filed
Parent Eligible to File 1040A/EZ	Student Eligible to File 1040A/EZ
First Bachelor's Degree by 01-JULY-2012	Student Have Children You Support
Parent AGI or wages	Student Have Legal Dependents
Parent SSI	First Bachelor's Degree by 01-JULY-2011
Parent Food Stamps	Student and spouse AGI or wages
Parent Free or Reduced Lunch	Student SSI
Parent TANF	Student Food Stamps
Parent Dislocated Worker	Student Free or Reduced Lunch
Parent WIC	Student TANF
Parent Additional Financial Information	Student Dislocated Worker
• Education Tax Credits	Student WIC

<b>Dependent Students</b>	<b>Independent Students</b>
• Child Support Paid	Student Additional Financial Information
• Need Based Employment	• Education Tax Credits
• Grant and Scholarship Aid	• Child Support Paid
• Combat Pay	• Need Based Employment
• Co-op Earnings	• Grant and Scholarship Aid
Parent Untaxed Income	• Combat Pay
• Tax-Deferred Pensions	• Co-op Earnings
• IRA and Keogh Deductions	Student Untaxed Income
• Child Support Received	• Tax-Deferred Pensions
• Tax-Exempt Interest	• IRA and Keogh Deductions
• Untaxed IRA Distributions	• Child Support Received
• Untaxed Pensions	• Tax-Exempt Interest
• Military and Clergy Allowance	• Untaxed IRA Distributions
• VA Non-Education Benefits	• Untaxed Pensions
• Other Untaxed Income	• Military and Clergy Allowance
	• VA Non-Education Benefits
	• Other Untaxed Income
	• Other Non-Reported Money

Also, for these records dependency may be directly entered on the Applicant Override Form (RNAOV13), FM-Student Dependency.

# 2013-2014 Direct Loan Compare Extract Process Update - Functional

---

Direct Loan institutions are required to use the School Account Statement (SAS) report for reconciliation of funds for the Direct Loan Program. The SAS is generated by COD on a monthly basis and automatically sent to the school's SAIG mailbox.

The modifications necessary to support 2013-2014 Direct Loan Comparison processing were originally delivered in the Banner Financial Aid 8.17.2.1 posting and re-delivered with this 8.18 release.

To assist institutions in reconciliation of records from their internal database to the SAS report, the Department of Education provides a Windows based application, Direct Loan (DL) Tools for Windows. For the 2013-2014 aid year, institutions must use version 13.0 of DL Tools for Windows.



**Note:** The software and related user documentation for DL Tools for Windows 13.0 is available from the U.S. Department of Education's Federal Student Aid Download Web site located at <https://www.fsadownload.ed.gov/software.htm>.

## New process/report

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The following new process was created for Direct Loan processing in 2013-2014.

### 2013–2014 Direct Loan Compare Extract Process (RPRCP14)

RPRCP14 was created based upon the 2012-2013 Direct Loan Compare process (RPRCP13). RPRCP14 creates the following files for the 2013-2014 aid year:

- Cash Detail Extract File (DLEXCASH)
- Loan Detail Extract File (DLEXLOAN)
- Disbursement Detail Extract file (DLEXDISB)

The new RPRCP14 process has been updated to validate the Aid Year Code entered in Parameter 01 (ROBINST\_AID\_YEAR\_END\_YEAR = 2014).

# Algorithmic Batch Posting - Functional

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This section describes enhanced functionality for Batch Posting to provide the ability for the following Batch Posting types to use either specified values or to calculate either the code to post or an amount to post using algorithmic rules:

- Period budget components (uses algorithmic rules written on RBRABRC)
  - PBAA Comp - All Types/All Periods
  - PBAS Comp - All Types/One Period
  - PBPA Comp - Pell/All Periods
  - PBPS Comp - Pell/One Period
  - PBSA Comp - One Type/All Periods
  - PBSS Comp - One Type/One Period
- Fund award status/amount (uses algorithmic rules written on RPRALGR)
  - F Fund Code/Amount/Status
  - FN Fund/Amt/Status no validation
- Aid year budget components (uses algorithmic rule written on new RORALGO)
  - B Budget Component/Amount
- Aid period and Pell aid period (uses algorithmic rule written on new RORALGO)
  - A Aid Period Code
  - AP Pell Aid Period Code

## New forms

---

### General Algorithmic Rules (RORALGO)

The new General Algorithmic Rules (RORALGO) form allows you to create and use algorithmic rules to calculate the value to be posted using the Batch Posting process. General algorithmic rules can be rolled as part of the ROPROLL process.



**Note:** All sequences of the general algorithmic rules must be validated in order for the sequence to be used by the Batch Posting Process (RORBPST). If the sequence has not been validated, the rule will not be

processed and a value will not be returned for that sequence and the expected results may not be correct for the applicants processed.

The following image illustrates the new RORALGO form:

## Key block

New fields:

Fields	Descriptions
Aid Year	Aid Year. Banner displays information based on the financial aid processing year specified in the Aid Year field. The default for this field is the current aid year. Select the Aid Year button or press the LIST function to access the Aid Year Validation window if you need to verify an aid year and its description, or to check whether the aid year is still active. (KEYBLCK_AIDY_CODE).
Process	Process which will utilize the General Algorithmic Rule. (KEYBLCK_PROCESS).
(Batch Posting) Type	Batch Posting Type. (KEYBLCK_PTYT_CODE).
Rule	General Algorithmic Rule Code. (KEYBLCK_ALGO_CODE).

## Rule block

Save all changes before you select the **Validate** button. When you click the **Validate** button, the SQL statement is parsed. This function ensures that the SQL statement is valid. If the SQL statement is valid, the process checks the **Validated** field. If the SQL statement is invalid, an error message is returned.

When you click the **Test Rule** button, the system accesses a window where you may enter values for any substitution parameters used in the rule and execute the rule in test mode. This allows you to verify that the rule will return the expected results when used by the Batch Posting Process (RORBPST).



**Note:** It is recommended that you build your rules in an editor prior to entering these rules on the RORALGO form.

This form allows the use of user-defined functions.

The select statement for the SQL Statement must return the appropriate value, based on the Process and Type defined for the rule. For example, for the Batch Posting type for Budget component amount, the rule must return a numeric value. Conversely, for the Batch Posting type for an Aid Period code, the rule must return a character value.

New fields:

Fields	Descriptions
Sequence	Algorithmic budgeting rule sequence number (rules are processed in ascending order but do not need to be sequential). (RORALGO_SEQ_NO).
Validated	Algorithmic budgeting rule <b>Validated</b> indicator. A check in this field indicates that the rule has been validated. (RORALGO_VALIDATED_IND).
Validate (Icon)	When you click the <b>Validate</b> button, the SQL statement is parsed. This function ensures that the SQL statement is valid. If the SQL statement is valid, the process checks the <b>Validated</b> field. If the SQL statement is invalid, an error message is returned.
User ID	User ID of the person that created or last updated the rule. (RORALGO_USER_ID).
Active	The <b>Active</b> indicator allows you to inactivate specific sequence numbers. This inactivates the algorithmic budgeting rule for a specific aid year code, rule code, and sequence number. Uncheck the checkbox to inactivate. (RORALGO_ACTIVE_IND).

Fields	Descriptions
Test Rule (Icon)	When you click the <b>Test Rule</b> icon, the system accesses a window where you may enter values for any substitution parameters used in the rule and execute the rule in test mode. This allows you to verify that the rule will return the expected results when used.
Activity Date	The date that information in this record was entered or last updated. (RORALGO_ACTIVITY_DATE).
SQL Statement	The SQL statement you write to define the general algorithmic rule. The select statement for the SQL Statement must return the appropriate value, based on the Process and for Batch Posting, the Batch Posting Type. You can use case logic in an SQL statement. (RORALGO_SQL_STATEMENT).

## Test Rule window

When you click the Test Rule button, the system accesses the Test Rule window where you may enter values for any substitution parameters used in the rule and execute the rule in test mode. This allows you to verify that the rule will return the expected results.

Note that all sequences for the aid year and rule must be validated before you can access this window. A sequence number is bypassed if it is inactive.

New fields:

Fields	Descriptions
ID	The ID of the student used during the execution of the rule. You must enter an ID before you select the Execute button. Select the List function to access the Person Search (SOAIDEN) window.
Calculated Character	The calculated character value returned from executing the rule. (CALCULATED_CHARACTER).
Calculated Amount	The calculated amount returned from executing the rule. (CALCULATED_AMOUNT).
Calculated Sequence	The rule sequence executed to calculate the amount.
Execute (Icon)	Select the Execute icon to execute the rule and return the calculated value.
Clear and Return to Data Entry (Icon)	Click the <b>Clear and Return to Data Entry</b> button if you want to clear the calculated value and return the cursor to the <b>ID</b> field so that you can enter another ID.

## Executing the Test Rules

When you select the **Execute** button, the system will execute the rule for the aid year entered in the key-block using any of the substitution values entered on the Test Rule window and will display the results in the **Calculated Amount** or **Calculated Character** field, as appropriate.

Click the **Clear and Return to Data Entry** button if you want to clear the results and return the cursor to the **ID** field so that you can enter another ID for testing.

The values entered when testing a rule will remain populated unless the **Clear and Return to Data Entry** button is clicked (or you leave the form).

## Copy To block

The Copy To block allows you to copy a rule from one aid year, rule, and sequence combination to another aid year, rule, and sequence combination, to transfer the same rules from one aid year to another aid year, or to copy rule information from one sequence number to another sequence number. In order to access this window, there must be a valid set of rule criteria in the Rule block.

New fields:

Fields	Descriptions
Aid Year	Aid year to which you want to copy a rule. You must enter an Aid Year code when you use the Copy button. Select the List function to access the Aid Year Validation window (ROIADY), which lists valid aid years.
Process	The Process to which you want to copy a rule. Select the List function to access the Processes available for utilizing General Algorithmic Rules. (KEYBLCK_PROCESS).
Type	Batch Posting Type to which you want to copy the rule. Select the List function to access Batch Posting Type Validation (RTVPTYP).
Rule	Algorithmic rule code to which you want to copy a rule. This is a required field for the copy process. Select the List function to access the General Algorithmic Rule Validation (RTVALGO) form to view valid rule codes.
Sequence	Sequence number to which you want to copy a rule. You can copy a rule to any sequence number that is not currently in use for the aid year, rule, or sequence. If you do not enter a sequence number, the next available sequence number will be generated. If you check the <b>Copy All Sequences</b> checkbox, the <b>Copy To Sequence</b> number must be blank.

Fields	Descriptions
Copy All Sequences	Check this field to copy all sequence numbers in a rule to another rule code that exists on RTVALGO. If the <b>Copy All Sequences</b> checkbox is checked, RORALGO rules cannot exist for the Copy To <b>Aid Year</b> and <b>Rule</b> code.
Copy (Icon)	You may select the <b>Copy</b> icon to copy the rules or you may use an Insert Record function.

## General Algorithmic Rule Validation (RTVALGO)

This form allows you to define general algorithmic rule codes for use on the General Algorithmic Rules (RORALGO) form.

New fields:

Fields	Descriptions
Rule Code	Algorithmic Rule Code. (RTVALGO_CODE).
Rule Description	Algorithmic Rule Description. (RTVALGO_DESC).
Active	Algorithmic Rule Active indicator. Checked = Active. (RTVALGO_ACTIVE_IND).
Activity Date	Activity Date. (RTVALGO_ACTIVITY_DATE).



**Note:** A General Algorithmic Rule Code cannot be deleted if it exists on the General Algorithmic Rules (RORALGO) Table for any aid year.

## Changed forms

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### Batch Posting Rules (RORPOST)

The Batch Posting Rules form has been modified to include fields for entering the Algorithmic Rule that should be used to calculate the value to be posted to the applicant's record. You may enter the value to be posted or you may enter the algorithmic rule to be used but not both. The following Type Codes currently support the use of algorithmic rules to calculate the value to be posted:

- Period budget components (uses algorithmic rules written on RBRABRC). Enter either the Amount to Post or enter the algorithmic rule in the Amount Algorithmic Rule.
  - PBAA Comp - All Types/All Periods
  - PBAS Comp - All Types/One Period
  - PBPA Comp - Pell/All Periods
  - PBPS Comp - Pell/One Period
  - PBSA Comp - One Type/All Periods
  - PBSS Comp - One Type/One Period
- Fund award status/amount (uses algorithmic rules written on RPRALGR). Enter either the Amount to Post or enter the algorithmic rule in the Amount Algorithmic Rule.
  - F Fund Code/Amount/Status
  - FN Fund/Amt/Status no validation
- Aid year budget components (uses algorithmic rule written on new RORALGO). Enter either the Amount to Post or enter the algorithmic rule in the Amount Algorithmic Rule.
  - B Budget Component/Amount
- Aid period and Pell aid period (uses algorithmic rule written on new RORALGO). Enter either the Code to Post or enter the algorithmic rule in the Code to Post Algorithmic Rule
  - A Aid Period Code
  - AP Pell Aid Period Code

The RORPOST form has been updated to add two new fields.

The following field has been added to RORPOST:

Fields	Descriptions
Code to Post Algorithmic Rule	Code to Post Algorithmic Rule. (RORPOST_POST_CODE_RULE_CODE).
Amount Algorithmic Rule	Amount Algorithmic Rule. (RORPOST_AMT_RULE_CODE).

## Batch Posting Type Indicator Validation (RTVPTYP)

The RTVPTYP form has been updated to add the Code Required column. A required data script is also delivered to update the value of the Code Required and Amount Required indicators to *R* which allows the appropriate Batch Posting types to use algorithmic rules to calculate the value to be posted.

The following image illustrates the changes to the RTVPTYP form:

Type Code	Description	Code Required	Amount Required	Status Required	Term Required	Period Required	Date Required	Misc Code 1 Required	Misc Code 2 Required	--- Reject --- Code Type
1	Fed. Meth. Student Contr. Lock	Y	N	N	N	N	N	N	N	O O
2	Fed. Meth. Parent Contr. Lock	Y	N	N	N	N	N	N	N	O O
4	System Pell EFC Lock	Y	N	N	N	N	N	N	N	O O
5	Inst. Meth. Student Contr. Lock	Y	N	N	N	N	N	N	N	O O
6	Inst. Meth. Parent Contr. Lock	Y	N	N	N	N	N	N	N	O O
A	Aid Period Code	R	N	N	N	N	N	N	N	O O
AA	Award Level Info Access Ind.	Y	N	N	N	N	N	Y	N	O O
AP	Pell Aid Period Code	R	N	N	N	N	N	N	N	N N
AS	Student Info Access Indicator	Y	N	N	N	N	N	N	N	O O
B	Budget Component/Amount	Y	R	N	N	N	N	N	N	O O
BA	Budget Level Info Access Ind.	Y	N	N	N	N	N	N	N	N N
BB	Borrower Based Indicator	Y	N	N	N	N	N	N	N	O O
BF	Budget Duration - FM	Y	N	N	N	N	N	N	N	O O
BI	Budget Duration - IM	Y	N	N	N	N	N	N	N	O O
C	Current Record Lock	Y	N	N	N	N	N	N	N	O O
D	Packaging Completed Date	Y	N	N	N	N	N	N	N	O O
DD	Scheduled Disbursement Date	Y	N	N	N	Y	Y	N	N	O O
E	Enrollment Status for Year	Y	N	N	N	N	N	N	N	O O
F	Fund Code/Amount/Status	Y	R	Y	N	N	N	N	N	O O
FH	HPPA Indicator	Y	N	N	N	N	N	N	N	O O
FL	Fund Lock	Y	N	N	N	N	N	Y	N	N N

The following field has been added to RTVPTYP:

Fields	Descriptions
Code Required	Post Code Required. Valid values, (Y)es or (R)ule may be used. Display only. (RTVPTYP_POST_CODE_REQ_IND).

## Changed menu

---

### Financial Aid Common Functions Control (\*RESCOMNCM)

The following entries have been added to the \*RESCOMNCM menu:

General Algorithmic Rules	RORALGO
General Algorithmic Rules Validation	RTVALGO

## Changed processes

---

### FA New Year Roll Process (ROPROLL)

The FA New Year Roll Process (ROPROLL) has been modified to add General Algorithmic and Batch Posting Rules.

The new column for the TEACH Reduction Percentage (RFRASPC\_TEACH\_REDUCTION\_PCT) delivered as part of the 8.17.2 release has also been added to the roll of Fund data.

### Batch Posting Process (RORBPST)

The Batch Posting Process (RORBPST) has been modified to optionally execute an Algorithmic Rule to determine the value to be inserted/updated on an applicant's record.

### Processing

The Algorithmic Rule's Type Code and its returned amount will be used to determine the value of the insert/update or whether an insert/update should be made.

#### Period budget components

- PBAA Comp - All Types/All Periods
- PBAS Comp - All Types/One Period
- PBPA Comp - Pell/All Periods

- PBPS Comp - Pell/One Period
- PBSA Comp - One Type/All Periods
- PBSS Comp - One Type/One Period.

Algorithmic Type Code's returned amount	Resulting action
NULL	Message: <i>Budget Component not calculated</i>
Not NULL	Create or update the component with the calculated amount.  <b>Note</b> - The successful completion message has been modified to include the calculated amount and sequence number used to determine the amount.



**Note:** If a rule was not used and the amount was entered, RORBPST processing remains unchanged.

#### Fund award status/amount

- F Fund Code/Amount/Status
- FN Fund/Amt/Status no validation

Algorithmic Type Code's returned amount	Resulting action
NULL	Message: <i>Fund Amount not calculated</i>
Not NULL	Create or update the award amount with the calculated amount.  <b>Note</b> - The successful completion message has been modified to include the calculated value returned by the rule.



**Note:** If a rule was not used and the amount was entered, RORBPST processing remains unchanged.

## Aid year budget components

- B Budget Component/Amount

Algorithmic Type Code's returned amount	Resulting action
NULL	Message: <i>Budget Component not calculated</i>
Not NULL	<p>Create or update the budget component amount with the calculated amount.</p> <p><b>Note</b> - If the returned amount exceeds space available, the following error message is generated:</p> <p style="text-align: center;"><i>Calculated Budget Component is invalid</i></p> <p><b>Note</b> - The successful completion message has been modified to include the amount calculated and sequence number used to determine the amount.</p>



**Note:** If a rule was not used and the amount was entered, RORBPST processing remains unchanged.

## Aid period and Pell aid period

- A Aid Period Code
- AP Pell Aid Period Code

Algorithmic Type Code's returned amount	Resulting action
NULL	Message: <i>[Pell] Aid Period Code not calculated</i>
Not NULL	<p>Create or update the aid period with the calculated value.</p> <p><b>Note</b> - If the returned value has not been defined as an aid period on RTVAPRD, the following error message is generated:</p> <p style="text-align: center;"><i>Calculated [Pell] Aid Period Code is invalid</i></p> <p><b>Note</b> - The successful completion message has been modified to include the aid period determined and sequence number which determined the value calculated.</p>



**Note:** If a rule was not used and the code to post was entered, RORBPST processing remains unchanged.

## Output

The Algorithmic Rule Code and the Algorithmic Amount to Post values have been added to the information for the Batch Posting Type being processed.

A second line has been added to include the calculated value determined by the algorithmic rule for the code or value being posted for the applicant.

# Miscellaneous Enhancements - Functional

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This section describes miscellaneous functional enhancements (Change Request - Enhancements) included in the 8.18 release.

## Resolved Change Request - Enhancements

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### Batch Posting (for modified Batch Posting Types)

This section describes a Change Request - Enhancement associated with the Batch Posting for the 8.18 release.

#### Allow Null for Pell Aid Period

##### Change Request - Enhancement 1-BIEWM2

###### *Reported*

Unable to assign NULL as a possible Pell Aid Period on RORPOST.

###### *Requested functionality*

If a student is no longer enrolled for summer, it would be simplest to reset their Pell aid period to NULL, then recalculate their Pell for that aid year than having to create Pell aid periods that do not include the crossover term.

###### *Resolution*

The Batch Posting Rules (RORPOST) form has been modified to allow NULL as the Code to Post when the Type Code is *AP*. The Batch Posting Process (RORBPST) has been modified to correctly process the NULL condition.

## FISAP

This section describes a Change Request - Enhancement associated with FISAP for the 8.18 release.

## Select all students paid FSEOG, FWS, or Federal Perkins

### Change Request - Enhancement 1-1CO1GSS

#### *Reported*

Change functionality to select all students paid FSEOG, FWS, or Federal Perkins.

#### *Requested functionality*

Change functionality to select all students paid FSEOG, FWS, or Federal Perkins regardless of other criteria. Currently the RORFSxx process may not select all students paid campus based aid due to other criteria in the select. This causes Section VI to be out of balance with corresponding Sections III, IV, or V and out of balance with the institution's reconciliation records. Users must create reports or population selections to find students who have not been selected by the process and add them manually.

Altering the selection of students for the FISAP report should make the preparation of the FISAP more time efficient. As an alternative solution a report indicating which students were not selected but paid campus based aid should save time as well.

#### *Resolution*

When Parameter 02 = R, the FISAP has been changed to include a report of students offered and/or paid Title IV (Pell, SEOG, Perkins, Work Study, Stafford, PLUS) aid but not reported in Part II, Section F and students offered and/or paid FSEOG, FWS or Perkins but not included in Part VI, Section A.

## Discrepancy Report

### Change Request - Enhancement 1-TF7TMY

#### *Reported*

Provide a supplemental FISAP report to assist in tracking down discrepancies when reconciling Part II - Application to Participate with Part VI - Program Summary sections of the FISAP report.

#### *Requested functionality*

1. There are students who are not getting reported in Part IV because they currently don't meet the selection criteria for being eligible for Title IV aid, but previously were eligible and did receive SEOG, Federal Work-study, and Perkins.

2. there are students excluded from Part II that were paid Pell and Direct Loans and are now ineligible.

## *Resolution*

When Parameter 02 = R, the FISAP has been changed to include a report of students offered and/or paid Title IV (Pell, SEOG, Perkins, Work Study, Stafford, PLUS) aid but not reported in Part II, Section F and students offered and/or paid FSEOG, FWS or Perkins but not included in Part VI, Section A.

# 2012-2013 FISAP and 2013-2014 Direct Loan Update - Technical

---

## Required data

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### Report/Process Definition Table (GJBJOBS)

A new script, `rgjbjjobsi_081721.sql`, has been included to add entries to the Report/Process Definition Table (GJBJOBS).



**Note:** You must execute this script as part of the Banner Financial Aid 8.18 installation to ensure that correct values exist in the table prior to user processing.

### Parameter Definition Table (GJBPDEF)

A new script, `rgjbpdefi_081721.sql`, has been included to add entries for the new 2012-2013 FISAP (RORFS13) and 2013-2014 Direct Loan Compare (RPRCP14) processes.



**Note:** You must execute this script as part of the Banner Financial Aid 8.18 installation to ensure that correct values exist in the table prior to user processing.

### Default Parameter Table (GJBPDFT)

A new script, `rgjbpdfdi_081721.sql`, has been included to add Default Parameter Table (GJBPDFT) entries for the new 2012-2013 FISAP (RORFS13) and 2013-2014 Direct Loan Compare (RPRCP14) processes.



**Note:** You must execute this script as part of the Banner Financial Aid 8.18 installation to ensure that correct values exist in the table prior to user processing.

## Parameter Validation Table (GJBPVAL)

A new script, `rgjbpvali_081721.sql`, has been included to add Parameter Validation Table (GJBPVAL) entries for the new 2012-2013 FISAP (RORFS13) and 2013-2014 Direct Loan Compare (RPRCP14) processes.



**Note:** You must execute this script as part of the Banner Financial Aid 8.18 installation to ensure that correct values exist in the table prior to user processing.

## General Object Base Table (GUBOBS)

A new script, `rgubobjsi_081721.sql`, has been included to add General Object Base Table (GUBOBS) entries for the new 2012-2013 FISAP (RORFS13) and 2013-2014 Direct Loan Compare (RPRCP14) processes.



**Note:** You must execute this script as part of the Banner Financial Aid 8.18 installation to ensure that correct values exist in the table prior to user processing.

# Algorithmic Batch Posting - Technical

---

This chapter describes the technical changes that support the 8.18 release.

## New tables

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### General Algorithmic Rules Table (RORALGO)

The new RORALGO table has been added for the 8.18 release.

Column	NULL?	Type	Comment
RORALGO_AIDY_CODE	No	VARCHAR2 ( 4 )	AID YEAR CODE: The aid year associated with information in this record.
RORALGO_PROCESS	No	VARCHAR2 ( 10 )	PROCESS: The process for which the rule is used.
RORALGO_ALGO_CODE	No	VARCHAR2 ( 30 )	RULE CODE: The rule code associated with the algorithmic rule.
RORALGO_SEQ_NO	No	NUMBER ( 5 )	SEQUENCE NUMBER: A number designating multiple occurrences of the rule.
RORALGO_ACTIVE_IND	No	VARCHAR2 ( 1 )	ACTIVE INDICATOR: Indicates whether the algorithmic rule sequence number is active.
RORALGO_VALIDATED_IND	No	VARCHAR2 ( 1 )	VALIDATED INDICATOR: Indicates whether the rule has been validated and is ready for use.
RORALGO_SQL_STATEMENT	No	CLOB	SQL STATEMENT: The user written SQL statement defining the rule.
RORALGO_PTY_CODE	Yes	VARCHAR2 ( 4 )	POST TYPE CODE: The batch posting type for which the rule is used.

Column	NULL?	Type	Comment
RORALGO_ACTIVITY_DATE	Yes	DATE	ACTIVITY DATE: The date that information in this record was entered or last updated.
RORALGO_USER_ID	Yes	VARCHAR2 ( 30 )	USER ID: The user ID of the person who inserted or last updated this record.
RORALGO_DATA_ORIGIN	Yes	VARCHAR2 ( 30 )	DATA ORIGIN: The latest source for the data contained in this record.
RORALGO_SURROGATE_ID	Yes	NUMBER ( 19 )	SURROGATE ID: The surrogate id for this record.
RORALGO_VERSION	Yes	NUMBER ( 19 )	VERSION: The optimistic lock token for this record.
RORALGO_VPDI_CODE	Yes	VARCHAR2 ( 6 )	VPDI CODE: The code representing the entity to which this record belongs to for Multi-entity Processing support.

## Comment

The following comment on the table has been applied:

- General Algorithmic Rules Table

## Keys

A unique key (RORALGO\_KEY\_INDEX) has been added for the 8.18 release:

- RORALGO\_AIDY\_CODE
- RORALGO\_PROCESS
- RORALGO\_PTYP\_CODE
- RORALGO\_ALGO\_CODE
- RORALGO\_SEQ\_NO

A unique key (RORALGO\_PROCESS\_INDEX) has been added for the 8.18 release:

- RORALGO\_AIDY\_CODE
- RORALGO\_PROCESS
- RORALGO\_ALGO\_CODE

- RORALGO\_SEQ\_NO
- RORALGO\_PTYP\_CODE

The following foreign key constraints have been added for this release:

```
CONSTRAINT FK1_RORALGO_INV_ROBINST_CODE
FOREIGN KEY (RORALGO_AIDY_CODE)
REFERENCES ROBINST (ROBINST_AIDY_CODE)
```

```
CONSTRAINT FK1_RORALGO_INV_RTVALGO_CODE
FOREIGN KEY (RORALGO_ALGO_CODE)
REFERENCES RTVALGO (RTVALGO_CODE)
```

## General Algorithmic Rule Validation Table (RTVALGO)

The new RTVALGO table has been added for the 8.18 release.

Column	NULL?	Type	Comment
RTVALGO_CODE	No	VARCHAR2 ( 30 )	RULE CODE: The rule code associated with the particular algorithmic rule.
RTVALGO_DESC	No	VARCHAR2 ( 200 )	RULE CODE DESCRIPTION: The description for the algorithmic rule code.
RTVALGO_ACTIVE_IND	No	VARCHAR2 ( 1 ) DEFAULT = Y	ACTIVE INDICATOR: Indicates whether the rule code is active.
RTVALGO_ACTIVITY_DATE	Yes	DATE	ACTIVITY DATE: The date that information in this record was entered or last updated.
RTVALGO_USER_ID	Yes	VARCHAR2 ( 30 )	USER ID: The user ID of the person who inserted or last updated this record.
RTVALGO_DATA_ORIGIN	Yes	VARCHAR2 ( 30 )	DATA ORIGIN: The latest source for the data contained in this record.
RTVALGO_SURROGATE_ID	Yes	NUMBER ( 19 )	SURROGATE ID: The surrogate id for this record.
RTVALGO_VERSION	Yes	NUMBER ( 19 )	VERSION: The optimistic lock token for this record.
RTVALGO_VPDI_CODE	Yes	VARCHAR2 ( 6 )	VPDI CODE: The code representing the entity to which this record belongs to for Multi-entity Processing support.

## Comment

The following comment on the table has been applied:

- General Algorithmic Rule Validation Table

## Key

A primary key (PK\_RTVALGO) has been added for the 8.18 release:

- RTVALGO\_CODE

## Changed tables

---

### Batch Posting Rules Table (RORPOST)

The RORPOST table has been changed for the 8.18 release. The following columns have been added:

Column	NULL?	Type	Comment
RORPOST_AMT_RULE_CODE	Yes	VARCHAR2 ( 30 )	AMOUNT RULE CODE: The algorithmic rule used to calculate the amount to be posted.
RORPOST_POST_CODE_RULE_CODE	Yes	VARCHAR2 ( 30 )	POST CODE RULE CODE: The algorithmic rule used to calculate the code to be posted.

## Keys

The NOT NULL constraint has been removed from RORPOST\_POST\_CODE and the existing RORPOST\_KEY\_INDEX has been modified to add RORPOST\_POST\_CODE\_RULE\_CODE.

## Batch Posting Type Validation Table (RTVPTYP)

The RTVPTYP table has been changed for the 8.18 release. The following column has been added:

Column	NULL?	Type	Comment
RTVPTYP_POST_CODE_ REQ_IND	No	VARCHAR2 ( 1 ) DEFAULT = Y	POST CODE REQUIRED INDICATOR: Indicates if the Post Code must be populated for the batch posting type code.

## New package

The following new program objects have been added to support the Banner Financial Aid 8.18 release:

## RB\_GENERAL\_ALGO\_RULES API

The General Algorithmic Rules API (RB\_GENERAL\_ALGO\_RULES) is based on the General Algorithmic Rules Table (RORALGO). The General Algorithmic Rules API defines the columns which exist in the table and the edits which exist on each of the columns.



**Note:** This API is designed to support Banner internal processing and is not recommended or supported for use with external or third party systems. The recommendation for external applications is to use message level integration to integrate with this entity in Banner.

Package	Specification	Body
DML_RORALGO	rok_d_roralgo0.sql	rok_d_roralgo1.sql
RB_GENERAL_ALGO_ RULES	rok_b_roralgo0.sql	rok_b_roralgo1.sql
RB_GENERAL_ALGO_ RULES_RULES	rok_b_roralgo_r0.sql	rok_b_roralgo_r1.sql
RB_GENERAL_ALGO_ RULES_STRINGS	rok_b_roralgo_s0.sql	rok_b_roralgo_s1.sql

## RB\_RTVALGO API

The General Algorithmic Rule Validation API includes standard functions to support the General Algorithmic Rule Validation Table.

A function (F\_CODE\_IS\_ACTIVE) has been added to return a Y if the code is active.

Package	Specification	Body
RB_RTVALGO	rvkb_rtvalgo0.sql	rvkb_rtvalgo1.sql

## ROKALGO Package

Package	Specification	Body
ROKALGO	rokalgo0.sql	rokalgo1.sql

The following function and procedure have been added to support algorithmic batch posting:

### Function

The F\_VALIDATE\_SQL\_RULE function is used to validate an algorithmic rule.

### Procedure

The P\_EXECUTE\_RULE procedure will execute the algorithmic rule and return the result. Also, the sequence number of the rule that produced the result will be returned.

## Changed package

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The following program object has been changed to support the Banner Financial Aid 8.18 release:

### ROK\_ARCHIVE\_DATA package

Package	Specification	Body
ROK_ARCHIVE_DATA	rok_archive_data0.sql	rok_archive_data 1.sql

The new Algorithmic Rules (RORALGO) Table has been added to the P\_DELETE\_MISC\_RULES procedure.

## New database triggers

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### RT\_RORALGO\_LOG\_INSUPDDL (rotalgo9.sql)

This new trigger has been created to perform logging for the General Algorithmic Rules Table (RORALGO).

### RT\_RORALGO\_USERACTIVIT\_INSUPD (rotalgo0.sql)

This new trigger has been created to maintain User ID and Activity Date for the General Algorithmic Rules Table (RORALGO).

### RT\_RTVALGO\_LOG\_INSUPDDL (rttalgo9.sql)

This new trigger has been created to perform logging for the General Algorithmic Rule Validation Table (RTVALGO).

### RT\_RTVALGO\_USERACTIVIT\_INSUPD (rttalgo0.sql)

This new trigger has been created to maintain User ID and Activity Date for the General Algorithmic Rule Validation Table (RTVALGO).

## Changed database trigger

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### RT\_RORPOST\_LOG\_INSUPDDTL (rotpost9.sql)

The following columns have been added:

- RORPOST\_AMT\_RULE\_CODE
- RORPOST\_POST\_CODE\_RULE\_CODE

### RT\_RTVPTYP\_LOG\_INSUPDDTL (rttptypt9.sql)

The following column has been added:

- RTVPTYP\_POST\_CODE\_REQ\_IND

## New view

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A new view has been added to get the applicant's admissions application data for entry terms which are associated with the periods in the applicant's aid period. With this, rules can be written without using the aid year specific rules (when the applicant has already been assigned an aid period within Banner Financial Aid).

Rules may be written to select criteria based on the period being processed, as can be done using the Period Budget Grouping Process (RBRPBG).

### Period Budget Admissions View (ROVPBAD)

The new ROVPBAD view has been included as part of the 8.18 release:

#### Script

- ROVPBAD.SQL

#### Comments

This new view includes the following comment on table:

- Period Budget Admissions View

This new view includes the following comments on columns:

<b>Column Name</b>	<b>Comment</b>
ROVPBAD_AIDY_CODE	AID YEAR CODE: The aid year associated with information in this record.
ROVPBAD_PIDM	PIDM: The internal system student identification number.
ROVPBAD_PERIOD	PERIOD: The enrollment or payment period code.
ROVPBAD_TERM_CODE_ENTRY	ENTRY TERM: This field identifies the term associated with the information on applicant record.
ROVPBAD_APPL_NO	APPLICATION NUMBER: This field identifies the application number of the admissions record for a specific term.
ROVPBAD_LEVL_CODE	LEVEL CODE: This field identifies the level to which the applicant is applying.
ROVPBAD_APPL_DATE	APPLICATION DATE: This field identifies the date of the application record.
ROVPBAD_APST_CODE	APPLICATION STATUS: This field identifies the status of the application.
ROVPBAD_APST_DATE	APPLICATION STATUS DATE: This field identifies the date associated with the most current status of the application.
ROVPBAD_MAINT_IND	MAINTENANCE INDICATOR: This field identifies whether the status of the application is being maintained by the system or the user.
ROVPBAD_ADMT_CODE	ADMISSIONS TYPE: Admissions type.
ROVPBAD_STYP_CODE	STUDENT TYPE: The student type for the effective term.
ROVPBAD_CAMP_CODE	CAMPUS: The campus location associated with the student for the effective term.
ROVPBAD_SITE_CODE	SITE: Site Code.
ROVPBAD_COLL_CODE_1	COLLEGE: The college associated with the primary curriculum for the effective term.
ROVPBAD_DEGC_CODE_1	PRIMARY DEGREE: The degree within the primary curriculum for the effective term.
ROVPBAD_MAJR_CODE_1	PRIMARY MAJOR: The primary major within the primary curriculum for the effective term.

<b>Column Name</b>	<b>Comment</b>
ROVPBAD_COLL_CODE_2	COLLEGE FOR SECONDARY CURRICULUM: The college within the secondary curriculum for the effective term.
ROVPBAD_DEGC_CODE_2	DEGREE CODE FOR SECONDARY CURRICULUM: The degree within the secondary curriculum for the effective term.
ROVPBAD_MAJR_CODE_2	PRIMARY MAJOR FOR SECONDARY CURRICULUM: The primary major within the secondary curriculum for the effective term.
ROVPBAD_RESN_CODE	RESIDENCE: This field identifies the residency classification of the applicant.
ROVPBAD_FULL_PART_IND	FULL OR PART TIME: This field identifies if applicant intention is for full or part time enrollment.
ROVPBAD_SESS_CODE	SESSION: This field identifies which session applicant is applying for.
ROVPBAD_WRSN_CODE	WITHDRAWAL REASON: This field identifies the reason why an application has been withdrawn.
ROVPBAD_INTV_CODE	INTERVIEW: This field identifies the status of the interview associated with the applicant.
ROVPBAD_FEE_IND	APPLICATION FEE INDICATOR: This field identifies whether an application fee has been assessed.
ROVPBAD_FEE_DATE	APPLICATION FEE DATE: This field identifies the date application fee has been assessed.
ROVPBAD_RATE_CODE	APPLICATION FEE RATE: This field identifies a specific assessment rate assigned to the student.
ROVPBAD_EGOL_CODE	EDUCATIONAL GOAL: Educational Goal Code.
ROVPBAD_EDLV_CODE	EDUCATIONAL LEVEL: Education Level Code.
ROVPBAD_MAJR_CODE_CONC_1	PRIMARY CONCENTRATION: The primary concentration within the primary curriculum for the effective term.
ROVPBAD_DEPT_CODE	DEPARTMENT: Department Code.
ROVPBAD_SBGI_CODE	INSTITUTION ATTENDING CODE: This field represents the institution the student decided to attend rather than the home institution.

<b>Column Name</b>	<b>Comment</b>
ROVPBAD_RECR_CODE	RECRUITER: Recruiter Code.
ROVPBAD_RTYP_CODE	RECRUIT TYPE: Recruit Type code.
ROVPBAD_DEPT_CODE_2	DEPARTMENT FOR SECONDARY CURRICULUM: Department code for second curriculum.
ROVPBAD_MAJR_CODE_CONC_2	PRIMARY CONCENTRATION FOR SECONDARY CURRICULUM: The primary concentration within the secondary curriculum for the effective term.
ROVPBAD_PROGRAM_1	PROGRAM 1: Curriculum 1 Program Code.
ROVPBAD_TERM_CODE_CTLG_1	CATALOG TERM 1: Curriculum 1 Catalog Term Code.
ROVPBAD_MAJR_CODE_1_2	SECONDARY MAJOR FOR PRIMARY CURRICULUM: The secondary major within the primary curriculum for the effective term.
ROVPBAD_DEPT_CODE_1_2	DEPARTMENT 1: Curriculum 1 - Department 2.
ROVPBAD_MAJR_CODE_CONC_1_2	SECONDARY CONCENTRATION: The secondary concentration within the primary curriculum for the effective term.
ROVPBAD_MAJR_CODE_CONC_1_3	THIRD CONCENTRATION: The third concentration within the primary curriculum for the effective term.
ROVPBAD_MAJR_CODE_CONC_121	CONCENTRATION 1: Concentration Code 1 on Second Major on First Curriculum.
ROVPBAD_MAJR_CODE_CONC_122	CONCENTRATION 2: Concentration Code 2 on Second Major on First Curriculum.
ROVPBAD_MAJR_CODE_CONC_123	CONCENTRATION 3: Concentration Code 3 on Second Major on First Curriculum.
ROVPBAD_MAJR_CODE_MINR_1_1	PRIMARY MINOR: Minor Code 1 on Curriculum 1.
ROVPBAD_MAJR_CODE_MINR_1_2	SECONDARY MINOR: The secondary minor of the student for the effective term.
ROVPBAD_PROGRAM_2	PROGRAM FOR SECOND CURRICULUM: Curriculum 2 Program Code.
ROVPBAD_TERM_CODE_CTLG_2	CATALOG TERM FOR SECOND CURRICULUM: Curriculum 2 Catalog Term Code.

<b>Column Name</b>	<b>Comment</b>
ROVPBAD_LEVL_CODE_2	STUDENT LEVEL FOR SECOND CURRICULUM: Curriculum 2 Level Code.
ROVPBAD_CAMP_CODE_2	CAMPUS FOR SECOND CURRICULUM: Curriculum 2 Campus Code.
ROVPBAD_MAJR_CODE_2_2	SECONDARY MAJOR FOR SECONDARY CURRICULUM: The secondary major within the secondary curriculum for the effective term.
ROVPBAD_DEPT_CODE_2_2	DEPARTMENT FOR SECOND CURRICULUM: Curriculum 2 - Department 2.
ROVPBAD_MAJR_CODE_CONC_211	CONCENTRATION 1 SECOND CURRICULUM: Concentration 1 on First Major of Second Curriculum.
ROVPBAD_MAJR_CODE_CONC_212	CONCENTRATION 2 SECOND CURRICULUM: Concentration 2 on First Major of Second Curriculum.
ROVPBAD_MAJR_CODE_CONC_213	CONCENTRATION 3 SECOND CURRICULUM: Concentration 3 on First Major of Second Curriculum.
ROVPBAD_MAJR_CODE_CONC_221	CONCENTRATION 1 SECOND CURRICULUM: Concentration 1 on Second Major of Second Curriculum.
ROVPBAD_MAJR_CODE_CONC_222	CONCENTRATION 2 SECOND CURRICULUM: Concentration 2 on Second Major of Second Curriculum.
ROVPBAD_MAJR_CODE_CONC_223	CONCENTRATION 3 SECOND CURRICULUM: Concentration 3 on Second Major of Second Curriculum.
ROVPBAD_MAJR_CODE_MINR_2_1	SECONDARY MINOR: The secondary minor of the student for the effective term.
ROVPBAD_MAJR_CODE_MINR_2_2	SECONDARY MINOR FOR SECONDARY CURRICULUM: The secondary minor within the secondary curriculum for the effective term.
ROVPBAD_WEB_ACCT_MISC_IND	WEB ACCOUNT MISCELLANEOUS INDICATOR: Indicator to identify where receivable for web entered credit card payment for application fee is found. Values are M for misc, T for tbraccd.
ROVPBAD_WEB_CASHIER_USER	WEB CASHIER USER: User of cashier on transaction for web entered credit card payment for application fee.

Column Name	Comment
ROVPBAD_WEB_TRANS_NO	WEB TRANSACTION NUMBER: Transaction number of cashier on transaction for web entered credit card payment for application fee.
ROVPBAD_WEB_AMOUNT	WEB AMOUNT: Amount of transaction for web entered credit card payment for application fee.
ROVPBAD_WEB_RECEIPT_NUMBER	WEB RECEIPT NUMBER: Receipt number on transaction for web entered credit card payment for application fee.
ROVPBAD_WAIV_CODE	APPLICATION FEE WAIVER: Application fee waiver reason.
ROVPBAD_APPL_PREFERENCE	APPLICATION PREFERENCE: A number designating the ordinal preference of the application.
ROVPBAD_APDC_DATE	APPLICATION DECISION DATE: This field identifies the date application decision was effective.
ROVPBAD_APDC_CODE	APPLICATION DECISION CODE: This field identifies the application decision value associated with the application decision.

## Required data

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### Logging Control Base Table (ROBLOGC)

#### roblogci\_081800.sql

A new script, `roblogci_081800.sql`, has been included to insert entries for the new tables:

- `ROBLOGC_ACTIVITY_DATE = SYSDATE`
- `ROBLOGC_USER_ID = USER`
- `ROBLOGC_ACTIVE_IND = N`
- `ROBLOGC_LOG_INSERT_IND = N`

- ROBLOGC\_LOG\_UPDATE\_IND = N
- ROBLOGC\_LOG\_DELETE\_IND = N

ROBLOGC_TABLE_NAME	ROBLOGC_TABLE_DESC
RORALGO	General Algorithmic Rules Table
RTVALGO	General Algorithmic Rule Validation Table

## Logging Control Repeating Table (RORLOGC)

### rorlogci\_081800.sql

A new script, rorlogci\_081800.sql, has been included to insert entries for the new columns:

- RORLOGC\_ACTIVITY\_DATE = SYSDATE
- RORLOGC\_USER\_ID = USER
- RORLOGC\_ACTIVE\_IND = N

RORLOGC_TABLE_NAME	RORLOGC_COLUMN_NAME	RORLOGC_COLUMN_DESC
RORALGO	RORALGO_AIDY_CODE	AID YEAR CODE
RORALGO	RORALGO_PROCESS	PROCESS
RORALGO	RORALGO_ALGO_CODE	RULE CODE
RORALGO	RORALGO_SEQ_NO	SEQUENCE NUMBER
RORALGO	RORALGO_ACTIVE_IND	ACTIVE INDICATOR
RORALGO	RORALGO_VALIDATED_IND	VALIDATED INDICATOR
RORALGO	RORALGO_SQL_STATEMENT	SQL STATEMENT
RORALGO	RORALGO_PTYP_CODE	POST TYPE CODE
RORALGO	RORALGO_USER_ID	USER ID
RORALGO	RORALGO_ACTIVITY_DATE	ACTIVITY DATE
RORALGO	RORALGO_DATA_ORIGIN	DATA ORIGIN
RTVALGO	RTVALGO_CODE	RULE CODE

RORLOGC_TABLE_NAME	RORLOGC_COLUMN_NAME	RORLOGC_COLUMN_DESC
RTVALGO	RTVALGO_DESC	RULE CODE DESCRIPTION
RTVALGO	RTVALGO_ACTIVE_IND	ACTIVE INDICATOR:
RTVALGO	RTVALGO_USER_ID	USER ID
RTVALGO	RTVALGO_ACTIVITY_DATE	ACTIVITY DATE
RTVALGO	RTVALGO_DATA_ORIGIN	DATA ORIGIN
RORPOST	RORPOST_AMT_RULE_CODE	AMOUNT RULE CODE
RORPOST	RORPOST_POST_CODE_RULE_CODE	POST CODE RULE CODE
RTVPTYP	RTVPTYP_POST_CODE_REQ_IND	POST CODE REQUIRED INDICATOR

## Miscellaneous Validation Rules Table (RORMVAL)

### rormvali\_081800.sql

The new rormvali\_081800.sql script has been created to insert the following new values into RORMVAL:



**Note:** You must execute this script as part of the Banner Financial Aid 8.18 installation to ensure that correct values exist in the table prior to user processing.

- RORMVAL\_ACTIVITY\_DATE = SYSDATE
- RORMVAL\_USER\_ID = USER
- RORMVAL\_DATA\_ORIGIN = BANNER

The following new values will be inserted:

RORMVAL_COLUMN	RORMVAL_KEY_1	RORMVAL_KEY_2
RORALGO_PROCESS		

RORMVAL_ CODE	RORMVAL_DESC	RORMVAL_ TRANS_CODE	RORMVAL_ TRANS_ COMMENT
BP	Batch Posting		

## Batch Posting Type Validation Table (RTVPTYP)

### rtvptypu\_081800.sql

Set RTVPTYP\_AMT\_REQ\_IND to *R* where RTVPTYP\_CODE = :

- PBAA      Comp - All Types/All Periods
- PBAS      Comp - All Types/One Period
- PBPA      Comp - Pell/All Periods
- PBPS      Comp - Pell/One Period
- PBSA      Comp - One Type/All Periods
- PBSS      Comp - One Type/One Period

Set RTVPTYP\_AMT\_REQ\_IND to *R* where RTVPTYP\_CODE = :

- F            Fund Code/Amount/Status
- FN          Fund/Amt/Status no validation

Set RTVPTYP\_AMT\_REQ\_IND to *R* where RTVPTYP\_CODE = :

- B            Budget Component/Amount

Set RTVPTYP\_POST\_CODE\_REQ\_IND to *R* where RTVPTYP\_CODE = :

- A            Aid Period Code
- AP          Pell Aid Period Code

## Changed forms

### Financial Aid Referenced Object Library (ROQOLIB)

The following has been added for the 8.18 release:

- RTVALGO\_LOV and RTVALGO\_RG
  - Title = General Algorithmic Rule Validation - Aid Year (RORALGR)

# Problem Resolutions

This section lists the problem resolutions included in the Banner Financial Aid 8.18 release. At the time this guide was completed, the following problem resolutions were targeted for delivery with this release.



**Note:** The `finaid81800resolutions.xlsx` document is a companion to this release guide. The resolution document provides summary information about the change requests that are resolved in Banner Financial Aid 8.18. For additional details about specific change requests, go to <http://www.ellucian.com/Solutions/Ellucian-Client-Support/> and use the Ellucian Hub to access the Ellucian Support Center.

Process/Object	Change Request Number	Problem
rpk_shopping_sheet1 .sql	1-1DH5Z9Z	Shopping Sheet period based budget components do not sum in categories for non Pell budget groups.
RNARS14	1-1AAP8R3	Data masking the visibility of RORSTAT_NSLDS_OVRD_IND on RNARS13 getting error FRM-41033
rcpca*.shl, rcptp*.shl, rnpfm*.shl, rnra*.shl, roppcat.shl, rprgrnt.shl, rprssbp.shl	1-1BXYFF9	UNIX-only: Some Financial Aid Java process *.shl scripts hardcode the path to banjavaenv.shl
RNAPR14	1-1CSSCEP	RNAPR14 no longer allows MANUAL IM records to be deleted
REREX14	1-1DPEYOT	REREX14 XML extract file is created with all data on one line. Error in log file not converted.
RNPFMxx	1-1CHSNHU	MEP FMCALC Servlet - ORA-01400: cannot insert NULL into ("FAISMGR"."RCRASUM"."RCRASUM_V PDI_CODE")
RCRTP14	1-1COFCEC	RORSTAT_RECALC_NA_IND field is not updated for CSS records loaded after EDE
RORGRPS, RERFI14	1-1CUJS1F	LINT warnings are being generated when compiling in a Windows environment.

<b>Process/Object</b>	<b>Change Request Number</b>	<b>Problem</b>
Web Snapshot	1-192OHPS	SSB Unable to modify existing snapshot layouts when a numerical value is entered.
BWRKRHST	1-19NDT3U	Invalid characters found message in pop-up for award message containing html
RORCMPL	1-1E2ZHJ4	RORCMPL dba_col_comments are reversed
RCKED141, RCKCA141	1-1BZ673Z	ORA-06510: PL/SQL: unhandled user-defined exception ORA-06512: at "BANINST1.RCKED140"
RNAPR14	1-1BLDQ2C	RNAPR13/RNAPR14 is copying in 4 fields from the custodial to noncustodial record.
RCRTP14	1-1CZ85EG	RNASL14 data not loaded.
bwrksho1.sql	1-1DB9QR1	Shopping sheet can be accessed even when disabled using RPAAWRD or ROAINST
RRAAREQ	1-AEGHDV	Only one instance of a requirement is satisfied when Exit/Rollback clicked
RORFS13.pc, RPRCP14	1-1FTG5P5	The 2012-2013 (RORFS13) FISAP and the 2013-2014 DL (RPRCP14) comparison processes must be created.
bwrksho1.sql	1-1D87O50	Students can sometimes view the PDF shopping sheet for other students
bwrksho1.sql	1-1DB9QR5	Students can sometimes view the PDF shopping sheet for other students
RCPTP14, RCPCA14	1-1BB8WRI	RCPTP14 and RCPCA14 load blank records to the Error Export File
REREX14.jar	1-1E560W3	REREX14 produces an incomplete XML output file when it encounters an error on the last student.
RCRAPP1_EXP_EN ROLL_STATUS	1-14UFI9T	RCRAPP1_EXP_ENROLL_STATUS field is being updated when another ISIR is made current
RNRGL14	1-1ATSSUM	RNRGL14 auto hint for Percentage of Income for ASG shows last year's percentages
BWRKTRK1.sql	1-19IDB4G	Invalid Characters Found message is displayed when selecting the icon for the pop-up instructions

<b>Process/Object</b>	<b>Change Request Number</b>	<b>Problem</b>
RCPCA14	1-1CHLZBJ	Source for Application Received Date is NULL and Application Received Date = P results in wrong date
RCPTP14, RCPCA14	1-1CEXYUG	RCPTP14 and RCPCA14 may load incorrect FM Parent or Student Contribution
RCPTP14	1-1CM2ATD	Rejected ISIR FM SC loading as zero instead of null
bwrkshop	1-1D7TEZR	Shopping sheet can be accessed even when disabled using RPAAWRD or ROAINST
RNPFM14.jar	1-1ENQFN7	RNPFM14 incorrectly calculates parent asset information in the PC for Independent calculation.
RSIAREV	1-1AR6T3S	RSIAREV may display transactions not associated with a student under certain circumstances.
RNRQINI	1-1BRZA3O	Log files not being named with a unique name
RCPTP14	1-1CSSLEB	RCPTP14 errors processing ISRF14 files
BWRKSHOP	1-1CULOCD	Loan Default Rate percentages may get skewed to bottom of box in Internet Explorer
RORWBQA	1-1BS04P0	Invalid Characters message on the Resources/Additional Information tab of the Award Package by Aid
RPEPCKG.pco	1-1D5RROJ	RPEPCKG ignores GAP packaging rules on RPRPCKR and ignores outside resources from RPAARSC
REREX14, REKCE14	1-1E9RNYJ	Changes to PLUS loans cannot be extracted using REREX14 - ORA-01410: invalid ROWID
RPRSHOP	1-1CUTGSF	Scrollbar in Campus setup tab does not have the correct visual attribute
DOC	1-1CSSCF4	Documentation for CSS RCRTPx parameter 03 options
RCPTP14, RCPCA14	1-1BX8YT1	RCPTP14 and RCPCA14 are loading an incorrect value for Independent Student Contribution from Income

<b>Process/Object</b>	<b>Change Request Number</b>	<b>Problem</b>
RCPTP14, RCPCA14	1-1COYHEN	RCPTP14 and RCPCA14 - Error file needs to be created with one up number as part of the file name
RPEPELL	1-1CEVN95	RPEPELL does not populate High Pell LEU field if student is not eligible for Pell when LEU >= 600%.
REAOR14	1-1CSWAUJ	Partial Masking not working on form REAOR09 – Error – FRM 41017: Cannot set update allowed property
RCRTP14	1-1DLROAB	EDE and ISIR records load with a sequence number of 0 instead of 1