Banner Student Release Guide

October 2006

Release 7.3.1
Release Guide

Student System

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Introduction

This release guide documents Release 7.3.1 of the Banner Student System. Release 7.3.1 includes enhancements, RPEs, and problem resolutions.

Enhancements for 7.3.1

The following enhancements are new for Release 7.3.1.

National Student Clearinghouse (NSC) Enhancement

This enhancement provides updates to the National Student Clearinghouse and Enrollment Reporting for the National Student Loan Data System reports. Changes include: processing counting in enrollment, withdrawals, attempted hours, and time status calculations.

Concurrent Curricula Phase 4

Phase 4 of this enhancement addresses usability issues for the default of curriculum data and the copying of curriculum records, as well as the purging of data created during the non-destructive updates to curriculum records and the archiving of curriculum records.

PESC/XML Transcript Phase 2

Phase 2 of this enhancement provides updates to the electronic transfer of transcript data using XML formatted files with PESC standards. The export process can be run using SFTP or an alternate transmission protocol. The output from the export and import processes can be translated into alternate forms (such as HTML) to provide readable/formatted files.

Miscellaneous Enhancements

The following enhancements are included in the “Miscellaneous Enhancements” section.

- Open Learning Updates
- Peterson’s Data Load Regulatory Updates for Reporting year 2006-2007
- New Admissions APIs - high school and test score information
- API Variable Bind Updates
- SFRSTCR Index Updates
This enhancement provides updates to the National Student Clearinghouse (formerly National Student Loan Clearinghouse) and Enrollment Reporting (formerly Student Status Confirmation Reports) for the National Student Loan Data System reports.

Functionality for counting in enrollment (STVRSTS) and affecting headcount (STVESTS) has been modified to remove limitations to overall institutional processing. These options allow institutions to use the existing indicators for their enrollment policies and Academic History processing and to use the new indicators for Clearinghouse and NSLDS processing. These options also eliminate the need for institutions to change the current headcount/enrollment values each time they submit a Clearinghouse report or to run scripts to populate SHAINST/SHATCKN to calculate the correct attempted hours for the students.

- Institutions now have a new method for determining if original credit hours from a section (CRN) will be used in attempted hours in Academic History. Previously, the Count in Enrollment (Indicator) on STVRSTS had to be used. Now, there is a new Count in Attempted (Hours Indicator) on STVRSTS.

- Institutions also have a new method for determining if original credit hours will be used in time status calculations. Previously, the Count in Enrollment (Indicator) on STVRSTS had to be used. Now, there is a new Count in Time Status (Indicator) on STVRSTS.

- Institutions now have a new method for determining if a student will be considered as withdrawn for NSC/SSCR reporting purposes. Previously, the Affect Headcount (Indicator) on STVESTS had to be used. Now, there is a new Third Party Withdrawal Indicator on STVESTS.

These updates provide additional flexibility in how course hours will be used by enrollment reporting, time status calculations, and some financial aid procedures. Institutions will also have the flexibility to determine how, and on what date, a student is considered as withdrawn from an institution. These changes allow Financial Aid offices to use Satisfactory Academic Progress reporting without having to manipulate the attempted hours for withdrawn courses after registration and grading have been closed for the term.

Additional enhancements and updates have been made to the report processing and output (SFRNSLC and SFRSSCR).
The following RPEs are delivered with this enhancement: #CMS-RPE1499, #CMS-RPE31566, #CMS-RPE35291, #CMS-RPE47036, #CMS-RPE3044, #CMS-RPE3078, #CMS-RPE3660, #CMS-RPE30532, #CMS-RPE32623, #CMS-RPE47029, #CMS-RPE1155, #CMS-RPE32046.

Updates for the following Problem Resolutions are delivered with this enhancement: #CMS-DFCT85058, #CMS-DFCT96216, #1-DET4F, #1-F8XPQ, #CMS-DFCT80233, #1-L1F26, #CMS-DFCT90399, #CMS-DFCT83399, #CMS-DFCT90325, #CMS-DFCT96918, #CMS-DFCT88540. Please refer to the “Problem Resolutions” section of the release guide for more information on these updates.

**Processing**

National Student Clearinghouse and Enrollment Reporting have been updated for NSC/SSCR reporting.

**Attempted Hours**

You can now retain hours that existed on a course before a dropped or withdrawn status was recorded. These “previous” hours are used in the attempted hours for GPA data in Academic History. A new indicator has been added to STVRSTS that can be used to determine if the credit hours from a section (CRN) should be used in attempted hours in Academic History. This indicator provides a method other than using the Count in Enrollment (Indicator). This satisfies #CMS-RPE47029.

The new Count in Attempted (Hours Indicator), when checked, will use the student’s hours for this section in attempted hours. When the indicator is unchecked, the attempted hours will default to 0 for the registration record.

New Attempted Hours fields have been added to SFAREGS and SFASTCA to display the credit hour hold value for the CRN/section. SHATCKN also displays the institutional course attempted hours that have been rolled after grading in the new Attempted Hours field in the Grades block. The attempted hours for a CRN can now be entered on SHATCKN when grades are changed. (See the “Changed Forms” - “Course Maintenance Form (SHATCKN)” topic for additional information.)

The SFRSTCR table stores the credit hour hold data, which maintains the most recent, non-zero credit hours for a course. The Grade Roll to Academic History (SHRROLL) has been updated to include the hours that existed on the course prior to recording the dropped or withdrawn status if the Count in Attempted (Hours Indicator) on STVRSTS is checked.

This credit hour hold value is then rolled to the new Attempted Hours field on SHATCKN when the indicator on STVRSTS is checked, and the Count in Attempted (Indicator) on SHAGRDE is checked for the grade being rolled. Otherwise, zero hours will be rolled to the attempted hours in history. (The grade roll to Academic
History processing has been updated to roll attempted hours for individual courses via the new SHRTCKG_HOURS_ATTEMPTED column.

The **Count in Enrollment (Indicator)** on STVRSTS can be unchecked, and credit hours will continue to be 0.000, but the Financial Aid Satisfactory Academic Progress processing will report the hours that existed prior to the withdrawal or drop in the **Attempted Hours** field in Academic History. This will allow an institution to set the **Count in Enrollment (Indicator)** to unchecked for other institutional processing and not create any negative implications on the attempted hours that are rolled to Academic History.

**Grade Roll to Academic History**

The SHKROLS package has been updated to roll attempted hours for individual courses into Academic History with grade roll processing.

You can now drop or withdraw a student from a course but retain the original hours for that course for use in Academic History using the **Count in Attempted (Hours Indicator)** on STVRSTS. When this indicator is checked for a course registration status code, the attempted hours rolled will be the hours that existed on the course prior to the dropped or withdrawn status being recorded.

When the **Count in Attempted (Hours Indicator)** is checked on STVRSTS for the course registration status code, the attempted hours displayed on SFAREGS for that CRN will be rolled to the new SHRTCKG_HOURS_ATTEMPTED column and will be displayed on SHATCKN in the new **Attempted Hours** field in the Grades block. If the **Count in Attempted (Hours Indicator)** is unchecked, zero attempted hours will be rolled for the course. This functionality is used when grades are rolled to history either through the SHRROLL process or the SFAALST and SFASLST forms.

**Time Status Calculations**

You can now retain previous hours on a course before a dropped/withdrawn status is recorded for use in the time status calculations as defined in the time status rules. A new indicator has been added to STVRSTS to provide control of the hours to be used in time status calculations and to determine which sections will be included in the time status calculations. The **Count in Time Status (Indicator)** indicates when checked, that the registration hours are included in the student’s time status calculation. When the **Count in Time Status (Indicator)** is checked, the time status hours are the last positive credit hours entered for the course. When the indicator is unchecked, the time status hours are set to zero for the course.

The registration credit hour hold data element stores the most recent credit hour value. It is never set to zero. The updated time status calculations will produce the sum of the **Time Status Hours** values on SFAREGS where the **Count in Time Status (Indicator)** is checked. Therefore if the **Count in Time Status (Indicator)** is checked for the course registration status code, indicating it is to be included in the time status calculation, the **Time Status Hours** value on SFAREGS will be used.
Otherwise, the course will be excluded from the time status calculation. This allows an institution to set the **Count in Enrollment (Indicator)** to unchecked for institutional processing and not create any implications for the time status calculation.

### Withdrown Enrollment Status

A new **Third Party Withdrawal Indicator** has been added to STVESTS. When this indicator is checked for an enrollment status code and that code is assigned to a student on SFAREGS, the student will be reported as withdrawn by the Clearinghouse Extract Report (SFRNSLC) and the NSLDS SSCR Process (SFRSSCR). This satisfies #CMS-RPE47029.

This new indicator on STVESTS is used to determine the withdrawn status of a student for NSC/NSLDS reporting. It also provides reporting that will not affect the return of financial aid funds, due to a mismatch in reporting based on a student’s withdrawal from a course.

If the **Third Party Withdrawal Indicator** is checked for the student’s enrollment status code, the student will be reported as a withdrawn student to NSLDS or NSC through the SFRNSLC and SFRSSCR processes. If the **Third Party Withdrawal Indicator** is unchecked for an enrollment status code, even if the **Affect Headcount (Indicator)** is also unchecked, the report processes will not consider the student as withdrawn and will report the last time status for the student that has been calculated by the time status rules.

This allows institutions to use a method other than the **Affect Headcount (Indicator)** on STVESTS to determine if a student should be considered withdrawn for NSC/SSCR reporting purposes, i.e., students who are withdrawn per the Clearinghouse and the NSLDS but who are still enrolled per the institution. For example, student that are enrolled in CEU (Continuing Education Unit) courses, as well as zero credit non-CEU courses, can drop regular credit courses.

This also eliminates the need to use the **Affect Headcount (Indicator)** to determine that an enrollment status code should be considered for NSC and NSLDS processing. This in turn no longer connects the indicator to the time status code that would have been reported in the file, based upon the latest date in the Student Enrollment Time Status History Table (SFRTHST) that exists since the last date the NSLC or SSCR report was processed. Therefore, the **Affect Headcount (Indicator)** no longer determines if a the student is considered as withdrawn for NSLC reporting. The **Affect Headcount (Indicator)** can be set as needed for other processes and reporting, such as unduplicated headcounts.

### Population Selection on SFRNSLC

You can now use population selection with the Clearinghouse Extract Report (SFRNSLC) to create the population that is reported based in institutionally defined needs. This satisfies #CMS-RPE30532, #CMS-RPE3660, #CMS-RPE35291, and #CMS-
RPE47036. This also helps with the request to report time status for students each time the process is run, regardless of the amount of credits they are registered for.

The standard, optional, population selection parameters have been added for: Application Code, Selection Identifier, Creator ID, and User ID. The SFRNSLC process will select students in the population selection, and any students that do not have an SFBETRM record will be listed on the output, when the Run Mode parameter is set to 1.

With the addition of population selection, the possibility exists that a student may have multiple time status records, and a change in the status record be reported to the NSC even if the student was never previously reported. In this case, if a student is submitted to the NSC with a change of status, and that student was not previously submitted, the NSC will continue their current practice of automatically removing the change of status record from the file and will then submit the students' current status when providing the submission to the lending institutions.

For example:

On July 1, Student A and Student B both register as full-time students.

On July 15, the institution runs a population selection report for SFRNSLC that includes only Student A, and the report is submitted to the NSC.

On July 30, Student B drops from full-time to half-time status.

On August 1, the institution runs a population selection report for SFRNSLC that includes Student B, and the report is submitted to the NSC.

Student B is reported as having a "drop in status", because he went from full-time to half-time between the dates of the first and second runs of SFRNSLC, even though he was not transmitted in the first run. The NSC is receiving a status change record for Student B, even though they have no prior status for him. The NSC has always, and will continue to, remove the change of status row for a student who was not previously reported, prior to submitting the data to the lender.

**Branch Code on SFRNSLC**

The flat file produced by the SFRNSLC process will now be transmitted using an institutionally defined branch code. A parameter has been added to the process to assist institutions who maintain separate branches for reporting. This satisfies #CMS-RPE31566 and #CMS-RPE32623.

The new Branch Code parameter is optional and is used to enter the two digit branch number code to be associated with the header record and individual records when transmitted in the file to third party agencies. If left blank, 00 is defaulted in.
If your institution maintains student records under multiple OE (FICE) numbers or branch codes, you can run a separate report for each OE number or branch code combination. For example, you could run one report for the medical school and one report for all other students.

If your institution maintains student records under one OE number, but has academic programs with different terms or mandatory attendance periods, you should consult the Clearinghouse as to your reporting expectations. (For example, medical schools often have different attendance periods than undergraduate schools.) You may want to generate separate data for the different academic programs and differentiate between them by using an "alternate" branch code or the official branch code.

**Updated Output Format on SFRNSLC**

The SFRNSLC process output has been enhanced to print the data to be transmitted via the flat file in a readable, user-friendly format. The process will also now produce a third file that is a list of the students that are being sent to the Clearinghouse. This satisfies CMS-RPE32046.

The new file that is created is a summary of the data to be transmitted to the NCS, that can be used to easily view student information such as: names, Banner IDs, SSNs, dates of birth, enrollment statuses, term start and end dates, and graduation dates. This file is created in addition to the pipe-delimited files and the missing/invalid data report that are produced by SFRNSLC.

A new Create Summary Report parameter has been added to the process. This allows you to produce a summary of the data being transmitted. This parameter is required and is only used with Run Modes 2 (EDI TS190) and 3 (EDI.Smart TS190). If the parameter is selected, a Summary Report will be produced.

Enter **Y** to create a Summary Report for Run Modes 2 (EDI TS190) and 3 (EDI.Smart TS190). Enter **N** to not create a summary report. The default is **Y**. This summary output shows all students included in the EDI output file and has a suffix of **.lis**. Run Mode 1 will continue to produce the Report of Missing/Invalid Data, regardless of the value selected for this parameter.

The files created by the report are now handled as follows.

- When SFRNSLC is run through job submission (GJAPCTL), three files are created and stored in the job submission directory:
  - `sfrnslc_oneup#.log`
  - `sfrnslc_oneup#.lis`
  - `sfrnslc_oneup#.txt`
  
  (The pipe-delimited `sfrnslc_oneup#.txt` file was previously named `sfrnslc_oneup#.lis`.)
• The sfrnslc_oneup#.log and sfrnslc_oneup#.lis files are viewable on the GJIREVO form.
• The renamed sfrnslc_oneup#.txt file can be found in the job submission directory.
• These changes require that users update any processes they have surrounding the EDI pipe-delimited output file.

The Run Mode parameter is used as follows.

• When the Run Mode parameter is set to 1 (Report of Missing/Invalid Data), no output is created for the pipe-delimited data file (.txt). Only the error report (.lis) is created with a control page and a .log file.
• When the Run Mode parameter is set to 2 (EDI TS190) or 3 (EDI.Smart TS190), and the Create Summary Report parameter is set to Y, (create a summary report for Run Modes 2 (EDI TS190) and 3 (EDI.Smart TS190)), the summary report is created (.lis) with a control page. The pipe-delimited file is created (.txt), and a .log file is created.
• When the Run Mode parameter is set to 2 (EDI TS190) or 3 (EDI.Smart TS190), and the Create Summary Report parameter is set to N, (do not create a summary report for Run Modes 2 (EDI TS190) and 3 (EDI.Smart TS190)), the summary report is created (.lis) with the message: Summary Report Not Requested, and a control page is printed. The pipe-delimited file is created (.txt), and a .log file is created.

Leave of Absence Reporting

A new indicator has been added to STVLEAV to allow a leave of absence code to be defined as one that must be reported in NCS/SSCR processing when the reports are run and leaves are calculated. This allows institutions to use leave of absence codes, even if the leave should not be reported to the Clearinghouse or NSLDS, and to select what leave status codes will be included as a valid leaves for NSC and NSLDS reporting. This satisfies #CMS-RPE3044.

The new Third Party Report Indicator indicates when checked (set to Y), that the leave of absence code will be selected from the general student record and reported as a leave by the Clearinghouse Extract Report (SFRNSLC) and the NSLDS SSCR Process (SFRSSCR).

Miscellaneous Updates to SFRNSLC

The process has also been updated with some additional functionality.

When the Run Mode parameter is set to 1, to produce the Report of Missing/Invalid Data, the report will now display an SSN error for students whose SSNs (SPBPERS_SSN) contain characters. The report will also display an address error for
students whose ZIP code (SPRADDR_ZIP) is less than five digits in length for the selected address.

The misspelled \textit{SGASTDN Grad Date precedes term end} error message has been corrected.

An option has been added to select the withdrawal date from the student withdrawal record (SFRWDRL), if one exists for the term. Otherwise the withdrawal date will continue to be selected from the enrollment record (SFBETRM). The new Effective Withdrawal Date parameter is required and is used to select the effective withdrawal date from the student withdrawal record (SFRWDRL\_EFF\_WDRL\_DATE) if one exists for term. If set to \textit{N}, the process will continue to select the date from the enrollment record (SFBETRM\_ESTS\_DATE). The default is \textit{N}.

\section*{Miscellaneous Updates to SFRSSCR}

The NSLDS SSCR Process (SFRSSCR) has been updated with some additional functionality.

The process has been updated to display names on the Error Listing output when the Run Mode parameter is set to \textit{E}.

The process has also been updated to correctly match on ID/SSN only when the Match on ID Only parameter is set to \textit{Y}. Previously, SFRSSCR was rejecting records as "unmatched" if the Banner SPRIDEN last name did not agree with the incoming SSCR roster file last name. This occurred when you had generated SPRIDEN IDs with the SSN stored only in SPBPERS. Now, the process will look at ID only and not ID and Name when the parameter is set to \textit{Y}.

This process has been modified for how withdrawals are handled. The process will use the new \textit{Third Party Withdrawal Indicator} on STVESTS, rather than the \textit{Affect Headcount (Indicator)} to determine students who have withdrawn. When the \textit{Third Party Withdrawal Indicator} is checked, the student will be reported as a withdrawn student to the NSLDS through the SFRSSCR process. When the indicator is unchecked, the SFRSSCR process will not consider the student as withdrawn and will report the last time status for the student that was calculated by the time status rules. This satisfies \#CMS-RPE32046.

The process will also use the new \textit{Third Party Report Indicator} on STVLEAV to select the leave of absence codes for the student. The SFRSSCR process will only select leave of absence codes from the general student record to be reported to the NSLDS as valid leaves which have the \textit{Third Party Report Indicator} checked. This satisfies \#CMS-RPE3044.

An option has been added to select the withdrawal date from the student withdrawal record (SFRWDRL), if one exists for the term. Otherwise the process will continue to select the withdrawal date from the enrollment record (SFBETRM). Institutions no longer are held to using only the date of the status from the SFBETRM record. The new Effective Withdrawal Date parameter is required and is used to select the
effective withdrawal date from the student withdrawal record
(SFRWDRL_EFF_WDRL_DATE) if one exists for term. If set to N, the process will
continue to select the date from the enrollment record (SFBETRM_ESTS_DATE). The
default is N.

## Changed Forms

### Enrollment Status Code Validation Form (STVESTS)

A new field has been added to this form.

The **Third Party Withdrawal Indicator** indicates when checked, that the student will be reported as withdrawn by the Clearinghouse Extract Report (SFRNSLC) and the NSLDS SSCR Process (SFRSSCR).

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third Party Withdrawal Indicator</td>
<td>Check to report student as withdrawn by the Clearinghouse Extract Report (SFRNSLC) and the NSLDS SSCR Process (SFRSSCR).</td>
</tr>
</tbody>
</table>

### Leave of Absence Code Validation Form (STVLEAV)

A new field has been added to this form.

The **Third Party Report Indicator** indicates when checked, that the leave of absence code will be selected from the general student record and reported as a leave by the Clearinghouse Extract Report (SFRNSLC) and the NSLDS SSCR Process (SFRSSCR) when leaves are calculated. If the indicator is not checked, that leave code will not be used by SFRNSLC and SFRSSCR.

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third Party Report Indicator</td>
<td>Check to use the leave of absence code from the general student record for the Clearinghouse Extract Report (SFRNSLC) and the NSLDS SSCR Process (SFRSSCR) when leaves are calculated.</td>
</tr>
</tbody>
</table>
Course Registration Status Code Validation Form (STVRSTS)

Two new fields have been added to the form.

The **Count in Attempted** (Hours Indicator) indicates when checked, that the student’s hours for this section are included in attempted hours. When the indicator is unchecked, the attempted hours will default to 0 for the registration record.

The **Count in Time Status** (Indicator) indicates when checked, that the registration hours are included in the student's time status calculation.

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count in Attempted</td>
<td>Count in Attempted Hours. Check to include the student’s hours for this section in attempted hours. Uncheck to default attempted hours to 0 for the registration record.</td>
</tr>
<tr>
<td>Count in Time Status</td>
<td>Check to include the registration hours in the student’s time status calculation. Uncheck to not include the registration hours in the student’s time status calculation.</td>
</tr>
</tbody>
</table>

Student Course Registration Form (SFAREGS)

Two new fields have been added to the form.

The **Attempted Hours** field in the Course Information block is used to display the student’s attempted hours for the CRN/section. The field is populated by the existing `SFTREGS_CREDIT_HR_HOLD` value when the `STVRSTS_ATTEMPTED_HRS_IND` is set to Y.

The **Time Status Hours** field in the Course Information block is used to display the student's hours for the CRN/section that will be used in the time status calculation. The field is populated by the existing `SFTREGS_CREDIT_HRS_HOLD` value when the `STVRSTS_INCL_TMST_IND` is set to Y.

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attempted Hours</td>
<td>Used to display the student’s attempted hours for the CRN/section. The field is populated by the existing <code>SFTREGS_CREDIT_HR_HOLD</code> value when the <code>STVRSTS_ATTEMPTED_HRS_IND</code> is set to Y.</td>
</tr>
</tbody>
</table>
Section 1 National Student Clearinghouse - Functional Changed Forms

Student Course Registration Audit Form (SFASTCA)

A new field has been added to the form.

The Attempted Hours field in the Audit Information block is used to display the student’s attempted hours for the CRN/section. The field displays the existing SFRSTCA_ATTEMPTED_HOUR value, which is set to either the SFRSTCR_CREDIT_HR_HOLD value or 0 when the record is created, based on the value of the STVRSTS_ATTEMPTED_HRS_IND field.

Course Maintenance Form (SHATCKN)

A new field has been added to the form.

The Attempted Hours field in the Grades block is used to display the institutional course attempted hours associated with the grade of the course. The field displays the SHRTCKN_HOURS_ATTEMPTED value. When a grade change is recorded, the Attempted Hours value will default to either the Credit Hours value or 0 when a new grade, grade mode, and/or credit hours value is inserted, based on the value of the SHRGRDE_ATTEMPTED_IND field. You can then save the defaulted value or update the Attempted Hours value to 0.000.

When the Attempted Hours value is changed from the defaulted credit hours value to 0 (zero), if the grade entered has the Count in Attempted (Indicator) checked on SHAGRDE, a warning message is displayed: Attempted Hours entered does not match the Grade/Credit Hour combination use. Select OK to accept the changes, or select Cancel to restore the defaulted attempted hours. This alerts the user to the fact that the
credit hour value will not be used in attempted hours, although the grade for that course is set to count in the attempted hours for the course in the stored GPA data.

For example:

ENGL 101 is a 3.000 credit hour course that has been rolled to history with the grade of W after a student had a registration status change to a status of "withdrawn" and was assigned an autograde of W. The grade of W counts in attempted hours based on the rules for that term and level on SHAGRDE, but the registration status of withdrawn does not count in enrollment or attempted hours based on the settings on STVRSTS. The credit hours rolled were 0.000, and the attempted hours populated for this CRN and grade were also 0.000.

If it is found that the student actually did not withdraw from the course, the correct grade should be F. The grade has to be changed in SHATCKN, since grades have already been rolled. To do this, access SHATCKN for the ID and term, locate the correct CRN, and access the Grade block. Insert a new row, enter a grade of F, enter 3.000 credit hours, and 3.000 hours will default into the Attempted Hours field. In SHAGRDE, the grade of F counts in attempted hours for the level and term in use.

The institution can decide that they do not want to alter the attempted hours (0.000) associated with the originally rolled grade of W. You may overwrite the defaulted attempted hours value of 3.000 by entering a value of 0.000. When leaving the Attempted Hours field after entering 0.000, a warning message will be displayed, because the grade of F counts in attempted hours based on the rules on SHAGRDE. (The credit hours of 3.000 and the grade of F would normally require 3.000 hours in the Attempted Hours field, since F counts in attempted hours per the SHAGRDE rules.) You can respond to the message by selecting OK to accept the changed value of 0.000, or Cancel to return the value to 3.000 hours.

Attempted hours do not default from the credit hours entered when a new course is added through SHATCKN. No level exists for the course to validate whether the grade entered will count in attempted hours based on the rules on SHAGRDE until you access the Level block and enter the course level.
Clearinghouse Extract Report (SFRNSLC)

This report has been modified for this enhancement.

Seven new parameters have been added to the report.

- **Standard, optional, population selection parameters** have been added for: Application Code, Selection Identifier, Creator ID, and User ID.
  The report will evaluate all students in the population selection and print a list of students in the output that were skipped because no enrollment record (SFBETRM) exists for the term, when the Run Mode parameter is set to 1.

- **A new Effective Withdrawal Date parameter** has been added.
  This parameter is required and is used (when set to Y) to select the effective withdrawal date from the student withdrawal record (SFRWDL_EFF_WDRL_DATE) if one exists for term, otherwise the date from the enrollment record (SFBETRM_ESTS_DATE) will be used. If set to N, the process will continue to select the date from the enrollment record (SFBETRM_ESTS_DATE). The default is N.

- **A new Branch Code parameter** has been added.
  This parameter is optional and is used to enter the two digit branch number code to be associated with the header record and transmitted in the file to third party agencies. If left blank, 00 is defaulted in.

- **A new Create Summary Report parameter** has been added.
  This allows you to produce a summary of the data being transmitted. This parameter is required and is only used with Run Modes 2 (EDI TS190) and 3.

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attempted Hours</td>
<td>Used to display the institutional course attempted hours associated with the grade of the course. The field displays the SHRTCKG_HOURS_ATTEMPTED value. When a grade change is recorded, the Attempted Hours value will default to either the Credit Hours value or 0 when a new grade, grade mode, and/or credit hours value is inserted, based on the value of the SHRGRDE_ATTEMPTED_IND field. You can then save the defaulted value or update the Attempted Hours value to 0.000.</td>
</tr>
</tbody>
</table>

### Changed Reports/Processes
(EDLSmart TS190). If the parameter is selected, a Summary Report will be produced.

Enter Y to create a Summary Report for Run Modes 2 (EDI TS190) and 3 (EDLSmart TS190). Enter N to not create a summary report. The default is Y. This summary output shows all students included in the EDI output file and has a suffix of .lis. Run Mode 1 will continue to produce the Report of Missing/Invalid Data, regardless of the value selected for this parameter.

The files created by the report are now handled as follows.

- When SFRNSLC is run through job submission (GJAPCTL), three files are created and stored in the job submission directory:
  - sfrnslc_oneup#.log
  - sfrnslc_oneup#.lis
  - sfrnslc_oneup#.txt

  (The pipe-delimited sfrnslc_oneup#.txt file was previously named sfrnslc_oneup#.lis.)

- The sfrnslc_oneup#.log and sfrnslc_oneup#.lis files are viewable on the GJIREVO form.

- The renamed sfrnslc_oneup#.txt file can be found in the job submission directory.

- These changes require that users update any processes they have surrounding the EDI pipe-delimited output file.

The Run Mode parameter is used as follows.

- When the Run Mode parameter is set to 1 (Report of Missing/Invalid Data), no output is created for the pipe-delimited data file (.txt). Only the error report (.lis) is created with a control page and a .log file.

- When the Run Mode parameter is set to 2 (EDI TS190) or 3 (EDLSmart TS190), and the Create Summary Report parameter is set to Y, (create a summary report for Run Modes 2 (EDI TS190) and 3 (EDLSmart TS190)), the summary report is created (.lis) with a control page. The pipe-delimited file is created (.txt), and a .log file is created.

- When the Run Mode parameter is set to 2 (EDI TS190) or 3 (EDLSmart TS190), and the Create Summary Report parameter is set to N, (do not create a summary report for Run Modes 2 (EDI TS190) and 3 (EDLSmart TS190)), the summary report is created (.lis) with the message: Summary Report Not Requested, and a control page is printed. The pipe-delimited file is created (.txt), and a .log file is created.

This report has also been modified for how withdrawals are handled. The report will use the new Third Party Withdrawal Indicator on STVESTS, rather than the Affect Headcount (Indicator), to determine students who have withdrawn. When the Third Party Withdrawal Indicator is checked for the student’s enrollment status code, the student will be reported as a withdrawn student to the NSLDS or NSC through the
SFRNSLC report. When the indicator is unchecked, the SFRNSLC report will not consider the student as withdrawn and will report the last time status for the student that was calculated by the time status rules.

The report will use the new Third Party Report Indicator on STVLEAV to select the leave of absence codes for the student. When the indicator is checked, the report will only select leave of absence codes from the general student record to report the leaves to third parties.

When the Run Mode parameter is set to 1, to produce the Report of Missing/Invalid Data, the report will now display an SSN error for students whose SSNs (SPBPERS_SSN) contain characters. The report will also display an address error for students whose ZIP code (SPRADDR_ZIP) is less than five digits in length for the selected address.

**NSLDS SSCR Process (SFRSSCR)**

This process has been modified for how withdrawals are handled. The process will use the new Third Party Withdrawal Indicator on STVESTS, rather than the Affect Headcount (Indicator), to determine students who have withdrawn. When the Third Party Withdrawal Indicator is checked, the student will be reported as a withdrawn student to NSLDS through the SFRSSCR process. When the indicator is unchecked, the SFRSSCR process will not consider the student as withdrawn and will report the last time status for the student that was calculated by the time status rules.

The process will also use the new Third Party Report Indicator on STVLEAV to select the leave of absence codes for the student. The SFRSSCR process will only select leave of absence codes from the general student record to be reported to the NSLDS as valid leaves which have the Third Party Report Indicator checked.

A new Effective Withdrawal Date parameter has been added to the process. This parameter is required and is used to select the effective withdrawal date from the student withdrawal record (SFRWDRL), if one exists for term being processed. Otherwise, it will continue to select the date from the enrollment record (SFBETRM). If set to N, the process will continue to select the date from the enrollment record (SFBETRM). The default is N.

The process has been updated to display names on the Error Listing output when the Run Mode parameter is set to E.

The process has also been updated to correctly match on ID/SSN only when the Match on ID Only parameter is set to Y. Previously, SFRSSCR was rejecting records as "unmatched" if the Banner SPRIDEN last name did not agree with the incoming SSCR roster file last name. This occurred when you had generated SPRIDEN IDs with the SSN stored only in SPBPERS. Now, the process will look at ID only and not ID and Name when the parameter is set to Y.
Time Status Calculation Update Process (SFRTMST)

This process has been modified to use the new **Count in Time Status (Indicator)** on STVRSTS for each course registration status code on each CRN to determine which sections are included in the time status calculation. The time status calculation will use the sum of the credit hour hold values (SFRSTCR_CREDIT_HR_HOLD) where the **Count in Time Status (Indicator)** is set to **Y**.

Therefore, if the **Count in Time Status (Indicator)** is checked for a course registration status code on STVRSTS, the SFRSTCR_CREDIT_HR_HOLD value will be used. Otherwise, the course will be excluded from the time status calculation. This allows an institution to set the **Count in Enrollment (Indicator)** to any value needed for institutional processing and without creating any processing issues for the time status calculation.

Withdrawn Student Report (SFRWDRL)

This report has been modified for additional functionality.

Date sorting for the Major Sort Sequence parameter is now performed by calendar date, using the SFBETRM_ESTS_DATE value and the DATE format, rather than by numeric day and month.

EDI Data Interchange Extract (SHREDIY)

This extract has been modified to consider the total credit hours and quality points for all institutional courses that apply to the degree being processed. The new SHRTCKG_HOURS_ATTEMPTED column will be used (before the SHRTCKG_CREDIT_HOURS value) to calculate the DEGREE_ATTMPT_INST hours value.

There are no visible changes to the sediflt.dat files or to the SHREDIY output as a result of these updates. The attempted hours will continue to be transmitted correctly, according to the attempted hours rolled to history, which will now use the **Count in Enrollment (Indicator)** from the course registration status code on STVRSTS to determine whether to roll the original hours for the CRN or a value of **0** (zero).

Grade Mailer Report (SHRGRDE)

This report has been modified to use the new attempted hours processing for Academic History and grade calculation.

The internal variable for total attempted hours is now calculated using the SHRTCKG_HOURS_ATTEMPTED column. However, the report does not display attempted hours.

There are no visible changes to the output file from SHRGRDE.
Grade Roll to Academic History (SHRROLL)

Changes have been made to the shkrols.sql package that is called when grades are rolled to Academic History using SHRROLL, SFASLST, and SFAALST. The package will now roll attempted hours from registration records into the new SHRGTKC_HOURS_ATTEMPTED column.

There are no visible changes to the output file from SHRROLL.

Report Samples

Clearinghouse Extract Report (SFRNSLC)

Please see the following landscaped section for report parameters and sample output.

NSLDS SSCR Process (SFRSSCR)

Please see the following landscaped section for report parameters and sample output.
Section 1  National Student Clearinghouse - Functional Report Samples

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Clearinghouse Extract Report (SFRNSLC)

Description

This report extracts student enrollment information for the purpose of reporting to the National Student Clearinghouse (NSC). The report should first be run in the Report of Missing/Invalid Data mode, and then run in either the EDI or EDI.Smart mode to create the extract file. All errors must be corrected, and the Report of Missing/Invalid Data may be run as many times as needed, to diagnose and resolve problems with the data. When all data problems have been resolved, the message *No invalid or missing student data found for the <term code> term.* will print on the report output. Some informational messages may appear on the report output when all missing/invalid data has been corrected or resolved.

Only institutions that have licensed EDI.Smart and have made arrangements with the Clearinghouse to transmit the extract file with EDI.Smart should select that run mode option.

The Create Summary parameter is used to produce a summary report/overview of the data to be transmitted to the NCS. This summary can be used to easily view student information such as: names, Banner IDs, SSNs, dates of birth, enrollment statuses, term start and end dates, and graduation dates. This file is created in addition to the pipe-delimited files and the missing/invalid data report that are produced by SFRNSLC.

The files created by SFRNSLC are handled as follows:

- When SFRNSLC is run through job submission (GJAPCTL), three files are created and stored in the job submission directory:
  - sfrnslc_oneup#.log
  - sfrnslc_oneup#.lis
  - sfrnslc_oneup#.txt
- The *sfrnslc_oneup#.log* and *sfrnslc_oneup#.lis* files are viewable on the GJIREVO form.
- The *sfrnslc_oneup#.txt* file can be found in the job submission directory.
When the Run Mode parameter is set to 1 (Report of Missing/Invalid Data), no output is created for the pipe-delimited data file (.txt). Only the error report (.lis) is created with a control page and a .log file.

When the Run Mode parameter is set to 2 (EDI TS190) or 3 (EDI.Smart TS190), and the Create Summary Report parameter is set to Y, (create a summary report for Run Modes 2 (EDI TS190) and 3 (EDI.Smart TS190)), the summary report is created (.lis) with a control page. The pipe-delimited file is created (.txt), and a .log file is created.

When the Run Mode parameter is set to 2 (EDI TS190) or 3 (EDI.Smart TS190), and the Create Summary Report parameter is set to N, (do not create a summary report for Run Modes 2 (EDI TS190) and 3 (EDI.Smart TS190)), the summary report is created (.lis) with the message: *Summary Report Not Requested*, and a control page is printed. The pipe-delimited file is created (.txt), and a .log file is created.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Term Code</td>
<td>Yes</td>
<td>Enter the registration enrollment term for the report/extract.</td>
<td>Term Code Validation Form (STVTERM)</td>
</tr>
<tr>
<td></td>
<td>Student Attributes to</td>
<td>No</td>
<td>Enter the student attributes that will identify enrolled (registered)</td>
<td>Student Attribute Validation Form</td>
</tr>
<tr>
<td></td>
<td>Exclude</td>
<td></td>
<td>students for the term who should not be included in reporting to the</td>
<td>(STVATTS)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Clearinghouse.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Report Flag</td>
<td>Yes</td>
<td>Enter Y to select a standard report. Enter N to select a non-standard</td>
<td>Y Standard report</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>report.</td>
<td>N Non-standard report</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Note:</strong> Non-standard reports are submitted only for specific occasions,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>such as a summer term or a graduation report.</td>
<td></td>
</tr>
</tbody>
</table>
### Address Hierarchy

**Required?:** Yes

Enter the address types for reporting address information for enrolled (registered) students.

**Values:** Address Type Code Validation Form (STVATYP)

### Report Date

**Required?:** Yes

Enter the certification date for the report/extract. This is the date that will be used to determine the enrollment status for registered students to be reported to the Clearinghouse.

### Run Mode

**Required?:** Yes

Enter the appropriate run mode. Enter 1 for Report of Missing/Invalid Data, 2 for EDI TS190 output, or 3 for EDI.Smart TS190 output.

Run Mode 1 must be selected first, when preparing to report to the Clearinghouse and to print a report of missing/invalid data. After correcting all missing/invalid data, select either Run Mode 2 or 3 to produce the extract file that is submitted to the Clearinghouse.

**Note:** Only institutions that have licensed EDI.Smart and have made arrangements directly with the Clearinghouse to transmit an EDI.Smart file should select Run Mode 3.

### Graduate Level Code

**Required?:** No

Enter the code for graduate level courses. For example, GR. Multiple codes may be entered.

**Values:** Level Code Validation Form (STVLEVL)
### Parameters (cont.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Code</td>
<td>No</td>
<td>Enter the code that identifies the general area for which the selection identifier was defined. All or none of the population selection parameters must be entered.</td>
<td>Application Inquiry Form (GLIAPPL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Population Selection Extract Inquiry Form (GLIEXTR) may be used to review the people who will be processed in the load from the selection identifier and application code entered.</td>
<td></td>
</tr>
<tr>
<td>Selection Identifier</td>
<td>No</td>
<td>Enter the code that identifies the population with which you wish to work. The selection identifier must be defined on the Population Selection Definition Rules Form (GLRSLCT). All or none of the population selection parameters must be entered.</td>
<td>Population Selection Inquiry Form (GLISLCT)</td>
</tr>
<tr>
<td>Creator ID</td>
<td>No</td>
<td>Enter the user ID of the person who created the population rules. All or none of the population selection parameters must be entered.</td>
<td></td>
</tr>
<tr>
<td>User ID</td>
<td>No</td>
<td>Enter the user ID for the population selection. This is the ID of the user who selected the population of people. This may or may not be the same as the Creator ID. All or none of the population selection parameters must be entered.</td>
<td></td>
</tr>
</tbody>
</table>
### Parameters (cont.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Withdrawal Date</td>
<td>Yes</td>
<td>Enter Y to select the effective withdrawal date from the student withdrawal record (SFRWDRL_EFF_WDRL_DATE) if one exists for term, otherwise the date from the enrollment record (SFBETRM_ESTS_DATE) will be used. Enter N to select the date from the enrollment record (SFBETRM_ESTS_DATE). The default is N.</td>
<td>Y Use date from SFRWDRL, N Use date from SFBETRM</td>
</tr>
<tr>
<td>Branch Code</td>
<td>No</td>
<td>Enter the two digit numeric branch code to be associated with the header record header record and individual records when transmitted in the file to third party agencies. If left blank, 00 will default.</td>
<td></td>
</tr>
<tr>
<td>Create Summary Report</td>
<td>Yes</td>
<td>This parameter allows you to produce a summary of the data being transmitted.</td>
<td>Y Summary for Run Modes 2 and 3, N No summary report</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enter Y to create a Summary Report for Run Modes 2 (EDI TS190) and 3 (EDI.Smart TS190). Enter N to not create a summary report. The default is Y.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This summary output shows all students included in the EDI output file and has a suffix of .lis.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Run Mode 1 will produce the Report of Missing/Invalid Data, regardless of the value selected for this parameter.</td>
<td></td>
</tr>
</tbody>
</table>
This sample shows sample errors from the Report of Missing/Invalid Data, Run Mode 1.

<table>
<thead>
<tr>
<th>Student ID</th>
<th>Student Name</th>
<th>Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>A00012209</td>
<td>Berry_1, Jamie</td>
<td>--- No SSN Number on SPAPERS ---</td>
</tr>
<tr>
<td>A00012210</td>
<td>Hayes_2, Lindsey</td>
<td>--- SSN Not Numeric on SPAPERS ---</td>
</tr>
<tr>
<td>A00012212</td>
<td>Russell_4, Erin</td>
<td>--- No Term Record on SFBETRM ---</td>
</tr>
<tr>
<td>A00012212</td>
<td>Russell_4, Erin</td>
<td>--- No Time Status on SFAREGS ---</td>
</tr>
<tr>
<td>A00012213</td>
<td>Wente_5, Emily</td>
<td>--- No Address on SPAIDEN ---</td>
</tr>
<tr>
<td>A00012214</td>
<td>Wehner_6, Dom</td>
<td>--- Zipcode length exceeds 9 characters ---</td>
</tr>
<tr>
<td>A00012215</td>
<td>Berry_7, Darbi</td>
<td>--- Zipcode length is less than 5 characters ---</td>
</tr>
<tr>
<td>A00012216</td>
<td>Davis_8, Erin</td>
<td>--- No Time Status on SFAREGS ---</td>
</tr>
<tr>
<td>A00012217</td>
<td>Riffe_9, Bianca</td>
<td>--- Time Status Calc Error on SFAREGS ---</td>
</tr>
<tr>
<td>A00012218</td>
<td>Osburn_10, Jena</td>
<td>--- No NSC Equiv for 3Q on STVTMST ---</td>
</tr>
<tr>
<td>A00012219</td>
<td>McCarthy_11, Ashley</td>
<td>--- No Expected Grad Date on SGASTDN ---</td>
</tr>
<tr>
<td>A00012220</td>
<td>Nemeth_12, Stacey</td>
<td>--- SGASTDN Grad Date precedes term end ---</td>
</tr>
</tbody>
</table>
**REPORT CONTROL INFORMATION - SFRNSLC - Release 7.3.1**

TERM: 200635
STUDENT EXCLUDE ATTRIBUTES: None entered.
REPORT FLAG: Y
REPORT DATE: 12-SEP-2006
ADDRESS HIERARCHY: IMA 2PR
RUN MODE: 1
CODE FOR GRAD LEVEL:
APPLICATION CODE: STUDENT
SELECTION IDENTIFIER: NSC_PAM1
CREATOR ID: SYSTEST22
USER ID: SYSTEST22
BRANCH: 00
EFFECTIVE WITHDRAWAL DATE: Y
CREATE SUMMARY REPORT: N
This sample shows the message that displays on the output when the Report of Missing/Invalid Data (Run Mode 1) is selected, and all errors have been corrected.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student ID</td>
<td>Student Name</td>
<td>***** No invalid or missing student data found for the 200635 term *****</td>
</tr>
</tbody>
</table>

**REPORT CONTROL INFORMATION - SFRNSLC - Release 7.3.1**

TERM: 200635  
STUDENT EXCLUDE ATTRIBUTES: None entered.
REPORT FLAG: Y  
REPORT DATE: 03-OCT-2006  
ADDRESS HIERARCHY: IMA 2PR  
RUN MODE: 1  
CODE FOR GRAD LEVEL:  
APPLICATION CODE: STUDENT  
SELECTION IDENTIFIER: NSC_PAM1  
CREATOR ID: SYSTEST22  
USER ID: SYSTEST22  
BRANCH: 00  
EFFECTIVE WITHDRAWAL DATE: Y  
CREATE SUMMARY REPORT: N
This sample shows the Summary Report produced for Run Mode 2 and Create Summary Report is set to Y.

<table>
<thead>
<tr>
<th>BANNER ID</th>
<th>Name</th>
<th>SSN</th>
<th>DOB</th>
<th>EB Status</th>
<th>EB Change</th>
<th>Term Start/End</th>
<th>Grad Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>A00012209</td>
<td>Berry_1, Jamie</td>
<td>564321900</td>
<td>19641212</td>
<td>EB8 - L</td>
<td>20060501 - 20060831</td>
<td>20061003</td>
<td></td>
</tr>
<tr>
<td>A00012210</td>
<td>Hayes_2, Lindsey</td>
<td>609876509</td>
<td>19821107</td>
<td>EB7 - H</td>
<td>20060501 - 20060831</td>
<td>20071207</td>
<td></td>
</tr>
<tr>
<td>A00012211</td>
<td>Gerlach_3, Helen</td>
<td>345123987</td>
<td>00000000</td>
<td>EB3 - W</td>
<td>20060701</td>
<td>20081215</td>
<td></td>
</tr>
<tr>
<td>A00012213</td>
<td>Wente_5, Emily</td>
<td>345129834</td>
<td>19860915</td>
<td>EB7 - H</td>
<td>20060501 - 20060831</td>
<td>20091208</td>
<td></td>
</tr>
<tr>
<td>A00012214</td>
<td>Wehner_6, Dom</td>
<td>653098123</td>
<td>19860503</td>
<td>EB3 - W</td>
<td>20060501 - 20060831</td>
<td>20080613</td>
<td></td>
</tr>
<tr>
<td>A00012215</td>
<td>Berry_7, Darbi</td>
<td>541209864</td>
<td>19871009</td>
<td>EB3 - W</td>
<td>20060501 - 20060831</td>
<td>20070607</td>
<td></td>
</tr>
<tr>
<td>A00012216</td>
<td>Davis_8, Erin</td>
<td>451230956</td>
<td>19860825</td>
<td>EB7 - H</td>
<td>20060501 - 20060831</td>
<td>20080513</td>
<td></td>
</tr>
<tr>
<td>A00012217</td>
<td>Riffe_9, Bianca</td>
<td>609126544</td>
<td>19850706</td>
<td>EB8 - L</td>
<td>20060501 - 20060831</td>
<td>20061003</td>
<td></td>
</tr>
<tr>
<td>A00012218</td>
<td>Osburn_10, Jena</td>
<td>890234187</td>
<td>19790706</td>
<td>EB4 - G</td>
<td>20060930</td>
<td>20071212</td>
<td></td>
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<tr>
<td>A00012219</td>
<td>McCarthy_11, Ashley</td>
<td>799877656</td>
<td>19870708</td>
<td>EB7 - H</td>
<td>20060501 - 20060831</td>
<td>20081210</td>
<td></td>
</tr>
<tr>
<td>A00012220</td>
<td>Nemeth_12, Stacey</td>
<td>888666432</td>
<td>19880630</td>
<td>EB7 - H</td>
<td>20060501 - 20060831</td>
<td>20080606</td>
<td></td>
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<tr>
<td>A00012221</td>
<td>Dawson_13, Ashley</td>
<td>887650986</td>
<td>19790504</td>
<td>EB6 - F</td>
<td>20060501 - 20060831</td>
<td>20091216</td>
<td></td>
</tr>
<tr>
<td>A00012222</td>
<td>Hyde_14, Sarah</td>
<td>554321876</td>
<td>19860212</td>
<td>EB7 - H</td>
<td>20060501 - 20060831</td>
<td>20091208</td>
<td></td>
</tr>
<tr>
<td>A00012223</td>
<td>Viccaro_15, Victoria</td>
<td>443219871</td>
<td>19840915</td>
<td>EB1 - D</td>
<td>20060915</td>
<td>20071206</td>
<td></td>
</tr>
</tbody>
</table>
**REPORT CONTROL INFORMATION - SFRNSLC - Release 7.3.1**

TERM: 200635
STUDENT EXCLUDE ATTRIBUTES: None entered.
REPORT FLAG: Y
REPORT DATE: 03-OCT-2006
ADDRESS HIERARCHY: IMA 2PR
RUN MODE: 2
CODE FOR GRAD LEVEL:
APPLICATION CODE: STUDENT
SELECTION IDENTIFIER: NSC_PAM1
CREATOR ID: SYSTEST22
USER ID: SYSTEST22
BRANCH: 00
EFFECTIVE WITHDRAWAL DATE: Y
CREATE SUMMARY REPORT: Y
RECORD COUNT: 14
Please see .txt file for NSC flat file.
This sample shows a portion of the EDI TS 190 extract file that is produced when the EDI TS 190 output is selected, Run Mode 2. There are no gaps (page breaks) in the actual extract file. The EDI Smart TS 190 extract file is a subset of the EDI TS 190 extract file and can be produced using Run Mode 3.
Section 1 - National Student Clearinghouse
Sample Reports

N3|S01 Rosa Street
N4|North Adams|MA|01247
ENT|02|MB|DS|STXML00||U2|Summer 2006 (PB)
SE|11|000000004
ST|190|000000005
BGN|11|000000005|061003|1050|ES
ENR|EB3|UNI|NY|O8|20061003
DTP|382|R8|20060501-20060831
DTP|007|DB|20060917
ENT|01|S2|34|653098123
IN2|02|Dom
IN2|05|Wehner_6
DMG|DB|19860503
N3|678 Norwood Street
N4|Maltix|CA|123456789
ENT|02|MB|DS|STXML00||U2|Summer 2006 (PB)
SE|12|000000006
ST|190|000000006
BGN|11|000000006|061003|1050|ES
ENR|EB3|UNI|NY|O8|20061003
DTP|382|R8|20060501-20060831
DTP|007|DB|20060701
ENT|01|S2|34|541209864
IN2|02|Darbi
IN2|05|Berry_7
DMG|DB|19871009
N3|675 Norwood Ave
N4|Satellite|FL|12345
ENT|02|MB|DS|STXML00||U2|Summer 2006 (PB)
SE|12|000000006
ST|190|000000006
BGN|11|000000006|061003|1050|ES
ENR|EB7|UNI|NY|O8|20061003
DTP|382|R8|20060501-20060831
DTP|007|DB|20060917
ENT|01|S2|34|451209864
IN2|02|Elin
IN2|05|Davis_8
DMG|DB|1986025
N3|908 Rosada Street
N4|Loundonville|NY|12211
ENT|02|MB|DS|STXML00||U2|Summer 2006 (PB)
SE|11|000000007
ST|190|000000007
BGN|11|000000007|061003|1050|ES
ENR|EB8|UNI|NY|O8|20061003
DTP|382|R8|20060501-20060831
DTP|007|DB|20060917
ENT|01|S2|34|609126544
IN2|02|Bianca
IN2|05|Riffe_9
DMG|DB|19850706
N3|18 Main Street
N4|Wellesley|MA|02181
ENT|02|MB|DS|STXML00||U2|Summer 2006 (PB)
SE|11|000000008
ST|190|000000008

Student Release 7.3.1
Release Guide
October 2006
Confidential
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENT</td>
<td>01 S2 34 554321876</td>
</tr>
<tr>
<td>IN2</td>
<td>02 Sarah</td>
</tr>
<tr>
<td>IN2</td>
<td>05 Hyde_14</td>
</tr>
<tr>
<td>DMG</td>
<td>D8 19860212</td>
</tr>
<tr>
<td>N3</td>
<td>1087 Temple Street</td>
</tr>
<tr>
<td>N4</td>
<td>Lansdale PA 19446</td>
</tr>
<tr>
<td>ENT</td>
<td>02 MBIS 05 SCTXML00</td>
</tr>
<tr>
<td>SE</td>
<td>11 000000013</td>
</tr>
<tr>
<td>ST</td>
<td>190 000000014</td>
</tr>
<tr>
<td>BGN</td>
<td>11 000000014 061003 1050 ES</td>
</tr>
<tr>
<td>ENR</td>
<td>EBI UN</td>
</tr>
<tr>
<td>DTP</td>
<td>382 RDB 20060901-20060931</td>
</tr>
<tr>
<td>DTP</td>
<td>007 DB 20060915</td>
</tr>
<tr>
<td>ENT</td>
<td>01 S2 34 443219871</td>
</tr>
<tr>
<td>IN2</td>
<td>02 Victoria</td>
</tr>
<tr>
<td>IN2</td>
<td>05 Viccaro_15</td>
</tr>
<tr>
<td>DMG</td>
<td>D8 19840916</td>
</tr>
<tr>
<td>N3</td>
<td>7545 Redbridge Rd</td>
</tr>
<tr>
<td>N4</td>
<td>Danvers MA 01923</td>
</tr>
<tr>
<td>ENT</td>
<td>02 MBIS 05 SCTXML00</td>
</tr>
<tr>
<td>SE</td>
<td>12 000000014</td>
</tr>
<tr>
<td>GE</td>
<td>15 000000000</td>
</tr>
<tr>
<td>IEA</td>
<td>1 000000000</td>
</tr>
</tbody>
</table>
NSLDS SSCR Process (SFRSSCR)

Description
This process is used to read and process the NSLDS Student Status Confirmation Report (SSCR) Roster and Error Notification Files. The Roster File is the first file that is received, and should be run in Audit mode, then Create flat file mode. All errors identified in Audit mode must be corrected, and Audit mode may be run as many times as needed, to diagnose and resolve problems with the data. When all data problems have been resolved, no errors will appear under either the Matched Records heading or the New Students Added to SSCR File heading on the report output. Any records listed under the Unmatched Records heading will be reported as unknown to your institution when the process is run in Create flat file mode. The process should be run in Create flat file mode to produce the Submittal File that is returned to NSLDS. The Create flat file mode report should be reviewed for any errors that would cause invalid or missing data to be submitted.

After NSLDS processes the Submittal File, and Error Notification File will be returned. That file should be processed in Error listing mode. The report information will indicate if the Submittal File was accepted without errors, or if errors exist that need correction. If errors exist, both Audit and Create flat file modes should be used to review the data and create an Error Correction File that is submitted to NSLDS.

Two output files are created when the Roster file or Error Notification file is processed in Create flat file mode. The two output files are: 1) the report control information listing, which includes appropriate messages about the data and/or processing of the file, and 2) the data file with updates that would be transmitted back to NSLDS. The name of the report listing will conform to existing standards for job submission processing or command line (host) execution. The name of the data file produced from the Roster file will be sfrsubm.dat (Submittal file), and the name of the data file produced from the Error Notification file will be sfrserrc.dat (Error Correction file), regardless if executed from job submission or the command line. Only a report control information listing is produced when the Roster file is processed in Audit mode, and the Error Notification file is processed in Audit or Error listing mode.

This process uses the Third Party Withdrawal Indicator on STVESTS to report students as withdrawn to the NSLDS. When the indicator is not checked, the process will report the last time status for the student that was calculated by the time status rules. The process also uses the Third Party Report Indicator on STVLEAV to select leave of absence codes for the student. The process will only select leave of absence codes from the general student record to be reported as valid leaves when the indicator is checked.
## Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term Code</td>
<td>Yes</td>
<td>Enter the registration enrollment term for processing.</td>
<td>Term Code Validation Form (STVTERM)</td>
</tr>
<tr>
<td>SSCR File to Process</td>
<td>Yes</td>
<td>Enter the path and file name for the SSCR Roster or Error file to process.</td>
<td>The path and file name entered must not exceed 30 characters. If no</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>extension for the file name is supplied, an extension of .dat is assumed.</td>
</tr>
<tr>
<td>SSCR File Type</td>
<td>Yes</td>
<td>Enter \textit{R} for a Roster File or \textit{E} for an Error Notification</td>
<td>\textit{R} Roster file \textit{E} Error Notification file</td>
</tr>
<tr>
<td></td>
<td></td>
<td>File.</td>
<td>A Audit \textit{A} Audit \textit{C} Create flat file \textit{E} Error listing</td>
</tr>
<tr>
<td>Run Mode</td>
<td>Yes</td>
<td>Enter \textit{A} to create an audit file, \textit{C} to create a flat file,</td>
<td>A Audit \textit{C} Create flat file \textit{E} Error listing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or \textit{E} to create an error listing. Only \textit{A} and \textit{C} are valid run modes for processing a Roster File. If \textit{E} is entered, Audit mode will default. \textit{A}, \textit{C}, and \textit{E} are valid modes for processing an Error Notification File.</td>
<td></td>
</tr>
<tr>
<td>Address Hierarchy</td>
<td>Yes</td>
<td>Enter the address type and hierarchy for reporting permanent address</td>
<td>Address Type Code Validation Form (STVATYP)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>information. For example, 1MA. Multiple values may be entered.</td>
<td></td>
</tr>
<tr>
<td>Aid Year Code(s)</td>
<td>No</td>
<td>Enter the aid year code(s) to select the students with new loans.</td>
<td>Aid Year Inquiry Form (ROIAIDY)</td>
</tr>
</tbody>
</table>
### Level Code for New Students
- **No** Enter the level code(s) to select students with new loans. The default value for this parameter is **%** for all levels.

- **Level Code Validation Form (STVLEVL)**

### College Code for New Students
- **No** Enter the college code(s) to select students with new loans. The default value for this parameter is **%** for all colleges.

- **College Code Validation Form (STVCOLL)**

### Campus Code for New Students
- **No** Enter the campus code(s) to select students with new loans. The default value for this parameter is **%** for all campuses.

- **Campus Code Validation Form (STVCAMP)**

### Match on ID Only
- **No** Enter **Y** to match on ID/SSN only or **N** to match on ID/SSN and last name. The default is **N**.

- **YM a t c h  o n  I D / S S N**
  - **N** Match on ID/SSN and last name

### Effective Withdrawal Date
- **Yes** Enter **Y** to select the effective withdrawal date from the student withdrawal record (SFRWDRL_EFF_WDRL_DATE) if one exists for term, otherwise the date from the enrollment record (SFBETRM_ESTS_DATE) will be used. Enter **N** to select the date from the enrollment record (SFBETRM_ESTS_DATE). The default is **N**.

- **Y Use date from SFRWDRL**
- **N Use date from SFBETRM**

---

*Report Sample—NSLDS SSCR Process (SFRSSCR) — see the following pages*
This sample shows a Roster file processed in Audit Mode.

<table>
<thead>
<tr>
<th>BANNER ID</th>
<th>Last Name</th>
<th>First Name</th>
<th>M</th>
<th>Birth Date</th>
<th>%Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>A00-01-2207 Allen             Danica</td>
<td>L</td>
<td>26-JUL-1985</td>
<td>No Expected Graduation Date on SGASTDN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A00-01-2246 Bartholomew        George</td>
<td>08-AUG-1980</td>
<td>No Expected Graduation Date on SGASTDN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A00-00-0431 Maglioti            Sheila</td>
<td>02-FEB-1982</td>
<td>No Expected Graduation Date on SGASTDN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A00-00-5441 Sanchez              Michael</td>
<td>03-MAR-1983</td>
<td>No Expected Graduation Date on SGASTDN</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SSCR SSN</th>
<th>Last Name</th>
<th>First Name</th>
<th>M</th>
<th>Birth Date</th>
<th>Address</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>238-69-8541 ROBINSON                SETH</td>
<td>J</td>
<td>27-FEB-1979</td>
<td>201 JACKSON RD</td>
<td>MA</td>
<td>01037</td>
<td></td>
</tr>
<tr>
<td>192-83-7467 SMITH                    SKIP</td>
<td>I</td>
<td>20-MAR-1979</td>
<td>4030 NE 56TH ST</td>
<td>VANCOUVER</td>
<td>98661</td>
<td></td>
</tr>
</tbody>
</table>
### Roster File Records with Missing or Invalid Data

<table>
<thead>
<tr>
<th>BANNER ID</th>
<th>Last Name</th>
<th>First Name</th>
<th>M Birth Date</th>
<th>%Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>A00-01-2231</td>
<td>Jackson</td>
<td>Carlos</td>
<td>22-FEB-1986</td>
<td>SSN must be entered on SPAPERS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Time Status on SFAREGS is missing or invalid</td>
</tr>
<tr>
<td>A00-01-2230</td>
<td>Nguyen</td>
<td>Lee</td>
<td>08-AUG-1965</td>
<td>No Expected Graduation Date on SGASTDN</td>
</tr>
<tr>
<td>A00-01-2232</td>
<td>Westfield</td>
<td>Charles</td>
<td>19-DEC-1989</td>
<td>Expected Grad Date on SGASTDN precedes current date</td>
</tr>
</tbody>
</table>

### REPORT CONTROL INFORMATION - SFRSSCR - Release 7.3.1

<table>
<thead>
<tr>
<th>RPTNAME: SFRSSCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>TERM: 200855</td>
</tr>
<tr>
<td>SSCR FILE NAME: /banner/jobsub/sfrsscr.dat</td>
</tr>
<tr>
<td>SSCR FILE TYPE: R</td>
</tr>
<tr>
<td>RUN MODE: A</td>
</tr>
<tr>
<td>ADDRESS HIERARCHY: IMA</td>
</tr>
<tr>
<td>AID YEAR: 0607</td>
</tr>
<tr>
<td>LEVEL CODE FOR NEW STUDENTS:</td>
</tr>
<tr>
<td>COLLEGE CODE FOR NEW STUDENTS:</td>
</tr>
<tr>
<td>CAMPUS CODE FOR NEW STUDENTS:</td>
</tr>
<tr>
<td>MATCH ON ID ONLY: Y</td>
</tr>
<tr>
<td>EFFECTIVE WITHDRAWAL DATE: N</td>
</tr>
</tbody>
</table>

Total Records Processed: 14
- SSCR Matched Records: 9
- SSCR Unmatched Records: 2
- SSCR New Records: 3
This sample shows an Error Notification File processed in Error Listing Mode.

<table>
<thead>
<tr>
<th>Error Notification File</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status of Submittal File for Roster File Date of 30-JAN-2006</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SSCR SSN</th>
<th>Last Name</th>
<th>SSCR Errors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Name</td>
<td>M Birth Date</td>
</tr>
</tbody>
</table>

** *** Submittal File accepted and processed without errors *** **

---

** *** REPORT CONTROL INFORMATION - SFRSSCR - Release 7.3.1 *** **

- **RPTNAME:** SFRSSCR
- **TERM:** 200855
- **SSCR FILE NAME:** /banner/jobsub/sscrerror.dat
- **SSCR FILE TYPE:** E
- **RUN MODE:** E
- **ADDRESS HIERARCHY:** IMA (Entered but not used)
- **AID YEAR:**

**Submittal File Records Processed:** 11
**Submittal File Records Accepted:** 11
**Submittal File Records Rejected:**
This sample shows an Error Notification File processed in Error Listing Mode.

<table>
<thead>
<tr>
<th>SSCR SSN</th>
<th>Last Name</th>
<th>First Name</th>
<th>M Birth Date</th>
<th>%Enroll Status</th>
<th>Enroll Date</th>
<th>Anticipated Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>122-54-3374</td>
<td>SMITH</td>
<td>IRIS</td>
<td>W 26-JUN-1965</td>
<td></td>
<td>01-MAY-2007</td>
<td></td>
</tr>
<tr>
<td>453-32-4450</td>
<td>SMITH</td>
<td>MISTY</td>
<td>E 01-FEB-1984</td>
<td></td>
<td>25-JUN-2006</td>
<td>00000000</td>
</tr>
<tr>
<td>443-32-1113</td>
<td>JONES</td>
<td>MARIN</td>
<td>R 25-MAR-1980</td>
<td></td>
<td>22-MAY-2006</td>
<td>00000000</td>
</tr>
<tr>
<td>765-48-8735</td>
<td>EDWARDS</td>
<td>ANGELA</td>
<td>C 29-JAN-1986</td>
<td></td>
<td>22-OCT-2005</td>
<td>00000000</td>
</tr>
</tbody>
</table>
**REPORT CONTROL INFORMATION - SFRSSCR - Release 7.3.1**

RPTNAME: SFRSSCR
TERM: 200855
SSCR FILE NAME: /banner/jobsub/sscrerror.dat
SSCR FILE TYPE: E
RUN MODE: E
ADDRESS HIERARCHY: IMA (Entered but not used)
AID YEAR: 0607 (Entered but not used)
LEVEL CODE FOR NEW STUDENTS:
COLLEGE CODE FOR NEW STUDENTS:
CAMPUS CODE FOR NEW STUDENTS:
MATCH ON ID ONLY: Y
EFFECTIVE WITHDRAWAL DATE: N

Submittal File Records Processed: 197
Submittal File Records Accepted: 190
Submittal File Records Rejected: 7
Banner 7.0 introduced the first phase (of several) of the Concurrent Curricula enhancements in the Banner Student, Student Self-Service, and Faculty and Advisor Self-Service products. When the overall project is completed, an institution will be able to admit, enroll, and graduate a learner for an unlimited number of programs within the same term or across academic periods defined by the institution or the learner.

This phase of the enhancement addresses some usability issues for the default of curriculum data and the copying of curriculum records, as well as the purging of data created during the non-destructive updates to curriculum records and the archiving of curriculum records.

Functionality has been added to default data into curriculum records and speed data entry. This includes using institutional standards with the defaulted values, as well as user preferences. A new form is also used to create default values to be used when curriculum records are duplicated and then changed. Data that can be defaulted includes the priority number, campus, and other parts of the curriculum record. Forms which use the Curriculum Window and the “mini-blocks” use this new feature. This satisfies RPE #1-DPSYV, RPE #1-FWAZ3, and parts of RPEs #1-FVYPF, #1-K7B5P, and #CMS-RPE13648 for SRAQUIK.

Users now have additional options for changing the curriculum. A new button allows you to copy (duplicate) the curriculum information, rather than only inserting a blank record. In addition, the insert/duplicate (update) functions have been added as a new button to eliminate extra keystrokes. This satisfies #CMS-RPE47731.

The existing purge process was restricted to the purging of data in Recruiting and Admissions and to inactive, non-current records. Curriculum data can now be removed from all modules for all non-current records. Purging the unneeded data will help performance when users are reporting against the curriculum tables. A new form is used to display archived curriculum and field of study data, in order to provide historical data for users, even after the records have been purged from the main curriculum and field of study tables.

A new form is used to record the translation of curriculum status codes during curriculum events. A common example is for a non-destructive update. The curriculum status of CHANGED is added to the field of study with the INACTIVE curriculum activity. The new form is a replacement for the GTVSDAX values that were delivered with Banner Student Release 7.3.
Three RPEs (#1-DPSYV, #1-FWAZ3, and #CMS-RPE47731) are discussed in more detail in the “Concurrent Curricula Phase 5 - Technical” section in the changes to SOQOLIB.

New Forms

Archived Learner Curriculum Query Form (SOIHCUR)

This form is used to query and display archived curriculum (SORHCUR) and field of study (SORHFOS) rows, for all learner module codes (RECRUIT, ADMISSIONS, LEARNER, OUTCOME), for a specified ID. These records can provide historical data for the user, even after they have been purged from the main curriculum and field of study tables by the Learner Curriculum Purge Process (SOPLCPG).

You can select a learner module, term, or key sequence number in the Key Block to define the query, or you may leave these Key Block fields blank to select all archived curriculum records for the ID. When you initially access the form, all archived curriculum records are displayed for the ID in the Key Block with the following sort order.

The sort order separates curriculum records by learner module (STVLMOD) unless a specific module is queried. The modules are sorted in the following order: Recruit, Admissions, Learner, Outcome, and then any user-defined modules in alpha, ascending order.

Key Block

This block is used to define the query for the learner’s archived curriculum information.

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Enter the ID of the learner for which you wish to see archived curriculum information.</td>
</tr>
<tr>
<td>(lookup)</td>
<td>List</td>
</tr>
</tbody>
</table>
Summary

This field allows you to search on archived records in Recruiting, Admissions, General Student, and Academic History for the ID in the key. Select the type of summary you wish to view, and query on the learner. You can then use Exit with Value to bring that record’s curriculum data back into SOIHCUR.

Choices are:

- **Recruit Summary** - Prospect Summary Form (SRASUMI)
- **Applicant Summary** - Admissions Application Summary Form (SAASUMI)
- **Learner Summary** - General Student Summary Form (SGASTDQ)
- **Learner Outcome Summary** - Degree Summary Form (SHADGMQ)

Module

This is the learner module for which you wish to see archived curriculum information.

(lookup) List Learner Module Validation (STVLMOD)

Term

This is the term for which you wish to see the archived curriculum information.

(lookup) List Term Code Validation (STVTERM)

Key Sequence

This is the sequence number for the module record, either recruiting, application, or degree.

Archived Curriculum Block

This block is used to view all archived curriculum records associated with the host recruiting, admissions, learner, or outcome record for the learner. Use the Archived Curriculum tab to access this block.

Record of

This field displays the number of archived curriculum records that exist for the ID based on the data entered in the Key Block, for example **Record 1 of 5**. You can scroll through the records using the Previous Record and Next Record arrow buttons. As you scroll through the records, the data in the Archived Curriculum and Field of Study blocks changes for each record.
<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module</td>
<td>This is the learner module code for the curriculum and field of study.</td>
</tr>
<tr>
<td>Sequence Number</td>
<td>This field specifies the <code>SORLCUR_SEQNO</code> associated with the selected curriculum row.</td>
</tr>
<tr>
<td>Activity</td>
<td>This is the curriculum activity status code.</td>
</tr>
<tr>
<td>Key Sequence</td>
<td>This is the key sequence number of the module record that is associated with the archived curriculum record. This sequence number will be the same as either the recruiting, application, or degree sequence number. If the record is for a learner, the key sequence number will always be 99.</td>
</tr>
<tr>
<td>Term</td>
<td>This is the term code for the module’s curriculum record.</td>
</tr>
<tr>
<td>Catalog Term</td>
<td>This is the catalog term code for the module’s curriculum record.</td>
</tr>
<tr>
<td>Priority</td>
<td>This is the priority number that defines the curriculum rank.</td>
</tr>
<tr>
<td>Program</td>
<td>This is the program for the module’s curriculum record.</td>
</tr>
<tr>
<td>Level</td>
<td>This is the level for the module’s curriculum record.</td>
</tr>
<tr>
<td>Campus</td>
<td>This is the campus for the module’s curriculum record.</td>
</tr>
<tr>
<td>College</td>
<td>This is the college for the module’s curriculum record.</td>
</tr>
<tr>
<td>Degree</td>
<td>This is the degree for the module’s curriculum record.</td>
</tr>
<tr>
<td>Admission Type</td>
<td>This is the admissions type code for the learner curriculum.</td>
</tr>
<tr>
<td>Admission Term</td>
<td>This is the term code for admittance for the learner curriculum.</td>
</tr>
<tr>
<td>Application</td>
<td>Sequence number from the application record from which the curriculum was derived. Display only. This field will not be populated if the learner record was generated from SAAQUIK.</td>
</tr>
<tr>
<td>Matriculated Term</td>
<td>This is the term code for matriculation for the learner curriculum.</td>
</tr>
<tr>
<td><strong>Fields</strong></td>
<td><strong>Descriptions</strong></td>
</tr>
<tr>
<td>--------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Roll Learner</td>
<td>Indicator that displays Y or N to show whether the archived curriculum record has been rolled to a degree (outcome) record.</td>
</tr>
<tr>
<td>Rolled to Outcome</td>
<td>Sequence number from the degree record to which the curriculum was rolled. Display only.</td>
</tr>
<tr>
<td>User ID</td>
<td>This field displays the user ID of the person who created the record.</td>
</tr>
<tr>
<td>Activity Date</td>
<td>This field displays the date the record was created or modified.</td>
</tr>
<tr>
<td>Start Date</td>
<td>Start date of the archived curriculum. (This field is not used at this time.)</td>
</tr>
<tr>
<td>End Date</td>
<td>End date of the archived curriculum. (This field is not used at this time.)</td>
</tr>
<tr>
<td>End Term</td>
<td>Term code for the end of the archived curriculum. (This field is not used at this time.)</td>
</tr>
<tr>
<td>Student Type</td>
<td>Student type code entered specifically for the archived curriculum record.</td>
</tr>
<tr>
<td>Site</td>
<td>Site code entered specifically for the archived curriculum record.</td>
</tr>
<tr>
<td>Rate</td>
<td>Rate code entered specifically for the archived curriculum record.</td>
</tr>
<tr>
<td>Leave of Absence</td>
<td>Leave of Absence code entered specifically for the archived curriculum record.</td>
</tr>
<tr>
<td>From Date</td>
<td>Date from which the leave of absence code entered specifically for the archived curriculum record is in effect.</td>
</tr>
<tr>
<td>To Date</td>
<td>Date to which the leave of absence code entered specifically for the archived curriculum record is in effect.</td>
</tr>
<tr>
<td>Expected Graduation Date</td>
<td>Expected graduation date entered specifically for the archived curriculum record.</td>
</tr>
</tbody>
</table>
Archived Field of Study Window

This window is used to view the archived field of study details for the learner. The window displays certain fields from the archived curriculum record and all archived field of study records. You can only access the Field of Study window from the Curriculum window. Use the Archived Field of Study tab to access this window.

Archived Curriculum Block

This block displays a summary of archived curriculum values. The following fields are displayed in this block.

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Term</td>
<td>Graduation term code entered specifically for the archived curriculum record.</td>
</tr>
<tr>
<td>Graduation Year</td>
<td>Graduation year entered specifically for the archived curriculum record.</td>
</tr>
<tr>
<td>Record of</td>
<td>This field displays the number of archived curriculum records that exist for the ID based on the data entered in the Key Block, for example <strong>Record 1 of 5</strong>. You can scroll through the records using the Previous Record and Next Record arrow buttons. As you scroll through the records, the data in the Curriculum and Field of Study blocks changes for each record.</td>
</tr>
<tr>
<td>Activity</td>
<td>This is the curriculum activity status code.</td>
</tr>
<tr>
<td>Term</td>
<td>This is the term code for the module’s curriculum record.</td>
</tr>
<tr>
<td>Key Seq (Key Sequence)</td>
<td>This is the key sequence number of the module record that is associated with the archived curriculum record. This sequence number will be the same as either the recruiting, application, or degree sequence number. If the record is for a learner, the key sequence number will always be 99.</td>
</tr>
<tr>
<td>Seq Num (Sequence Number)</td>
<td>This field specifies the <strong>SORLCUR_SEQNO</strong> associated with the selected curriculum row.</td>
</tr>
</tbody>
</table>
Fields | Descriptions
---|---
Module | This is the learner module code for the curriculum and field of study.
Priority | This is the priority number that defines the curriculum rank.
Program | This is the program for the module’s curriculum record.
Catalog | This is the catalog term code for the module’s curriculum record.
Level | This is the level for the module’s curriculum record.
Campus | This is the campus for the module’s curriculum record.
College | This is the college for the module’s curriculum record.
Degree | This is the degree for the module’s curriculum record.

Archived Field of Study Block

This block is used to display the archived field of study information. The following fields are in this block.

The Attached Concentrations button is enabled when the cursor is on a field of study record for a major with attached concentrations. Click on the button to display a list of the attached concentrations in a pop-up window. The button is not enabled if the cursor is on a record for a major with no attached concentrations, or if the record is for a minor or a concentration or another field of study type.

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seq Num (Sequence Number)</td>
<td>This field specifies the SORLFOS_SEQNO associated with the selected field of study row.</td>
</tr>
<tr>
<td>Rolled (Indicator)</td>
<td>Indicator that displays Y or N to show whether the archived field of study record has been rolled to a degree (outcome) record.</td>
</tr>
<tr>
<td>Activity</td>
<td>This is the curriculum activity status for the archived field of study.</td>
</tr>
<tr>
<td><strong>Fields</strong></td>
<td><strong>Descriptions</strong></td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Status</td>
<td>This is the curriculum status for the archived field of study.</td>
</tr>
<tr>
<td>Term</td>
<td>This is the term code for the archived field of study.</td>
</tr>
<tr>
<td>Type</td>
<td>This is the type code for the learner field of study. It identifies whether the row is for a <strong>MAJOR</strong>, <strong>MINOR</strong>, or <strong>CONCENTRATION</strong>.</td>
</tr>
<tr>
<td>Priority</td>
<td>This is the priority number that defines the archived field of study rank.</td>
</tr>
<tr>
<td>Catalog</td>
<td>This is the catalog term for the archived field of study.</td>
</tr>
<tr>
<td>End Term</td>
<td>This is the term code for the end term of the archived field of study. (This field is not used at this time.)</td>
</tr>
<tr>
<td>Field of Study</td>
<td>This is the major, minor, or concentration code for the archived field of study.</td>
</tr>
<tr>
<td>Department</td>
<td>This is the department code for the archived field of study.</td>
</tr>
<tr>
<td>Attached to Major</td>
<td>This is the major code associated with an attached concentration for an archived field of study row.</td>
</tr>
<tr>
<td>Full or Part Time</td>
<td>This is the time status code for the field of study.</td>
</tr>
<tr>
<td>Start Date</td>
<td>This is the start date for the archived field of study. (This field is not used at this time.)</td>
</tr>
<tr>
<td>End Date</td>
<td>This is the end date for the archived field of study. (This field is not used at this time.)</td>
</tr>
<tr>
<td>User ID</td>
<td>ID of the user who last updated the record. Display only.</td>
</tr>
<tr>
<td>Activity Date</td>
<td>Date on which the record was last updated. Display only.</td>
</tr>
</tbody>
</table>
Curriculum User Default Form (SORLCDF)

This form is used to create default values used for the key curriculum and field of study fields when new curriculum and field of study (major) records are inserted. This occurs when no records exist, an Insert Record function is performed, or a Next Record is performed that inserts a new record.

The default values are defined for the user and the learner module, and are maintained in the SORLCDF table and on the SORLCDF form. These values include: user ID, learner module code, campus code, college code, level code, program, degree code, major code, and department code. The User ID value defaults to the ID of the person currently using the form. Data queried is displayed for that person. Multiple records may be inserted, one for each learner module code (STVLMOD).

On all the data entry forms where curriculum records are entered (SRAQUIK, SRARECR, SAAQUIK, SAAADMS, SGASTDN, SFAREGS, and SHADEGR), there is always an attempt made by the system to default values into all the curriculum fields based on the program rule in SMAPRLE. When the user default value rules for the Admissions, Recruiting, General Student, and Academic History modules are set up on their corresponding data entry forms, these rules may or may not override the default program rule on SMAPRLE.

Values defined on SAAQKER that are used on SAAQUIK, and values in the Default Value window on SRAQUIK will take precedence over these values. The user-defined default values will take precedence over defaulted values on the recruiting record on SRARECR when the level value equals to 00, the degree value equals to 000000, the college value equals to 00, and the primary major and department values equal 0000.

SORLCDF has been designed to assist with the default of curriculum data that was typically NULL when program information was entered in the curriculum data entry forms. For example, if an existing program of BA-HISTORY is entered on SRARECR, the curriculum values for program, degree, and campus may be defaulted in based on the BA-HISTORY rule on SMAPRLE. If rules exist on SORLCDF for RECRUIT that include a level, major, and/or department (the NULL values for the BA-HISTORY rule), those values will be defaulted in and complete the curriculum information.
Another example would be, if you have an existing program of BA-HISTORY, rules exist on SORLCDF for RECRUIT, and the values on SORLCDF do not correspond with the BA-HISTORY rule on SMAPRLE, the entry of the BA-HISTORY program on the data entry forms will still cause the system to attempt to default values in from the SMAPRLE rules and override the default values on SORLCDF. The system always attempts to meet the SMAPRLE rule before using the SORLCDF rule.

**Note:** There is no curriculum program validation from SMAPRLE for SORLCDF when data elements are entered, except to ensure that the program is valid on SMAPRLE.

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>User ID</td>
<td>ID of the person who last updated the record. Display only.</td>
</tr>
</tbody>
</table>
| Learner Module | Learner module code used for the default curriculum values.  
(lookup) List Learner Module Validation (STVLMOD) |
| Program      | Program code used for the default curriculum values.  
(lookup) List All Program Codes (SMAPRLE) |
| Level        | Level code used for the default curriculum values.  
(lookup) List Level Code Validation (STVLEVL) |
| Campus       | Campus code used for the default curriculum values.  
(lookup) Campus Code Validation (STVCAMP) |
| Degree       | Degree code used for the default curriculum values.  
(lookup) Degree Code Validation (STVDEGC) |
| College      | College code used for the default curriculum values.  
(lookup) College Validation (STVCOLL) |
| Major        | Major field of study code used for the default curriculum values.  
(lookup) All Major Codes (STVMAJR) |
Curriculum Event Status Rules Form (SORCSTS)

This form is used to record the translation of curriculum status codes during curriculum events. A common example is for a non-destructive update. The curriculum status of CHANGED is added to the field of study with the INACTIVE curriculum activity.

Records that are designated as system required cannot be deleted. You can change the curriculum status code for the translation.

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Status</td>
<td>Curriculum status code and description.</td>
</tr>
<tr>
<td>(lookup)</td>
<td>List Curriculum Status (STVCSTS)</td>
</tr>
<tr>
<td>Translation</td>
<td>Translated curriculum status code and description.</td>
</tr>
<tr>
<td>(lookup)</td>
<td>List Curriculum Status (STVCSTS)</td>
</tr>
<tr>
<td>System Required</td>
<td>Checkbox used to specify whether this value is required by the system. If this checkbox is checked, the validation table record cannot be deleted. Once this checkbox is checked, it cannot be unchecked.</td>
</tr>
<tr>
<td>Indicator</td>
<td>User ID</td>
</tr>
<tr>
<td>Activity Date</td>
<td>Date on which the record was last updated. Display only.</td>
</tr>
</tbody>
</table>
Changed Forms

Changed Curriculum Window (SRARECR, SAAADMS, SGASTDN, SFAREGS, and SHADEGR)

The Curriculum Window which appears on SRARECR, SAAADMS, SGASTDN, SFAREGS, and SHADEGR has been modified for this enhancement.

The Change Curriculum button has been renamed. It is now named the Replace button. This button is used to copy the curriculum record and set the curriculum activity status to INACTIVE and the curriculum status to CHANGED. It then inserts a new blank curriculum record. If user defaults have been set up on SORLCDF, those values will fill in the appropriate fields. (This button is not used on SOILCUR.)

New Update and Duplicate buttons have been added.

- The Update button is used to perform the non-destructive update and copy the curriculum record in question. This allows the user to make changes without re-entering all of the data, as the record is populated with the current record values. (This button is not used on SOILCUR.)

- The Duplicate button is used to copy the curriculum record (with the field of study) and sets the curriculum activity status to INACTIVE and the curriculum status to CHANGED. It then inserts and duplicates the new curriculum record. The duplicated record is now ready for the user to make the needed changes. (This button is not used on SOILCUR.)

This function does not consider the curriculum user defaults in the duplication process. If the user uses the Insert function and then the Duplicate Key function, the curriculum user defaults will fill the newly inserted record before the record duplication occurs.

The SORLCUR block has been updated to populate the priority from SOACTRL and the curriculum columns from SORLCDF. The SORLFOS block has been updated to populate the priority from SOACTRL and the major and department from SORLCDF. The (Field of Study) Type field has been moved, so it is entered before the Priority field. The field of study type may determine the priority value of the new field of study. The priority is incremented by the value on SOACTRL for each field of study type.
More buttons in the Curriculum Window

<table>
<thead>
<tr>
<th>Mouse</th>
<th>Keyboard</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace</td>
<td>N/A</td>
<td>Inactivates selected row, inserts new row for new curriculum record</td>
</tr>
<tr>
<td>Update</td>
<td>N/A</td>
<td>Copies, duplicates curriculum record so user can update without re-entering data</td>
</tr>
<tr>
<td>Duplicate</td>
<td>N/A</td>
<td>Copies record, inserts, duplicates new record without using user curriculum defaults</td>
</tr>
</tbody>
</table>

Changed Field of Study Window (SRARECR, SAAADMS, SGASTDN, SFAREGS, and SHADEGR)

The Field of Study Window which appears on SRARECR, SAAADMS, SGASTDN, SFAREGS, and SHADEGR has been modified for this enhancement.

The Attached to Major button has been renamed the Attached Concentrations button.

The Inactivate button has been moved to the top of the Field of Study block, and duplicate occurrences of the button have been removed.

The SORLCUR block has been updated to populate the priority from SOACTRL and the curriculum columns from SORLCDF. The SORLFOS block has been updated to populate the priority from SOACTRL and the major and department from SORLCDF. The (Field of Study) Type field has been moved, so it is entered before the Priority field. The field of study type may determine the priority value of the new field of study. The priority is incremented by the value on SOACTRL for each field of study type.

Curriculum Rules Control Form (SOACTRL)

A new Institutional Defaults window has been added to the form. This window is accessed using the Institutional Defaults tab. This window contains default priority setup and default curriculum status information.

- The default values for the priority are defined at the institution level and include the initial priority number and the incremented priority value for any new record that is added.
- The default values for the curriculum status are also defined at the institution level and include the default active status and the default inactive status for any new record that is added.
Crosswalk Validation Form (GTVSDAX)

The CURRSTATUS rule has been removed from the form. This rule has been replaced by the new required values stored in the SORCSTS table. The required values on SORCSTS are as follows.

<table>
<thead>
<tr>
<th>Curriculum Status Code</th>
<th>Description</th>
<th>System Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMITREPLACE</td>
<td>Application replaces learner</td>
<td>Y</td>
</tr>
<tr>
<td>APPACCEPT</td>
<td>Application acceptance</td>
<td>Y</td>
</tr>
<tr>
<td>APPLIED</td>
<td>Application Exists and Applied</td>
<td>Y</td>
</tr>
<tr>
<td>AWARDED</td>
<td>Outcome Awarded</td>
<td>Y</td>
</tr>
<tr>
<td>CHANGED</td>
<td>Changed</td>
<td>Y</td>
</tr>
<tr>
<td>DENIED</td>
<td>Application has been rejected</td>
<td>Y</td>
</tr>
<tr>
<td>INPROGRESS</td>
<td>In Progress</td>
<td>Y</td>
</tr>
<tr>
<td>INSTACCEPT</td>
<td>Institution acceptance</td>
<td>Y</td>
</tr>
</tbody>
</table>
### Changed Menus

Three forms have been added to the Curriculum Rules and Control Menu (*CURRIC).

- Archived Learner Curriculum Query Form (SOIHCUR)
- Curriculum User Default Form (SORLCDF)
- Curriculum Event Status Rules Form (SORCSTS)

### Changed Reports and Processes

#### Rating Audit Report (SARDCBT)

This report has been modified for this enhancement to consider concurrent curricula data. The references to the curriculum columns in the SARADAP table have been removed and replaced with references to the curriculum columns in the SOVLCUR and SOVLFOS views.

The Primary College column has been added to the output.

#### AMCAS Date Purge (SARAMDP)

This report has been modified for this enhancement to consider concurrent curricula data. The references to the curriculum columns in the SARADAP table have been removed and replaced with references to the curriculum columns in the SOVLCUR and SOVLFOS views.

<table>
<thead>
<tr>
<th>Curriculum Status Code</th>
<th>Description</th>
<th>System Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOPUSH</td>
<td>Self-Service No Push to Learner</td>
<td>Y</td>
</tr>
<tr>
<td>OVERLOAD</td>
<td>Count exceeded</td>
<td>Y</td>
</tr>
<tr>
<td>PENDING</td>
<td>Pending</td>
<td>Y</td>
</tr>
<tr>
<td>REMOVED</td>
<td>Inactivate field of study</td>
<td>Y</td>
</tr>
<tr>
<td>SOUGHT</td>
<td>Degree has sought status</td>
<td>Y</td>
</tr>
</tbody>
</table>
AMCAS Extract File (SARAMXF)

This report has been modified for this enhancement to consider concurrent curricula data. The references to the curriculum columns in the SARADAP table have been removed and replaced with references to the curriculum columns in the SOVLCUR and SOVLFOS views.

The SAVAMC2 view, which is used by SARAMXF, has been modified to use the same processing.

Learner Curriculum Purge Process (SOPLCPG)

This process has been modified for this enhancement to allow purging of all learner module types and to archive purged curriculum.

A new parameter has been added. The Archive History parameter is optional. It is used to write all purged data to the history tables for archiving. Valid values are Y or N. Y is the default.

The Learner Module parameter has been updated to remove curriculum records in all modules. You can now enter values from STVLMOD for ADMISSIONS and RECRUIT, as well as LEARNER and OUTCOME.

The Key Sequence data is now displayed on the report output. This data is used with the Outcome (Academic History) records.

The process has been updated to remove all curriculum records that are non-current. Logic has been added in SOVLCUR to verify when the LEARNER curriculum record that is targeted to be purged is non-current for the processing term and is current in a different term. In this case, the record will not be purged.

Report Samples

Rating Audit Report (SARDCBT)

Please see the following landscaped section for report parameters and sample output.

Learner Curriculum Purge Process (SOPLCPG)

Please see the following landscaped section for report parameters and sample output.
### Rating Audit Report (SARDCBT)

**Description**

This process is used to view applications that have been updated on the Admissions Decision and Rating Batch Entry Form (SAADCBT) for a specific date or dates.

**Parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term Code</td>
<td>No</td>
<td>Enter the term of the applications that have been given ratings or decisions that you would like to review.</td>
<td>Term Code Validation Form (STVTERM)</td>
</tr>
<tr>
<td>Decision Date From</td>
<td>No</td>
<td>Enter the decision date (beginning of range) from which you wish to see records with updated decision codes.</td>
<td></td>
</tr>
<tr>
<td>Decision Date To</td>
<td>No</td>
<td>Enter the decision date (end of range) by which you wish to see records with updated decision codes.</td>
<td></td>
</tr>
<tr>
<td>Decision Code</td>
<td>No</td>
<td>Enter the decision code for applications which have been updated on the Admissions Decision and Rating Batch Entry Form (SAADCBT).</td>
<td>Admission Application Decision Code Validation Form (STVAPDC)</td>
</tr>
<tr>
<td>Level Code</td>
<td>No</td>
<td>Enter the level code for applications which have been updated on Admissions Decision and Rating Batch Entry Form (SAADCBT).</td>
<td>Level Code Validation Form (STVLEVL)</td>
</tr>
<tr>
<td>Parameters (cont.)</td>
<td>Name</td>
<td>Required?</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------</td>
<td>-----------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Campus Code</td>
<td>No</td>
<td></td>
<td>Enter the campus code for applications which have been updated on Admissions Decision and Rating Batch Entry Form (SAADCBT).</td>
</tr>
<tr>
<td>Degree Code</td>
<td>No</td>
<td></td>
<td>Enter the degree code for applications which have been updated on Admissions Decision and Rating Batch Entry Form (SAADCBT).</td>
</tr>
<tr>
<td>Program Code</td>
<td>No</td>
<td></td>
<td>Enter the program code for applications which have been updated on Admissions Decision and Rating Batch Entry Form (SAADCBT).</td>
</tr>
<tr>
<td>Major Code</td>
<td>No</td>
<td></td>
<td>Enter the major code for applications which have been updated on Admissions Decision and Rating Batch Entry Form (SAADCBT).</td>
</tr>
</tbody>
</table>

Report Sample—Rating Audit Report (SARDCBT) — see the following pages
<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>High School</th>
<th>Term Code</th>
<th>Appl No</th>
<th>Appl Type</th>
<th>Primary College</th>
<th>Level</th>
<th>Campus</th>
<th>Degree</th>
<th>Major</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>A00020559</td>
<td>Westfield , Scott Alexander</td>
<td>200510</td>
<td>4</td>
<td>ST</td>
<td>AS</td>
<td>UG ROY BA ECON</td>
<td>BA-ECON</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Subtotal for 02 : 1</td>
</tr>
</tbody>
</table>

Decision Code: 02 -- Department Approval

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>High School</th>
<th>Term Code</th>
<th>Appl No</th>
<th>Appl Type</th>
<th>Primary College</th>
<th>Level</th>
<th>Campus</th>
<th>Degree</th>
<th>Major</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>A00031679</td>
<td>Coleman , Natalie</td>
<td>200510</td>
<td>2</td>
<td>ST</td>
<td>AS</td>
<td>UG M BA ART DMF_ART_MAIN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
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<td>Subtotal for 04 : 1</td>
</tr>
</tbody>
</table>
### Decision Code: 25 -- Institution Acceptance

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>High School</th>
<th>Term Code</th>
<th>Appl No</th>
<th>Appl Type</th>
<th>Primary College</th>
<th>Level</th>
<th>Campus</th>
<th>Degree</th>
<th>Major</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>A00031679</td>
<td>Coleman , Natalie</td>
<td>200510</td>
<td>1</td>
<td>ST</td>
<td>AS</td>
<td>UG</td>
<td>BA</td>
<td>ACCT</td>
<td>BA</td>
<td>DMF</td>
<td></td>
</tr>
<tr>
<td>A00033718</td>
<td>Coombs , Sarah</td>
<td>200510</td>
<td>1</td>
<td>ST</td>
<td>AS</td>
<td>UG</td>
<td>BA</td>
<td>ARCH</td>
<td>BA</td>
<td>DMF</td>
<td></td>
</tr>
<tr>
<td>A00031688</td>
<td>Lancome , Paris</td>
<td>200510</td>
<td>1</td>
<td>ST</td>
<td>EN</td>
<td>UG</td>
<td>BS</td>
<td>BIO2</td>
<td>DMF</td>
<td></td>
<td></td>
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</tbody>
</table>

Subtotal for 25 : 3

### Decision Code: 35 -- Applicant Acceptance

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>High School</th>
<th>Term Code</th>
<th>Appl No</th>
<th>Appl Type</th>
<th>Primary College</th>
<th>Level</th>
<th>Campus</th>
<th>Degree</th>
<th>Major</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>180600010</td>
<td>Artz , Sherry</td>
<td>200510</td>
<td>1</td>
<td>ST</td>
<td>AS</td>
<td>UG</td>
<td>BA</td>
<td>AERO</td>
<td>MAG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A00031679</td>
<td>Coleman , Natalie</td>
<td>200510</td>
<td>2</td>
<td>ST</td>
<td>AS</td>
<td>UG</td>
<td>M</td>
<td>BA</td>
<td>ART</td>
<td>DMF</td>
<td>ART_MAIN</td>
</tr>
<tr>
<td>A00033723</td>
<td>Curie , Marie</td>
<td>200510</td>
<td>2</td>
<td>ST</td>
<td>AS</td>
<td>UG</td>
<td>BA</td>
<td>AMIX</td>
<td>BA</td>
<td>DMF</td>
<td></td>
</tr>
<tr>
<td>180600032</td>
<td>Downey , Jim</td>
<td>200510</td>
<td>2</td>
<td>ST</td>
<td>HK</td>
<td>UG</td>
<td>LPG</td>
<td>BS</td>
<td>FIN</td>
<td>VAT</td>
<td></td>
</tr>
</tbody>
</table>

Subtotal for 35 : 4
**REPORT CONTROL INFORMATION**

- **Report Name**: SARDCBT
- **Current Release**: 7.3.1
- **Date of Report**: 23-AUG-2006 10:07:07
- **Term Code**: 200510
- **Decision Date From**: 01-MAY-2004
- **Decision Date To**: 01-MAY-2006
- **Decision Code**:
- **Level Code**: 
- **Campus Code**: 
- **Degree Code**: 
- **Program**: 
- **Major Code**: 
- **Total Decisions**: 9
Learner Curriculum Purge Process (SOPLCPG)

Description
This process is used to purge SORLCUR rows and/or SORLFOS rows for curriculum records from Recruiting, Admissions, General Student (Learner), and Academic History (Outcome). This process calls the sb_curriculum.p_delete API which in turn calls the sb_fieldofstudy.p_delete API to delete all selected curriculum and fields of study records. This process is run for an ID or a population selection, by term and/or learner module, and can be run in update or audit mode.

Since users may not want to maintain inactive and non-current curriculum records on a student, they can use SOPLCPG to purge inactive and non-current student curricula. This process deletes an SORLCUR row and its associated SORLFOS row(s). Non-current curriculum rows are defined as rows that have a value of N in the Current field in the Curriculum or Field of Study blocks. The value that populates the field is located in the SOVLCUR_CURRENT_IND and SOVLFOS_CURRENT_IND view fields.

The SOPLCPG process ensures that if a curriculum record (SORLCUR) is removed, all related field of study rows (SORLFOS) are also removed. This process only purges curriculum rows that are non-current. Field of study rows are only purged in association with their respective curriculum record. Therefore, if a curriculum record is current and has an associated SORLFOS row that is non-current and inactive, the SORLFOS row will not be purged. Also, when a LEARNER curriculum record that is targeted to be purged is non-current for the processing term and is current in a different term, it will not be purged.

The process can be used to archive curriculum records to curriculum and field of study history tables (SORHCUR and SORHFOS). This provides historical data for reference, even after the records have been purged from the main curriculum and field of study tables.
### Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learner Module</td>
<td>No</td>
<td>Enter the student learner module code for the conversion process.</td>
<td>Learner Module Validation Form (STVLMOD)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The valid values for this parameter are ADMISSIONS, RECRUIT, LEARNER, and OUTCOME. If this parameter is left blank, all curriculum (SORLCUR) and field of study (SORLFOS) records for these modules are examined for the population selection and/or individual IDs (SPRIDEN).</td>
<td></td>
</tr>
<tr>
<td>Term</td>
<td>No</td>
<td>Enter the term code for which records are to be processed.</td>
<td>Term Code Validation Form (STVTERM)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If this parameter is left blank, the report will use the highest SGBSTDN record for the Learner module to determine which curriculum record is current.</td>
<td></td>
</tr>
<tr>
<td>Learner ID</td>
<td>No</td>
<td>Enter the ID or IDs for the student(s) to be processed.</td>
<td></td>
</tr>
</tbody>
</table>
### Parameters (cont.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Code</td>
<td>No</td>
<td>Enter the code that identifies the general area for which the selection identifier was defined. All or none of the population selection parameters must be entered.</td>
<td>Application Inquiry Form (GLIAPPL)</td>
</tr>
<tr>
<td>Selection Identifier</td>
<td>No</td>
<td>Enter the code that identifies the population with which you wish to work. The selection identifier must be defined on the Population Selection Definition Rules Form (GLRSLCT). All or none of the population selection parameters must be entered.</td>
<td>Population Selection Inquiry Form (GLISLCT)</td>
</tr>
<tr>
<td>Creator ID</td>
<td>No</td>
<td>Enter the user ID of the person who created the population rules. All or none of the population selection parameters must be entered.</td>
<td></td>
</tr>
<tr>
<td>User ID</td>
<td>No</td>
<td>Enter the user ID for the population selection. This is the ID of the user who selected the population of people. This may or may not be the same as the Creator ID. All or none of the population selection parameters must be entered.</td>
<td></td>
</tr>
</tbody>
</table>
Report Sample—Learner Curriculum Purge Process (SOPLCPG) — see the following pages
<table>
<thead>
<tr>
<th>ID</th>
<th>NAME / MODULE</th>
<th>LEVEL / DEGREE / PROGRAM / TYPE</th>
<th>COLLEGE / CAMP / CACT / CSTS</th>
<th>TERM</th>
<th>SEQ</th>
<th>PRI</th>
<th>USER ID</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A00053919</td>
<td>Andrews, Paul D</td>
<td>ADMISSIONS 200443 ARTS MAJOR</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CE/CERT CE-ART CE/ ART INSTACCE</td>
<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>MHOCKETT</td>
<td>13-SEP-2006</td>
</tr>
<tr>
<td></td>
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<td>MHOCKETT</td>
<td>13-SEP-2006</td>
</tr>
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<td>MHOCKETT</td>
<td>13-SEP-2006</td>
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<td>MHOCKETT</td>
<td>13-SEP-2006</td>
</tr>
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<td></td>
</tr>
</tbody>
</table>
### Report Control Information

Parameters were entered via Job Submission.

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter Seq No:</td>
<td>129242</td>
</tr>
<tr>
<td>Number Learners Selected:</td>
<td>1</td>
</tr>
<tr>
<td>Number Curriculum Deleted:</td>
<td>7</td>
</tr>
<tr>
<td>Number Field of Study Deleted:</td>
<td>7</td>
</tr>
<tr>
<td>Module:</td>
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<tr>
<td>Term Code:</td>
<td></td>
</tr>
<tr>
<td>ID:</td>
<td>A00053919</td>
</tr>
<tr>
<td>Application Code:</td>
<td></td>
</tr>
<tr>
<td>Selection Identifier:</td>
<td></td>
</tr>
<tr>
<td>Creator ID:</td>
<td></td>
</tr>
<tr>
<td>User Id:</td>
<td></td>
</tr>
<tr>
<td>Run Mode (Audit or Update):</td>
<td>A</td>
</tr>
<tr>
<td>Detail Report:</td>
<td>D</td>
</tr>
<tr>
<td>Archive History:</td>
<td>Y</td>
</tr>
</tbody>
</table>
This page intentionally left blank
This enhancement provides updates to the electronic transfer of transcript data using XML formatted files with PESC standards.

SHRPESE can now be run using SFTP or an alternate transmission protocol. Users are not limited to only FTP processing. Also, XML files produced by SHRPESE and SHRPESI can be transformed into alternate forms of output using a new XSLT engine. This provides readable/formatted versions of the input or output files, such as HTML. XML transcript processing has been updated to support the Concurrent Curricula methodology.

Producing XML transcripts uses the Postsecondary Electronic Standards Council (PESC) XML Postsecondary Transcript standards. For more information about the PESC/XML transcript, please visit this Website: http://www.pesc.org/info/approved-standards.asp.

The following RPEs are delivered with this enhancement: #1-M70V8, #1-M70V1.

The following problem resolutions are delivered with this enhancement: #1-GT0E0, #1-H6VLN, #1-KTPYD, #1-MDM6P, #1-LUV9K, #1-GJLDB. Please refer to the “Problem Resolutions” section of the release guide for more information on these updates.

### Processing

#### Using an Alternate Transmission Protocol

Use the following steps to set up an alternate transmission protocol.

1. Extract the `send.properties` files from the `shrpese.jar` file.
   
   ```bash
   jar -xvf shrpese.jar send.properties
   ```
   
   Please refer to the sample `send.properties` file at the end of this topic for more information.
2. Set the two control settings in this file:

send.UseSFTP=N

send.Command=sh /export/home/xmluser/sftp.shl

(a) The send.UseSFTP variable is the "switch" that will determine whether to use the embedded, regular FTP transmission protocol within the shrpese.jar process (general/transporter.jar) or to use an "alternate" method of transmission protocol.

This flag is delivered with a default value of N (No), meaning by default, the extract process will use the embedded, standard FTP process.

When the send.UseSFTP variable is set to Y (Yes), this indicates that your institution wants to use a transmission protocol other than the delivered FTP methodology.

(b) The process will then use the second variable, send.Command, to run the transmission protocol of your choice. The send.Command variable represents the operating system path and file that will be used execute the transmission protocol of your choice.

3. Once the send.properties file is updated with the desired settings, save the file.

4. Update the shrpese.jar process with the newly updated file and settings.

Jar -uvf shrpese.jar send.properties

When the shrpese.jar (XML transcript export) process is run and reaches the point of transferring a file, it reads the send.properties file to determine which course of action to take. If the send.UseSFTP variable is set to Y, the process will "break out" from the shrpese.jar process and issue an operating system command.

The exact command that the shrpese.jar process issues is as follows:

sendCommand + " " + pgpFileName + " "
+ ThisJobNumber + " "
+ fileOutPath + " "
+ hostName + " "
+ userName + " "
+ passWord + " "
+ RemoteDirectory;

The sendCommand value is equal to the send.Command value in the send.properties file that was updated.
In this example, the exact values would be:

```
sh /export/home/xmluser/sftp.shl + pgpFileName + " "
   + ThisJobNumber + " "
   + fileOutPath + " "
   + hostName + " "
   + userName + " "
   + passWord + " "
   + RemoteDirectory;
```

The parameters descriptions are as follows:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sendCommand</td>
<td>Value in send.properties file send.Command variable</td>
</tr>
<tr>
<td>pgpFileName</td>
<td>XML/PGP file being sent via (S)FTP</td>
</tr>
<tr>
<td>ThisJobNumber</td>
<td>Job submission oneup number</td>
</tr>
<tr>
<td>fileOutPath</td>
<td>Path that maps where the <em>.lis files are written; the shell file can write the ftp_oneup.log file to same output directory as theshrpese.lis/log, pescxml</em>.xml files, etc.</td>
</tr>
<tr>
<td>hostname</td>
<td>Hostname from SOASBG/SHACTRL</td>
</tr>
<tr>
<td>username</td>
<td>Username from SOASBG/SHACTRL</td>
</tr>
<tr>
<td>password</td>
<td>Password from SOASBG/SHACTRL</td>
</tr>
<tr>
<td>RemoteDirectory</td>
<td>Remote Directory from SOASBG/SHACTRL</td>
</tr>
</tbody>
</table>

Please see the attached sample files for examples of a send.properties file and an sftp.shl batch file that could used for the secure file transfer protocol method when transmitting the XML transcript files.

Sample send.properties File

```
<snip>
# send.properties
#
# AUDIT TRAIL: 7.3.1  
# 24JUL2006
# 1. Initial Release
#```

# AUDIT TRAIL END
#
# SunGard Higher Education
# Banner Student 7.3.1
#
# Properties file to define sftp file transfer properties
# for use with XML transcript.
#
# P1 :  File name to transfer.
# P2 :  Job Submission one up number.
# P3 :  File path to write log file.
# P4 :  Hostname associated with the transcript request.
# P5 :  Username, if specified in Banner for the host name.
# P6 :  Password, if specified in Banner for the host name.
# P7 :  Remote Directory.
#
# send.Command="perl /export/home/xmluser/ftp_transcript.pl"
# send.Command="run /export/home/xmluser/ftp_transcript.com"
#
# Do not use single or double quotes around parameter set.
# Put path to script in parameter as well.
#
send.UseSFTP=N
send.Command=sh /export/home/xmluser/ftp.shl
#
#
Sample sftp.shl File

#!/bin/sh

#!
# sftp.shl
#
# AUDIT TRAIL: 7.3.1 LM 20JUL2006
# Initial Delivery of example script to sftp XML transcripts.
#
# AUDIT TRAIL END
#
# P1 : File name to transfer.
# P2 : Job Submission one up number.
# P3 : File path to write log file.
# P4 : Hostname associated with the transcript request.
# P5 : Username, if specified in Banner for the host name.
# P6 : Password, if specified in Banner for the host name.
# P7 : Remote Directory.
#
# echo 'filename : ' $1
# echo 'jobnumber : ' $2
# echo 'fileoutpath : ' $3
# echo 'hostname : ' $4
# echo 'username : ' $5
# echo 'password : ' $6
# echo 'remotedir : ' $7
#
# if [ $# -lt 5 ] || [ $# -gt 7 ]
then
    echo "Process requires arguments"
    echo "format sh sftp_transcript.shl filename fileoutpath jobnumber \"
    hostname username password remotedirectory ".
else
    #
# Running sftp with -b(atchfile) switch requires an input file to
# read parameters from for processing: Create temporary input file.
#
# Remove any existing input file.
#
/bin/rm sftp.in

# If parameter #7 (remote directory), act accordingly.
#
if [ "$7" != "" ]
then
  echo 'cd' $7 > sftp.in
  echo 'put' $1 >> sftp.in
  echo 'quit' >> sftp.in
else
  echo 'put' $1 > sftp.in
  echo 'quit' >> sftp.in
fi

# Now that we have the input file created, run process with
# parameters.
#
sftp -v -b sftp.in $5@$4 > $2/sftp_$3.log 2>&1

# Clean up existing input file.
#
# /bin/rm sftp.in
#
fi

exit 0

<snip>
Creating Readable Output From the *.xml File

Use the following steps to create readable output from the XML file.

Performing XSLT Transformation

1. Extract the xslt.properties files from the shrpese.jar and shrpesi.jar files.

   ```shell
   jar -xvf shrpese.jar xslt.properties
   jar -xvf shrpesi.jar xslt.properties
   ```

2. Please refer to the sample xslt.properties file at the end of this topic.

3. Set the four control settings in this file:
   ```
   xslt.Transform=Y
   xslt.UseInternalXSLT=Y
   xslt.XSLFileName=bwcktran.xsl
   xslt.Command=sh /export/home/xmluser/input/xalan.shl
   ```

   (a) The xslt.Transform variable is the overall indicator that determines if XSLT transformation is performed, so the XML data file is transformed into an alternate, readable, form.

   If the xslt.Transform variable is set to N, no transformation will take place.

   If the xslt.Transform variable is set to Y, then the transformation will take place, but the method of transformation is determined by the second variable, xslt.UseInternalXSLT.

   (b) The xslt.UseInternalXSLT variable determines if the internal transformation process (PESCSXMLTransformer.java) or an external transformation process is used to perform the transformation of the XML data file into another readable form of output.

   If xslt.UseInternalXSLT variable is set to Y, then the shrpese.jar and shrpesi.jar files will use the internal XSLT engine (PESCSXMLTransformer.java) to transform the XML data file into an HTML formatted output file. This method is only available to produce HTML formatted output.

   If xslt.UseInternalXSLT variable is set to N, then the shrpese.jar and shrpesi.jar files will issue an operating system command (i.e., a shell file) that is used to perform the XSLT transformation using the XSLT engine and stylesheet of your choice.
Note: Again, the xslt.Transform variable must be set to $Y$ for any of the remaining variables to be used.

(c) The xslt.XSLFileName variable is optional. It will only be used if the xslt.UseInternalXSLT variable is set to $N$, (using an external XSLT process to perform the transformation instead of the internal method).

If the internal transformation process is used (xslt.UseInternalXSLT is set to $Y$), then the transformation process will always use the file name bwcktran.xsl for the stylesheet used to perform the transformation.

If the xslt.UseInternalXSLT variable is set to $N$, then the xslt.XSLFileName variable is passed to the shell file that is responsible for performing the transformation.

The statement that the xslt.XSLFileName variable is optional is somewhat misleading. The variable must have a value if the xslt.UseInternalXSLT variable is set to $N$, but whether the shell file responsible for performing the transformation uses this value is up to the logic within the shell file itself.

The locally created shell file used to perform the XSLT transformation might have a hardcoded stylesheet value that performs the transformation, instead of using this passed parameter as the stylesheet. This value is passed to provide flexibility in the creation of locally owned XSLT shell file.

(d) The xslt.command variable is only used if the xslt.UseInternalXSLT variable is set to $N$. When the shrpese.jar and shrpesi.jar files reach the point in process where the transformation is to be performed, the process first reads the xslt.Transform variable.

If this value is $N$, then no other processing takes place with regard to XSLT. If this value is $Y$, the process then reads the xslt.UseInternalXSLT variable to determine if the internal XSLT engine or an external XSLT engine is used to perform the transformation.

If xslt.UseInternalXSLT variable is set to $N$, then the xslt.command variable is used. The shrpese.jar and shrpesi.jar processes will "break out" from processing and issue an operating system command. The exact command that the processes issue is:

\[
xsltcommand + "\ " + xmlFileName + "\ " + XSLTJobNumber + "\ " + xsltFileName;
\]

The xsltcommand value is equal to the xslt.command value in the xslt.properties file that was updated.
In this example, the exact values would be:

```
sh /export/home/xmluser/input/xalan.shl + " " + xmlFileName
    + " " + XSLTJobNumber
    + " " + xsltFileName;
```

The parameters descriptions are as follows:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>xmlFileName</td>
<td>XML file you are transforming</td>
</tr>
<tr>
<td>XSLTJobNumber</td>
<td>Job submission oneup number</td>
</tr>
<tr>
<td>xsltFileName</td>
<td>Filename that maps to the xslt.XSLTFileName variable in the xslt.properties file</td>
</tr>
</tbody>
</table>

Please see the attached sample file for an example of an xslt.shl file that could used to perform the transformation outside of the export and import processes.

Regarding the two methods that can be used to accomplish the XSLT transformation, the internal method versus the external method, the internal method will only produce an HTML formatted version of the XML data file. The external method is provided as a way to produce alternate output file formats. If you want to create a .pdf, .doc, .txt, or .xls file format for the XML transcript as opposed to a .html version, you can use the external XSLT process, accompanied by your XSL:FO stylesheet, to produce the desired output.

Modifying the bwcktran.xsl File

The delivered bwcktran.xsl stylesheet is intended to be an example or “starter” stylesheet to produce a readable version of the XML transcript. Stylesheets are meant to be altered and adjusted to render the chosen output format.

Use the following steps to modify the bwcktran.xsl stylesheet file.

1. Extract the bwcktran.xsl file from the shrpese.jar and the shrpesi.jar files.

   ```
   jar -xvf shrpese.jar bwcktran.xsl
   jar -xvf shrpesi.jar bwcktran.xsl
   ```

   The bwcktran.xsl stylesheet contains an embedded *.css file within the stylesheet. This is denoted in the comments section of the bwcktran.xsl file. The bwcktran.xsl stylesheet contains the web_defaultapp.css file that is found in the $BANNER_HOME/wtlweb/htm/web_defaultapp.css directory.
The stylesheet is embedded, as opposed to being linked, to provide portability. For example, the final HTML file can be mailed to the user running the process. Therefore, any linking that is done to a *.css file, as opposed to embedding the file, cause any styles associated with the final HTML document to be lost.

2. Cut the existing stylesheet out of the bwcktran.xsl file, located between the <STYLE> tags, and replace it with the contents of your customized web_defaultapp.css code.

This will produce the final HTML document in a way that is consistent with the Self-service products running at your institution.

Note: For more information on specific modifications or customizations of the stylesheet to render adjusted HTML output and on using the XSL programming language, please refer to the following resource: http://www.w3.org/Style/XSL/.

3. Load the new/altered bwcktran.xsl file back into the import and export processes so that when they are run, the stylesheet will transform the output to your new format.

Use the following commands to upload the new bwcktran.xsl stylesheet into the processes:

```bash
jar -uvf shrpese.jar bwcktran.xsl
jar -uvf shrpesi.jar bwcktran.xsl
```

Viewing Formatted Output

The XML transcript process can produce a readable version of the XML data file. If the XSLT process is invoked to produce this formatted output file, the SHRPESE and SHRPESI batch files used to launch the programs, as well as any *.lis and *.log files produced by the processes, are then altered to be HTML files.

The HTML formatted files can be viewed on the Saved Output Review Form (GJIVERO) by selecting the HTML file associated with the process and invoking the process to open the output in a separate browser.

Please see the attached sample files for examples of an xslt.properties file and an xslt.shl batch file for further information on delivery of the formatted HTML output file.

Sample xslt.properties File

```xml
<snip>
# xslt.properties
```
#
# AUDIT TRAIL : 7.3.1                                LM 10AUG2006
# 1. Initial Release.
#    Properties file to determine whether to transform the xml
#    file to another type of output; and how to perform that transformation.
# # AUDIT TRAIL END
# # P1 :  *.xml file name to transform.
# P2 :  Job Submission one up number.
# P3 :  *.xsl file.
# #
# xslt.Command="perl /export/home/xmluser/xalan.pl"
# xslt.Command="run /export/home/xmluser/xalan.com"
# #
# xslt.Transform=Y
# xslt.UseInternalXSLT=Y
# xslt.XSLFileName=bwcktran.xsl
# xslt.Command=sh /export/home/xmluser/input/xalan.shl
<snip>

Sample xslt.shl File

<snip>

: 
#!/bin/sh
# # xslt.shl
#
# # AUDIT TRAIL: 7.3.1                                LM 20JUL2006
# Initial Delivery of example script to XSLT XML transcripts.
#
```bash
# AUDIT TRAIL END
#
# P1 : File name to transfer.
# P2 : Job Submission one up number.
# P3 : XSL file name.
#
# echo 'filename : ' $1
# echo 'jobnumber : ' $2
# echo 'xslname   : ' $3
#
# First - XSLT the xml file to your XSL Stylesheet.
# In this example, we are using the stylesheet. $3, that is passed from
# the shrpese/shrpesi process
# to be used as the format file. If we had our local stylesheet,
# replace $3 with stylesheet name.
#
java -CP org.apache.xalan.xslt.Process -IN /path/to/xml/data/file/$1 -XSL
  /path/to/xsl/stylesheet/$3 -OUT /path/to/output/directory/pescxmlexport_$2.html
#
# As of now, we have a *.html file of our data, what do you want to do?
# If you have ghostscript to pdf it.
#
# http://prdownloads.sourceforge.net/ghostscript/
#
# GS="/usr/opt/bin/gs"
# gswin32c -sDEVICE=pdfwrite -dBATCH -dNOPAGEPROMPT -dNOPAUSE \
# -dNOPRMPMT -dQUIET -sOutputfile=PESCXML_$2.pdf
#
# Or, simply mail the html file to user running process.
#
# uuencode pescxmlexport_$2.html pescxmlexport_$2.html | mailx -s "XML
# Transcript pescxmlexport_$2.html* $4@yourdomain.edu
#
exit 0

---

**Changed Form**

---

### PESC/XML Export Document Status Form (SHIETPD)

This form has been modified to display an *E* (Error Processing Transcript) in the **Send Status** field if an error occurs when SHRPESE is run.

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send Status</td>
<td>Status of the document ID response file from the receiving institution.</td>
</tr>
<tr>
<td></td>
<td><em>R</em> Received</td>
</tr>
<tr>
<td></td>
<td><em>E</em> Error Processing Transcript</td>
</tr>
</tbody>
</table>

---

**Changed Reports and Processes**

---

### PESC/XML Transcript Export Process (SHRPESE)

**Concurrent Curricula Processing**

Concurrent curriculum functionality has been added to the XML transcript export and import processes. This replaces the existing backfill processing for primary and secondary curriculum records.

**Multiple Commands for SFTP and FTP**

This process has been modified to allow for multiple commands.

The Texas Server had announced that SFTP and FTPS were supported protocol for exchanging XML files. The current XML transcript used FTP with PGP encryption...
to exchange files with the Texas Server. Plain FTP passed user login credentials in clear text. So, even though the contents of the XML transcript files were encrypted prior to exchange with the Texas Server, the username and password were still passed in clear text. This posed a security risk. XML transcript processing needed to allow the institution to select whether they wanted to use FTP with PGP, SFTP, or FTPS for exchanging files with the Texas Server.

The `shrpese.jar` file has been modified to have the option to break out and issue an operating system command. The intent is such that individuals will maintain their own shell scripts to perform the SFTP or alternate transmission protocol. This satisfies RPE #1-M70V8.

Please refer to the “PESC/XML Transcript - Phase 2 - Technical” section for more details on these changes.

Readable and Printable Output

This process has been modified to provide a baseline view of transmitted data that is printable in the PESC standard template format. You can view the output on the Saved Output Review Form (GJIVERO).

Imported XML transcripts can be viewed on SHAEDIS. However, this view truncates files to 31880 characters, which does not provide readable/formatted versions of the XML file (input or output). Users have to review the actual XML files when auditing the transcript data, and therefore know how to navigate in an XML file in order to complete the task.

There is also no print option available to provide a printable version of the complete, imported XML transcript. Printed transcripts are placed in student files for audit purposes and are used to obtain information that is not loaded into Banner, such as the degree earned. A printed version of the transmitted data should subscribe to the PESC standard template format.

The SHRPESE (export) and SHRPESI (import) processes have been modified to produce an HTML readable version of the XML file contents. A stylesheet file can be used as a template. This satisfies RPE #1-M70V1.

Please refer to the “PESC/XML Transcript - Phase 2 - Technical” section for more details on these changes.
PESC/XML Transcript Import Process (SHRPESI)

Concurrent Curricula Processing
Concurrent curriculum functionality has been added to the XML transcript export and import processes. This replaces the existing backfill processing for primary and secondary curriculum records.

Readable and Printable Output
This process has been modified to provide a baseline view of transmitted data that is printable in the PESC standard template format. You can view the output on the Saved Output Review Form (GJIVERO).

Imported XML transcripts can be viewed on SHAEDIS. However, this view truncates files to 31880 characters, which does not provide readable/formatted versions of the XML file (input or output). Users have to review the actual XML files when auditing the transcript data, and therefore know how to navigate in an XML file in order to complete the task.

There is also no print option available to provide a printable version of the complete, imported XML transcript. Printed transcripts are placed in student files for audit purposes and are used to obtain information that is not loaded into Banner, such as the degree earned. A printed version of the transmitted data should subscribe to the PESC standard template format.

The SHRPESE (export) and SHRPESI (import) processes have been modified to produce an HTML readable version of the XML file contents. A stylesheet file can be used as a template. This satisfies RPE #1-M70V1.

Please refer to the “PESC/XML Transcript - Phase 2 - Technical” section for more details on these changes.

Report Samples

PESC/XML Transcript Export Process (SHRPESE)

Please see the following landscaped section for report parameters and sample output.

A sample for formatted output has been added to the existing samples.
PESC/XML Transcript Import Process (SHRPESI)

Please see the following landscaped section for report parameters and sample output.

A sample for formatted output has been added to the existing samples.
PESC/XML Transcript Export Process (SHRPESE)

Description
This Java process is used to create electronic transcripts in XML format by producing a .xml file that can be read by the receiving institution. It also produces .lis and .log file entries. It uses the file transfer protocol information on SOASBGA to send the transcript to an institution. The process reads XML transcript requests from the collector records and extracts those with a transcript type of P (PESC/XML) from the Electronic field on STVSBG1 and a transcript type of XML on SHATPRT.

To use this process, a transcript must have been requested through SHARQTC or SHRTPOP (using population selection), or online using self-service. SHRPESE reads the requests from the collector file and generates the XML for the transcripts along with control and log file entries. Only official transcript requests with a send type of P will be processed. Transcripts may be produced for an individual with a pending request or for all requests which have been sent to the collector file. When each transcript is generated, SHRPESE will update the Status and Status Date fields in the Electronic Transcript Status information on SHARQTC. If no errors have occurred, the Run Date value will also be populated.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
</table>
| Transcript Population File? | Yes       | Enter Y if the transcript population was previously selected using SHRTPOP or N if no transcript population file exists. The default is N. | Y Transcript population exists  
<p>|                             |           |                                                                             | N Transcript population does not exist |
| ID and Seq No as XXXXXXXXXX000 | No        | Enter the ID number as the first nine characters (XXXXXXXXX) and the sequence number as the last three characters (000). Enter % or leave the parameter value blank to select all IDs and sequence numbers. The default is %. |</p>
<table>
<thead>
<tr>
<th>Parameters (cont.)</th>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Transcript Type</td>
<td>Yes</td>
<td>Enter the transcript type. Multiple values are allowed. The default is % for all types.</td>
<td>Transcript Type Code Validation Form (STVTPRT)</td>
</tr>
<tr>
<td></td>
<td>Address Selection Date</td>
<td>No</td>
<td>Enter the date used to select the appropriate address in format DD-MON-YYYY.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address Priority and Type</td>
<td>Yes</td>
<td>Enter the address priority followed by the address type, such as 1MA for a first priority mailing address.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Campus Selection Identifier</td>
<td>No</td>
<td>Enter Y to select a campus or N to not select a campus. The default in N.</td>
<td>Y Select campus N Do not select campus</td>
</tr>
<tr>
<td></td>
<td>Campus Selected</td>
<td>No</td>
<td>If you entered Y in the Campus Selection Identifier parameter, enter the campus code for the campus to be processed.</td>
<td>Campus Code Validation Form (STVCAMP)</td>
</tr>
<tr>
<td></td>
<td>GPA Format</td>
<td>No</td>
<td>Select the GPA format for the transcript. Enter R for the rounded GPA format or T for the truncated GPA format. The default is R.</td>
<td>R Rounded GPA T Truncated GPA</td>
</tr>
<tr>
<td></td>
<td>Run in Sleep/Wake Mode</td>
<td>Yes</td>
<td>Enter Y to run the process in sleep/wake mode or N to not use this option. The default is N.</td>
<td>Y Run in sleep/wake mode N Do not use sleep/wake</td>
</tr>
<tr>
<td></td>
<td>Sleep/Wake Interval</td>
<td>Yes</td>
<td>Enter the time in seconds for the sleep/wake interval. Valid values are 0-99999. The default is 60.</td>
<td></td>
</tr>
</tbody>
</table>
Parameters (cont.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
</table>
| XML Document Process Code   | Yes       | Enter TEST to run create output for a test environment or PRODUCTION to create output for a production environment. The default is TEST. | TEST Test environment
                                      PRODUCTION Production environment |
| Self-Reported Test Source   | Yes       | Enter the value for self-reported test scores. The default is STDN.          | Admission Test Score Source Code Validation Form (STVTSRC)             |
| Domestic Address Nation Code| Yes       | Enter the nation code for the domestic address. Multiple values are allowed. The default is US. | Nation Code Validation Form (STVNATN)                                  |

Note: The nation code description is printed on the report. So while 157 is the nation code, US is the nation code description that is used for the default.

| Email Type Hierarchy        | Yes       | Enter the email type to be used (such as 1CAMP for first priority campus email) if no preferred email address exists. Multiple values are allowed. | E-mail Address Type Validation Form (GTVEMAL) |

Report Sample—PESC/XML Transcript Export Process (SHRPESE)

This sample shows the report output.

<table>
<thead>
<tr>
<th>October 9, 2006 12:25:55 PM</th>
<th>BANNER University</th>
<th>PESC/XML Export Process</th>
<th>SHRPESE</th>
<th>Page 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student ID</td>
<td>SBGI Code</td>
<td>Seq No</td>
<td>Message</td>
<td></td>
</tr>
<tr>
<td>Helena</td>
<td>4947</td>
<td>1</td>
<td>Transcript Successfully Sent. File is: /export/home/dlindblo/jobsub/pescxmlexport_134605_1.xml</td>
<td></td>
</tr>
</tbody>
</table>
CONTROL SUMMARY

<table>
<thead>
<tr>
<th>Parameter Description</th>
<th>Parameter Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROGRAM NAME:</td>
<td>SHRPESE</td>
</tr>
<tr>
<td>PROGRAM VERSION:</td>
<td>7.3.1</td>
</tr>
<tr>
<td>TRANSCRIPT POPULATION FILE USED:</td>
<td>N</td>
</tr>
<tr>
<td>REQUEST ID(S):</td>
<td></td>
</tr>
<tr>
<td>ID NUMBER:</td>
<td>%</td>
</tr>
<tr>
<td>TRANSCRIPT TYPE(S):</td>
<td>XML</td>
</tr>
<tr>
<td>ADDRESS SELECTION DATE:</td>
<td>09-MAR-2006</td>
</tr>
<tr>
<td>ADDRESS TYPE(S):</td>
<td>2PR</td>
</tr>
<tr>
<td>CAMPUS SELECTION REQUESTED?:</td>
<td>N</td>
</tr>
<tr>
<td>GPA FORMAT (R)round (T)runcate:</td>
<td>R</td>
</tr>
<tr>
<td>SLEEP WAKE INDICATOR:</td>
<td>N</td>
</tr>
<tr>
<td>SLEEP WAKE INTERVAL:</td>
<td>60</td>
</tr>
<tr>
<td>DOCUMENT PROCESS CODE (TEST or PRODUCTION):</td>
<td>PRODUCTION</td>
</tr>
<tr>
<td>SELF-REPORTED TEST CODE(S):</td>
<td>STDN</td>
</tr>
<tr>
<td>DOMESTIC ADDRESS NATION CODE(S):</td>
<td>US</td>
</tr>
<tr>
<td>EMAIL TYPE(S):</td>
<td>1HOME</td>
</tr>
<tr>
<td>ONLY OFFICIAL TRANSCRIPTS WILL BE SENT ELECTRONICALLY</td>
<td></td>
</tr>
<tr>
<td>TRANSCRIPT POPULATION RECORDS READ</td>
<td>0</td>
</tr>
<tr>
<td>COLLECTOR RECORDS READ</td>
<td>1</td>
</tr>
</tbody>
</table>

Connected.
This sample shows the log file with debugging turned on.

```
2006-04-28 15:47:52.957 DEBUG [main] - Batch resources initialized
2006-04-28 15:47:53.208 DEBUG [main] - 02 = %
2006-04-28 15:47:53.256 DEBUG [main] - DB_NAME=s7s70
2006-04-28 15:47:53.257 DEBUG [main] - OS_USER=jobs7s70
2006-04-28 15:47:53.538 DEBUG [main] - before calling shkpex.f_select_academic_batch
2006-04-28 15:47:53.644 DEBUG [main] - looping through academic record batch ADDED host_name=ediserver.reg.utexas.edu
term_code=200610 level_code=AL sbgi_code=2959 request_source=SHTTRAN id=Helena lastname=Greystone
firstname=Helena
docid = SCTXML2006-04-28T15:47:57.38
2006-04-28 15:47:58.121 DEBUG [main] - PersonData before call to procedure pidm=820 seq_no=24 user_id=IAS_PUBLIC term_code=200610 level_code=AL sbgi_code=2959 request_source=SHTTRAN
2006-04-28 15:47:58.390 DEBUG [main] - looping through levels currLevel=GR levelCount=1
2006-04-28 15:47:58.418 DEBUG [main] - academic summary for summaryType=O currLevel=GR
2006-04-28 15:47:59.033 DEBUG [main] - transfer work DOES NOT exist
2006-04-28 15:47:59.034 DEBUG [main] - academic summary for summaryType=I currLevel=GR
2006-04-28 15:47:59.076 DEBUG [main] - before reading terms for level=GR
```
The sample shows the log file with debugging turned on, continued.

```
2006-04-28 15:47:59.092 DEBUG [main] - looping through levels currLevel=UG levelCount=2
2006-04-28 15:47:59.983 DEBUG [main] - award program Major number =1
2006-04-28 15:48:00.049 DEBUG [main] - before getting summary for award
2006-04-28 15:48:00.063 DEBUG [main] - academic summary for summaryType=O currLevel=UG
2006-04-28 15:48:00.099 DEBUG [main] - academic summary for summaryType=I currLevel=UG
2006-04-28 15:48:00.116 DEBUG [main] - looping through terms current term=200110 for level=UG
2006-04-28 15:48:00.246 DEBUG [main] - AcademicSession/SenderOnly StudentLevel=null
2006-04-28 15:48:00.416 DEBUG [main] - looping through inst courses current CRN=10067 seqno=1
2006-04-28 15:48:00.760 DEBUG [main] - looping through inst courses current CRN=10069 seqno=2
2006-04-28 15:48:00.789 DEBUG [main] - looping through inst courses current CRN=10068 seqno=3
2006-04-28 15:48:00.813 DEBUG [main] - looping through inst courses current CRN=10070 seqno=4
2006-04-28 15:48:00.838 DEBUG [main] - looping through inst courses current CRN=10071 seqno=5
2006-04-28 15:48:00.916 DEBUG [main] - looping through terms current term=200220 for level=UG
2006-04-28 15:48:00.934 DEBUG [main] - AcademicSession/SenderOnly StudentLevel=null
2006-04-28 15:48:00.976 DEBUG [main] - looping through inst courses current CRN=26 seqno=1
2006-04-28 15:48:01.039 DEBUG [main] - looping through inst courses current CRN=29 seqno=2
2006-04-28 15:48:01.099 DEBUG [main] - looping through inst courses current CRN=31 seqno=4
2006-04-28 15:48:01.179 DEBUG [main] - looping through terms current term=200341 for level=UG
2006-04-28 15:48:01.193 DEBUG [main] - AcademicSession/SenderOnly StudentLevel=CollegeSophomore
2006-04-28 15:48:01.252 DEBUG [main] - looping through inst courses current CRN=10001 seqno=1
2006-04-28 15:48:01.346 DEBUG [main] - looping through inst courses current CRN=20006 seqno=1
2006-04-28 15:48:01.405 DEBUG [main] - looping through inst courses current CRN=20007 seqno=2
2006-04-28 15:48:03.348 DEBUG [main] - encryptAndFtp usePGP=N
2006-04-28 15:48:03.355 DEBUG [main] - Sending file /u01/s7s70/jobsub/systest23/pescxmlExport_21557_1.xml to ediserver.reg.utexas.edu using user Fstxml
Send complete
*** SHRPSE completed successfully ***
Connected.
```
This sample shows the log file with debugging turned off.

```
Send complete
*** SHRPESE completed successfully ***
Connected.
```
The sample shows the XML file.

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <urn:AcademicRecordBatch xmlns:core="urn:org:pesc:core:CoreMain:v1.0.1a" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:AcRec="urn:org:pesc:sector:AcademicRecord:v1.0.0" xmlns:ColTrn="urn:org:pesc:message:CollegeTranscript:v1.0.0"/>
  - <ColTrn:CollegeTranscript>
    - <TransmissionData>
      - <CreatedDateTime>2006-04-28T15:47:57.38</CreatedDateTime>
      - <DocumentTypeCode>RequestedRecord</DocumentTypeCode>
      - <TransmissionType>Original</TransmissionType>
      - <Source>
        - <FICE>SCTXML</FICE>
        - <OrganizationName>BANNER System Test</OrganizationName>
        - <Contacts>
          - <Address>
            - <AddressLine>Systems & Computer Technology</AddressLine>
            - <AddressLine>Four Country View Road</AddressLine>
            - <AddressLine>Great Valley Corporate Center</AddressLine>
            - <City>Malvern</City>
            - <StateProvinceCode>PA</StateProvinceCode>
            - <PostalCode>19355</PostalCode>
          </Address>
          - <Phone>
            - <AreaCode>215</AreaCode>
            - <PhoneNumber>6475930</PhoneNumber>
          </Phone>
        </Contacts>
        - <Organization>
          - <FICE>002959</FICE>
          - <OrganizationName>Villanova University</OrganizationName>
          - <Contacts>
            - <Address>
              - <AddressLine>800 Lancaster Avenue</AddressLine>
              - <City>Villanova</City>
              - <StateProvinceCode>PA</StateProvinceCode>
              - <PostalCode>19085</PostalCode>
            </Address>
            - <AttentionLine>Villanova University</AttentionLine>
          </Contacts>
        </Organization>
      </Source>
      - <Destination>
        - <Organization>
          - <FICE>SCTXML</FICE>
          - <OrganizationName>BANNER System Test</OrganizationName>
          - <Contacts>
            - <Address>
              - <AddressLine>Systems & Computer Technology</AddressLine>
              - <AddressLine>Four Country View Road</AddressLine>
              - <AddressLine>Great Valley Corporate Center</AddressLine>
              - <City>Malvern</City>
              - <StateProvinceCode>PA</StateProvinceCode>
              - <PostalCode>19355</PostalCode>
            </Address>
            - <Phone>
              - <AreaCode>215</AreaCode>
              - <PhoneNumber>6475930</PhoneNumber>
            </Phone>
          </Contacts>
          - <Organization>
            - <FICE>002959</FICE>
            - <OrganizationName>Villanova University</OrganizationName>
            - <Contacts>
              - <Address>
                - <AddressLine>800 Lancaster Avenue</AddressLine>
                - <City>Villanova</City>
                - <StateProvinceCode>PA</StateProvinceCode>
                - <PostalCode>19085</PostalCode>
            </Address>
            - <AttentionLine>Villanova University</AttentionLine>
          </Contacts>
        </Organization>
      </Destination>
    </TransmissionData>
  </ColTrn:CollegeTranscript>
</urn:AcademicRecordBatch>
```
The sample shows the XML file, continued.

```xml
</Address>
</Contacts>
</Organization>
</Destination>
</TransmissionData>
- <Student>
- <Person>
  <SchoolAssignedPersonID>Helena</SchoolAssignedPersonID>
  <Name>
    <FirstName>Helena</FirstName>
    <LastName>Greystone</LastName>
    <CompositeName>Greystone, Helena</CompositeName>
  </Name>
- <Contacts>
  <Address>123 Sesame Street</Address>
  <City>Seattle</City>
  <StateProvinceCode>WA</StateProvinceCode>
  <PostalCode>98199</PostalCode>
</Address>
- <Email>
  <EmailAddress>Helena@hamilton.edu</EmailAddress>
</Email>
- <Gender>
  <GenderCode>Female</GenderCode>
</Gender>
- <Deceased>
  <DeceasedIndicator>false</DeceasedIndicator>
</Deceased>
</Person>
- <AcademicRecord>
- <AcademicSummary>
  <AcademicSummaryType>All</AcademicSummaryType>
  <AcademicSummaryLevel>Graduate</AcademicSummaryLevel>
</AcademicSummary>
- <AcademicProgram>
  <ProgramCIPCode>41011</ProgramCIPCode>
  <AcademicProgramType>Major</AcademicProgramType>
  <AcademicProgramName>Art</AcademicProgramName>
```
The sample shows the XML file, continued.

```xml
</AcademicProgram>
</AcademicSummary>
</AcademicRecord>
- </AcademicRecord>
  - </AcademicSummary>
    <AcademicSummaryType>SenderOnly</AcademicSummaryType>
    <AcademicSummaryLevel>Graduate</AcademicSummaryLevel>
  </AcademicSummary>
</AcademicRecord>
- </AcademicRecord>
  - </AcademicAward>
    <AcademicAwardLevel>2.4</AcademicAwardLevel>
    <AcademicAwardTitle>Bachelor of Arts</AcademicAwardTitle>
    <AcademicCompletionIndicator>false</AcademicCompletionIndicator>
  - </AcademicAwardProgram>
    <ProgramCIPCode>450201</ProgramCIPCode>
    <AcademicProgramType>Major</AcademicProgramType>
    <AcademicProgramName>Anthropology & Sociology</AcademicProgramName>
  - </AcademicProgramName>
    <AcademicAwardProgram>
    <ProgramCIPCode>410111</ProgramCIPCode>
    <AcademicProgramType>Minor</AcademicProgramType>
    <AcademicProgramName>Art History</AcademicProgramName>
  - </AcademicProgramName>
  - </AcademicSummary>
    <AcademicSummaryType>DegreeApplicable</AcademicSummaryType>
    <AcademicSummaryLevel>LowerDivision</AcademicSummaryLevel>
  - </GPA>
    <CreditHoursAttempted>6</CreditHoursAttempted>
    <CreditHoursEarned>6</CreditHoursEarned>
    <GradePointAverage>4</GradePointAverage>
    <TotalQualityPoints>24</TotalQualityPoints>
    <CreditHoursforGPA>6</CreditHoursforGPA>
  </GPA>
</AcademicSummary>
</AcademicAward>
- </AcademicAward>
  <AcademicAwardLevel>2.4</AcademicAwardLevel>
  <AcademicAwardTitle>Bachelor of Arts</AcademicAwardTitle>
  <AcademicCompletionIndicator>false</AcademicCompletionIndicator>
```
The sample shows the XML file, continued.

```xml
- <AcademicAwardProgram>
  <ProgramCIPCode>060101</ProgramCIPCode>
  <AcademicProgramType>Major</AcademicProgramType>
  <AcademicProgramName>Business Administration</AcademicProgramName>
  </AcademicAwardProgram>
- <AcademicSummary>
  <AcademicSummaryType>DegreeApplicable</AcademicSummaryType>
  <AcademicSummaryLevel>LowerDivision</AcademicSummaryLevel>
  - <GPA>
    <CreditHoursAttempted>6</CreditHoursAttempted>
    <CreditHoursEarned>6</CreditHoursEarned>
    <GradePointAverage>4</GradePointAverage>
    <TotalQualityPoints>24</TotalQualityPoints>
    <CreditHoursforGPA>6</CreditHoursforGPA>
  </GPA>
  </AcademicSummary>
- <AcademicAward>
  <ProgramCIPCode>450201</ProgramCIPCode>
  <AcademicProgramType>Major</AcademicProgramType>
  <AcademicProgramName>Anthropology & Sociology</AcademicProgramName>
  </AcademicAward>
- <AcademicSummary>
  <AcademicSummaryType>SenderOnly</AcademicSummaryType>
  <AcademicSummaryLevel>LowerDivision</AcademicSummaryLevel>
  - <GPA>
    <CreditHoursAttempted>24</CreditHoursAttempted>
    <CreditHoursEarned>24</CreditHoursEarned>
  </GPA>
```
The sample shows the XML file, continued.

```xml
<GradePointAverage>3.125</GradePointAverage>
>TotalQualityPoints>75</TotalQualityPoints>
>CreditHoursforGPA>24</CreditHoursforGPA>
</GPA>
</AcademicSummary>
- <AcademicSession>
  - <AcademicSessionDetail>
    <SessionDesignator>2000-09</SessionDesignator>
    <SessionDesignatorSuffix>10</SessionDesignatorSuffix>
    <SessionName>Fall 2000 - 2001</SessionName>
    <SessionType>SummerSession</SessionType>
    <SessionBeginDate>2000-09-01</SessionBeginDate>
    <SessionEndDate>2000-12-15</SessionEndDate>
  </AcademicSessionDetail>
- <AcademicProgram>
  <ProgramCIPCode>060201</ProgramCIPCode>
  <AcademicProgramType>Major</AcademicProgramType>
  <AcademicProgramName>Accounting</AcademicProgramName>
</AcademicProgram>
- <Course>
  <CourseCreditBasis>Regular</CourseCreditBasis>
  <CourseCreditLevel>LowerDivision</CourseCreditLevel>
  <CourseCreditValue>3</CourseCreditValue>
  <CourseCreditEarned>3</CourseCreditEarned>
  <CourseAcademicGrade>B</CourseAcademicGrade>
  <CourseQualityPointsEarned>9</CourseQualityPointsEarned>
  <CourseSubjectAbbreviation>ENGL</CourseSubjectAbbreviation>
  <CourseNumber>105</CourseNumber>
  <CourseSectionNumber>1</CourseSectionNumber>
  <CourseTitle>Literature & Composition 1C</CourseTitle>
  <CourseBeginDate>2001-09-01</CourseBeginDate>
  <CourseEndDate>2001-12-15</CourseEndDate>
</Course>
- <Course>
  <CourseCreditBasis>Regular</CourseCreditBasis>
  <CourseCreditLevel>LowerDivision</CourseCreditLevel>
  <CourseCreditValue>3</CourseCreditValue>
  <CourseCreditEarned>3</CourseCreditEarned>
  <CourseAcademicGrade>B</CourseAcademicGrade>
  <CourseQualityPointsEarned>9</CourseQualityPointsEarned>
  <CourseSubjectAbbreviation>ECON</CourseSubjectAbbreviation>
```
The sample shows the XML file, continued.

```
<CourseNumber>111</CourseNumber>
<CourseSectionNumber>1</CourseSectionNumber>
<CourseTitle>Prin. of Macroeconomics</CourseTitle>
<CourseBeginDate>2001-09-01</CourseBeginDate>
<CourseEndDate>2001-12-15</CourseEndDate>
</Course>
- <Course>
  <CourseCreditBasis>Regular</CourseCreditBasis>
  <CourseCreditLevel>LowerDivision</CourseCreditLevel>
  <CourseCreditValue>3</CourseCreditValue>
  <CourseCreditEarned>3</CourseCreditEarned>
  <CourseAcademicGrade>A</CourseAcademicGrade>
  <CourseQualityPointsEarned>12</CourseQualityPointsEarned>
  <CourseSubjectAbbreviation>CHSM</CourseSubjectAbbreviation>
  <CourseNumber>100</CourseNumber>
  <CourseSectionNumber>1</CourseSectionNumber>
  <CourseTitle>Ancient. Medieval. Rn Thought</CourseTitle>
  <CourseBeginDate>2001-09-01</CourseBeginDate>
  <CourseEndDate>2001-12-15</CourseEndDate>
</Course>
- <Course>
  <CourseCreditBasis>Regular</CourseCreditBasis>
  <CourseCreditLevel>LowerDivision</CourseCreditLevel>
  <CourseCreditValue>3</CourseCreditValue>
  <CourseCreditEarned>3</CourseCreditEarned>
  <CourseAcademicGrade>C</CourseAcademicGrade>
  <CourseQualityPointsEarned>6</CourseQualityPointsEarned>
  <CourseSubjectAbbreviation>AMST</CourseSubjectAbbreviation>
  <CourseNumber>105</CourseNumber>
  <CourseSectionNumber>1</CourseSectionNumber>
  <CourseTitle>Civil War I</CourseTitle>
  <CourseBeginDate>2001-09-01</CourseBeginDate>
  <CourseEndDate>2001-12-15</CourseEndDate>
</Course>
- <Course>
  <CourseCreditBasis>Regular</CourseCreditBasis>
  <CourseCreditLevel>LowerDivision</CourseCreditLevel>
  <CourseCreditValue>3</CourseCreditValue>
  <CourseCreditEarned>3</CourseCreditEarned>
  <CourseAcademicGrade>A</CourseAcademicGrade>
  <CourseQualityPointsEarned>12</CourseQualityPointsEarned>
```
The sample shows the XML file, continued.

```xml
  <CourseSubjectAbbreviation>ACCT</CourseSubjectAbbreviation>
  <CourseNumber>111</CourseNumber>
  <CourseSectionNumber>1</CourseSectionNumber>
  <CourseTitle>Principles of Accounting I</CourseTitle>
  <CourseBeginDate>2001-09-01</CourseBeginDate>
  <CourseEndDate>2001-12-15</CourseEndDate>
</Course>
  - <AcademicSummary>
    <AcademicSummaryType>SenderOnly</AcademicSummaryType>
    <AcademicSummaryLevel>LowerDivision</AcademicSummaryLevel>
    - <GPA>
      <CreditHoursAttempted>0</CreditHoursAttempted>
      <CreditHoursEarned>0</CreditHoursEarned>
      <GradePointAverage>0</GradePointAverage>
      <CreditHoursforGPA>0</CreditHoursforGPA>
    </GPA>
  </AcademicSummary>
  </AcademicSession>
  - <AcademicSessionDetail>
    <SessionDesignator>2002-01</SessionDesignator>
    <SessionDesignatorSuffix>20</SessionDesignatorSuffix>
    <SessionName>Spring 2002 (200220)</SessionName>
    <SessionType>SummerSession</SessionType>
    <SessionBeginDate>2002-01-15</SessionBeginDate>
    <SessionEndDate>2002-05-15</SessionEndDate>
  </AcademicSessionDetail>
  - <AcademicProgram>
    <ProgramCIPCode>060201</ProgramCIPCode>
    <AcademicProgramType>Major</AcademicProgramType>
    <AcademicProgramName>Accounting</AcademicProgramName>
  </AcademicProgram>
  <Course>
    <CourseCreditBasis>Regular</CourseCreditBasis>
    <CourseCreditLevel>LowerDivision</CourseCreditLevel>
    <CourseCreditValue>3</CourseCreditValue>
    <CourseCreditEarned>3</CourseCreditEarned>
    <CourseAcademicGrade>B</CourseAcademicGrade>
    <CourseQualityPointsEarned>9</CourseQualityPointsEarned>
    <CourseSubjectAbbreviation>ENGL</CourseSubjectAbbreviation>
    <CourseNumber>106</CourseNumber>
  </Course>
  <CourseSectionNumber>1</CourseSectionNumber>
```
The sample shows the XML file, continued.

```
  <CourseTitle>Literature & Composition II</CourseTitle>
  <CourseBeginDate>2002-01-15</CourseBeginDate>
  <CourseEndDate>2002-05-15</CourseEndDate>
  </Course>
  - <Course>
    <CourseCreditBasis>Regular</CourseCreditBasis>
    <CourseCreditLevel>LowerDivision</CourseCreditLevel>
    <CourseCreditValue>3</CourseCreditValue>
    <CourseGrade>C</CourseGrade>
    <CourseQualityPointsEarned>6</CourseQualityPointsEarned>
    <SubjectAbbreviation>ECON</SubjectAbbreviation>
    <CourseNumber>112</CourseNumber>
    <CourseSectionNumber>1</CourseSectionNumber>
    <CourseTitle>Prin. of Microeconomics</CourseTitle>
    <CourseBeginDate>2002-01-15</CourseBeginDate>
    <CourseEndDate>2002-05-15</CourseEndDate>
  </Course>
  - <Course>
    <CourseCreditBasis>Regular</CourseCreditBasis>
    <CourseCreditLevel>LowerDivision</CourseCreditLevel>
    <CourseCreditValue>3</CourseCreditValue>
    <CourseGrade>B</CourseGrade>
    <CourseQualityPointsEarned>3</CourseQualityPointsEarned>
    <SubjectAbbreviation>CHSM</SubjectAbbreviation>
    <CourseNumber>101</CourseNumber>
    <CourseSectionNumber>1</CourseSectionNumber>
    <CourseTitle>Modern Thought:Enlight. to Prec</CourseTitle>
    <CourseBeginDate>2002-01-15</CourseBeginDate>
    <CourseEndDate>2002-05-15</CourseEndDate>
  </Course>
  - <Course>
    <CourseCreditBasis>Regular</CourseCreditBasis>
    <CourseCreditLevel>LowerDivision</CourseCreditLevel>
    <CourseCreditValue>3</CourseCreditValue>
    <CourseGrade>C</CourseGrade>
    <CourseQualityPointsEarned>3</CourseQualityPointsEarned>
    <SubjectAbbreviation> </SubjectAbbreviation>
    <CourseNumber></CourseNumber>
    <CourseSectionNumber></CourseSectionNumber>
    <CourseTitle></CourseTitle>
    <CourseBeginDate></CourseBeginDate>
    <CourseEndDate></CourseEndDate>
  </Course>
```
The sample shows the XML file, continued.

```xml
<CourseQualityPointsEarned>9</CourseQualityPointsEarned>
<CourseSubjectAbbreviation>AMST</CourseSubjectAbbreviation>
<CourseNumber>106</CourseNumber>
<CourseSectionNumber>1</CourseSectionNumber>
<CourseTitle>Civil War II</CourseTitle>
<CourseBeginDate>2002-01-15</CourseBeginDate>
<CourseEndDate>2002-05-15</CourseEndDate>
</Course>
- <Course>
  <CourseCreditBasis>Regular</CourseCreditBasis>
  <CourseCreditLevel>LowerDivision</CourseCreditLevel>
  <CourseCreditValue>3</CourseCreditValue>
  <CourseAcademicGrade>A</CourseAcademicGrade>
  <CourseQualityPointsEarned>12</CourseQualityPointsEarned>
  <CourseSubjectAbbreviation>ACCT</CourseSubjectAbbreviation>
  <CourseNumber>112</CourseNumber>
  <CourseSectionNumber>1</CourseSectionNumber>
  <CourseTitle>Principles of Accounting II</CourseTitle>
  <CourseBeginDate>2002-01-15</CourseBeginDate>
  <CourseEndDate>2002-05-15</CourseEndDate>
</Course>
- <AcademicSummary>
  <AcademicSummaryType>SenderOnly</AcademicSummaryType>
  <AcademicSummaryLevel>LowerDivision</AcademicSummaryLevel>
- <GPA>
  <CreditHoursAttempted>15</CreditHoursAttempted>
  <CreditHoursEarned>15</CreditHoursEarned>
  <GradePointAverage>2.6</GradePointAverage>
  <CreditHoursforGPA>15</CreditHoursforGPA>
</GPA>
</AcademicSummary>
</AcademicSession>
- <AcademicSessionDetail>
  <SessionDesignator>2002-09</SessionDesignator>
  <SessionDesignatorSuffix>41</SessionDesignatorSuffix>
  <SessionName>MT'S Fall Term - 2003</SessionName>
  <SessionType>SummerSession</SessionType>
  <SessionBeginDate>2002-09-01</SessionBeginDate>
  <SessionEndDate>2002-12-15</SessionEndDate>
</AcademicSessionDetail>
```
The sample shows the XML file, continued.

```xml
- <StudentLevel>
  <StudentLevelCode>CollegeSophomore</StudentLevelCode>
</StudentLevel>
- <AcademicProgram>
  <ProgramCIPCode>060201</ProgramCIPCode>
  <AcademicProgramType>Major</AcademicProgramType>
  <AcademicProgramName>Accounting</AcademicProgramName>
</AcademicProgram>
- <Course>
  <CourseCreditBasis>Regular</CourseCreditBasis>
  <CourseCreditLevel>LowerDivision</CourseCreditLevel>
  <CourseCreditValue>3</CourseCreditValue>
  <CourseCreditEarned>3</CourseCreditEarned>
  <CourseAcademicGrade>A</CourseAcademicGrade>
  <CourseQualityPointsEarned>12</CourseQualityPointsEarned>
  <CourseSubjectAbbreviation>ANTH</CourseSubjectAbbreviation>
  <CourseNumber>2010</CourseNumber>
  <CourseSectionNumber>0</CourseSectionNumber>
  <CourseTitle>Origins of Culture</CourseTitle>
  <CourseBeginDate>2002-09-01</CourseBeginDate>
  <CourseEndDate>2002-12-31</CourseEndDate>
</Course>
- <AcademicSummary>
  <AcademicSummaryType>SenderOnly</AcademicSummaryType>
  <AcademicSummaryLevel>LowerDivision</AcademicSummaryLevel>
  - <GPA>
    <CreditHoursAttempted>3</CreditHoursAttempted>
    <CreditHoursEarned>3</CreditHoursEarned>
    <GradePointAverage>4</GradePointAverage>
    <CreditHoursforGPA>3</CreditHoursforGPA>
  </GPA>
</AcademicSummary>
- <AcademicSession>
  - <AcademicSessionDetail>
    <SessionDesignator>2005-01</SessionDesignator>
    <SessionDesignatorSuffix>20</SessionDesignatorSuffix>
    <SessionName>Spring 2005</SessionName>
    <SessionType>SummerSession</SessionType>
    <SessionBeginDate>2005-01-15</SessionBeginDate>
    <SessionEndDate>2005-05-10</SessionEndDate>
  </AcademicSessionDetail>
```
The sample shows the XML file, continued.

```xml
</AcademicSessionDetail>
- <StudentLevel>
  <StudentLevelCode>CollegeSophomore</StudentLevelCode>
</StudentLevel>
- <AcademicProgram>
  <ProgramCIPCode>450201</ProgramCIPCode>
  <AcademicProgramType>Major</AcademicProgramType>
  <AcademicProgramName>Anthropology & Sociology</AcademicProgramName>
</AcademicProgram>
- <AcademicProgram>
  <ProgramCIPCode>410111</ProgramCIPCode>
  <AcademicProgramType>Minor</AcademicProgramType>
  <AcademicProgramName>Art History</AcademicProgramName>
</AcademicProgram>
- <Course>
  <CourseCreditBasis>Regular</CourseCreditBasis>
  <CourseCreditLevel>LowerDivision</CourseCreditLevel>
  <CourseCreditValue>3</CourseCreditValue>
  <CourseCreditEarned>3</CourseCreditEarned>
  <CourseAcademicGrade>A</CourseAcademicGrade>
  <CourseQualityPointsEarned>12</CourseQualityPointsEarned>
  <CourseSubjectAbbreviation>ART</CourseSubjectAbbreviation>
  <CourseNumber>115</CourseNumber>
  <CourseSectionNumber>001</CourseSectionNumber>
  <CourseTitle>Long Title for US History to Civil War class</CourseTitle>
  <CourseBeginDate>2004-11-20</CourseBeginDate>
  <CourseEnddate>2004-12-24</CourseEndDate>
</Course>
- <Course>
  <CourseCreditBasis>Regular</CourseCreditBasis>
  <CourseCreditLevel>LowerDivision</CourseCreditLevel>
  <CourseCreditValue>3</CourseCreditValue>
  <CourseCreditEarned>3</CourseCreditEarned>
  <CourseAcademicGrade>A</CourseAcademicGrade>
  <CourseQualityPointsEarned>12</CourseQualityPointsEarned>
  <CourseSubjectAbbreviation>ART</CourseSubjectAbbreviation>
  <CourseNumber>513</CourseNumber>
  <CourseSectionNumber>001</CourseSectionNumber>
  <CourseTitle>Stonehenge (Gradebook)</CourseTitle>
</Course>
```
The sample shows the XML file, continued.

```xml
<AcademicSession>
  <CourseBeginDate>2004-11-23</CourseBeginDate>
  <CourseEndDate>2004-12-27</CourseEndDate>
  <Course>
    <AcademicSummary>
      <AcademicSummaryType>SenderOnly</AcademicSummaryType>
      <AcademicSummaryLevel>LowerDivision</AcademicSummaryLevel>
      <GPA>
        <CreditHoursAttempted>6</CreditHoursAttempted>
        <CreditHoursEarned>6</CreditHoursEarned>
        <GradePointAverage>4</GradePointAverage>
        <CreditHoursforGPA>6</CreditHoursforGPA>
      </GPA>
    </AcademicSummary>
  </Course>
</AcademicSession>
</Student>
</ColTrn:CollegeTranscript>
<urn:AcademicRecordBatch>
```
This sample shows the formatted output.

```
Transmission Data
TRANSMISSION DATA
Document Creation : 2006-08-23T13:21:40.42
Document Type : RequestedRecord
Transmission Type : Original
Source : BANNER University
Contact Information :
    Systems & Computer Technology
    Four Country View Road
    Great Valley Corporate Center
    Malvern
Phone : 215 6475930
Destination : Villanova University
Contact Information :
    800 Lancaster Avenue
    Villanova 19085
Phone :
Document Process Code : PRODUCTION
Document Official Code : Official
Document Complete Code : Complete

Transcript Data
Student Information
Composite Name : Potter,Henry Z
Full Name : Henry Potter I
ID : HPOTTER
Birth Date : SSN : 111222333
Address : 123 Mailing Street
          Bannerland PA 19345
High School :
Email :

Academic Record Data
Academic Record
Academic Summary Type : All
Major : Anthropology
Academic Summary Level : Graduate
Attempted Hours Earned Hours GPA Total Points GPA Hours
2.00 2.00 1.00 2.00 2.00

Academic Record Data
Academic Record
Academic Summary Type : SenderOnly
Academic Summary Level : Graduate
```
This sample shows the formatted output (continued).

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00</td>
<td>2.00</td>
<td>1.00</td>
<td>2.00</td>
<td>2.00</td>
</tr>
</tbody>
</table>

**Academic Session**

**Academic Session**

**Session:** DO NOT USE IN CATALOG

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00</td>
<td>2.00</td>
<td>1.00</td>
<td>2.00</td>
<td>2.00</td>
</tr>
</tbody>
</table>

**Academic Record Data**

**Academic Record**

**Academic Award Type:** Bachelor of Arts

**Major:** Anthropology

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00</td>
<td>5.00</td>
<td>3.00</td>
<td>15.00</td>
<td>5.00</td>
</tr>
</tbody>
</table>

**Academic Award Type:** Bachelor of Arts

**Major:** Anthropology

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.00</td>
<td>3.00</td>
<td>2.00</td>
<td>6.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Academic Summary Type:** All

**Major:** Anthropology

**Academic Summary Level:** LowerDivision

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.00</td>
<td>41.00</td>
<td>3.05</td>
<td>125.00</td>
<td>41.00</td>
</tr>
</tbody>
</table>

**Academic Record Data**

**Academic Record**

**Academic Summary Type:** TransferOnly

**Academic Summary Level:** LowerDivision

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.00</td>
<td>4.00</td>
<td>3.25</td>
<td>13.00</td>
<td>4.00</td>
</tr>
</tbody>
</table>

**Academic Session**

**Academic Session**

**Session:**

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>
This sample shows the formatted output (continued).

<table>
<thead>
<tr>
<th>Courses</th>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>101</td>
<td>Art Appreciation</td>
<td>A</td>
<td>3.00</td>
<td>12.00</td>
</tr>
</tbody>
</table>

**Academic Session**

<table>
<thead>
<tr>
<th>Academic Session</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Session:</td>
<td>DO NOT USE IN CATALOG</td>
<td></td>
</tr>
</tbody>
</table>

**Academic Session**

<table>
<thead>
<tr>
<th>Academic Session</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Session:</td>
<td>Fall 2004</td>
<td></td>
</tr>
</tbody>
</table>

**Academic Session**

<table>
<thead>
<tr>
<th>Academic Session</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Session:</td>
<td>Spring 2004</td>
<td></td>
</tr>
</tbody>
</table>

**Academic Session**

<table>
<thead>
<tr>
<th>Academic Session</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Session:</td>
<td>Spring 2005</td>
<td></td>
</tr>
</tbody>
</table>

**Academic Record Data**

<table>
<thead>
<tr>
<th>Academic Record</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Summary Type:</td>
<td>SenderOnly</td>
<td></td>
</tr>
<tr>
<td>Academic Summary Level:</td>
<td>LowerDivision</td>
<td></td>
</tr>
</tbody>
</table>

**Attempted Hours Earned Hours GPA Total Points GPA Hours**

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>40.00</td>
<td>37.00</td>
<td>3.03</td>
<td>112.00</td>
<td>37.00</td>
</tr>
</tbody>
</table>

**Academic Session**

<table>
<thead>
<tr>
<th>Academic Session</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Session:</td>
<td>DO NOT USE IN CATALOG</td>
<td></td>
</tr>
</tbody>
</table>

**Attempted Hours Earned Hours GPA Total Points GPA Hours**

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>3.00</td>
<td>1.00</td>
<td>3.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Academic Session**

<table>
<thead>
<tr>
<th>Academic Session</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Session:</td>
<td>Fall 1999 Description 200010</td>
<td></td>
</tr>
</tbody>
</table>

**Major:** Anthropology

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.00</td>
<td>6.00</td>
<td>3.50</td>
<td>6.00</td>
<td>6.00</td>
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</tbody>
</table>
This sample shows the formatted output (continued).

<table>
<thead>
<tr>
<th>Courses</th>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>1030</td>
<td>College Algebra</td>
<td>B</td>
<td>3.00</td>
<td>9.00</td>
</tr>
<tr>
<td>ART</td>
<td>1100</td>
<td>Introduction to Art</td>
<td>A</td>
<td>3.00</td>
<td>12.00</td>
</tr>
</tbody>
</table>

*Academic Session*
*Session: Fall 2004 (200409)*

<table>
<thead>
<tr>
<th>Major</th>
<th>Anthropology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attempted Hours Earned Hours GPA Total Points GPA Hours</td>
<td>17.00 17.00 3.41 17.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Courses</th>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>510</td>
<td>Poetry of Wm Yeats</td>
<td>A</td>
<td>3.00</td>
<td>12.00</td>
</tr>
<tr>
<td>MATH</td>
<td>500</td>
<td>Geometry</td>
<td>A</td>
<td>4.00</td>
<td>16.00</td>
</tr>
<tr>
<td>ART</td>
<td>1100</td>
<td>Intro to Art</td>
<td>A</td>
<td>6.00</td>
<td>24.00</td>
</tr>
<tr>
<td>PHIL</td>
<td>103</td>
<td>Prin of Philosophy</td>
<td>D</td>
<td>3.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

*Academic Session*
*Session: Spring 2004*

<table>
<thead>
<tr>
<th>Major</th>
<th>Math</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attempted Hours Earned Hours GPA Total Points GPA Hours</td>
<td>8.00 8.00 3.00 8.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Courses</th>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL</td>
<td>234</td>
<td>18th Cent Phil</td>
<td>B</td>
<td>5.00</td>
<td>15.00</td>
</tr>
<tr>
<td>PSYC</td>
<td>501</td>
<td>Psych Masters</td>
<td>B</td>
<td>0.00</td>
<td>9.00</td>
</tr>
</tbody>
</table>
### Academic Session

**Student Level:** College Sophomore  
**Session:** Spring 2005 (200520)

| Concentration | Art History  
| Major | Anthropology  
| Minor | Psychology

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

### Courses

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC</td>
<td>501 Psych Masters</td>
<td>A</td>
<td>0.00</td>
<td>12.00</td>
</tr>
</tbody>
</table>

### Academic Session

**Student Level:** College Sophomore  
**Session:** Fall 2005-2006

| Concentration | Art History  
| Major | Anthropology  
| Minor | Psychology

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>3.00</td>
<td>2.00</td>
<td>3.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

### Courses

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC</td>
<td>103 Traditional Dance</td>
<td>C</td>
<td>3.00</td>
<td>6.00</td>
</tr>
</tbody>
</table>

### Academic Session

**Student Level:** College Sophomore  
**Session:** Fall 2006
### Transmission Data

**TRANSMISSION DATA**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Document Type</td>
<td>RequestedRecord</td>
</tr>
<tr>
<td>Transmission Type</td>
<td>Original</td>
</tr>
</tbody>
</table>

**Source:** BANNER University  
**Contact Information:**  
Systems & Computer Technology  
Four Country View Road  
Great Valley Corporate Center  
Malvern  
**Phone:** 215 6475930

**Destination:** Western Washington University  
**Contact Information:**  
516 High Street  
Bellingham 98225  
**Phone:**

<table>
<thead>
<tr>
<th>Document Process Code</th>
<th>PRODUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Document Official Code</td>
<td>Official</td>
</tr>
<tr>
<td>Document Complete Code</td>
<td>Complete</td>
</tr>
</tbody>
</table>

### Transcript Data

**Student Information**

<table>
<thead>
<tr>
<th>Composite Name</th>
<th>Williams, Ron</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Name</td>
<td>Ron Williams JR</td>
</tr>
<tr>
<td>ID</td>
<td>RON</td>
</tr>
</tbody>
</table>

**Address:**

**High School:**

**Email:**

### Academic Record Data

**Academic Record**

<table>
<thead>
<tr>
<th>Academic Award Type</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
</table>

**Major:** Anthropology

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>3.00</td>
<td>3.00</td>
<td>9.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Academic Summary Type:** All  
**Major:** Math  
**Academic Summary Level:** LowerDivision
This sample shows the formatted output (continued).

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>3.00</td>
<td>2.00</td>
<td>6.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Academic Record**

- **Data Academic Record**
- **Academic Summary Type**: SenderOnly
- **Academic Summary Level**: LowerDivision

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>3.00</td>
<td>2.00</td>
<td>6.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Academic Session**

- **Session**: Fall 2004 (200409)

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Courses**

- **Subject**: PHIL
- **Course Title**: Intermediate Phil
- **Grade**: B
- **Credit Hours**: 3.00
- **Quality Points**: 9.00

**Academic Session**

- **Session**: Fall 2005-2006

**Major**: Math

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>3.00</td>
<td>2.00</td>
<td>3.00</td>
<td></td>
</tr>
</tbody>
</table>

**Courses**

- **Subject**: ART
- **Course Title**: Art History
- **Grade**: C
- **Credit Hours**: 3.00
- **Quality Points**: 6.00

**Academic Session**

- **Session**: Fall 2005-2006

Connected.
PESC/XML Transcript Import Process (SHRPESI)

Description

This Java process is used to import XML transcript files into an institution from other institutions. It reads files from a server, loads them to a temporary table, renames the files (.old), and then loads the data to Banner using rules set up on STVDSTS.

The process checks for duplicate records in Banner. The duplicate records will be noted in the .lis file by file name, document ID, Banner document sequence number, and the message: Document has already been processed. New records will be loaded with the same information as above, but the message will read Transcript Document Imported.

New records can be viewed and routed on SHAEDIS before they are imported. Matched records can be processed and verified using GOAMTCH and then articulated using SHATAEQ. The decision to load transcripts can also be made on SHATAEQ.

Note: Data is imported into existing Banner EDI tables. Additional UDE (User-Defined Extensions) data is imported into new tables based on code written by the institution.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run in Sleep/Wake Mode</td>
<td>Yes</td>
<td>Enter Y to run the process in sleep/wake mode or N to not use this option. The default is N.</td>
<td>Y Run in sleep/wake mode N Do not use sleep/wake</td>
</tr>
<tr>
<td>Sleep/Wake Interval</td>
<td>Yes</td>
<td>Enter the time in seconds for the sleep/wake interval. Valid values are 0-99999. The default is 60.</td>
<td></td>
</tr>
<tr>
<td>XML File Directory</td>
<td>No</td>
<td>Enter the name of the absolute directory from which the XML files are pulled. The $DATA_HOME directory is used if no value is entered.</td>
<td></td>
</tr>
</tbody>
</table>
Report Sample—PESC/XML Transcript Import Process (SHRPESI)

This sample shows the report output.

May 3, 2006 11:14:17 AM

BANNER System Test
PESC/XML Import Process
SHRPESI
Page 1

<table>
<thead>
<tr>
<th>Filename</th>
<th>Document ID</th>
<th>Banner Doc Seq Number</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>pescxmlexport_21350_1.xml</td>
<td>SCTXML2006-04-25T16:2 1:42.85</td>
<td>6</td>
<td>Transcript Document Imported</td>
</tr>
<tr>
<td>pescxmlexport_21396_1.xml</td>
<td>SCTXML2006-04-26T15:1 8:27.32</td>
<td>7</td>
<td>Transcript Document Imported</td>
</tr>
<tr>
<td>pescxmlexport_21421_1.xml</td>
<td>SCTXML2006-04-27T10:5 2:50.48</td>
<td>8</td>
<td>Transcript Document Imported</td>
</tr>
<tr>
<td>pescxmlexport_21421_1.xml</td>
<td>SCTXML2006-04-27T10:5 2:56.37</td>
<td>9</td>
<td>Transcript Document Imported</td>
</tr>
<tr>
<td>pescxmlexport_21557_1.xml</td>
<td>SCTXML2006-04-28T15:4 7:57.38</td>
<td>10</td>
<td>Transcript Document Imported</td>
</tr>
</tbody>
</table>

May 3, 2006 11:14:17 AM

ERROR: CONTROL SUMMARY

PROGRAM NAME: SHRPESI
PROGRAM VERSION: 7.3
XML File Path: /u01/s7s70/jobsub/systest23/

Documents Processed: 5

Parameter Description | Parameter Value
----------------------|------------------
SLEEP WAKE INDICATOR: | N
SLEEP WAKE INTERVAL:  | 60
XML File Path:        | /u01/s7s70/jobsub/systest23
Connected.            |
This sample shows the log file.

2006-05-03 11:14:16,853 DEBUG [main] - Batch resources initialized
2006-05-03 11:14:16,885 DEBUG [main] - Enabling Banner batch privileges for job SHRPEI
2006-05-03 11:14:17,157 DEBUG [main] - Retrieving Jobsub parameters for job number 21746
2006-05-03 11:14:17,178 DEBUG [main] - Dumping job parameters
2006-05-03 11:14:17,179 DEBUG [main] - 03 = /u01/s7s70/jobsub/systest23
2006-05-03 11:14:17,179 DEBUG [main] - 02 = 60
2006-05-03 11:14:17,180 DEBUG [main] - 01 = N
2006-05-03 11:14:17,264 DEBUG [main] - DB_NAME=s7s70
2006-05-03 11:14:17,264 DEBUG [main] - DB_DOMAIN=null
2006-05-03 11:14:17,265 DEBUG [main] - OS_USER=jobs7s70
2006-05-03 11:14:17,266 DEBUG [main] - SESSION_USER=SYSTEST23
2006-05-03 11:14:17,368 DEBUG [main] - getting inst title
2006-05-03 11:14:17,368 DEBUG [main] - assigning string to title variable
2006-05-03 11:14:17,390 DEBUG [main] - jobname=SHRPESI
2006-05-03 11:14:17,391 DEBUG [main] - jobnumber=21746
2006-05-03 11:14:17,392 DEBUG [main] - xml filepath parm=/u01/s7s70/jobsub/systest23
2006-05-03 11:14:17,392 DEBUG [main] - sleep/wake parm=N
2006-05-03 11:14:17,393 DEBUG [main] - sleep/wake interval=60
2006-05-03 11:14:17,394 DEBUG [main] - in loop done SleepWake=true
2006-05-03 11:14:17,440 DEBUG [main] - encryptAndFtp usePGP=N
2006-05-03 11:14:17,449 DEBUG [main] - importing from file /u01/s7s70/jobsub/systest23/pescxmlexport_21350_1.xml
2006-05-03 11:14:17,451 DEBUG [main] - Parsing xml file /u01/s7s70/jobsub/systest23/pescxmlexport_21350_1.xml
2006-05-03 11:14:17,460 DEBUG [main] - currline=<xml version="1.0" encoding="UTF-8">
2006-05-03 11:14:17,460 DEBUG [main] - first part=xml ver
This sample shows the log file, continued.

2006-05-03 11:14:23,057 DEBUG [main] - loadAcademicRecSummaryData docSeqMbr=6 gpaSeqNbr=3 SummaryType=All SummaryLevel=LowerDivision
2006-05-03 11:14:23,127 DEBUG [main] - loadAcademicRecSummaryData docSeqMbr=6 gpaSeqNbr=4 SummaryType=SenderOnly SummaryLevel=LowerDivision
2006-05-03 11:14:23,668 DEBUG [main] - have courses to load. calling loadCourseData
2006-05-03 11:14:24,572 DEBUG [main] - loading AcademicSession SessionName=Spring 2002 (200220) SessionDesignator=2002-01 SessionType=SummerSession
2006-05-03 11:14:24,713 DEBUG [main] - have courses to load. calling loadCourseData
2006-05-03 11:14:24,838 DEBUG [main] - loading AcademicSession SessionName=Spring 2005 SessionDesignator=2005-01 SessionType=SummerSession
2006-05-03 11:14:24,864 DEBUG [main] - have courses to load. calling loadCourseData
2006-05-03 11:14:25,111 DEBUG [main] - writing doc image clob parameter
2006-05-03 11:14:25,153 DEBUG [main] - writing clob parameter
2006-05-03 11:14:26,329 DEBUG [main] - before renaming file to old xmlFileErrFlag=false
2006-05-03 11:14:26,354 DEBUG [main] - parsing xml file /u01/s7s70/jobsub/systest23/pescxmlexport_21396_1.xml
This sample shows the log file, continued.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Level</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006-05-03</td>
<td>11:14:26</td>
<td>DEBUG</td>
<td>loading AcademicSession SessionName=MT's Fall Term - 200341 SessionDesignator=2002-09 SessionType=SummerSession</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:26</td>
<td>DEBUG</td>
<td>have courses to load. calling loadCourseData</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:26</td>
<td>DEBUG</td>
<td>have courses to load. calling loadCourseData</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:27</td>
<td>DEBUG</td>
<td>Last step of transcript, writing document image, transcript and status record</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:26</td>
<td>DEBUG</td>
<td>writing doc image clob parameter</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:27</td>
<td>DEBUG</td>
<td>updating ImportStatus method</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:27</td>
<td>DEBUG</td>
<td>SourceOrgIDValue=null SourceOrgIDType=UP DocStatus=P</td>
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<td>11:14:27</td>
<td>DEBUG</td>
<td>after processed document errFlag=false docProcessed=false xmlFileErrFlag=false file=pescxmlexport_21396_1.xml</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:27</td>
<td>DEBUG</td>
<td>before renaming file to old xmlFileErrFlag=false</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:27</td>
<td>DEBUG</td>
<td>importing from file /u01/s7s70/jobsub/systest23/pescxmlexport_21421_1.xml</td>
</tr>
<tr>
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<td>11:14:27</td>
<td>DEBUG</td>
<td>Parsing xml file /u01/s7s70/jobsub/systest23/pescxmlexport_21421_1.xml</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:27</td>
<td>DEBUG</td>
<td>currline=&lt;xml version=&quot;1.0&quot; encoding=&quot;UTF-8&quot;&gt;</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:27</td>
<td>DEBUG</td>
<td>first part=urn:AcademicRecordBatch</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:27</td>
<td>DEBUG</td>
<td>xmlDoc=&lt;?xml version=&quot;1.0&quot; encoding=&quot;UTF-8&quot;?&gt;&lt;urn:AcademicRecordBatch...[omitted for brevity]</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>first cursor first child name={urn:org:pesc:message:AcademicRecordBatch:v1.0.0}AcademicRecordBatch</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>first cursor to child name={urn:org:pesc:message:CollegeTranscript:v1.0.0}CollegeTranscript</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>sibling name={urn:org:pesc:message:CollegeTranscript:v1.0.0}CollegeTranscript</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>Number of college transcripts in batch = 2</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>processing document number 0</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>RequestedRecord document</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>docseqno = 4</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>after Import Transmission Data sourceIDType=UP sourceIDValue=null sourceOrgName=BANNER System Test</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>loadAcademicRecSummaryData docSeqMbr=8 gpaSeqNbr=1 SummaryType=All SummaryLevel=Graduate</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>loadAcademicRecSummaryData docSeqMbr=8 gpaSeqNbr=2 SummaryType=SenderOnly SummaryLevel=Graduate</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>loadAcademicRecSummaryData docSeqMbr=8 gpaSeqNbr=3 SummaryType=All SummaryLevel=LowerDivision</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>loadAcademicRecSummaryData docSeqMbr=8 gpaSeqNbr=4 SummaryType=SenderOnly SummaryLevel=LowerDivision</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>loading AcademicSession SessionName=Fall 2000 - 200110 SessionDesignator=2000-09 SessionType=SummerSession</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>have courses to load. calling loadCourseData</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>loading AcademicSession SessionName=Spring 2002 (200220) SessionDesignator=2002-01 SessionType=SummerSession</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>have courses to load. calling loadCourseData</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>loading AcademicSession SessionName=MT's Fall Term - 200341 SessionDesignator=2002-09 SessionType=SummerSession</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>have courses to load. calling loadCourseData</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>loading AcademicSession SessionName=Spring 2005 SessionDesignator=2005-01 SessionType=SummerSession</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>have courses to load. calling loadCourseData</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>loading AcademicSession SessionName=MT's Fall Term - 200341 SessionDesignator=2002-09 SessionType=SummerSession</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:28</td>
<td>DEBUG</td>
<td>have courses to load. calling loadCourseData</td>
</tr>
</tbody>
</table>
This sample shows the log file, continued.
This sample shows the log file, continued.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Level</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>after import Transmission Data sourceIDType=null sourceIDValue=null sourceOrgName=BANNER System Test</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>loadAcademicRecSummaryData docSeqMbr=10 gpaSeqNbr=1 SummaryType=All SummaryLevel=Graduate</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>loadAcademicRecSummaryData docSeqMbr=10 gpaSeqNbr=2 SummaryType=SenderOnly SummaryLevel=Graduate</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>loadAcademicRecSummaryData docSeqMbr=10 gpaSeqNbr=3 SummaryType=All SummaryLevel=LowerDivision</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>loadAcademicRecSummaryData docSeqMbr=10 gpaSeqNbr=4 SummaryType=SenderOnly SummaryLevel=LowerDivision</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>have courses to load, calling loadCourseData</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>loading AcademicSession SessionName=Spring 2002 (200220) SessionDesignator=2002-01 SessionType=SummerSession</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>have courses to load, calling loadCourseData</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>loading AcademicSession SessionName=MT’s Fall Term - 200341 SessionDesignator=2002-09 SessionType=SummerSession</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>have courses to load, calling loadCourseData</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:29</td>
<td>DEBUG</td>
<td>Last step of transcript, writing document image, transcript and status record</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>DEBUG</td>
<td>writing clob parameter</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>DEBUG</td>
<td>updateImportStatus method</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>DEBUG</td>
<td>SourceOrgIDValue=null SourceOrgIDType=null DocStatus=P</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>DEBUG</td>
<td>after processed document errFlag=false docProcessed=false xmlFileErrFlag=false file=pescxmlexport_21557_1.xml</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>DEBUG</td>
<td>getting inst title</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>DEBUG</td>
<td>assigning string to title variable</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>DEBUG</td>
<td>before renaming file to old xmlFileErrFlag=false</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>DEBUG</td>
<td>assigning string to title variable</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>DEBUG</td>
<td>SHRPESI completed processing - Memory usage 9MB</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>INFO</td>
<td>**** SHRPESI completed successfully ****</td>
</tr>
<tr>
<td>2006-05-03</td>
<td>11:14:30</td>
<td>DEBUG</td>
<td>Skipping JobSub.removeJobParameters</td>
</tr>
</tbody>
</table>

Connected.
This sample shows the formatted output. This has the same order as the formatted output for SHRPESE, except the Source and Destination information is reversed.

Transmission Data
TRANSMISSION DATA
Document Creation : 2006-08-23T13:21:40.42
Document Type : RequestedRecord
Transmission Type : Original
Destination : Villanova University
Contact Information : 800 Lancaster Avenue
Villanova 19085
Phone :
Source : BANNER University
Contact Information :
Systems & Computer Technology
Four Country View Road
Great Valley Corporate Center
Malvern
Phone : 215 6475930
Document Process Code : PRODUCTION
Document Official Code : Official
Document Complete Code : Complete

Transcript Data
Student Information
Composite Name : Potter, Henry Z
Full Name : Henry Potter I
ID : HPOTTER
Birth Date : 111222333
Address : 123 Mailing Street
Bannerland PA 19345
High School :
Email :

Academic Record Data
Academic Record
Academic Summary Type : All
Major : Anthropology
Academic Summary Level : Graduate
Attempted Hours Earned Hours GPA Total Points GPA Hours
2.00 2.00 1.00 2.00 2.00

Academic Record Data
Academic Record
Academic Summary Type : SenderOnly
Academic Summary Level : Graduate
This sample shows the formatted output (continued).

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00</td>
<td>2.00</td>
<td>1.00</td>
<td>2.00</td>
<td>2.00</td>
</tr>
</tbody>
</table>

**Academic Session**

**Academic Session**

Session: DO NOT USE IN CATALOG

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00</td>
<td>2.00</td>
<td>1.00</td>
<td>2.00</td>
<td>2.00</td>
</tr>
</tbody>
</table>

**Academic Record Data**

**Academic Record**

**Academic Award Type:** Bachelor of Arts

**Major:** Anthropology

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00</td>
<td>5.00</td>
<td>3.00</td>
<td>15.00</td>
<td>5.00</td>
</tr>
</tbody>
</table>

**Academic Award Type:** Bachelor of Arts

**Major:** Anthropology

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.00</td>
<td>3.00</td>
<td>2.00</td>
<td>6.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Academic Summary Type:** All

**Major:** Anthropology

**Academic Summary Level:** LowerDivision

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.00</td>
<td>41.00</td>
<td>3.05</td>
<td>125.00</td>
<td>41.00</td>
</tr>
</tbody>
</table>

**Academic Record Data**

**Academic Record**

**Academic Summary Type:** TransferOnly

**Academic Summary Level:** LowerDivision

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.00</td>
<td>4.00</td>
<td>3.25</td>
<td>13.00</td>
<td>4.00</td>
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</table>

**Academic Session**

**Academic Session**

Session:

<table>
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<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>
This sample shows the formatted output (continued).

<table>
<thead>
<tr>
<th>Courses</th>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ART</td>
<td>101</td>
<td>A</td>
<td>3.00</td>
<td>12.00</td>
</tr>
</tbody>
</table>

**Academic Session**

**Academic Session**

Session: DO NOT USE IN CATALOG

**Academic Session**

Session: Fall 2004

**Academic Session**

Session: Spring 2004

**Academic Session**

Session: Spring 2005

**Academic Record Data**

**Academic Record**

Academic Summary Type: SenderOnly

Academic Summary Level: LowerDivision

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>40.00</td>
<td>37.00</td>
<td>3.03</td>
<td>112.00</td>
<td>37.00</td>
</tr>
</tbody>
</table>

**Academic Session**

Session: DO NOT USE IN CATALOG

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>3.00</td>
<td>1.00</td>
<td>6.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Academic Session**

Session: Fall 1999 Description 200010

<table>
<thead>
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</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.00</td>
<td>6.00</td>
<td>3.50</td>
<td>6.00</td>
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</tr>
</tbody>
</table>
This sample shows the formatted output (continued).

<table>
<thead>
<tr>
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<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses</td>
<td>MATH</td>
<td>1030  College Algebra</td>
<td>B</td>
<td>3.00</td>
<td>9.00</td>
</tr>
<tr>
<td>Courses</td>
<td>ART</td>
<td>1100  Introduction to Art</td>
<td>A</td>
<td>3.00</td>
<td>12.00</td>
</tr>
</tbody>
</table>

**Academic Session**

**Session:** Fall 2004 (200409)

**Major:** Anthropology

<table>
<thead>
<tr>
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<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.00</td>
<td>17.00</td>
<td>3.41</td>
<td>17.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Courses</th>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses</td>
<td>ENGL</td>
<td>510   Poetry of Wm Yeats</td>
<td>A</td>
<td>3.00</td>
<td>12.00</td>
</tr>
<tr>
<td>Courses</td>
<td>MATH</td>
<td>500   Geometry</td>
<td>A</td>
<td>4.00</td>
<td>16.00</td>
</tr>
<tr>
<td>Courses</td>
<td>ART</td>
<td>1100  Intro to Art</td>
<td>A</td>
<td>6.00</td>
<td>24.00</td>
</tr>
<tr>
<td>Courses</td>
<td>PHIL</td>
<td>103   Prin of Philosophy</td>
<td>D</td>
<td>3.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Academic Session**

**Session:** Spring 2004

**Student Level:** College Sophomore

**Major:** Math

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.00</td>
<td>8.00</td>
<td>3.00</td>
<td>8.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Courses</th>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses</td>
<td>PHIL</td>
<td>234   18th Cent Phil</td>
<td>B</td>
<td>5.00</td>
<td>15.00</td>
</tr>
<tr>
<td>Courses</td>
<td>PSYC</td>
<td>501   Psych Masters</td>
<td>B</td>
<td>0.00</td>
<td>9.00</td>
</tr>
</tbody>
</table>
This sample shows the formatted output (continued).

<table>
<thead>
<tr>
<th>Academic Session</th>
<th>Academic Session</th>
<th>Student Level: College Sophomore</th>
<th>Session: Spring 2005 (200520)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration:</td>
<td>Art History</td>
<td>Concentration: Accounting</td>
<td>Major: Anthropology</td>
</tr>
<tr>
<td>Minor:</td>
<td>Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attempted Hours</td>
<td>3.00</td>
<td>Earned Hours: 0.00</td>
<td>GPA Total Points: 0.00</td>
</tr>
<tr>
<td>GPA Hours:</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Courses**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC</td>
<td>501    Psych Masters</td>
<td>A</td>
<td>0.00</td>
<td>12.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Academic Session</th>
<th>Academic Session</th>
<th>Student Level: College Sophomore</th>
<th>Session: Fall 2005-2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration:</td>
<td>Art History</td>
<td>Concentration: Accounting</td>
<td>Major: Anthropology</td>
</tr>
<tr>
<td>Minor:</td>
<td>Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attempted Hours</td>
<td>3.00</td>
<td>Earned Hours: 3.00</td>
<td>GPA Total Points: 2.00</td>
</tr>
<tr>
<td>GPA Hours:</td>
<td>3.00</td>
<td>3.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Courses**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC</td>
<td>103    Traditional Dance</td>
<td>C</td>
<td>3.00</td>
<td>6.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Academic Session</th>
<th>Academic Session</th>
<th>Student Level: College Sophomore</th>
<th>Session: Fall 2006</th>
</tr>
</thead>
</table>
This sample shows the formatted output (continued).

Transmission Data
TRANSMISSION DATA
Document Type : RequestedRecord
Transmission Type : Original
Destination : Western Washington University
Contact Information :
516 High Street
Bellingham 98225
Phone :
Source : BANNER University
Contact Information :
Systems & Computer Technology
Four Country View Road
Great Valley Corporate Center
Malvern
Phone : 215 6475930
Document Process Code : PRODUCTION
Document Official Code : Official
Document Complete Code : Complete

Transcript Data
Student Information
Composite Name : Williams, Ron
Full Name : Ron Williams JR
ID : RON
Birth Date :
SSN :
Address :
High School :
Email :
Academic Record Data
Academic Record
Academic Award Type : Bachelor of Arts
Major : Anthropology
Attempted Hours Earned Hours GPA Total Points GPA Hours
3.00 3.00 3.00 9.00 3.00

Academic Summary Type : All
Major : Math
Academic Summary Level : LowerDivision
This sample shows the formatted output (continued).

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>3.00</td>
<td>2.00</td>
<td>6.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Academic Record**
Data Academic Record
Academic Summary Type: SenderOnly
Academic Summary Level: LowerDivision

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>3.00</td>
<td>2.00</td>
<td>6.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Academic Session**
Academic Session
Session: Fall 2004 (200409)

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Courses**
Subject Course Title | Grade | Credit | Hours | Quality Points |
PHIL 501 Intermediate Phil | B | 3.00 | 9.00 |

**Academic Session**
Academic Session
Session: Fall 2005-2006

**Major**: Math

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>Earned Hours</th>
<th>GPA</th>
<th>Total Points</th>
<th>GPA Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>3.00</td>
<td>2.00</td>
<td>3.00</td>
<td></td>
</tr>
</tbody>
</table>

**Courses**
Subject Course Title | Grade | Credit | Hours | Quality Points |
ART 331 Art History | C | 3.00 | 6.00 |

**Academic Session**
Academic Session
Session: Fall 2005-2006

Connected.
Enrollment Status Code Validation Table (STVESTS)

One new column has been added to this table for reporting withdrawn students to the NCS and NSLDS.

**STVESTS_THIRD_PARTY_WD_IND VARCHAR2(1)**

The comment on column is: THIRD PARTY REPORT WITHDRAWAL INDICATOR: Indicates whether the student will be reported as withdrawn by the Clearinghouse Extract Process and the NSLDS SSCR Process.

Scripts are delivered to set the column equal to the **STVESTS_WD_IND** indicator and to alter the column to **NOT NULL**.

Leave of Absence Code Validation Table (STVLEAV)

One new column has been added to this table for reporting leave of absence data to the NCS and NSLDS.

**STVLEAV_THIRD_PARTY_REPORT_IND VARCHAR2(1)**

The comment on column is: THIRD PARTY REPORT INDICATOR: Indicates whether this leave code will be used by the Clearinghouse Extract Process and the NSLDS SSCR Process.

Scripts are delivered to set the column equal to **Y** and to alter the column to **NOT NULL**.

Course Registration Status Code Validation Table (STVRSTS)

Two new columns have been added to this table for use with attempted hours and time status tracking.

**STVRSTS_ATTEMPT_HR_IND VARCHAR2(1)**
**STVRSTS_INCL_TMST_IND VARCHAR2(1)**
The comments on column are:

- ATTEMPTED HOURS INDICATOR: Indicates whether the student’s hours for this section are included in attempted hours. If unchecked, attempted hours default to 0 for this registration.
- INCLUDE IN TIME STATUS INDICATOR: Indicates whether the registration attempted hours are included in the student’s time status calculation. If unchecked, this section is not included in the calculation.

Scripts are delivered to set both columns equal to the `STVRSTS_INCL_SECT_ENRL` indicator and to alter the columns to `NOT NULL`.

**Student Course Registration Archive Table (SFRSTCA)**

One new column has been added to this table to track a student’s attempted hours for a section. The attempted hours are populated by the existing `SFRSTCR_CREDIT_HRS_HOLD` value when the `STVRSTS_ATTEMPTED_HRS_IND` column is set to `Y`.

```sql
SFRSTCA_ATTEMPT_HR NUMBER(7,3)
```

The comment on column is: REGISTRATION ATTEMPTED HOURS: This field stores the number of attempted hours for this student for this section.

**Institutional Courses Grade Repeating Table (SHRTCKG)**

One new column has been added to this table to track the institutional course attempted hours from registration.

```sql
SHRTCKG_HOURS_ATTEMPTED NUMBER(7,3)
```

The comment on column is: HOURS ATTEMPTED: The institutional course attempted hours associated with the grade of the course.

**Changed Packages/Procedures**

**SFKFUN1**

The package has been modified as to how the time status calculation is performed.

The `p_calc_tmst` procedure has been updated to use the setting of the new `STVRSTS_INCL_TMST_IND` column to determine if the `SFRSTCR_CREDIT_HR_HOLD` value or 0 hours should be used in the time status calculation.
**SFKMOD1**

This package has been modified for attempted hours processing in registration.

- The `p_insert_sfrstca` procedure has been updated to use the new `SFRSTCA_ATTEMPT_HR` column.
- The `p_regatrail_insert` procedure has been updated to use the setting of the new `STVRSTS_ATTEMPT_HR_IND` column to determine if the `SFTREGS_CREDIT_HR_HOLD` value or 0 hours should be written to the new `SFRSTCA_ATTEMPT_HR` column.

**SHKCGPA**

This package has been modified for attempted hours processing with GPA calculation.

The `p_term_gpa`, `p_subj_gpa`, `p_degr_gpa`, `p_termlevl_gpa`, and `p_termcamp_gpa` procedures have been updated to use the new `SHRTCKG_HOURS_ATTEMPTED` column in the GPA calculation.

**Note:** The actual GPA calculations have not changed, only the way attempted hours are accumulated has changed.

**SHKMOD1**

This package has been modified for attempted hours processing in academic history.

The `p_insert_shrtckg` procedure has been updated to use the new `SHRTCKG_HOURS_ATTEMPTED` column.

**SHKROL1**

This package has been updated to roll attempted hours for individual courses into Academic History with the grade roll.

- The `p_process_graderoll` procedure has been updated to insert the attempted hours into `SHRTCKG` during the grade roll.
- The `p_get_student_course` procedure has been updated to determine whether the `SFRSTCR_CREDIT_HR_HOLD` value or 0 hours should be rolled to the `SHRTCKG_HOURS_ATTEMPTED` column.
SOKWEX1

This package has been modified as to the calculation of attempted hours in academic history.

The `p_buildsotwreg` and `p_getdegreegpa` procedures have been modified to use the new `SHRTCKG_HOURS_ATTEMPTED` value in the GPA calculation.

**Note:** The actual GPA calculations have not changed, only the way attempted hours are accumulated has changed.

### Changed Registration Audit Triggers

The database triggers on the SFRSTCR and SFTREGS tables have been modified to include the new `SFRSTCA_ATTEMPT_HR` field when registration audit records are inserted.

The following triggers have been updated:

- `st_sfrstcr_post_insert_row`
- `st_sfrstcr_post_update_row`
- `st_sfrstcr_post_delete_row`
- `st_sftregs_post_insert_row`
- `st_sftregs_post_update_row`
- `st_sftregs_post_delete_row`

Scripts are delivered to update the triggers.

### New Scripts

#### Scripts for Changed Registration Audit Triggers

<table>
<thead>
<tr>
<th>Script</th>
<th>Table</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sftstcr0.sql</td>
<td>SFTSTCR</td>
<td>Add SFRSTCA_ATTEMPT_HR field to <code>st_sfrstcr_post_insert_row</code></td>
</tr>
<tr>
<td>sftstcr1.sql</td>
<td>SFTSTCR</td>
<td>Add SFRSTCA_ATTEMPT_HR field to <code>st_sfrstcr_post_update_row</code></td>
</tr>
</tbody>
</table>
### Scripts for Changed Tables

<table>
<thead>
<tr>
<th>Script</th>
<th>Table</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sfrstca1.sql</td>
<td>SFRSTCA</td>
<td>Adds SFRSTCA_ATTEMPT_HR column</td>
</tr>
<tr>
<td>sfrstca2.sql</td>
<td>SFRSTCA</td>
<td>Adds comment for new column</td>
</tr>
<tr>
<td>shrtckg1.sql</td>
<td>SHRTCKG</td>
<td>Adds SHRTCKG_HOURS_ATTEMPTED column</td>
</tr>
<tr>
<td>shrtckg2.sql</td>
<td>SHRTCKG</td>
<td>Adds comment for new column</td>
</tr>
<tr>
<td>stvests1.sql</td>
<td>STVESTS</td>
<td>Adds STVESTS_THIRD_PARTY_WD_IND column</td>
</tr>
<tr>
<td>stvests2.sql</td>
<td>STVESTS</td>
<td>Adds comment for new column</td>
</tr>
<tr>
<td>stvests3.sql</td>
<td>STVESTS</td>
<td>Initializes indicator and sets equal to STVESTS_WD_IND</td>
</tr>
<tr>
<td>stvests4.sql</td>
<td>STVESTS</td>
<td>Sets indicator to NOT NULL</td>
</tr>
<tr>
<td>stvleav1.sql</td>
<td>STVLEAV1</td>
<td>Adds STVLEAV_THIRD_PARTY_REPORT_IND column</td>
</tr>
<tr>
<td>stvleav2.sql</td>
<td>STVLEAV1</td>
<td>Adds comment for new column</td>
</tr>
<tr>
<td>stvleav3.sql</td>
<td>STVLEAV1</td>
<td>Initializes indicator and sets to Y</td>
</tr>
<tr>
<td>stvleav4.sql</td>
<td>STVLEAV1</td>
<td>Sets indicator to NOT NULL</td>
</tr>
<tr>
<td>stvrsts1.sql</td>
<td>STVRSTS</td>
<td>Adds STVRSTS_ATTEMPT_HR_IND and STVRSTS_INCL_TMST_IND columns</td>
</tr>
<tr>
<td>stvrsts2.sql</td>
<td>STVRSTS</td>
<td>Adds comments for new columns</td>
</tr>
<tr>
<td>Script</td>
<td>Table</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>--------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>stvrsts3.sql</td>
<td>STVRSTS</td>
<td>Initializes both indicators and sets them equal to STVRSTS_INCL_SECT_ENRL</td>
</tr>
<tr>
<td>stvrsts4.sql</td>
<td>STVRSTS</td>
<td>Sets both indicators to \textit{NOT NULL}</td>
</tr>
</tbody>
</table>
User Curriculum Default Table (SORLCDF)

This table is used to hold the default values for an individual. For example, the user may need to always insert a campus code of $M$ when a curriculum record is created. The online data entry processes use these values as default values when a new record is created using the Key-Create or Key-Next Record functions. The default values are also used when a record is inserted for a new host record and when the Replace button in the Curriculum window is pressed.

The curriculum values from this table will not be used if there are curriculum values in the SRAQUIK default values, or in the SAAQKER curriculum default values for SAAQUIK. Those values will always take precedence.

The major and department will always be defaulted into the primary major when a new curriculum is inserted. Otherwise, they will be defaulted in when the field of study type is MAJOR.

The Primary Key to this table is the USER ID and the learner module code. The user is required to enter default values for each learner module, as different values may be required.

The following columns are in this table:

- **SORLCDF_USER_ID**: NOT NULL VARCHAR2(30)
- **SORLCDF_LMOD_CODE**: NOT NULL VARCHAR2(30)
- **SORLCDF_CAMP_CODE**: VARCHAR2(3)
- **SORLCDF_COLL_CODE**: VARCHAR2(2)
- **SORLCDF_LEVL_CODE**: VARCHAR2(2)
- **SORLCDF_PROGRAM**: VARCHAR2(12)
- **SORLCDF_DEGC_CODE**: VARCHAR2(6)
- **SORLCDF_MAJR_CODE**: VARCHAR2(4)
- **SORLCDF_DEPT_CODE**: VARCHAR2(4)
- **SORLCDF_ACTIVITY_DATE**: NOT NULL DATE
- **SORLCDF_DATA_ORIGIN**: NOT NULL VARCHAR2(30)

The comments on column are:

- **USER ID**: The Oracle user ID of the user to which the curriculum preferences belong.
- **LEARNER MODULE CODE**: Learner module code for the curriculum preferences.
- **CAMPUS CODE**: Campus code for the curriculum user preference.
- **COLLEGE CODE**: College code for the curriculum user preference.
- **LEVEL CODE**: Level code for the curriculum user preference.
- **PROGRAM**: Program for the curriculum user preference.
- **DEGREE CODE**: Degree code for the curriculum user preference.
- **MAJOR CODE**: Primary major field of study code for the curriculum user preference.
- **DEPARTMENT CODE**: Department code for the primary major for the curriculum user preference.
- **ACTIVITY DATE**: Most current date record was created or changed.
- **DATA ORIGIN**: Source system that created or updated the row.

**Curriculum Status Events Table (SORCSTS)**

This table is used to store the curriculum status events and the user-preferred translations for the value of the curriculum status code (STVCSTS). Previously, the events were stored in GTVSDAX so that users could override the value of the curriculum status code. This data will initially be populated with the values in GTVSDAX, and all values will be system required.

The following columns are in this table:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORCSTS_CSTS_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(30)</td>
</tr>
<tr>
<td>SORCSTS_CSTS_CODE_TRN</td>
<td>NOT NULL</td>
<td>VARCHAR2(30)</td>
</tr>
<tr>
<td>SORCSTS_ACTIVITY_DATE</td>
<td>NOT NULL</td>
<td>DATE</td>
</tr>
<tr>
<td>SORCSTS_USER_ID</td>
<td>NOT NULL</td>
<td>VARCHAR2(30)</td>
</tr>
<tr>
<td>SORCSTS_DATA_ORIGIN</td>
<td>NOT NULL</td>
<td>VARCHAR2(30)</td>
</tr>
<tr>
<td>SORCSTS_SYS_REQ_IND</td>
<td>NOT NULL</td>
<td>VARCHAR2(1)</td>
</tr>
</tbody>
</table>

The comments on column are:

- **CURRICULUM STATUS**: Curriculum status code.
- **CURRICULUM STATUS TRANSLATION**: Translation value to be used instead of curriculum status value.
- **ACTIVITY DATE**: Most current date record was created or changed.
- **USER ID**: The Oracle user ID of the user who changed the record.
- **DATA ORIGIN**: Source system that created or updated the row.
- **SYSTEM REQUIRED IND**: Y/N indicator for whether the curriculum module is required.
Curriculum Archive Table (SORHCUR)

This table is used to store the non-current curriculum records that were purged using the SOPLCPG process. Users can run the purge process at the end of each term and store the audit information in a separate table, instead of keeping the information on paper or on a CD.

The following columns are in this table:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORHCUR_PIDM</td>
<td>NOT NULL</td>
<td>NUMBER(8)</td>
</tr>
<tr>
<td>SORHCUR_SEQNO</td>
<td>NOT NULL</td>
<td>NUMBER(4)</td>
</tr>
<tr>
<td>SORHCUR_LMOD_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(15)</td>
</tr>
<tr>
<td>SORHCUR_TERM_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORHCUR_KEY_SEQNO</td>
<td>NOT NULL</td>
<td>NUMBER(2)</td>
</tr>
<tr>
<td>SORHCUR_PRIORITY_NO</td>
<td>NOT NULL</td>
<td>NUMBER(4)</td>
</tr>
<tr>
<td>SORHCUR_ROLL_IND</td>
<td>NOT NULL</td>
<td>VARCHAR2(1)</td>
</tr>
<tr>
<td>SORHCUR_CACT_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(15)</td>
</tr>
<tr>
<td>SORHCUR_USER_ID</td>
<td>NOT NULL</td>
<td>VARCHAR2(30)</td>
</tr>
<tr>
<td>SORHCUR_DATA_ORIGIN</td>
<td>NOT NULL</td>
<td>VARCHAR2(30)</td>
</tr>
<tr>
<td>SORHCUR_ACTIVITY_DATE</td>
<td>NOT NULL</td>
<td>DATE</td>
</tr>
<tr>
<td>SORHCUR_LEVL_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(2)</td>
</tr>
<tr>
<td>SORHCUR_COLL_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(2)</td>
</tr>
<tr>
<td>SORHCUR_DEGC_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORHCUR_TERM_CODE_CTL</td>
<td></td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORHCUR_TERM_CODE_END</td>
<td></td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORHCUR_TERM_CODE_MATRIC</td>
<td></td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORHCUR_TERM_CODE_ADMIT</td>
<td></td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORHCUR_ADMT_CODE</td>
<td></td>
<td>VARCHAR2(2)</td>
</tr>
<tr>
<td>SORHCUR_CAMP_CODE</td>
<td></td>
<td>VARCHAR2(3)</td>
</tr>
<tr>
<td>SORHCUR_PROGRAM</td>
<td></td>
<td>VARCHAR2(12)</td>
</tr>
<tr>
<td>SORHCUR_START_DATE</td>
<td></td>
<td>DATE</td>
</tr>
<tr>
<td>SORHCUR_END_DATE</td>
<td></td>
<td>DATE</td>
</tr>
<tr>
<td>SORHCUR_CURR_RULE</td>
<td></td>
<td>NUMBER(8)</td>
</tr>
<tr>
<td>SORHCUR_ROLLED_SEQNO</td>
<td></td>
<td>NUMBER(4)</td>
</tr>
<tr>
<td>SORHCUR_STYP_CODE</td>
<td></td>
<td>VARCHAR2(1)</td>
</tr>
<tr>
<td>SORHCUR_RATE_CODE</td>
<td></td>
<td>VARCHAR2(5)</td>
</tr>
<tr>
<td>SORHCUR_LEAV_CODE</td>
<td></td>
<td>VARCHAR2(1)</td>
</tr>
<tr>
<td>SORHCUR_LEAV_FROM_DATE</td>
<td></td>
<td>DATE</td>
</tr>
<tr>
<td>SORHCUR_LEAV_TO_DATE</td>
<td></td>
<td>DATE</td>
</tr>
<tr>
<td>SORHCUR_EXP_GRAD_DATE</td>
<td></td>
<td>DATE</td>
</tr>
<tr>
<td>SORHCUR_TERM_CODE_GRAD</td>
<td></td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORHCUR_ACYR_CODE</td>
<td></td>
<td>VARCHAR2(4)</td>
</tr>
<tr>
<td>SORHCUR_SITE_CODE</td>
<td></td>
<td>VARCHAR2(3)</td>
</tr>
<tr>
<td>SORHCUR_APPL_SEQNO</td>
<td></td>
<td>NUMBER(4)</td>
</tr>
<tr>
<td>SORHCUR_APPL_KEY_SEQNO</td>
<td></td>
<td>NUMBER(2)</td>
</tr>
</tbody>
</table>

The comments on column are:

- **PIDM**: Unique internal ID for individual who has records in the system.
- **LCUR SEQNO**: Oneup number used to define the row.
- **LEARNER MODULE CODE**: Learner module code.
- **TERM CODE**: Term code.
- **KEY SEQNO**: Sequence number of key record, **SARADAP_APPL_NO**, **SRBRECR_SEQNO**, **SHRDGMR_SEQNO**.
- PRIORITY NO: Priority of the curriculum within the module.
- ROLL IND: Y/N indicator if the learner curriculum should roll to academic history when courses are rolled.
- CURRICULUM ACTIVITY STATUS: Activity status code for the curriculum.
- USER ID: The most recent user to create or update a record.
- DATA SOURCE: Source system that generated the data.
- ACTIVITY DATE: The most recent date a record was created or updated.
- LEVEL CODE: Level code of the curriculum.
- COLLEGE CODE: College code of the curriculum.
- DEGREE CODE: Degree code of the curriculum.
- TERM CATALOG: Catalog term code of the learner curriculum.
- TERM END: End term code of the curriculum.
- TERM MATRICULATED: Term code learner matriculated into the curriculum.
- TERM ADMIT: Term code learner was admitted to curriculum.
- ADMIT CODE: Admit code for the learner's admission to the curriculum.
- CAMPUS CODE: Campus code of the curriculum.
- PROGRAM: Program of the curriculum.
- START DATE: Date curriculum starts.
- END DATE: Date curriculum ends.
- CURRICULUM RULE NUMBER: Rule number of the curriculum.
- ROLLED SEQNO: Sequence number of outcome created during the grade roll.
- LEARNER TYPE: Type of student.
- RATE CODE: Fee assessment rate code.
- LEAVE CODE: Reason for the leave of absence.
- LEAVE TO DATE: End date of the leave.
- LEAVE FROM DATE: Start date of the leave.
- EXPECTED GRADUATION DATE: Date the learner is expected to graduate from the curriculum.
- EXPECTED GRADUATION TERM: Expected term the learner will graduate.
- GRADUATION ACADEMIC YEAR: Academic year for the graduation.
- LEARNER SITE: Site of student.
- APPLICATION SEQUENCE NUMBER: Sequence number of the application curriculum the learner curriculum was created from.
- APPLICATION NUMBER: Application number the learner curriculum was created from.
- KEY SEQUENCE NUMBER ROLLED: Sequence number of the application curriculum the history was rolled from.
Field of Study Archive Table (SORHFOS)

This table is used to store the field of study records that were purged using the SOPLCPG process. Field of study records will be written to this table when the curriculum record is purged using SOPLCPG and then written to SORHCUR.

The following columns are in this table:

```
<table>
<thead>
<tr>
<th>SORHFOS_PIDM</th>
<th>NOT NULL</th>
<th>NUMBER(8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORHFOS_LCUR_SEQNO</td>
<td>NOT NULL</td>
<td>NUMBER(4)</td>
</tr>
<tr>
<td>SORHFOS_SEQNO</td>
<td>NOT NULL</td>
<td>NUMBER(4)</td>
</tr>
<tr>
<td>SORHFOS_LFST_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(15)</td>
</tr>
<tr>
<td>SORHFOS_TERM_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORHFOS_PRIORITY_NO</td>
<td>NOT NULL</td>
<td>NUMBER(4)</td>
</tr>
<tr>
<td>SORHFOS_CSTS_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(15)</td>
</tr>
<tr>
<td>SORHFOS_CACT_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(15)</td>
</tr>
<tr>
<td>SORHFOS_DATA_ORIGIN</td>
<td>NOT NULL</td>
<td>VARCHAR2(30)</td>
</tr>
<tr>
<td>SORHFOS_USER_ID</td>
<td>NOT NULL</td>
<td>VARCHAR2(30)</td>
</tr>
<tr>
<td>SORHFOS_ACTIVITY_DATE</td>
<td>NOT NULL</td>
<td>DATE</td>
</tr>
<tr>
<td>SORHFOS_MAJR_CODE</td>
<td>NOT NULL</td>
<td>NUMBER(4)</td>
</tr>
<tr>
<td>SORHFOS_TERM_CODE CTLG</td>
<td></td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORHFOS_TERM_CODE END</td>
<td></td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORHFOS_DEPT_CODE</td>
<td></td>
<td>VARCHAR2(4)</td>
</tr>
<tr>
<td>SORHFOS_LFOS_RULE</td>
<td></td>
<td>NUMBER(8)</td>
</tr>
<tr>
<td>SORHFOS_CONC_ATTACH_RULE</td>
<td></td>
<td>NUMBER(8)</td>
</tr>
<tr>
<td>SORHFOS_START_DATE</td>
<td></td>
<td>DATE</td>
</tr>
<tr>
<td>SORHFOS_END_DATE</td>
<td></td>
<td>DATE</td>
</tr>
<tr>
<td>SORHFOS_TMST_CODE</td>
<td></td>
<td>VARCHAR2(2)</td>
</tr>
<tr>
<td>SORHFOS_ROLLED_SEQNO</td>
<td></td>
<td>NUMBER(4)</td>
</tr>
<tr>
<td>SORHFOS_MAJR_CODE_ATTACH</td>
<td></td>
<td>VARCHAR2(4)</td>
</tr>
</tbody>
</table>
```

The comments on column are:

- **PIDM**: Unique internal ID for individual who has records in the system.
- **CURRICULUM SEQNO**: Sequence number of the parent learner curriculum base record.
- **FIELD OF STUDY SEQNO**: Sequence number of the learner field of study.
- **FIELD OF STUDY CODE**: Field of study type code, examples are **MAJOR**, **MINOR**, **CONCENTRATION**.
- **TERM CODE**: Term code the field of study is active for.
- **PRIORITY NUMBER**: Priority number or ranking of the field of study.
- **CURRICULUM STATUS**: Status of the curriculum.
- **CURRICULUM ACTIVITY STATUS**: Curriculum activity status.
- **DATA SOURCE**: Source system that generated the data.
- **USER ID**: The most recent user to create or update a record.
- **ACTIVITY DATE**: The most recent date a record was created or updated.
- **MAJOR CODE**: Major code for the field of study.
- **CATALOG TERM CODE**: Term code identifying the catalog for the curriculum.
- **END TERM CODE**: End term code for which the curriculum is active.
DEPARTMENT CODE: Department code associated with the major field of study.

FIELD OF STUDY CURRICULUM RULE: Curriculum rule from the curriculum table.

ATTACHED MAJOR CURRICULUM RULE: Major curriculum rule from SORCCMN for concentrations attached to a major.

START DATE: Start date of the field of study.

END DATE: End date of the field of study.

TIME STATUS CODE: Time status code used to indicate the intent of the student’s pursuit of the field of study.

ROLLED SEQNO: The outcome sequence number that was created from the history roll process.

MAJOR CODE ATTACH: Major code to which the concentration is attached.

Curriculum Control Table (SOBCTRL)

This table has been modified to handle default values for the institution. These values do not include curriculum values but rather the priority and the activity status values.

All places that insert the priority number on the data entry windows will check this table for the priority number to default the appropriate value. If the curriculum or field of study is for a secondary curriculum, the incremented value will be used to calculate the priority value. The maximum curriculum (or field of study for the field of study type) is found, and the incremented value is added to determine the new priority for secondary records.

All places that insert the curriculum activity status code (STVCACT) will check this table to find the user value for ACTIVE and INACTIVE. This allows the user to have a choice of values.

Scripts are delivered populate the active and inactive curriculum activity status fields.

The following columns have been added:

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOBCTRL_PRIORITY_NO</td>
<td>NUMBER</td>
</tr>
<tr>
<td>SOBCTRL_PRIORITY_INCR</td>
<td>NUMBER</td>
</tr>
<tr>
<td>SOBCTRL_CACT_CODE_ACTIVE</td>
<td>NOT NULL VARCHAR2(30)</td>
</tr>
<tr>
<td>SOBCTRL_CACT_CODE_INACTIVE</td>
<td>NOT NULL VARCHAR2(30)</td>
</tr>
</tbody>
</table>
The comments on column are:

- **PRIORITY NUMBER**: Priority number for the curriculum or field of study.
- **PRIORITY INCREMENT VALUE**: Incremented value used to calculate secondary curriculum and field of study priorities.
- **ACTIVE CURRICULUM ACTIVITY STATUS**: Value used to represent the active curriculum status.
- **INACTIVE CURRICULUM ACTIVITY STATUS**: Value used to represent the inactive curriculum status.

## New Primary Keys

New Primary Keys have been added to the SORLCDF, SORCSTS, SORHCUR, and SORHFOS tables.

### User Curriculum Default Table (SORLCDF)

ADD CONSTRAINT PK_SORLCDF
PRIMARY KEY (
SORLCDF_USER_ID,
SORLCDF_LMOD_CODE
)

### Curriculum Status Events Table (SORCSTS)

ADD CONSTRAINT PK_SORCSTS
PRIMARY KEY (
SORCSTS_CSTS_CODE
)

### Curriculum History Table (SORHCUR)

ADD CONSTRAINT PK_SORHCUR
PRIMARY KEY (
SORHCUR_PIDM,
SORHCUR_SEQNO
)

### Field of Study History Table (SORHFOS)

ADD CONSTRAINT PK_SORHFOS
PRIMARY KEY (
SORHFOS_PIDM,
SORHFOS_LCUR_SEQNO,
SORHFOS_SEQNO
)
New Foreign Keys

New Foreign Keys have been added to the SOBCTRL, SORLCDF, and SORCSTS tables.

Curriculum Control Table (SOBCTRL)

ADD CONSTRAINT FK1_SOBCTRL_INV_STVACT_CODE FOREIGN KEY
(sobctrl_cact_code_active)
REFERENCES stvcact
(STVACT_CODE);

ADD CONSTRAINT FK2_SOBCTRL_INV_STVACT_CODE FOREIGN KEY
(sobctrl_cact_code_inactive)
REFERENCES stvcact
(STVACT_CODE);

User Curriculum Default Table (SORLCDF)

ADD CONSTRAINT FK1_SORLCDF_INV_STVLMOD_CODE FOREIGN KEY
(SORLCDF_LMOD_CODE)
REFERENCES STVLMOD
(STVLMOD_CODE);

ADD CONSTRAINT FK1_SORLCDF_INV_STVCAMP_CODE FOREIGN KEY
(SORLCDF_CAMP_CODE)
REFERENCES STVCAMP
(STVCAMP_CODE);

ADD CONSTRAINT FK1_SORLCDF_INV_STVCOLL_CODE FOREIGN KEY
(SORLCDF_COLL_CODE)
REFERENCES STVCOLL
(STVCOLL_CODE);
STVCOLL_CODE
);

ADD CONSTRAINT FK1_SORLCDF_INV_STVLEVEL_CODE FOREIGN KEY
(SORLCDF_LEVL_CODE
) REFERENCES STVLEVEL
(STLEVEL_CODE
);

ADD CONSTRAINT FK1_SORLCDF_INV_STVDEGC_CODE FOREIGN KEY
(SORLCDF_DEGC_CODE
) REFERENCES STVDEGC
(STVDEGC_CODE
);

ADD CONSTRAINT FK1_SORLCDF_INV_STVMAJR_CODE FOREIGN KEY
(SORLCDF_MAJR_CODE
) REFERENCES STVMAJR
(STVMAJR_CODE
);

ADD CONSTRAINT FK1_SORLCDF_INV_STVDEPT_CODE FOREIGN KEY
(SORLCDF_DEPT_CODE
) REFERENCES STVDEPT
(STVDEPT_CODE
);

ADD CONSTRAINT FK1_SORLCDF_INV_SMRPRL_PROGRA FOREIGN KEY
(SORLCDF_PROGRAM
) REFERENCES SMRPRL
(SMRPRL_PROGRAM
);

Curriculum Status Events Table (SORCSTS)

ADD CONSTRAINT FK1_SORCSTS_INV_STVCSTS_CODE FOREIGN KEY
(SORCSTS_CSTS_CODE
) REFERENCES STVCSTS
(STVCSTS_CODE
)
Changed Packages/Procedures

**SAKDCSN**

This package has been updated to use the default active/inactive curriculum statuses defined on SOACTRL.

**p_learner_admitreplace**

This procedure has been modified to replace the literals 'ACTIVE' and 'INACTIVE' with new Soklcur.f_default_cact('ACTIVE') or Soklciur.f_default_cact('INACTIVE').

**SAKL010**

This package has been updated to use the initial priority established on the SOBCTRL table when a new curriculum record is inserted.

**p_load_application_one_or_many**

The procedure has been modified to:

- select the SOBCTRL information,
- set the priorities to the SOBCTRL value,
- set the priority for the secondary curriculum,
- set the priority for the learner field of study records.
SAKMODS

This package has been updated to use the initial priority established on the SOBCTRL table when a new curriculum record is inserted.

p_create_application

This procedure has been modified to retrieve the SOBCTRL_PRIORITY_NO and the SOBCTRL_PRIORITY_INCR to set the priorities to the default values.

p_create_recruit

This procedure has been modified to retrieve the SOBCTRL_PRIORITY_NO and the SOBCTRL_PRIORITY_INCR to set the priorities to the default values.

p_create_student

This procedure has been modified to select the SOBCTRL_PRIORITY_NO and the SOBCTRL_PRIORITY_INCR at the start of the process.

The increment value has been changed to use the SOBCTRL_PRIORITY_INCR value.

References to the LEARNER_PRIORITY and LFOS_CNT have been changed to use the new numbering system.

SAKQADM

This package has been updated to use the default active/inactive curriculum statuses defined on SOACTRL.

p_quick_admit

This procedure has been modified to replace the literals 'ACTIVE' and 'INACTIVE' with new soklcur.f_default_cact('ACTIVE') or soklciur.f_default_cact('INACTIVE').

SOKLCUR

A new function has been added to this package. Two functions in this package have been modified.
f_default_cact

This new function is used to read data on SOBCTRL and retrieve the *ACTIVE* and *INACTIVE* curriculum activity status codes (STVCACT) defined on SOACTRL.

All places that have the *ACTIVE*/*INACTIVE* statues have been changed to either call the `f_default_status` function or to call this function. Those objects include `soklcur.f_default_status`, `SOQOLIB deactivate_create_new`, `SOQOLIB deactivate_lfos_create_new`, `sakdcsn.p_learner_admitreplace`, and `sakqadm.p_quick_admit`.

f_event_status

This function has been modified to retrieve the curriculum status (STVCSTS) values from SORCSTS instead of GTVSDAX.

f_default_status

This function has been modified to retrieve the curriculum activity status (STVCACT) from SOBCTRL and to remove the hardcoded values for *ACTIVE* and *INACTIVE*.

This function call the new `f_default_cact` function as follows:
`soklcur.f_default_cact('ACTIVE')` or
`soklcur.f_default_cact('INACTIVE')`.

New Function

soklcur.f_default_cact

This new function in SOKLCUR is used to read data on SOBCTRL and retrieve the *ACTIVE* and *INACTIVE* curriculum activity status codes (STVCACT) defined on SOACTRL.

All places that have the *ACTIVE*/*INACTIVE* statues have been changed to either call the `f_default_status` function or to call this function. Those objects include `soklcur.f_default_status`, `SOQOLIB deactivate_create_new`, `SOQOLIB deactivate_lfos_create_new`, `sakdcsn.p_learner_admitreplace`, and `sakqadm.p_quick_admit`.
**Changed Banner View**

SAVAMC2

This view has been modified to reference curriculum fields from the SOVLCUR and SOVLFOS views, instead of from the SARADAP table.

**New APIs**

Four new APIs are delivered with this enhancement.

**User Curriculum Default API (sb_curriculum_default)**

This package provides the Common Business interface for the User Curriculum Default API (`sb_curriculum_default`).

This API is used to house default values that are defined by the user for each learner module to facilitate data entry. The default values populate curriculum elements such as level, college, degree, campus, program, major, and department when a new curriculum or field of study record is inserted. Curriculum defaults are only available for data entry in the Curriculum window on SRARECR, SAAADMS, SGASTDN, SFAREGS, and SHADEGR, as well as on SRAQUIK and SAAQUIK. The user curriculum defaults are not used on SRAQUIK and SAAQUIK if curriculum defaults have been defined on SAAQKER or in the Default Options window on SRAQUIK.

<table>
<thead>
<tr>
<th>Table</th>
<th>Objects</th>
<th>API Object Name</th>
<th>API Entity Name</th>
<th>Task Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORLCDF</td>
<td>SOQOLIB</td>
<td>sb_curriculum_default</td>
<td>USER_CURRICULUM_DEFAULT</td>
<td>Used to house default values defined by learner module for curriculum/field of study records for improved data entry</td>
</tr>
</tbody>
</table>

The following packages are in this API:

- `sokb_curricdefault0.sql`
- `sokb_curricdefault1.sql`
- `sokb_curricdefault_r0.sql`
- `sokb_curricdefault_r1.sql`
- `sokb_curricdefault_s0.sql`
Curriculum Status Events API (sb_curriculum_status_event)

This package provides the Common Business interface for the Curriculum Event Status API (sb_curriculum_status_event).

This API is used to house the values for curriculum events in which the field of study is copied, and the new record has the new curriculum status (STVCSTS) value. Some of these events are: when a recruit applies, when an application decision is posted, when a student status is updated on the learner record, and when the degree status is updated. In the case of the recruit applying, the field of study on the recruiting current and active curriculum record is copied, and the APPLIED status is entered on the new record. This allows the user to choose another curriculum status value in place of APPLIED.

<table>
<thead>
<tr>
<th>Table</th>
<th>Objects</th>
<th>API Object Name</th>
<th>API Entity Name</th>
<th>Task Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORCSTS</td>
<td>SOKLCUR, SAKQADM, SAKDCSN, SOQOLIB, SAAEAPS</td>
<td>sb_curriculum_status_event</td>
<td>CURRICULUM_STATUS_EVENT</td>
<td>Used to house values for curriculum events where field of study is copied, and new record has new curriculum status (STVCSTS) value</td>
</tr>
</tbody>
</table>

The following packages are in this API:

- sokb_curricstatus0.sql
- sokb_curricstatus 1.sql
- sokb_curricstatus r0.sql
- sokb_curricstatus_r1.sql
- sokb_curricstatus0.sql
- sokb_curricstatus_s1.sql
- sokd_sorcsts1.sql
- sokd_sorcsts0.sql

Curriculum Archive API (sb_curriculum_history)

This package provides the Common Business interface for the Curriculum HISTORY API (sb_curriculum_history).

This API is used to write data to the SORHCUR table from the SORLCPG purge process. This allows users to maintain an exact copy of the curriculum data that was purged, while keeping current tables from becoming overloaded with data.
This API will only support insert and query activity. The data will not be validated, as it is being copied directly from SORLCUR.

The following packages are in this API:

- sokb_curricarchive0.sql
- sokb_curricarchive 1.sql
- sokb_curricarchive_r0.sql
- sokb_curricarchive_r1.sql
- sokb_curricarchive0.sql
- sokb_curricarchive_s1.sql
- sokd_sorhcur1.sql
- sokd_sorhcur0.sql

Field of Study Archive API (sb_fieldofstudy_archive)

This package provides the Common Business interface for the Field Of Study Archive API (sb_fieldofstudy_archive).

This API is used to write data to the SORHFOS table from the SOPLCPG purge process. This allows users to maintain an exact copy of the field of study data that was purged, while keeping current tables from becoming overloaded with data.

This API will only support insert and query activity. The data will not be validated, as it is being copied directly from SORLFOS.

The following packages are in this API:

- sokb_lfosarchive0.sql
- sokb_lfosarchive 1.sql
- sokb_lfosarchive_r0.sql
- sokb_lfosarchive_r1.sql
Section 5 Concurrent Curricula Phase 5 - Technical

Changed Library

- sokb_lfosarchive0.sql
- sokb_lfosarchive_s1.sql
- sokd_sorhfos1.sql
- sokd_sorhfos0.sql

SOQOLIB

The SOQOLIB Object Library has been modified for this enhancement.

Changes for ACTIVE/INACTIVE Status Codes

The library has been modified to read SOBCTRL and retrieve the ACTIVE and INACTIVE curriculum activity status codes (STVCACT) that are defined on SOACTRL. All places that used the ACTIVE/INACTIVE hardcoded values have been changed to call the f_default_status or f_default_cact functions.

Changes for RPEs

Three RPEs (#1-DPSYV, #CMS-RPE47731, and #1-FWAZ3) are also delivered for SOQOLIB.

SOQOLIB (#1-DPSYV)

Allow default values to be entered for campus and priority fields. Since the Banner 7.X curriculum enhancement doesn’t allow updates to existing curriculum records, data entry tasks have grown tremendously. Allowing campus and priority codes to default into the form would save a few keystrokes.

New columns have been added to SOBCTRL, and a new table (SORLCDF) has been created for user preferences to accommodate the user identifying the default values.

SOQOLIB (#1-FWAZ3)

Users need permanent, defined, default values by user name for the Curriculum block (Priority, Level) and the Field of Study block (Priority, Type) to facilitate data entry.
Currently, when the Change Curriculum button is used, the system creates a record that discontinues the present curriculum and presents the user with a window in which the new curriculum data can be entered. The window that is opened has very little data defaulted, so a user needs to enter much of the curriculum information manually. If all a user needs to do is change one field, such as the admission type or admission term, it would be helpful to have the data from the most recent active curriculum copied. A user could then click on this button, update the necessary field(s), and save the transaction.

The Change Curriculum button has been renamed. It is now named the Replace button. This button is used to copy the curriculum record and set the curriculum activity status to \textit{INACTIVE} and the curriculum status to \textit{CHANGED}. It then inserts a new blank curriculum record. If user defaults have been set up on SORLCDF, those values will fill in the appropriate fields. (This button is not used on SOILCUR.)

New Update and Duplicate buttons have been added to the Curriculum window.

- The Update button is used to perform the non-destructive update and copy the curriculum record in question. This allows the user to make changes without re-entering all of the data, as the record is populated with the current record values. (This button is not used on SOILCUR.)

- The Duplicate button is used to copy the curriculum record (with the field of study) and sets the curriculum activity status to \textit{INACTIVE} and the curriculum status to \textit{CHANGED}. It then inserts and duplicates the new curriculum record. The duplicated record is now ready for the user to make the needed changes. (This button is not used on SOILCUR.)

  This function does not consider the curriculum user defaults in the duplication process. If the user uses the Insert function and then the Duplicate Key function, the curriculum user defaults will fill the newly inserted record before the record duplication occurs.

These changes to SOQOLIB required updates to SRARECR, SRAQUIK, SAAADMS, SAAQUIK, SGASTDN, SFAREGS, SHADEGR and SOILCUR. These forms have been recompiled to include the new SOQOLIB objects. SOILCUR has also been changed to hide the new Update and Duplicate buttons.

A new \texttt{DEACTIVE_DUPLICATE} trigger has been added to the SORLCUR block to execute the logic for the Duplicate button.

A new \texttt{DUPLICATE_CURRICULUM} trigger has been added to the SORLCUR block to insert and duplicate the curriculum for the Duplicate button.
Changes for Default Values

Default values are used for the key curriculum and field of study fields when a new record is inserted. This occurs when no records already exist, an Insert Record function is performed, or a Next Record is performed that inserts a new record. The new Duplicate button does not default curriculum values from the user defaults.

Values defined on SAAQKER that are used on SAAQUIK, and values in the Default Value window on SRAQUIK will take precedence over these values. The user-defined default values will take precedence over defaulted values on the recruiting record on SRARECR when the level value equals to 00, the degree value equals to 000000, the college value equals to 00, and the primary major and department values equal 0000.

The default values are defined for the user and the learner module, and are maintained in the SORLCDF table and on the SOALCDF form.

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORLCDF_USER_ID</td>
<td>NOT NULL</td>
<td>VARCHAR2(30)</td>
</tr>
<tr>
<td>SORLCDF_LMOD_CODE</td>
<td>NOT NULL</td>
<td>VARCHAR2(30)</td>
</tr>
<tr>
<td>SORLCDF_CAMP_CODE</td>
<td></td>
<td>VARCHAR2(3)</td>
</tr>
<tr>
<td>SORLCDF_COLL_CODE</td>
<td></td>
<td>VARCHAR2(2)</td>
</tr>
<tr>
<td>SORLCDF_LEVL_CODE</td>
<td></td>
<td>VARCHAR2(2)</td>
</tr>
<tr>
<td>SORLCDF_PROGRAM</td>
<td></td>
<td>VARCHAR2(12)</td>
</tr>
<tr>
<td>SORLCDF_DEGC_CODE</td>
<td></td>
<td>VARCHAR2(6)</td>
</tr>
<tr>
<td>SORLCDF_MAJR_CODE</td>
<td></td>
<td>VARCHAR2(4)</td>
</tr>
<tr>
<td>SORLCDF_DEPT_CODE</td>
<td></td>
<td>VARCHAR2(4)</td>
</tr>
</tbody>
</table>

The default values for the priority are defined at the institution level and include the initial priority and the incremented value for any new record that is added. These values are maintained on SOACTRL.

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOBCTRL_PRIORITY_NO</td>
<td>NUMBER</td>
</tr>
<tr>
<td>SOBCTRL_PRIORITY_INCR</td>
<td>NUMBER</td>
</tr>
</tbody>
</table>

New global variables are used to store the default values. Code has been added to the NEW_SORLCUR_INST and QUERY_SORLCUR_LITE triggers to initialize the variables and select the new columns from SOBCTRL. The new form program unit RETRIEVE_DEFAULTS and the new trigger RETRIEVE_DEFAULTS are used with this functionality.

New RETRIEVE_DEFAULTS program unit and trigger objects have been added. The existing DEFAULT_TAB_CURIricula trigger is used to default values on SRARECR, SAAADMS, SGASTDN, SFAREGS, and SHADGMR. The existing DEFAULT_CURIricula trigger is also used to default values. This trigger is called by SRAQUIK and SAAQUIK. Both triggers have been modified to insert the values from the user preferences.

The DEFAULT_CURIricula trigger inserts the initial records into the curriculum and primary major when the recruiting or student record is being newly created. This trigger has been updated to default globals for new recruiting and learner user preferences, to retrieve the new SOBCTRL priority, to use the user preference...
values (instead of the ones from the SAAQKER or the Default Value Window on SRAQUIK, if those are blank), and to use the initial priority number if it is not 0.

The `DEFAULT_TAB_CURRICULA` trigger is called when no curriculum records exist on SRARECR, SAAADMS, SGASTDN, SFAREGS, and SHADGMR. The primary purpose of this trigger is to fill in the recruiting record with all zeroes. There is no need to fill in globals, because the trigger is executed from `NEW_SORLCUR_INST` after the globals have been defaulted.

The SORLCUR and SORLCUR_LITE blocks have been updated with the addition of the new `NEW_SORLCUR` trigger to populate the priority and other curriculum columns. Key-nxtrec and key-crerec functionality has also been added.

The SORLFOS and SORLFOS_LITE blocks have been updated with the addition of the `NEW_SORLFOS` trigger to populate the priority, major, and department. Key-nxtrec and key-crerec functionality has also been added.

The learner field of study code processing in the SORLFOS and SORLFOS_LITE blocks has been updated to use the default value for the new priority, if that value exists. The learner field of study type code has been moved before the priority, to ease data entry. Since the learner field of study type determines the priority number, the `Priority` value will automatically be defaulted in when the user leaves the `Type` field in the Field of Study window.

The SORLFOS and SORLFOS_LITE blocks have been updated with the addition of a `WHEN-NEW-RECORD-INSTANCE` trigger to set up default values when a new learner field of study record is accessed. A new record can be created when a curriculum is inserted or when the Field of Study tab is selected. These actions do not execute the key-nxtrec and key-crerec functionality, so the `WHEN-NEW-RECORD-INSTANCE` trigger is needed for the SORLFOS blocks.

Triggers have changed in the SORLFOS and SORLCUR blocks to call the new `soklcur.f_default_cact('INACTIVE')` function to populate the curriculum activity status code with a value of `INACTIVE`.

**New Scripts**

The following scripts are delivered with this release.
## Scripts for New Tables

<table>
<thead>
<tr>
<th>Table</th>
<th>Script</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORCSTS</td>
<td>sorcsts1.sql</td>
<td>Creates new table</td>
</tr>
<tr>
<td>SORCSTS</td>
<td>sorcsts2.sql</td>
<td>Adds Primary Key</td>
</tr>
<tr>
<td>SORCSTS</td>
<td>sorcsts3.sql</td>
<td>Adds Foreign Key for curriculum status column</td>
</tr>
<tr>
<td>SORCSTS</td>
<td>sorcsts4.sql</td>
<td>Add Foreign Key for CSTS_CODE_TRN</td>
</tr>
<tr>
<td>SORCSTS</td>
<td>sorcsts5.sql</td>
<td>Adds comments on columns</td>
</tr>
<tr>
<td>SORHCUR</td>
<td>sorhcur1.sql</td>
<td>Creates new table</td>
</tr>
<tr>
<td>SORHCUR</td>
<td>sorhcur2.sql</td>
<td>Adds Primary Key</td>
</tr>
<tr>
<td>SORHCUR</td>
<td>sorhcur3.sql</td>
<td>Adds comments on columns</td>
</tr>
<tr>
<td>SORHFOS</td>
<td>sorhfos1.sql</td>
<td>Creates new table</td>
</tr>
<tr>
<td>SORHFOS</td>
<td>sorhfos2.sql</td>
<td>Adds Primary Key</td>
</tr>
<tr>
<td>SORHFOS</td>
<td>sorhfos3.sql</td>
<td>Adds comments on columns</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf11.sql</td>
<td>Creates new table</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf12.sql</td>
<td>Adds Primary Key</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf13.sql</td>
<td>Foreign Key for new learner module column</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf14.sql</td>
<td>Foreign Key for new campus column</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf15.sql</td>
<td>Foreign Key for new college column</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf16.sql</td>
<td>Foreign Key for new level column</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf17.sql</td>
<td>Foreign Key for new degree column</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf18.sql</td>
<td>Foreign Key for new learner curriculum default column</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf19.sql</td>
<td>Foreign Key for new department column</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf110.sql</td>
<td>Adds comments on columns</td>
</tr>
<tr>
<td>SORLCDF</td>
<td>sorlcdf111.sql</td>
<td>Foreign Key for new program column</td>
</tr>
</tbody>
</table>
Scripts for Changed Tables

<table>
<thead>
<tr>
<th>Table</th>
<th>Script</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOBCTRL</td>
<td>sobctrl1.sql</td>
<td>Adds new priority and curriculum activity status columns</td>
</tr>
<tr>
<td>SOBCTRL</td>
<td>sobctrl2.sql</td>
<td>Add seed data</td>
</tr>
<tr>
<td>SOBCTRL</td>
<td>sobctrl3.sql</td>
<td>Alters table to make new CACT_CODE_ACTIVE column NOT NULL</td>
</tr>
<tr>
<td>SOBCTRL</td>
<td>sobctrl4.sql</td>
<td>Adds Foreign Key Constraint for new CACT_CODE_ACTIVE column</td>
</tr>
<tr>
<td>SOBCTRL</td>
<td>sobctrl5.sql</td>
<td>Adds Foreign Key Constraint for new CACT_CODE_INACTIVE column</td>
</tr>
<tr>
<td>SOBCTRL</td>
<td>sobctrl6.sql</td>
<td>Adds comments on columns</td>
</tr>
</tbody>
</table>

Scripts for Seed Data

<table>
<thead>
<tr>
<th>Table</th>
<th>Script</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORCSTS</td>
<td>sinssorcsts731.sql</td>
<td>Move GTVSDAX data for CURRSTATUS to SORCSTS as required values</td>
</tr>
<tr>
<td>SOBCTRL</td>
<td>sobctrl2.sql</td>
<td>Update new columns with ACTIVE and INACTIVE values</td>
</tr>
<tr>
<td>GURMESG</td>
<td>sinsmesg731.sql</td>
<td>Create GURMESG entries for new APIs</td>
</tr>
</tbody>
</table>

Seed Data

SORCSTS

The data for the CURRSTATUS rule on GTVSDAX has been moved to the new SORCTST table. The required values on SORCSTS are as follows.
The new curriculum status columns are updated with **ACTIVE** and **INACTIVE** values.

### Table Column Value

<table>
<thead>
<tr>
<th>Table Column</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOBCTRL_CACT_CODE_ACTIVE</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>SOBCTRL_CACT_CODE_INACTIVE</td>
<td>INACTIVE</td>
</tr>
</tbody>
</table>
GURMESG

Message entries are delivered for the new APIs and for the
sb_application_decision API.

<table>
<thead>
<tr>
<th>API Entity Name</th>
<th>Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>USER_CURRICULUM_DEFAULT</td>
<td>SORLCDF</td>
</tr>
<tr>
<td>CURRICULUM_STATUS_EVENT</td>
<td>SORCSTS</td>
</tr>
<tr>
<td>CURRICULUM_HISTORY</td>
<td>SORHCUR</td>
</tr>
<tr>
<td>FIELD_OF_STUDY_HISTORY</td>
<td>SORHFOS</td>
</tr>
<tr>
<td>APPLICATION_DECISION</td>
<td>SARADAP</td>
</tr>
</tbody>
</table>
Multiple Commands for SFTP and FTP

The SHRPESE process has been modified to allow for multiple commands.

**PESC/XML Transcript Export Process (SHRPESE)**

The PESC/XML Transcript Export Process (SHRPESE), shrpese.jar, uses an embedded FTP process. This process is located in `general/java/transporter.jar`. An option was needed for the process to support SFTP file transmissions.

A new `send.properties` configuration file has been added to the process. A switch inside this file is used to determine whether the traditional/delivered/supported FTP transmission functionality as coded in `transporter.jar` will be used, or if the new methodology of running a script which is responsible for the transmission process will be used.

The new `send.properties` file contains two variables:

- `send.UseSFTP=N`
- `send.Command=sh /export/home/lmarinch/ftp.sh`

If the `send.UseSFTP=N`, then the traditional method of FTP will be used to transfer the `transporter.jar` file.

If the `send.UseSFTP=Y`, then the second variable/alternate protocol is used. This variable holds the command, path, and script to be run at the host (`send.Command = /path/command/script.sh`). When the `shrpese.jar` process reaches the point where the file is ready to be transferred, it will fire off the `send.Command` value at the host prompt.

**Note:** A sample `send.Command` file is delivered but will need to be modified depending on the transport protocol being used at your institution.

The values that are passed to this external command are included in the new code in the `PESCXMLSendTranscript.java`.

```java
<snip>
if (RemoteDirectory != null)
    shellCommand = sendCommand + " " +
        pgpFileName + " " +
```
ThisJobNumber + " " + 
fileOutPath + " " + 
hostName + " " + 
userName + " " + 
passWord + " " + 
RemoteDirectory;

else

    shellCommand = sendCommand + " " + 
    pgpFileName + " " + 
    ThisJobNumber + " " + 
    fileOutPath + " " + 
    hostName + " " + 
    userName + " " + 
    passWord;

<snip>

Where:

sendCommand := the value in file send.properties send.Command var.
pgpFileName := the xml/pgp file you are (s)ftp-ing
ThisJobNumber := the job submission one up number
fileOutPath := Maps to where *.lis files are written: added such
directy as shrpese.lis/log. pescxml*.xml, etc.
hostname := Hostname from forms SOASBGA/SHACTRL
username := username from forms SOASBGA/SHACTRL
password := password from forms SOASBGA/SHACTRL
RemoteDirectory := Remote Directory from forms SOASBGA/SHACTRL

This will produce a result that equates to the shrpese.jar process running the
following at the host O/S:

    sh /export/home/lmarinch/ftp.shl filename jobnumber hostname
    username password remotedirectory

Note: If you choose to use the scripting method of FTP processing, you will
need to create and support your own shell file for the SFTP processing of
XML transcript files.
The SHRPESE and SHRPESI processes have been modified to provide a baseline view of transmitted data that is printable in the PESC standard template format.

**PESC/XML Transcript Export Process (SHRPESE) and PESC/XML Transcript Import Process (SHRPESI)**

Imported XML transcripts can be viewed on SHAEDIS. However, this view truncates files to 31880 characters, which does not provide readable/formatted versions of the XML file (input or output). Users have to review the actual XML files when auditing the transcript data, and therefore know how to navigate in an XML file in order to complete the task.

There is also no print option available to provide a printable version of the complete, imported XML transcript. Printed transcripts are placed in student files for audit purposes and are used to obtain information that is not loaded into Banner, such as the degree earned. A printed version of the transmitted data should subscribe to the PESC standard template format.

A new `PESCMXMLTransformer.class` Java class has been created for use with the `shrpese.jar` and `shrpesi.jar` processes (XML transcript export and import). This allows any XML file to be transformed into an alternate form of output using this XSLT engine. The `build.xml` files for both archives include two new files in the `config` directory: `xslt.properties` and a `bwcktran.xsl` stylesheet. The `PESCMXMLTransformer.class` can perform an XSLT transformation using one of two methods, which are described below.

**Two Methods of XSLT Transformation**

The *first* method is much like the updates made for the SFTP functionality created for the `shrpese.jar` process. Essentially, both `.jar` processes will break from processing and issue a host operating system external command. This external command (i.e., shell file) is responsible for the XSLT transformation of the XML file to another formatted output file.

This method is designed to create a (nth) file type output from either of the XML transcript import or export processes. Each process will create a `.html` version of the XML transcript. The transformation of the XML transcript file to an alternate file output type is up to the institution writing the script to perform the transformation. You can transform the XML output to any readable output file type format. SunGard Higher Education is merely providing a means to perform that transformation. You can view HTML output on the Saved Output Review Form (GJIVERO). SHAEDIS has not been modified.
Note: If an email user runs SHRPESE or SHRPESI, the shell files need to be modified to include the domain name.

The second method, instead of breaking out of processing and performing the transformation at the host, is to have the PESCXMLTransformer.class perform the translation itself. This method reads both the xslt.properties file and the bwcktran.xsl stylesheet into the process. If XSLT transformation is desired (as configured in the xslt.properties file), the transformation will read the bwcktran.xsl stylesheet template provided in the .jar file and perform the transformation by importing the java class local to the PESCXMLTransformer.class. This second method is constrained, because only *.html output will be generated. If an alternate file format is desired for the output, then the first method for XSLT should be used.

The bwcktran.xsl stylesheet is a template that is located in both the sherpese.jar and shrpesi.jar processes. The same file is contained in both processes. This file is being provided as a template to transform the XML transcript to an HTML formatted output. This template does not include all the options that are contained in the PESC XML transcript entity standards, such as Student User Defined Extensions, Transcript UDEs, Main UDEs, etc. This stylesheet is provided as a starter template for transforming the XML transcript files. Your institution may need to alter the stylesheet to format the transcript input or output to your needs.

A new configuration file has been created for both the shrpese.jar and shrpesi.jar processes. The xslt.properties file is included in the shrpese.jar/shrpesi.jar file in the /config directory. The build.xml files for both the shrpese.jar and shrpesi.jar processes have been changed to include this new file when they are compiled and deployed.

```xml
<fileset dir="${config}">
    <include name="log4j.properties"/>
    <include name="pgp.properties"/>
    <include name="xslt.properties"/>
    <include name="bwcktran.xsl"/>
</fileset>
```

```xml
<xslt.properties>
  #
  #
  #
  xslt.Transform=Y
  xslt.UseInternalXSLT=Y
```
When using the xslt.properties file to run the process, consider the following parameters:

1. **xslt.Transform=[Y/N]**: The value entered here determines if the XML file is transformed into another type of formatted output file.
   
   If the value is **N**, then no further processing takes place down the XSLT logic path for file transportation.
   
   If the value is **Y**, then you need to consider the second property, **xslt.UseInternalXSLT**.
   
   A value of **Y** can be used to produce .html, .doc, or .pdf files. XALAN (delivered with Java) is used to transform the .xsl (stylesheet) and .xml (data) files.

2. **xslt.UseInternalXSLT=[Y/N]**: The value entered here determines if the XML file is transformed internally or externally.
   
   If the value is **Y**, the **xslt.XSLFileName** is used with the bwcktran.xsl stylesheet.
   
   If the value is **N**, an external file transformation is performed using the **xslt.Command**.

3. **xslt.XSLFileName**: Enter the name of the stylesheet against which the XML file is being transformed. The default value is bwcktran.xsl.
   
   However, this value may or may not be used during processing. The reason is that each institution will create a shell file to perform the XSLT transformation. This shell file can have a hardcoded value for the XSL file (that may or may not differ from the bwcktran.xsl file name). Therefore, the XSL file name is passed to the host as an extra parameter in case it is needed for the configuration of the shell file.

4. **xslt.Command**: Enter the actual command to be run at the host to perform XSLT transformation, such as `sh /path/to/stylesheet.shl`.
   
   The values that are passed to this external command are illustrated in the new code in PESCXMLSendTranscript.java.
String xsltcommand = XSLTProp.getProperty("xslt.Command");
String xsltshell = xsltcommand + " " + xmlFileName + " " +
XSLTJobNumber + " " + xsltFileName;

// The ExternalCommand class is a utility class to execute an OS command or program
ExternalCommand xsltec = new ExternalCommand();
xsltec.setCommandString(xsltshell);
try {
    xsltec.execute();
} catch (ExternalCommandException xce) {
    throw new RuntimeException(xce.getMessage(), xce);
}

Where:
sendCommand := the value in file xslt.properties xslt.Command var.
xmlFileName := the xml file you are transforming.
XSLTJobNumber := the job submission one up number
xsltFileName := The value from xslt.Command.

This will produce a result that equates to the
shrpese.jar process running the following at the host O/S:

    sh /export/home/lmarinch/xslt.shl xmlFileName XSLTJobNumber
xsltFileName

Note: If you choose to use the scripting method of XSLT processing, you will need to create and support your own shell file for the XSLT processing of XML transcript files.
Section 7  Miscellaneous Enhancements

RPEs

National Student Clearinghouse

A set of RPEs is delivered as part of the National Student Clearinghouse enhancement. Please see the “National Student Clearinghouse - Functional” and “National Student Clearinghouse - Technical” sections for more information on the following RPEs:

- #CMS-RPE1499
- #CMS-RPE31566
- #CMS-RPE35291
- #CMS-RPE47036
- #CMS-RPE3044
- #CMS-RPE3078
- #CMS-RPE3660
- #CMS-RPE30532
- #CMS-RPE32623
- #CMS-RPE47029
- #CMS-RPE11155
- #CMS-RPE32046

Concurrent Curricula

A set of RPEs is delivered as part of the Concurrent Curricula enhancement. Please see the “Concurrent Curricula Phase 5 - Functional” and “Concurrent Curricula Phase 5 - Technical” sections for more information on the following RPEs:

- #1-DPSYV
- #1-FWAZ3
- #CMS-RPE47731
- #1-FVYPF
- #1-K7B5P
- #CMS-RPE13648
Section 7  Miscellaneous Enhancements

Open Learning Updates

**PESC/XML Transcript**

Two RPEs are delivered as part of the PESC/XML Transcript enhancement: #1-M70V8 and #1-M70V1. Please see the “PESC/XML Transcript Phase 2 - Functional” and “PESC/XML Transcript Phase 2 - Technical” sections for more information on these RPEs.

**Open Learning**

SOAORUL, SSARULE, sfkolr1.sql (#RPE1-D04SD)

Updates have been made to open learning processing in scheduling and registration, specifically allowing usage cutoffs on the DD course registration status code and allowing negative usage cutoffs on course registration status codes. Please see the “Open Learning Updates” topic which follows for more information on this RPE.

**Academic History**

SHADEGR (#1-VY5CA)

Users requested the ability to allow a NULL value to exist the Bulletin Academic Year field (SHRDGMR_BULLETIN_YEAR) in the Learner Outcome Information block. Users had to change the Outcome Status from AW to PN in order to enter the bulletin year (if it was NULL after the conversion), and then change the status back to AW.

A value is no longer required for the bulletin year in the SHADEGR record when the Outcome Status is AW, PN, or SO. The form displays the bulletin year that is populated from the conversion of data from pre-existing records, that is, records that existed prior to the 7.0 release of concurrent curriculum processing. If no bulletin year is present after the conversion, users will not receive an error when the Bulletin Academic Year field is NULL, and the record is saved.

**Open Learning Updates**

SOAORUL, SSARULE, sfkolr1.sql (#RPE1-D04SD)

Updates have been made to open learning processing in scheduling and registration, specifically allowing usage cutoffs on the DD course registration status code and allowing negative usage cutoffs on course registration status codes.


**Processing Summary**

Previously, usage of the *DD* course registration status code could not be limited in open learning processing. The original design of SOAORUL and SSARULE was such that all course registration status codes on STVRSTS could be assigned a usage cutoff percentage or duration, except for the codes *RE* and *DD*. This was done because the *RE* code must be available for the entire "registration allowed" range, as defined on SSASECT, and the *DD* code must be available whenever the *RE* code is used, so that courses with fatal errors can be dropped.

The exclusion of the *RE* code from the usage cutoff rules was correct, but usage cutoff rules *must* be permitted for *DD*. This will afford open learning courses the same functionality that has always existed for traditional courses. The difference is that for open learning courses, the usage cutoff rules are based on each learner's chosen start date for the course.

For example:

Course 101 is a 10-week course with a registration date range of January 1 through July 31, and a learner start date range of March 1 through August 1. Learner A, who elects to start the course on April 1, registers on January 1, so the *DD* code must be available to Learner A on January 1. Learner B, who elects to start the course on July 1, registers on June 1, so the *DD* code must be available to Learner B on June 1. The *DD* code should not be available to Learner A on June 1, but the system previously allowed this, which permitted an administrator to drop the course for Learner A on June 1 with a 100% refund.

An institution may want the *DD* code to be available until a fixed point in time, such as "until the learner has completed one week of class". In that case, *DD* should be available to Learner A through, but not beyond, April 7. It should be available to Learner B through, but not beyond, July 7.

Also, the system must accommodate negative usage cutoff values for open learning courses, so that registration status codes can be limited to a period of time before the learner has actually started class.

For example:

An institution wants the *DD* code to be available only until one week prior to the first day of class. Continuing with the example above, the *DD* code should be available to Learner A through March 25 and to Learner B through June 24.

**New Processing**

SOAORUL and SSARULE have been modified so that *only* the *RE* course registration status code is restricted from usage cutoff. The *DD* course registration status code is processed like any other STVRSTS code. Properties on the usage cutoff fields have been updated to permit the entry of negative numbers. The usage cutoff percentage range is now -100 to 100. The usage cutoff duration range now
allows positive and negative values for the length of the course. (For example, for a 16-week course, the range will be -16 to 16. For a two-month course, the range will be -2 to 2.) Completion calculations convert all durations to days, as defined on GTVDUNT.

One thing to keep in mind when working with negative percentages or durations, is that a calculated completion rate may be meaningless.

For example:

A learner registers on January 1 for a one-week course, which he elects to start on June 1. On January 5, he drops the course. The duration complete is -21 units, and the percentage complete is -2100%. Assume the same scenario exists with a one-day course. On January 5, the duration complete would be -147 units, and the percentage complete would be -14700%.

These large negative numbers are not useful and can vary greatly from one section to another, based on registration dates and learner start dates. Therefore, if an institution wants a course registration status code to be available "from the day the student registers until...”, the “from” part of the usage cutoff range must be set to NULL. The system will then allow any completion rate to satisfy the “from” part of the range, as long as the completion rate is less than or equal to the specified “to” value.

**Processing Examples**

Here are some examples that show how to set up registration status usage cutoff ranges. Each code is valid if the learner’s completion rate for the course falls within the usage cutoff range specified for the course registration status code. If the usage cutoff “from” and “to” values are both left NULL, the course registration status code is available for use at any time.

**Calculating the Learner’s Completion Rate**

In order to calculate the learner’s completion rate, you need to determine how many days of class have been completed. This is done by subtracting the learner’s start date from the registration status date.

- If the learner’s start date has not yet been realized, it is not counted in the number of days completed. (See Examples 1 and 2 below.)
- If the learner’s start date has been realized, one day is added to the number of days completed, making the completion rate inclusive of both the learner’s start date and the registration status date. (See Examples 3 and 4 below.).

**Example 1**

The learner is registered for Course A and has elected to start the course on 15-NOV-2006. On 01-NOV-2006, he decides to drop the course.
Number of days complete = (registration status date - learner start date)

Number of days complete = (01-NOV-2006 - 15-NOV-2006)

Number of days complete = -14

**Example 2**

The learner is registered for Course A and has elected to start the course on 15-NOV-2006. The day before his start date, he decides to drop the course.

Number of days complete = (registration status date - learner start date)

Number of days complete = (14-NOV-2006 - 15-NOV-2006)

Number of days complete = -1

**Example 3**

The learner is registered for Course A and has elected to start the course on 15-NOV-2006. On 18-NOV-2006, he decides to drop the course. (Because the start date has been realized, it is included in the number of days completed.)

Number of days complete = (registration status date - learner start date) + 1

Number of days complete = (18-NOV-2006 - 15-NOV-2006) + 1

Number of days complete = (3) + 1

Number of days complete = 4

**Example 4**

The learner is registered for Course A and has elected to start the course on 15-NOV-2006. On the first day of class, he decides to drop the course. (Because the start date has been realized, it is included in the number of days completed.)

Number of days complete = (registration status date - learner start date) + 1

Number of days complete = (15-NOV-2006 - 15-NOV-2006) + 1

Number of days complete = (0) + 1

Number of days complete = 1

From the above examples, it is clear that number of days completed can never equal zero (0). Therefore, the student's percentage complete or duration complete will never equal zero (0). However, this does not restrict zero (0) from being used on SSARULE or SOAORUL.
• Using zero (0) for the usage cutoff “from” value specifies "from the day the learner starts class until...", and can only be followed by a positive number for the usage cutoff “to” value.

• Using zero (0) for the usage cutoff “to” value specifies "until the day before the learner starts class" and can only be preceded by a NULL value or a negative number for the usage cutoff “from” value.

Calculating the Usage Cutoff Percentage

Here are examples of course registration status code usage cutoffs for a 10-week course.

**Example 1**

<table>
<thead>
<tr>
<th>Status Code</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD</td>
<td>NULL</td>
<td>0</td>
</tr>
</tbody>
</table>

*DD is available from the day the learner registers until the day before he starts class.*

**Example 2**

<table>
<thead>
<tr>
<th>Status Code</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD</td>
<td>NULL</td>
<td>-10</td>
</tr>
<tr>
<td>DW</td>
<td>-9</td>
<td>0</td>
</tr>
<tr>
<td>DC</td>
<td>0</td>
<td>10</td>
</tr>
</tbody>
</table>

*DD is available from the day the learner registers until one week before he starts class.*

*DW is available only for the six days prior to the learner starting class.*

*DC is available from the day the learner starts class through the first week of class.*
### Example 3

<table>
<thead>
<tr>
<th>Status Code</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD</td>
<td>NULL</td>
<td>-10</td>
</tr>
<tr>
<td>DW</td>
<td>-10</td>
<td>0</td>
</tr>
</tbody>
</table>

**DD** is available from the day the learner registers until one week before he starts class.

**DW** is available for the entire week before the learner starts class.

### Calculating the Usage Cutoff Duration

#### Example 4

<table>
<thead>
<tr>
<th>Status Code</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD</td>
<td>NULL</td>
<td>0</td>
</tr>
</tbody>
</table>

**DD** is available from the day the learner registers until the day before he starts class.

#### Example 5

<table>
<thead>
<tr>
<th>Status Code</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD</td>
<td>NULL</td>
<td>-1</td>
</tr>
<tr>
<td>DW</td>
<td>-99</td>
<td>0</td>
</tr>
<tr>
<td>DC</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**DD** is available from the day the learner registers until one week before he starts class.

**DW** is available only for the six days prior to the learner starting class.

**DC** is available from the day the learner starts class through the first week of class.
Example 6

<table>
<thead>
<tr>
<th>Status Code</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD</td>
<td>NULL</td>
<td>-1</td>
</tr>
<tr>
<td>DW</td>
<td>-1</td>
<td>0</td>
</tr>
</tbody>
</table>

*DD* is available from the day the learner registers until one week before he starts class.

*DW* is available for the entire week before the learner starts class.

**Note:** In Examples 3 and 6 above, both registration status codes (*DD* and *DW*) are available on the same day, exactly one week before the learner starts class. To avoid having multiple codes available on the same day, usage cutoff values in the “from” and “to” fields cannot overlap. The only exception to this is zero (0), as explained above.

**Functional and Technical Changes**

**Open Learning Section Default Rules Form (SOAORUL)**

The following changes have been made:

- The **CHECK_RSTS_CODE_VALUES** trigger in the SORRSTS block has been modified so that the *DD* code is no longer restricted from usage cutoff.
- Property sheets have been updated for the SORRSTS_USAGE_CUTOFF_PCT_FROM, SORRSTS_USAGE_CUTOFF_PCT_TO, and SORRFND_REFUND_PCT_COMPLETE fields.
  - The maximum field length is four, the query length is four, and the lowest allowed value is -100.
- Autohint text has been added to the SORRSTS_EFF_BY_STU_STAT_IND field.

**Section Registration Status Codes Form (SSARULE)**

The following changes have been made:

- The **CHECK_RSTS_CODE_VALUES** trigger in the SSRRSTS block has been modified so that the *DD* code is no longer restricted from usage cutoff.
- Property sheets have been updated for the SSRRSTS_USAGE_CUTOFF_PCT_FROM, SSRRSTS_USAGE_CUTOFF_PCT_TO, and SSRRFND_REFUND_PCT_COMPLETE fields.
The maximum field length is four, the query length is four, and the lowest allowed value is -100.

- **POST-CHANGE** triggers have been added to the `SSRRSTS_USAGE_CUTOFF_DUR_FROM` and `SSRRSTS_USAGE_CUTOFF_DUR_TO` fields, so that the cutoff duration cannot exceed the duration defined for the section on SSASECT.

**SFKOLR1 Package**

Three functions have been modified:

- `f_calculate_pct_complete`
- `f_calculate_duration_complete`
- `f_cutoff_reached`

**New Report and Update Scripts**

Optional scripts are delivered with this release. They should be run by institutions who previously used usage cutoff values of zero (0) to indicate that a registration status code was to be available prior to the learner starting class. As discussed above, if a status code is to be available "from the day the learner registers until...", the usage cutoff "from" field must be set to *NULL*.

- The report scripts identify records in SSRRSTS and SORRSTS that have zeroes (0) in the usage cutoff "from" fields.
- The update scripts update these zeros (0) to *NULL* values.

<table>
<thead>
<tr>
<th>Table</th>
<th>Script</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSRRSTS</td>
<td>srsrrsts1.sql</td>
<td>Reports all SSRRSTS rows where usage cutoff from is 0 (either percentage or duration)</td>
</tr>
<tr>
<td>SORRSTS</td>
<td>srsorrsts.sql</td>
<td>Reports all SORRSTS rows where usage cutoff from is 0</td>
</tr>
<tr>
<td>SSRRSTS</td>
<td>supsrrsts.sql</td>
<td>Updates all SSRRSTS rows identified by the report script, changing usage cutoff from values from 0 to <em>NULL</em> (either percentage or duration)</td>
</tr>
<tr>
<td>SORRSTS</td>
<td>suporrsts.sql</td>
<td>Updates all SORRSTS rows identified by the report script, changing usage cutoff from values from 0 to <em>NULL</em></td>
</tr>
</tbody>
</table>
**Peterson's Data Load Regulatory Updates for Reporting Year 2006-2007**

(*suptpfd4.sql, suptpfd5.sql*)

**#1-HQ4ZI**

**Description:** Regulatory changes are required for the Peterson's Competitive Student Network File Layout 2006-2007 for the MAJR_CODE field begin and end positions.

**Impact:** Without these changes, data will be loaded incorrectly to the temporary tables and to Banner production. Specifically, GRE major codes may not be converted or loaded correctly, since only a partial major code would be evaluated for conversion.

**Resolution:** The field positions for the MAJR_CODE in the GRE layout have been changed from 37-38 to 37-40. These changes are made in SRATPFD through the delivered `suptpfd4.sql` and `suptpfd5.sql` scripts.

---

**New Admissions APIs**

Two new APIs are delivered for use with the Admissions module. These APIs support the integration needs of users for test score and high school information.

**Test Score Information API (sb_testscore)**

This package provides the Common Business interface for the Test Score Information API *(sb_testscore)*.

Test score records are created by unique internal identifier (PIDM), test score code, and test date taken. To create a new test score record, the person must exist in the Person Identification/Name Repeating Table *(SPRIDEN)*. The test score code must exist in the Test Code Validation Table *(STVTESC)*. The test date taken must be prior to or the same as the current date.

<table>
<thead>
<tr>
<th>Table</th>
<th>Objects</th>
<th>API Object Name</th>
<th>API Entity Name</th>
<th>Task Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORTEST</td>
<td>SOATEST, SRRINQR, SGPSTDN, shkB_xml_tests_iml.sql, SRKTES1</td>
<td>sb_testscore</td>
<td>TESTSCORE</td>
<td>Used to create test score records</td>
</tr>
</tbody>
</table>
The following packages are in this API:

- sokd_sortest0.sql
- sokd_sortest1.sql
- sokb_testscore0.sql
- sokb_testscore1.sql
- sokb_testscore_r0.sql
- sokb_testscore_r1.sql
- sokb_testscore_s0.sql
- sokb_testscore_s1.sql

High School Information API (sb_highschool)

This package provides the Common Business interface for the High School Information API (sb_highschool).

High school records are created by unique internal identifier (PIDM) and source/background institution code. To create a new high school record, the person must exist in the Person Identification/Name Repeating Table (SPRIDEN). The source/background institution code must exist in the Source/Background Institution Code Validation Table (STVSBGI), and the Type must be set to equal to H.

Admission request checklist codes may be assigned to the high school record, but duplicates are not allowed. Multiple high schools may be assigned to a person, but each admission request checklist code may only be used in one high school record for a person.

<table>
<thead>
<tr>
<th>Table</th>
<th>Objects</th>
<th>API Object Name</th>
<th>API Entity Name</th>
<th>Task Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORHSCH</td>
<td>SOAHSCH, SRRINQR, SGPSTDN, SRAQUIK</td>
<td>sb_highschool</td>
<td>HIGHSCHOOL</td>
<td>Used to create high school records</td>
</tr>
</tbody>
</table>

The following packages are in this API:

- sokd_sorhsch0.sql
- sokd_sorhsch1.sql
- sokb_highschool0.sql
- sokb_highschool1.sql
- sokb_highschool_r0.sql
- sokb_highschool_r1.sql
- sokb_highschool_s0.sql
- sokb_highschool_s1.sql
API Variable Bind Updates

A performance issue existed for DML packages in Banner Business Entity APIs. The API update strategy used in Banner 7.0 dynamically constructed an update statement so only the specific table columns that had changed would be updated. This strategy forced Oracle to perform a hard parse on the update cursor every time it was executed. As a result, the internal overhead may have manifested itself in latch contention in the SGA and prevented the system from performing as efficiently as it could have.

A solution has been found that resolves this issue and allows Oracle to reuse cursors efficiently in both 9i and 10g. This solution requires changes to all APIs and will be implemented in the next scheduled major release for each product. The changes are internal to the DML packages and API package bodies only and do not require any changes to application programs. You will not need to modify any custom programs you may have written that call Banner APIs.

General problem resolution (#1-GLKLZ) discusses the performance issue. The Student System problem resolution for this issue is (#1-PLE18).

The following APIs have been modified for this update:

- sb_course
- sb_facassignment
- sb_section
- gb_classtimes
  (which uses SSRMEET/SSASECT)

SFRSTCR Index Updates

Oracle 10g performance issues existed with repeat processing that required a change to an index on SFRSTCR. The SFRSTCR_KEY_INDEX3 index has been revised to include the pidm, term code, and CRN. Previously, the index included just the pidm. This update will enhance performance for queries that read SFRSTCR for the pidm and term. It will sort fewer records and minimize reads to the database.

The revised index is:

<table>
<thead>
<tr>
<th>SFRSTCR_KEY_INDEX3</th>
<th>SFRSTCR_PIDM</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFRSTCR_KEY_INDEX3</td>
<td>SFRSTCR_TERM_CODE</td>
<td>2</td>
</tr>
<tr>
<td>SFRSTCR_KEY_INDEX3</td>
<td>SFRSTCR_CRN</td>
<td>3</td>
</tr>
</tbody>
</table>

This change is made by the sfrstcr1.sql script, which is delivered in this release.
Section 8  Problem Resolutions

Schedule Module

Forms

SSAACCL  (#CMS-DFCT71911)
Description: SSAACCL contained the statement:

\[ \text{MON\_DAYS} := \left( \text{NEXT\_DAY} (\text{MON\_END\_DATE}, 'MONDAY') \right) \]
\[ \text{NEXT\_DAY} (\text{MON\_START\_DATE} - 1, 'MONDAY')) / 7; \]

MONDAY did not work when the NLS_LANG was set to French or other languages than English, and produced error number ORA-01846. This calculation was repeated seven time for each day of the week.

Impact: Days of the week were hardcoded, which presented this issue.

Resolution: This was resolved in Release 7.3 when the CALC_MEET_DAYS program unit was redesigned to not use hardcoded days of the week values, but instead use the appropriate NLS day value.

SSAACCL, SSASECT  (#CMS-DFCT78142)
Description: An error was received (FRM-40735: CALC_CALENDAR_DATE trigger raised unhandled exception ORA-6511) if a change in days or time was made to a section which had the academic calendar attached. This only occurred when academic calendar rules (SSAACRL) used the percentage of days, number of days, or a combination of both.

After this error was displayed three times, when the SSAACCL form was called, it correctly showed the modified total number of days (if days had been added to the section). However, values for the census two date, last day to enroll, last day to record academic history, and last day to drop were the value for the next day from the section/session start date.

Impact: Unnecessary errors were received, and incorrect values were displayed.

Resolution: The CALC_CALENDAR_DATE trigger exists in both SSAACCL and SSASECT. Both triggers close the cursors properly. In SSASECT's CAL_CALENDAR_DATE trigger, the cursors used had been named the same. This was probably the source of the problem. As the cursors are now properly closed, this has been resolved through other changes made to the triggers.
SSASECT  (#1-11G5DH)
Description: Inconsistent behavior occurred in the Instructor block when an instructor was deceased. If the deceased instructor was the primary instructor, then no non-primary instructors were displayed. If the deceased instructor was not the primary instructor, then all instructors were displayed.
Impact: If the primary instructor assigned to a section happens to be the one whose Deceased (Indicator) is checked (set to Y) on SPAPERS, a user would not be able to view any additional instructors who are also assigned to the same section.
Resolution: Triggers in the SIRASGN and SSRSPRT blocks have been modified to correct this.

SSASECT  (#1-SEJQW)
Description: The corrections made for problem resolution #1-JV715 caused users to have difficulty overriding room or meeting time conflicts in the Meeting Time and Instructor blocks.
Impact: The solution for problem resolution #1-JV715, which stated that you should not be able to use Rollback or Exit after making meeting time changes, even though those changes create schedule conflicts for the assigned instructor(s), made it unnecessarily complicated to override such conflicts.
Resolution: Code and triggers have been modified to resolve this issue.

SSASECT  (#CMS-DFCT81478)
Description: Users could access Key Block fields without performing a Rollback, if they had already used Rollback but then selected Cancel when prompted to save changes.
Impact: Users encounter inconsistent behavior in this form compared with other similar forms.
Resolution: The form-level KEY-CLRFRM trigger has been modified to disable the KEY_BLOCK items when the user chooses to cancel the Clear_Form operation.

SSASECT  (#CMS-DFCT79800)
Description: If enrollment existed for a CRN, you were not allowed to change the part-of-term code or dates. However, in the Meeting Time block, you were allowed to change the start/end dates, the meeting days, and the start/end times without receiving an error that enrollment existed. This created potential conflicts in the student schedule.
Impact: In the main window of SSASECT, users were prevented from modifying the part-of-term code and/or the start/end dates when students were registered for the section. However, in the Meeting Time block, users were allowed to modify the start/end dates, days, and/or start/end times. These sorts of changes could create schedule conflicts for registered students.
Resolution: In the Meeting Time block, room conflict errors will now cause a check to be performed for a section conflict.
A new FORM_HEADER block ENRL_CONFLICT_WARN_IND item has been added. (This is not displayed on the form.) Triggers have been modified for the SSRMEET start
date, end date, days, times, building, and room to set the ENRL_CONFLICT_WARN_IND to Y when a change is made. The unused enrollment_exist function has been modified to be a procedure (renamed as enrollments_exist_warning) that will check to see if the ENRL_CONFLICT_WARN_IND is set to Y. If the indicator is set to Y, the procedure checks to see if enrollments exist. If they do, a warning message is displayed. The indicator will be reset at the end of the procedure. The COMMIT_PROC trigger has been modified to call the enrollments_exist_warning procedure.

SSASECT (#CMS-DFCT94176)
Description: An Oracle error was received when the form was used with the territory set to FRANCE.

Impact: When the territory is set to FRANCE (or many other European countries), users received an Oracle error when deleting meeting time data that included a value in the Session Credit Hours field.

Resolution: The KEY_DELREC trigger on the SSRMEET block has been modified to compare the SSRMEET_CREDIT_HR_SESS numeric item to zero (0) instead of the character string 0.00. The POST-CHANGE trigger on the SSRMEET_CREDIT_HR_SESS item has also been modified to compare its value to number 0 instead of string 0.

SSASECT (#CMS-DFCT94084)
Description: A warning message should be displayed when meeting time information is changed for a cross-listed course. Also, if you change the meeting time information for a cross-listed course, the changes do not carry over to the other courses in the cross-listed group. They have to be applied to each course separately.

Impact: When a day, start/end time, and/or building/room change was made to the meeting time record(s) of one CRN in a cross-listed group of courses, the change was not automatically propagated to the other CRNs in the group. As such, a warning message was needed to remind users to make the changes on the other CRNs.

Resolution: A new SSRMEET CHECK_XLST_WARNING trigger has been added that will display a warning message if the course is cross-listed and the associated days or times are changed. This trigger is called by the SSRMEET POST-INSERT and POST-UPDATE triggers.

SSASECT (#CMS-DFCT78635)
Description: Running SSASECT with NLS set to French or Dutch caused lots of problems, due to the POST-CHANGE trigger on the SSRMEET_END_DATE field not being updated to work for internationalized dates/days of the week on STVDAYS. For example, Monday in Dutch is “MAANDAG”, so for internationalized versions, the selected day would be in another language than the description in the table, which caused an error.

Also, the CALC_MEET trigger contained code for converting days of a week into numbers, such as MONDAY=1, which did not work for internalized NLS settings.

The CHECK_DAYS_IN_RANGE program unit contains code using the NEXT_DAY function, which did not work for internalized NLS settings.
**Impact:** Users who run Banner where the system language setting was something other than English would receive error messages due to language differences when attempting to update the **Start Date** and **End Date** fields in the Meeting Time block.

**Resolution:** The **POST-CHANGE** trigger on the **SSRMEET_END_DATE** field has been modified to set the **HLDDESC** properly for international days and to select the value from **STVDAYS** based on the **STVDAYS_NUMBER** instead of **STVDAYS_DESCRIPTION**. Changes were not needed for the **CALC_MEET** and **CHECK_DAYS_IN_RANGE**, as these have been previously modified to support international dates.

**SSASECT**

(#1-EEI3V)

**Description:** When a room had not been scheduled for any other CRN or event for the days and time created in the Meeting Time block, but was in conflict within that CRN, SSASECT displayed the error: **Room conflict**. This indicated to the user that the room conflict was with another CRN or event. The error message should have read: **Room schedule conflict within section**.

**Impact:** Room/time conflict messages received by users were not clear and would have caused them to look at other sections and/or events for the source of the conflict, when it existed within the same section.

**Resolution:** Room conflict errors were not checking for a section conflict first. The **PRE-INSERT** and **PRE-UPDATE** triggers on the **SSRMEET** block have been modified to check for a room conflict within the section.

**SSASECT**

(#1-QNYKQ)

**Description:** If you manually re-entered a valid value in the **Room** field and then tabbed out of the field, the **ERROR** `<value>` is invalid was displayed.

**Impact:** Users receive an inappropriate error message when attempting to re-enter a room number on a meeting time record.

**Resolution:** The **SSRMEET_ROOM_CODE KEY-NEXT-ITEM** trigger has been unsubclassed to prevent an error when the List of Values is not used to enter a value.

**SSASECT**

(#1-ERPW4)

**Description:** When a meeting time record was first created, the **SSRMEET_MEET_NO** was not calculated and remained **NULL** in the database. Therefore, the total contact calculation on **SIAASGN** was not displayed.

**Impact:** Creating meeting time records that were complete with a value in the **SSRMEET_MEET_NO**, which is also used by the Faculty Load module, required an extra step that should not have been needed.

**Resolution:** This has been corrected through changes made to correct other problem resolutions for SSASECT (SSRMEET block).

**Note:** #CMS-DFCT98621 for **SSRROLL** is still open. The roll process may still create **SSRMEET** records where the **SSRMEET_MEET_NO** has a **NULL** value. If SSASECT is used to edit the **SSRMEET** record that is created by **SSRROLL**, the **SSRMEET_MEET_NO** data will be populated.
SSASECT (#1-L5OPE)

**Description:** SSASECT no longer calculated the daily or weekly attendance method from the meeting time record.

**Impact:** The form was no longer working as designed and did not allow users to view the weekly and/or daily contact hours for a class section if an attendance method had been entered.

**Resolution:** The daily and weekly contact hours are still being calculated. In some cases, however, the calculated value is **NULL**. This will occur when the SSBSECT record has no SSRMEET records, or when it has an SSRMEET record with an SSRMEET_MEET_NO value of null (refer to #1-ERP4W and #CMS-DFCT98621), or when the SSRMEET_MEET_NO value is 0. (This occurs when no days have been selected. You would be unable to calculate the daily/weekly hours in that case.)

SSASECT (#1-SL6XN)

**Description:** When in the Meeting Time window, if you tried to tab over the **Schedule Type** field, you received the error: *ERROR*L is invalid. LIST for valid choices. If a new schedule type was selected, you could proceed.

**Impact:** User navigation was made more cumbersome as a result of this issue.

**Resolution:** This was resolved by work done for problem resolution (#1-9X61Q).

SSASECT (#1-9X61Q)

**Description:** In the Meeting Time block, when you brought back a value from SLQMEET for the **Room** field, the cursor was in the **Building** field, and you received an error that the value was invalid. You could save the record, and when you tabbed over the **Room** field, the error disappeared.

**Impact:** Users received an inappropriate error message but were still able to save the meeting time record.

**Resolution:** The **SSRMEET_ROOM_CODE KEY-NEXT-ITEM** trigger has been unsubclassed to prevent an error when the List of Values is not used to select a value.

SSASECT (#1-D2WFJ)

**Description:** Meeting time partition preferences were not displayed if there were start and end times present for meeting times (SSRMEET table) or for partition preferences (SSRMPRT table). Data existed in the SSRMPRT table, but nothing was displayed on SSASECT if these start/end times did not exist.

**Impact:** Users were able to create partition preference and room attribute preference records associated with meeting time records. However, if the meeting time records did not have values in the **Start Time** or **End Time** fields, the users were not able to view or modify them after they were initially created.

**Resolution:** The **WHERE** clause on the SSRMPRT and SSRMRDF blocks has been modified to consider null begin/end times. The **UPDATE_SSRMPRT** and **UPDATE_SSRMRDF** items have also been modified to handle null times.
SSASECT (#CMS-DFCT98834)

**Description:** The form was displaying the incorrect meeting time room attribute preferences if two meeting times existed that both started and ended at the same time but occurred on different days of the week.

**Impact:** In the Meeting Time Preferences window, partition preferences and room attribute preferences defined for individual meeting time records were displayed for every meeting time record where the start/end times were the same, even when the meeting days of the week were different. This can be confusing for users.

**Resolution:** The `WHERE` clauses on the SSRMPRT and SSRMRDF blocks have been modified to consider days of the week. The `ORDER BY` clause on the Attributes block has also been changed to use the preferred number first then the code.

SSASECT (#CMS-DFCT84018)

**Description:** If a building/room combination contained more than 14 characters, errors were received in the Meeting Time block. The problem seemed to be the size of the location variable. It was defined as 15 characters. The portion of the code that was causing the error was:

```plaintext
location := location || ' ' || ssrmeet_rec.room_code;
```

If the building code was five characters in length, and the room code was ten characters, an error occurred, because this line was concatenating a space which put the length at 16.

**Impact:** This issue could not be recreated. However, while this issue was being researched, additional issues for the Room field were discovered and corrected. These issues did not prevent users from creating meeting time records.

**Resolution:** The Room field has been expanded to display a ten character value. Also, when a List function is used from the Room field, you will no longer receive an error after you query for valid choices and use the Exit with Value function.

SSASECT (1-BS84P)

**Description:** When you tried to assign an instructor after searching on SIAIQRY and saving the change in the Instructor block, you received an Oracle error. This only occurred if the instructor ID was only component displayed in the Instructor block. This did not occur if other fields were populated.

**Impact:** Users may have received an inappropriate error message when they tried to save a record in the Instructor block, if they did not tab out of the ID field. This was due to the fact that default values were not populating the Instructional Workload, Percent of Responsibility, Primary Indicator, and Percent of Session fields.

**Resolution:** Triggers in the SIRASGN block have been modified to correct this.

SSASECT (#1-9]6V2)

**Description:** After viewing the instructor assigned to a course, that instructor ID replaced the Key Block ID.
Impact: Users needed to re-enter the ID and/or name of the student whose records they were working on if they happened to have queried the Instructor block of SSASECT while performing their work.

Resolution: Triggers have been modified in the SIRASGN block to hold the GLOBAL.KEY_IDNO value from the Key Block and make sure that value remains unchanged after the S$_VALID_ALL_ID call.

---

SSASECT (#CMS-DFCT93205)

**Description:** The autohint text for the **Start Dates First** and **Start Dates Last** fields (used for open learning) was incorrect. The text should have read: “the first date that the learner can start the course”, and “the last date that the learner can start the course”.

**Impact:** In order to review the correct autohint text for the **Start Dates First** and **Start Dates Last** fields, you needed to access the Dynamic Help Query function rather than simply clicking in those fields.

**Resolution:** The autohint text for the SSBSECT_LEARNER_REGSTART_FDATE and SSBSECT_LEARNER_REGSTART_TDATE items has been corrected.

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SSASECT (#CMS-DFCT95836)

**Description:** If you deleted an instructor and used Previous Block to access the Meeting Times block to remove the record, when you saved the change, the system did not acknowledge that the change had been made.

**Impact:** Users were uncertain whether the meeting time records they just removed had actually been deleted. As such, they needed to navigate back to the Meeting Times block to verify that the changes had been made.

**Resolution:** The SIRASGN KEY-PRVBLK trigger has been modified to set the system message_level back to 0.

---

SSASECT (#CMS-DFCT103292)

**Description:** Users were able manipulate information so that it sidestepped the intended design of the form. Users were able to save two or more instructors without any of them being designated as a primary instructor. Users were also able to set up two instructors as primary instructors.

**Impact:** Without intending to, users were able to assign more than one instructor to a section as the primary instructor. Conversely, users were also able to inadvertently create sections where none of the assigned instructors was designated as primary.

**Resolution:** This has been resolved by corrections made for problem resolution (#1-B6W8M).

---

SSASECT (#1-B6W8M)

**Description:** In the Instructor window, if you performed a Remove Record function on the instructor, the **Instructional Workload**, **Percent of Responsibility**, and **Percent of Session** fields remained populated, and the **Primary Indicator** was unchecked. The **ID** and **Name (Untitled)** fields were null. When you saved, a
Primary instructor must exist for section error message was displayed. You could not remove the last instructor for a session.

**Impact:** Removing instructor assignments from sections was more cumbersome than it should have been. Although a workaround existed (i.e., you could remove an instructor assignment using SIAASGN), some users who may need to remove an instructor assignment may not have access to SIAASGN.

**Resolution:** Triggers have been modified to change the primary instructor checks so that they occur at the end of commit processing after all records have been inserted, updated, or deleted, but before the data has been saved.

**SSASECT**

(#1-JV7I5)

**Description:** Under certain conditions, when an instructor time conflict existed, the data was still saved despite the fact that two warning messages were accepted. The warning messages had no affect on forcing the user to make changes to resolve the instructor conflict. After exiting and re-entering the form, the original data for the assigned instructors was present. You should not have been able to exit from the form with incorrect data being saved, unless you were forced to change that data.

**Impact:** Users could save instructor assignments when time conflict errors existed without intentionally overriding or deleting them.

**Resolution:** A trigger has been modified to raise an error in this situation.

**SSASECT**

(#CMS-DFCT98441)

**Description:** When an instructor was selected from SIAIQRY, the following error was received: *ERROR* LOV does not exist for this term. You could still save the instructor record.

**Impact:** Users received an inappropriate error message.

**Resolution:** A new trigger has been added, and an existing trigger has been modified to correct this.

**SSASECT**

(#1-D72A)

**Description:** In the Instructor block, the Options Menu included the item Query Faculty and Advisors [SIAASGQ]. When you selected this option, you were taken to the Faculty/Advisor Query Form (SIAIQRY). The Options Menu should read: Query Faculty and Advisors [SIAIQRY].

**Impact:** Users who were more familiar with the seven character name (e.g., SIAIQRY) for different forms, as opposed to the long name, may have selected the wrong item from the Options Menu, because the Options Menu item displayed the wrong form name.

**Resolution:** GUAOPTM has been modified to correct this entry for SSASECT. In the existing Description for Query Facility and Advisors, the Called Object is now SIAIQRY.

**SSASECT**

(#CMS-DFCT105144)

**Description:** When instructors were attached to sections, the only notice that a time conflict error existed was present in the autohelp line. Users that were unaware of the error message could use Rollback to leave the block and continue on without
realizing that no instructor had been attached to the section. A pop-up window should be displayed to warn the user that the instructor will not be attached to section when the user leaves the block.

**Impact:** If users did not see the time conflict error message in the autohelp line, they may not have been aware that the error existed, and they could have used Rollback or Exit, thinking that the instructor assignment they had made had been saved.

**Resolution:** This was resolved by changes made when correcting problem resolutions (#1-JV715) and (#CMS-DFCT95836).

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SSASECT,
sokb_fac_assign1.sql

(#CMS-DFCT103602)

**Description:** When a course had multiple instructors, the primary instructor could not be changed. In 6.X, the Primary Indicator in the Instructor window could be unchecked for the primary instructor, then checked for another instructor, and then saved. In 7.0, attempting to do this generated the error *Only one primary instructor can be defined for CRN for faculty assignment.*

If a course had one instructor, a second instructor could be added and saved. If you then unchecked the Primary Indicator for the initial instructor, checked it for the new instructor, and saved the changes, the system message read, *Transaction complete: 2 records applied and saved.* If you performed a Rollback and re-entered the form, both instructors were listed, but the initial instructor was still listed as the primary one.

**Impact:** Users were not able to update or change the setting of the Primary Indicator on instructor assignment records once the records had been saved.

**Resolution:** This functionality has been corrected by modifying triggers and the sokb_fac_assign1.sql package in the FACULTYASSIGNMENT API. It should be noted that if you want to change the designation of primary instructor from one instructor to another, you must first uncheck the Primary Indicator checkbox on the existing primary instructor before checking the Primary Indicator checkbox on another record.

---

SSASECT

(#1-4FU0Y)

**Description:** When a Meeting Time record existed, and you tried to change an existing schedule type, the message *Cannot change Schedule Type when meeting times exist* was correctly displayed. However, after the SSRMEET record was removed, and you returned to the main window, you still could not change the schedule type, and you received the same error.

After that occurred, any new SSASECT record that was created would produce that same error when you tried to change the schedule type, even though you did not create the meeting time record.

If you exited from SSASECT and re-entered the form, the problem disappeared until the next time you needed to remove a meeting time record in order to change the schedule type.
Impact: Users received an inappropriate error message indicating that a meeting time record needed to be removed before a schedule type code for a section could be changed. The error message was displayed even after the meeting time record had been removed.

Resolution: Triggers have been modified in the SSBSECT and SSRMEET blocks to correct this.

SSASECT (#CMS-DFCT97622)

Description: When changes were made to an existing SSASECT record, or if a new record was created, when a Rollback or Exit was performed, the form no longer displayed a message (as it had done in previous versions) asking if the user wanted to save the changes.

Impact: The form's behavior was inconsistent with the rest of the system. Unsaved changes would be lost if a user performed a Rollback function.

Resolution: This was corrected with the changes made for problem resolution (#1-B6W8M).

SSASECT (#CMS-DFCT98887)

Description: A warning message should be displayed if a user enters a building/room without days and times.

Impact: By design, the form does allow the creation of meeting time records with building/room assignments even though the days and start/end times have not yet been determined. As such, if policy at an individual institution does not allow for building/room assignments to be made without specifying the days and start/end times, a warning message is needed to alert users if they are attempting to do so.

Resolution: A new SSRMEET CHECK_MISSING_DAYS_TIMES block level trigger has been created to display a warning message if the building or room is entered, and no associated days or times are entered.

The SSRMEET block level PRE-INSERT and PRE-UPDATE triggers have been modified to display a message each time an SSRMEET record is inserted or updated that has a building or room, but no days or times.

Also, to prevent a locking problem when no begin time is entered, the low/high ranges on the SSRMEET_BEGIN_TIME item have been removed and the POST-CHANGE trigger has been modified to include the necessary validation.

Reports

SSPRDEF (#CMS-DFCT94376)

Description: The process did not function. It produced a blank .lis file and error messages in the .log file.

Impact: Bad column definition errors stopped the process from producing data in the output and running to completion.

Resolution: The column definition for table 4 was incorrect and has been modified to correct this.
SSRROLL  (#1-EDNSI)

Description: If the primary instructor was not on the first instructor record for the Roll From Term, after SSRROLL was run, the primary instructor was updated to the first record in the Roll To Term.

Impact: When the Primary Indicator was not checked on the first record in the Instructor block, and instructor assignments were included among class schedule details that were rolled from one term to another, it was possible that the person assigned as the primary instructor would be changed during the roll process.

Resolution: This issue was resolved by changes made for problem resolution (#CMS-DFCT103602).

SSRROLL  (#CMS-DFCT89988)

Description: An extra, unused parameter (Parameter 37 - Roll by Part of Term % = all) was in the parameter list in job submission.

Impact: The parameter is non-functional and can be safely removed from GJAPDEF.

Resolution: The sdeljob1.sql script is delivered to delete this parameter.

General Person Module

Banner Views

SPVTERM, SPVTER1  (#CMS-DFCT81146)

Description: The SPVTERM view returned a null value for attempted credit hours. The error was in the f_tgpa_fnc function. The GET_SHRTGPA cursor incorrectly fetched data from history; and it incorrectly fetched a null value when which_data = 'HATT'.

Impact: Students had null attempted credit hours, which was incorrect.

Resolution: The conditional around the Open, Fetch, Close of the GET_SHRTGPA cursor in the f_tgpa_fnc function has been removed. The SHVTER1, SHVTERM, SPVTER1, and SPVTERM views have been regenerated.
Faculty Load Module

Form

SIACONA (#1-O4DUZ)

Description: Under the data condition that an instructor had only non-instructional workload, and the SIAFLCT and SIAFLRC rules referenced only total workload, both windows of SIACONA incorrectly displayed the message: Workload rules NOT satisfied by Instructor, even though the instructor met the rule. It appeared that SIRTRAL and SIRCTRL did indicate that the workload rules were satisfied when these reports were run.

When O and U were displayed in the main window, when workload rules were not met, they appeared in the wrong places for non-instructional workload and total workload.

Impact: When a faculty member has only non-instructional assignments, the contract analysis always results in Workload rules NOT satisfied by instructor, even when the rules are satisfied.

The display of the values for the non-instructional workload and total workload was reversed.

Resolution: This occurred because the contract code did not have an SIBCFTE record. Code has been modified to correct this.

The order of the NIST_IND2 and TOTWL_IND2 has been reversed on the WORKLOAD_TOTAL_1_CANVAS.

API

sb_facassign (#1-TFQD7)

Description: The version number listed in the sokb_fac_assign1.sql object for patch p1-ple18_stu70300 incorrectly showed version 7.3.0.1 when it should have been 7.3.0.2.

Impact: An incorrect version number could be confusing to users.

Resolution: Patch p1-ple18_stu70300 was reposted on 09/20/2006, and the version number for this object was modified to read 7.3.0.2.
### Forms

**SLARDEF** (#CMS-DFCT68853)

**Description:** All records were being displayed, even if a specific term had been entered in the Key Block.

**Impact:** All room records were displayed in the Room Definition block, regardless of the term code entered in the Key Block to request a specific term or record.

**Resolution:** The `WHERE` clause on the SLBRDEF block has been modified to check for the effective term, instead of for all terms.

**SLARASG** (#1-BBBZ9)

**Description:** The deposit amount that was displayed in the Key Block included deposit amounts that had been released. Once the deposit has been released (given back to the student), it is no longer considered to be a deposit.

**Impact:** The deposit amount was displaying all account deposits, regardless of the expiration date. Account deposits that had been released with a modified expiration date of the system date were not being excluded.

**Resolution:** Code has been modified to correct this.

**SLARASG** (#1-LY76R)

**Description:** The status date would always default with today’s date. It seemed that the status date was being validated from the housing term from and to dates on STVTERM (`WORKASG_BEGIN_DATE` and `WORKASG_END_DATE`) versus the assignment status dates on SLAASCD (`ASCD_START_DATE` and `ASCD_END_DATE`).

**Impact:** The status date should be validated on SLAASCD for the specific status code entered, as each status code can have different start and end dates.

**Resolution:** The `POST-CHANGE` trigger on SLRRASG has been modified to use the `ASCD_START_DATE` and `ASCD_END_DATE` for the edit check.

**SLARUSE, SLVRUSE** (#1-NODIS)

**Description:** If more than one phone assignment existed for a student in a term (active or inactive), the same number of identical records were displayed on SLARUSE.

**Impact:** Multiple room assignment records were displayed when multiple phone records existed. This was confusing, because phone numbers are not displayed on SLARUSE.

**Resolution:** The SLVRUSE view was being used to join the SLRRASG and SLRPASG tables, so phone number rows were joining with room assignment rows. If two phone
numbers were tied to one room, this created the appearance of duplicate room assignment rows on SLARUSE, as phone numbers are not displayed on the form. References to phone numbers have been removed from the SLVRUSE block and SLVRUSE view to correct this.

Reports

SLRHLST (#CMS-DFCT79523)
**Description:** The Room Assignment Date parameter is optional in GJAPDEF. Yet, if this parameter was left blank, the report did not return any records. The report finished successfully when using just the Term parameter.

**Impact:** The Room Assignment Date parameter of SLRHLST is optional. However, this date defaults to the current date, and the current date is used in processing.

**Resolution:** Cursors have been modified to only perform the comparison to the supplied room assignment date when it is not null. If it is null, the comparison is not performed.

SLRROLL (#CMS-DFCT103647)
**Description:** API issues occurred when an attribute change was made after an assignment existed. The ID was no longer eligible for the assignment. When you attempted to change a record for the meal, room, or phone, a restriction was displayed that required a correction. Audit mode evaluated the records for possible rolling and presented the findings. In Update mode, the restrictions prevented the roll from taking place.

**Impact:** Messages in Audit mode, versus Update mode, were inconsistent. Audit mode and Update mode results should display the same roll information.

**Resolution:** Messages are now consistent in Audit and Update mode.

Recruiting Module

Forms

SRAQUIK (#1-HEYGL)
**Description:** An error occurred when you cancelled out of the List of Values windows (Display Existing Recruit Terms or Display All Terms) for the Recruitment Term field.

**Impact:** Users had to click through unnecessary error messages.

**Resolution:** Code has been modified to correct this.
Problem Resolutions
Recruiting Module

SRAQUIK, SAAQUIK, SOQOLIB

(#1-MR8IP)

Description: While in the Curriculum block, after selecting a Program value from the drop down menu, this message appeared in the auto hint line: FRM-40700: No such trigger: clear_currliv_items. When this happened, the user could not save the record.

Impact: An error message appears about a missing trigger, but this does not impact any processing.

The clear_currliv_items trigger was removed from all the Banner 7 releases of saaquik.fmb, but is still called from the LCUR_PROGRAM_POST_LOV trigger at the form level and the KEY-LISTVAL trigger of the SORLCUR_PROGRAM item in the SORLCUR_LITE block.

Triggers that call the clear_currliv_items are referenced from SOQOLIB.

Resolution: The execution of the clear_currliv_items trigger has been removed from the SORLCUR_PROGRAM post text trigger.

Function

SRSNDX

(#1-G4GCS)

Description: If a prospect manually entered the high school name in the High School Name field in Student Self-Service, and an exact match existed in STVSBGI, an incorrect match of high school codes occurred on SRIPREL. Banner seemed to randomly insert a similar high school into the Prospect Temporary Table (SRTHSCH) that closely matched the manually entered high school but was not the high school name that had been entered. If High School was chosen from pulldown menu, then the match was processed correctly.

Impact: Due to the limited capability of the SOUNDEX function, Student Self-Service was not always processing the high school correctly when it was manually entered on the Web Prospect page. This caused an incorrect school name to be displayed in Banner.

Resolution: A new database function (srsndx.sql) has been created to enhance the features of the SOUNDEX function in PL/SQL. The matching process is now much larger in scope. bwskwpr2.sql has also been modified to call the new function.

Package

SRKPRE1

(#1-P63VH)

Description: In the SRRPREL, SRIPREL, and SRRSRIN, new medical school applicants were not being loaded with a value in the SORDEGR_EGOL_CODE, even though the value was in the SRTDEGR temporary column of the same name. If the data was loaded a second time, the records were matched, and the update was performed, the data in SORDEGR_EGOL_CODE was added.
**Impact:** The education goal associated with the incoming AMCAS degree will not be loaded to SORDEGR when an incoming record is brand new. Education goals will be updated when matching records are found.

**Resolution:** This has been corrected. The `gb_pcol_degree.p_create` has been changed to include `p_egol_code => srtdegr_rec.srtdegr_egol_code`.

**Reports**

**SRRPREL**

(#1-HQ4XO)

**Description:** SRRPREL would abort when API messages were longer than 132 characters.

**Impact:** The process would not run to completion when the API messages were too long for the page.

**Resolution:** Code has been modified to correct this.

**SRRSRIN**

(#1-G4IQE)

**Description:** When the Auto Load (Skip Dup Chk) parameter was set to Y, the output contained incorrect messages and was not matching or loading records correctly.

**Impact:** The match status was not being updated for records when the Auto Load (Skip Dup Chk) parameter was set to N. Records were not being matched and loaded to Banner when the Auto Load (Skip Dup Chk) parameter was set to Y.

**Resolution:** Close Cursors were removed that were redundant due to report() calls.

**SRTLOAD**

(#1-TL69U)

**Description:** SRTLOAD aborted with an error message (ORA-01858: a non-numeric character was found where a numeric was expected) when it tried to process to a record without a date of birth.

**Impact:** Records would only partially load when no date of birth existed on the incoming file.

**Resolution:** The code that performs the date of birth verification and validation has been updated to correct this.

**SRTLOAD**

(#1-QZ17E)

**Description:** SRTLOAD does not look at the AMCAS Effective Date Column 296, so the SAT Nation Code may not be loaded. A new parameter is needed to process AMCAS records as of the effective date. Also, the SAT, GRE, and PSAT Nation Code are loaded to Street Line 3 and compare the `NATION_NAME` to the STVNATN description.
Impact: SRTLOAD will attempt to process all incoming records from AMCAS. SRTLOAD makes no use of the AMCAS Effective Date. SRTLOAD needs to be modified to include a new parameter for the AMCAS Effective Date such that only those AMCAS records on file with an effective date greater than or equal to the setting of the SRTLOAD parameter for the AMCAS Effective Date will be processed.

The SAT Foreign Country Code may not be loaded to Banner when it should be translated from the STVnatn description.

Resolution: The new Effective Date (AMCAS) parameter has been added to SRTLOAD. This parameter is used to load only those AMCAS records that have a load date that is greater than or equal to the entered effective date.

The get_nation_fromdescription function has been modified to only find nation codes from descriptions if the description matches the nation name on the tape and the value in the STVnatn_nation column is entered in initial capitals format. For example, “ANTIGUA AND BARBUDA” on an SAT tape will only be found if the STVnatn_nation value is written as “Antigua And Barbuda”.

SRTLOAD (#1-R934L)

Description: A prior college degree record was being created for a second major, and the second major was not being loaded.

This happened because the SOTCNVT rule for DEGC was not checking for the * rule when the AMCAS Degree Code was NULL, yet there was a major code associated with that degree record on the AMCAS file. SOAPCOL would not allow majors with NULL degrees, so the SOTCNVT rule for NULL degrees was necessary.

Impact: Degree records were being loaded to Banner with NULL degree codes. You cannot manually enter a degree record without a degree code. AMCAS majors are always associated with a single degree. So in order for the majors to be loaded correctly when there is no AMCAS degree code associated with that major, you must have SOTCNVT rules set up for DEGC when the degree code is NULL (*). Having this rule on SOTCNVT will allow the majors and associated degrees to be loaded correctly to Banner.

Resolution: Code has been added to check for a * or a DEFAULT degree code in SOTCNVT when there is a major code listed but no corresponding degree code exists on the tape.

SRTLOAD (#1-O8AOV)

Description: SRTLOAD needs to use conversions, codes, and then descriptions to find validation table values.

In the SRTLOAD process, tapes with values in both the SBGI High School Code and High School Name were being processed incorrectly. The High School Code was being ignored, and the High School Name was being used to look up a new number on STVSBI. This resulted in an incorrect high school number being loaded into SRVPREL_HSCH_SBGI_CODE.

For example, an input record had an SBGI code of 310761, and a High School Name of Cherokee High School. The code 310761 was ignored, and a search was performed against STVSBI for Cherokee High School. There were six Cherokee High
School records on STVSBDGI, the first one having an SBGI code of 441230, and so the recruiting record received that code instead of the one input on the file.

**Impact:** Comparing incoming data descriptions to Banner validation descriptions may have resulted in incorrect data being loaded to Banner. For instance, if there were two descriptions in Banner with different validation codes, SRTLOAD would not know which value to use and would take the first instance. The first instance may not have been the correct value.

**Resolution:** Code that processes the description has been removed from the `convert_validate_value` procedure. Code relative to the `found_from_desc` indicator has also been removed. Code used to find the prior college code by description has been removed, and the `find_pcol_code_from_name` procedure has been made obsolete.

**SRTLOAD (#1-IE1L7)**

**Description:** The incoming AMCAS `CIT_COUNTRY_CODE` was not being loaded to the `SABSUPL_NATN_CODE_ADMIT` field when there was no visa type.

- If there was a visa type, the `CIT_COUNTRY_CODE` was loaded to the `GOBINTL_NATN_CODE_LEGAL` field and to the `SABSUPL_NATN_CODE_ADMIT` field so you could keep track of the nation code for the admission.
- However, if there was no visa type, the `CIT_COUNTRY_CODE` was not loaded to the `SABSUPL_NATN_CODE_ADMIT` field. Applicants could not be tracked if they did not have a visa type. You cannot assume that if the `SABSUPL_NATN_CODE` field is **NULL**, that the applicant is from the United States.
- The `SABSUPL_NATN_CODE_ADMIT` field shows users whether a visa type exists or not. If no visa type exists, the data should still be loaded to the `SRTSUPL_NATN_CODE_ADMIT` field and be pushed to the `SABSUPL_NATN_CODE_ADMIT` field. If a visa type exists, the data is then loaded to `SRTSUPL` and `GOBINTL`.

**Impact:** You could not track the nation code admit for students with no visa type.

**Resolution:** Code has been modified to correct this.

**SRTLOAD (#1-9SNGG)**

**Description:** An error was received when SRTLOAD was run and a source/background institution code (STVSBDGI) from the data file had an SOASBDGI high school record with a three-digit state code (i.e., 999 Unknown State).

**Impact:** When a high school code had a three character state code, and an incoming test score or search file listed that high school code, SRTLOAD would fail.

**Resolution:** The SBGI variable has been expanded so SRTLOAD will run successfully.

**SRTLOAD, SRIPREL (#1-JKEO1)**

**Description:** When the Birth Date field contained zeros for the day or month, SRIPREL displayed an Oracle error for an invalid birth date field when matching
was processed. The error occurred when you associated the person with an ID. You could not access the records in SRIPREL to correct the data due to the Oracle error.

**Impact:** Records reported from test or search organizations that have a date of birth MM = 00 or date of birth DAY = 00 will produce an Oracle error when you attempt to match the records manually on SRIPREL. There is no way to fix the records to allow them to be loaded, except via SQL in SRTPERS.

**Resolution:** SRIPREL has been modified so that if the month and day have null values, the birth date will be null. SRTLOAD handles the scenario where the birth month or day are equal to spaces. SRTLOAD generates an *Incomplete Birth Date* message. The user is then aware that an error exists in the record. SRTLOAD has been modified to handle 00 in the same way, with an ELSE IF condition to check for 00 on either the day or month of birth. If that is TRUE, an error message will be generated, and the day, month, and birth date values will be initialized to *NULL.*

**Admissions Module**

**SRTLOAD, SRKPRE1**  
(#I-MS8NF)  
**Description:** When an AMCAS file was loaded using SRTLOAD, SRRSRIN, and SRRPREL, the **Primary Degree Indicator** for the primary prior college was not being set in SOAPCOL or being inserted into SRTPCOL. SRKPREL was missing an include parameter that would set the indicator. The SRTPCOL temporary table was also missing Attend To and Attend From dates. These were in the AMCAS file load, but the temporary table had no data in it to account for these dates.  

**Impact:** When the primary college and degrees are loaded there is no indication which is the primary degree. The **Primary Degree Indicator** is not being updated because the SRTPCOL_PRIMARY_IND is not being loaded SRTPCOL.  

**Resolution:** SRKPRE1 has been updated to change the setting of the SORDEGR_PRIMARY_IND to *Y* for the first degree of the primary college. SRTLOAD has been modified to insert the SRTPCOL_PRIMARY_IND into the SRTPCOL temporary table.

**SAAWADF**  
(#I-TPKXD)  
**Description:** In the Matching and Processing Rules window, the **Automatically Create Student Record** field definition needed to be removed, and the **Process Decision** field definition needed to be added.  

**Impact:** The form documentation was not up to date.  

**Resolution:** The obsolete field definition has been removed, and the new field definition has been added.
The field definition for the new field is:

When the **Process Decision** checkbox is checked, an application decision code can be entered and will be reflected on the application.

The **Admission Decision** field is enabled when the **Process Decision** checkbox is checked.

**Forms**

**GOAINTL**

(#CMS-DFCT83343)

**Description:** Before GOAINTL was added to Banner, if a visa checklist item was cross-referenced on STVADMR to STVVTP, and if STVVTP referenced that checklist item code, the checklist item code would automatically be defaulted into the I-20 Information window on SPAINTL, just as this proper setup would default the corresponding checklist codes into SOAHSCH, SOAPCOL, and SOATEST.

This no longer occurs in the Certification of Eligibility Information window of GOAINTL. Also, the Count Query Hits function which previously listed the checklist items specific to the applicant no longer exists for the **Admission Request** field on GOAINTL.

**Impact:** Checklist cross-reference information is no longer being updated when visa information is added.

**Resolution:** The POST-INSERT trigger in the GORVISA block has been modified to set the checklist date and status when the ADMR_CODE field is not blank, the GOBINTL_CERT_DATE_RECEIPT is not blank, and the Student System is installed.

**SAAADMS**

(#1-BVVML)

**Description:** An application that had data defaulted from SRASUMI could be saved with an invalid curriculum when curriculum checking for Admissions was set to Fatal. If the defaulted data included values of 0 for level, college, and degree, the SARADAP record would be saved, even though it did not meet a curriculum rule.

**Impact:** Invalid curriculum records could be saved without error.

**Resolution:** The SARADAP DEFAULT_ADAP block level trigger has been modified to raise an invalid curriculum exception when an error exists and the severity is Fatal.

**SAAADMS, sokb_field study1.sql**

(#1-SN1L3)

**Description:** Poor performance was experienced using SAAADMS and other Admissions forms when the user was on Oracle 10g.

**Impact:** Forms were hanging during processing.

**Resolution:** Two SQL statements that are used by Admissions processes have been modified to improve performance.
1. SQL in sokb_fieldstudy1 has been modified to force the usage of the Primary Key. The cursor in f_query_max_seqno has been modified to include the line: sorlfos_seqno > 0.

2. Queries against the SOVLCUR and SOVLFOS views in the sarchkb_c cursor in sakchk1.sql have been removed. The cursor now only queries SARCHKB and reads SOVLCUR and SOVLFOS separately in a loop. The conditions are checked using IF statements, and the checklist is inserted if all conditions are met.

**SAAADMS**  
(#1-MHA07)  
**Description:** When trying to create an application by bringing over data from SRASUMI (prospect summary record), an Oracle error was received, and no curriculum data was brought forward to the application.  
**Impact:** All data should be copied forward from SRASUMI without error. The user was receiving an error from the POST-RECORD trigger on the SARADAP block. After the SARADAP data was copied, the form attempted to go to the curriculum blocks to copy data.  
**Resolution:** The trigger has been modified to cite a return from SRASUMI as an exception to the error processing.

**SAAADMS**  
(#1-IE8JD)  
**Description:** An application could be saved without a curriculum being entered. The resulting SARADAP record did not include curriculum data, and the SORLCUR and SORLFOS tables had no record of the curriculum.  
**Impact:** This occurred if you were processing multiple applications, and you inserted a new application. You could save the new application without a curriculum if you navigated back to an existing application and then saved without entering a curriculum for the new application.  
**Resolution:** This has been corrected. You will be prompted to enter a curriculum and save the data before you can navigate to an existing application.

**SAACHKB, SAARRFT, SOACOMM**  
(#1-OUOOT)  
**Description:** The autohint for the curriculum fields needs to be made more consistent.  
**Impact:** The autohint needs to be expanded for clarity.  
**Resolution:** The autohint for the appropriate fields has been modified.

**SAACHKB**  
(#1-Q7PUV)  
**Description:** If the program rule was entered manually, the form did not automatically change the value to uppercase, which in turn produced an Invalid Program error.  
**Impact:** User may receive errors if they manually type in the program code.  
**Resolution:** Code has been modified to correct this. The search parameters now include the SMRPRLE_PROGRAM and SMPRLE_PROGRAM_DESC.
SAACHKB, SOAIDNS

Description: Two issues existed:

1. On SAACHKB, the field tag in the Curricula Criteria block in the main window should be Field of Study Code, not Field of Study Major.

2. On SOAIDNS, under certain conditions you may not be able to perform a Next Block function from the Registration Terms block to access the Curricula Summary block when curriculum data exists.

Impact: The label on SAACHKB was not correct. The Next Block navigation on SOAIDNS was not working properly.

Resolution: The label on SAACHKB now reads Field of Study Code. The navigation on SOAIDNS for the SFBETRM block has been corrected.

SAADCBT, SAKDCSN, SAKDCS1

Description: Two issues existed:

1. The curriculum status values on the learner field of study records that were inserted when a new learner record was created should have come from the curriculum status value associated with the AS record on STVSTST.

2. The user should receive a message when a learner record is created.

Impact: If a value had been entered in the Curriculum Status field associated with the STVSTST record where the (Student) Status Code was AS, then the curriculum status on field of study records attached to newly created learner records should have defaulted to that value. This was not happening. As such, users needed to manually update the curriculum status on those field of study records.

Also, prior to release 7.3, users were accustomed to receiving a message that a learner record had been created after processing an application acceptance decision.

Resolution: The sakdcs1.sql f_create_learner has been modified to set the new_inactive_csts to the curriculum status value from p_default_status. The sakdcs1.sql f_create_learner has also been modified to add an informational message after the learner record is created. SAADCBT has been modified to display this message along with Decision Created.

SAADCRV, SAADCBT, SAKDCSN, SAKDCS1

Description: Manual decisions were being saved as S (system-maintained), instead of U (user-maintained).

Impact: Users accustomed to using the Maintained By field in the Application block of SAAADMS and the Decision Data block of SAADCRV for reporting or reference purposes could no longer rely on the validity of the data.

Resolution: A new p_process_decsn parameter has been added to sakdcsn.sql/sakdcs1.sql for the maint_ind value, which defaults to S (system-maintained). SAADCRV will now pass the new parameter of U to the p_process_decsn parameter from the ON-INSERT trigger in the SARAPPD block to indicate a user-
maintained decision. SAADCBT will now use the PRE-INSERT trigger on SARDSCL to pass a value of B to the Maintenance Indicator.

**SAAERUL**  
(#CMS-DFCT95886)  
**Description:** Regardless of which value was selected from the Legacy pulldown list (Father, Mother, Uncle, etc.), the question tied to the FALMQSTNCODE rule (Father is Alumnus Request Code) was always assigned.  
**Impact:** SAKPCOM now handles the legacy code as a code, rather than a hard-coded value. In SAAERUL for the Group Code QSTN, the description for FALMQSTNCODE rule should not represent just Father, but Legacy.  
**Resolution:** The supderul2.sql and supxref2.sql scripts have been modified to correct this. The Father is Alumnus Request Code description has been changed to Legacy information response for the STVXLBL EDI Label Code QSTNCODE and the (EDI) Value of A2.

**SAAETBL**  
(#1-HJ7VJ)  
**Description:** The form did not show the descriptions of the intended curriculum. Only the rule numbers were displayed.  
**Impact:** It was not easy to determine what the intended curriculum was.  
**Resolution:** A new p_get_curr_rule_desc program unit has been added to retrieve the program code for the curriculum rule number. Descriptive fields have also been added for the curriculum rule and field of study rule number codes (major and program codes). This populates the degree description for the intended curriculum.

**SAAETBL**  
(#1-HC4LJ)  
**Description:** The SARHLTH_COND_CDE column was not increased to a length of ten when the medical code was increased. This meant that users had to use the EDI codes on SORXREF for all medical codes.  
**Impact:** Users entering Web applications could not take advantage of the STVMEDI codes that were greater than six characters.  
**Resolution:** The SARHLTH_COND_CDE column has been increased to ten. SAAETBL has also been updated to display all ten characters.  
**Note:** No changes were required in packages which reference SARHLTH_COND_CDE: SAKL080, SAKP060, SAKLIBS, or SAKLIB. These packages do not have defined variables for the SARHLTH_COND_CDE data field. They use row-referenced column names.

**SAARRAT**  
(#1-4A334)  
**Description:** After entering information in the Key Block and using Next Block to access the Application Rating block to enter the scores, it was expected the values for the rating types would be populated automatically as had happened in prior versions of Banner.
Impact: The rating type information did not default in from the SAARRCT rules, as it previously did.

Resolution: The WHERE clause in the PRE-BLOCK trigger of SARRRAT has been modified to compare b.sarrrt_radm_code = :keyblock_radm_code, instead of b.sarrrt_ratp_code = :keyblock_radm_code.

SAAQUIK (#1-MLUFK)
Description: The admit type from the SAAQKER rules no longer defaults into SAAQUIK.

Impact: When defaults were defined for use with quick entry, the admit type was not being defaulted.

Resolution: The cursors which retrieve the data from SARQKER have been modified. The admit type code and the source/background institution code have been added.

SAAQUIK, SRAQUIK, SOQOLIB (#1-MR8IP)
Description: While in the Curriculum block, after selecting a Program value from the drop down menu, this message appeared in the auto hint line: FRM-40700: No such trigger: clear_currlov_items. When this happened, the user could not save the record.

Impact: An error message appears about a missing trigger, but this does not impact any processing.

The CLEAR_CURRLOV_ITEMS trigger was removed from all the Banner 7 releases of saaquik.fmb, but is still called from the LCUR_PROGRAM_POST_LOV trigger at the form level and the KEY-LISTVAL trigger of the SORLCUR_PROGRAM item in the SORLCUR_LITE block.

Triggers that call the CLEAR_CURRLOV_ITEMS are referenced from SOQOLIB.

Resolution: The execution of the CLEAR_CURRLOV_ITEMS trigger has been removed from the SORLCUR_PROGRAM post text trigger.

SAAWADF (#CMS-DFCT104807)
Description: There was a problem attaching letters in SAAWADF, once a letter with a specific module code had been selected. When you tried to enter subsequent letters (after the first letter has been entered), only those that had the same module code as the first letter were displayed in the List of Values (SOAEIWI) for the Letter Code field. You could not view letters of other module types.

Impact: Once a letter had been saved, only letters with that module code were allowed. The form needs to check if the letter code module code matches the letter type element code.

Resolution: A trigger has been modified on the SARWALT.SARWALT_LETR_CODE to reset the form header element code for the current row and print an error message if the module code for the letter code for the current row does not match the module code for letter type for the current row.
SAAWAPP

Description: Questions of over 345 characters in length were not displayed in the SAAWUDQ List of Values for the Question Sequence Number field in SAAWAPP.

Impact: If a question was set up in the Question Text field on SAAWUDQ that had more than 345 characters, the question did not display in the List of Values for the Question Sequence Number field for the QUESTION element code in SAAWAPP. These questions were displayed in Self-Service and could be selected in SAAWAPP.

Resolution: The SARWUDQ_RG and SARWUDQ_LOV have been modified to set the question length to 350. The order of the items in the List of Values has also been changed, and the display fields have been lengthened so that the entire heading is displayed.

Packages

SAKDCR1

Description: The decision calculator was giving incorrect decisions when the high school diploma type was included in the decision rules definition in SAADCSN. The calculator was giving all decisions for diploma type codes that were less than or equal to the applicant’s diploma when all other conditions had been met.

Impact: The decision calculator gives wrong decisions when the high school diploma type is included in the rule definition.

Resolution: The HSCH_CUR cursor has been modified to check that the diploma high school code is null or is equal to the diploma code on the high school record.

SAKDCR1

Description: The decision calculator in SARBDSN and SAADCRV was not using the defined rules correctly. This resulted in applicants being accepted that should not have been accepted.

Impact: Users who run the decision calculator via SAADCRV and/or SARBDSN to determine the appropriate admissions decision(s) for applicants were receiving incorrect results, and applicants were being admitted when they should not have been.

Resolution: Code has been modified to correct this.

In the f_checkcurriculum function, the checks are coded with OR instead of AND logic in the criteria. As long as one of the criteria in the rule matches with the applicant, a match is found.

The lfos_cur cursor has been changed to retrieve data based on arguments that are input to the function and also based on whether or not the curriculum is a primary(cnt =1) or secondary(cnt > 1) curriculum. Since the cursor has been changed, an LFOS loop is no longer needed. The cursor can be FETCHED. If it is found, a major match exists. Otherwise, a major match does not exist. Either all of the criteria on a rule must match, or the rule is not a match for the applicant. OR logic must be changed to AND logic.
SAKDCS1  (#1-11JZQ0)
**Description:** When *Perform Curriculum Checking* was set to *No* on SOACTRL and the *Locked (Indicator)* was unchecked for the program on SOACURR, you received a fatal curriculum error when accepting the application.

**Impact:** Under certain conditions, users may receive inappropriate warning and/or error messages about invalid curriculum rules. This would occur when they were saving an applicant acceptance decision code on SAADCRV, and the *Locked (Indicator)* on SOACURR was not checked for the curriculum rule attached to the admissions application, and the *Perform Curriculum Checking* radio group was set to *No* on SOACTRL.

**Resolution:** The `f_create_learner` function in SAKDCS1 has been modified to determine if curriculum checking is turned on and then use this information when evaluating the curriculum rules.

SAKDCS1  (#1-X8RB7)
**Description:** A fatal curriculum error for an invalid concentration was received on SAAADMS when the major rule did not change when the catalog term changed.

**Impact:** Users received inappropriate error messages, and in some cases, were not able to process admissions decisions when curriculum rules had been updated between the time that applications were created and decisions were entered.

**Resolution:** In `sakdcs1.sql`, the `f_create_learner` function has been modified to find the new rule for the major.

SAKDCS1  (#1-USWIS)
**Description:** A learner record should not have been inactivated when a decision code was entered with only the *Institution Rejection* flag selected on STVAPDC.

**Impact:** In light of changes made to Admissions decision processing in Banner 7.3, the documentation was not clear on what should happen when a decision code was entered that had only the *Institution Rejection* checkbox checked. As such, in some situations users were not receiving the expected results when they entered Admissions decisions that should have resulted in a previously created learner record being made inactive.

**Resolution:** In `sakdcs1.sql`, the `p_process_decsn` procedure has been modified to only inactivate the learner record when *Inactive Application* checked (set to *Y*). The user guide will also be updated and clarified.

SAKDCS1  (#1-OP1DS)
**Description:** The SORCCOL collector table (SOACCOL) and the GURMAIL table (SUAMAIL) were not being updated when a decision was entered on SAADCBT that met the requirements for the communication plan.

**Impact:** Users were no longer able to update communication plans and/or materials via the batch admission decision batch process.

**Resolution:** The `sakdcs1.p_process_decsn` has been updated to include another communication plan check and create admissions communication plan records if necessary.
SAKDCS1 (#1-OBSDZ)

**Description:** After completing the 7.3 upgrade, the new SORLCUR database columns `APPL_SEQNO` and `KEY_APPL_SEQNO` were not populated through a script for all pre-7.3 learner records. Because of this, when a decision was entered on SAADCRV which should have set the learner status to `IS` on SGASTDN, the learner status did not change and remained set to `AS`.

**Impact:** General student records created prior to the time when an institution upgraded to Banner Student 7.3 were not being inactivated when a withdrawal decision code was entered on the admissions application from which the general student record was generated. This was due to the fact that two of the new fields added to the SORLCUR table, designed to make a direct connection between the general student record and a specific admissions application, did not have values.

**Resolution:** sakdcs1.sql f_find_existing_curr_match has been modified to determine if an SORLCUR record exists for the application. If one does not exist, the application is located using the SOVLCUR information.

SAKDCS1 (#1-NYD4Z)

**Description:** Application fee rate codes (SAAADMS) were not carried forward to the student fee assessment rate codes (SGASTDN) when a decision was made that created the learner record.

**Impact:** Users accustomed to assigning a fee assessment rate code to an admissions application and having it be rolled to the learner record were finding that this no longer happened as of Release 7.3. As such, they needed to update the learner record with this information manually.

**Resolution:** The p_create call in f_create_learner has been modified to pass the rate_code instead of a null value.

SAKDCS1 (#1-SX1XB)

**Description:** Users should not have been able to make decisions on SAADCRV that updated the primary curriculum record when registration existed for the same term. The documentation also needs to be updated to reflect this.

**Impact:** Prior to Banner Student Release 7.3, users did not have the ability to process more than one applicant acceptance decision type per applicant for a single entry term. As of Release 7.3, this functionality is now available. However, the system does allow an applicant acceptance decision code to be processed, even when the applicant already has registration records for the entry term, and the resulting updates to the learner curriculum records would include a new primary curriculum. This invalidates all error checking performed on the learner’s registration records.

**Resolution:** The decision logic has been modified to prevent an applicant acceptance decision code from being processed when the applicant already has registration records for the entry term, and the primary learner curriculum would be changed.

The text in the “Multiple Applicant Acceptance Decisions” procedure in the “Admissions” chapter of the *Banner Student User Guide* has been updated.
Previously, it read:

Learners can apply to a new program for a term in which they are already registered. Admissions applications are processed, even if the learner is registered for classes, as long as fee assessment has not yet occurred.

Now it reads:

Learners can apply to a new program for a term in which they are already registered. Admissions applications are processed, even if the learner is registered for classes, as long as the existing primary curriculum record will not be changed or replaced.

SAKDCS1

(#1-QYKAU)

**Description:** Site codes that were entered in SAAADMS were not being rolled to SGASTDN when an applicant accept decision was made on SAADCRV. Users had to add the site code on SGASTDN.

**Impact:** Users accustomed to assigning a site code to an admissions application and having it roll to the learner record were finding that it no longer happened as of Release 7.3. As such, they needed to update the learner record with this information manually.

**Resolution:** This functionality has been restored. The `f_create_learner` function has been modified to pass the application site code when a new SGBSTDN record (AS) is created because a general student record does not exist for the current term.

SAKDCS1

(#1-V96ED)

**Description:** When an SGBSTDN record was created based on a decision, the site code associated with the application (not the curriculum) was not copied to the SGBSTDN record.

**Impact:** Users accustomed to assigning a site code to an admissions application and having it roll to the learner record were finding that it no longer happened as of Release 7.3. As such, they needed to manually update the learner record with this information.

**Resolution:** This functionality has been restored. This issue was the same as the one described in #1-QYKAU, except that scenario dealt with site code values entered on the admissions curriculum record not being rolled to the learner record. Changes made for #1-QYKAU also corrected this problem resolution.

SAKL010

(#1-PZ718)

**Description:** The error *Missing priority number for curriculum* was received when using the P900 push routine, when SARETRY records existed with a *NULL* SARETRY_PRIORITY value.

**Impact:** The packages needs to be updated to accommodate this situation.

**Resolution:** Defaults can now be defined for priority on SOACTRL.
SAKL030 (#CMS-DFCT92963)

**Description:** The Nation of Citizen data (GOBINTL\_NATN\_CODE\_LEGAL) was incorrectly populating Nation of Issue data (GORVISA\_NATN\_CODE\_ISSUE\_DISP).

The code for the push of this information says that when a visa type code is not null, and the Nation Code of the Citizen value is null, then set the Visa Nation of Citizenship value to the GTVSDAX \textsc{vissantndef} rule value. If the Nation Code of the Citizen is not null, then set the Visa Nation of Citizenship value to the Nation Code of the Citizen value.

**Impact:** The Nation of Citizen data was incorrectly populating Nation of Issue data.

**Resolution:** The call to gb\_visa\_p\_create has been modified to pass a \textsc{null} value, instead of the value in the NATN\_CODE\_VISS field.

SAKL045 (#1-APUUV)

**Description:** An error message was received when you attempted to push an admissions application into the permanent Banner tables: \texttt{*ERROR* (v5.2)ORA-20100: ::Preferred E-mail already exists.}

The SAKLO45 process checks for existing preferred email addresses and clears the Preferred Indicator. However, it only checks within an email type. It needs to be modified to check for any preferred email address of any type, clear the indicator, and create the new email address with the Preferred Indicator set. This will prevent the exception from being raised.

**Impact:** An error was generated when a new email address was entered on a Web application. The error stated that a preferred email address already existed. The API was enforcing the single \textsc{preferred\_ind} per PIDM while the package was trying to add a \textsc{preferred\_ind} of \textsc{Y} for the email address, without clearing all that existed, regardless of the \textsc{emal\_code}.

**Resolution:** This has been corrected. When a new email address is entered on a Web application and a preferred email address already exists for the person, when the application is pushed, the new email address will become the preferred email address. This can be viewed on GOAEMAL. The \textsc{goremal\_c} cursor and the gb\_email\_p\_update parameter have been modified to correct this.

SAKL050, SAFWPHN, SAAEAPS (#CMS-DFCT86153)

**Description:** The fix for problem resolution (#CMS-DFCT69085) did not include the second reported issue. When the SARETMT process was run against the EDI (TS189) applications, error messages were received if a phone number was more than 12 characters in length, such as a European phone number.

**Impact:** SARETMT ran with errors if EDI phone numbers were longer than 12 characters.

**Resolution:** Functions have been modified in SARWPHN to accommodate phone numbers that are longer than 10 characters. Triggers in SAAEAPS have been modified for EDI phone numbers. SAKL050 has been modified to load the EDI phone number with the SAAERUL length into the international access number.
SAKL090

(#CMS-DFCT87475)

Description: During the applicant load process, prior college information was pushed into Banner, but the message *No Previous College Records Found within Application* was displayed.

Impact: Records were pushed but were not showing up in SAAEAPS.

Resolution: The calls to *f_cnt_pcol* and *f_cnt_degr* have been modified to pass the AIDM not the PIDM.

SAKL090, SAAEAPS

(#CMS-DFCT104801)

Description: During the applicant load process, prior college information was pushed successfully into SOAPCOL. However, in the Review Results window on SAAEAPS for procedure P900, the message *No Previous College Records Found within Application* was displayed.

Impact: Records were pushed but were not showing up in SAAEAPS.

Resolution: The calls to *f_cnt_pcol* and *f_cnt_degr* have been modified to pass the AIDM not the PIDM.

SAKP140

(#CMS-DFCT104163)

Description: An application failed the P140 verification test if the college name was entered manually. The process could be overwritten, but errors were still encountered. If a high school name is entered manually, the verification should be processed without error.

Both high school and college processing should be performed the same way. When rules are set up to override the establishment of a high school or prior college, the process should override the verification error. The high school and college codes do not have to be cross-referenced on SOAXREF in order to be loaded.

Impact: When a prior college was manually entered on a self-service application (not using lookup), and this application was pushed, an error was received.

Resolution: When a prior college is entered either manually or by using lookup, and the application is pushed, the information will be processed correctly.

SOKAIN1

(#1-OS8ZS)

Description: When SORAINF was run, an error occurred, and the process (SOKAINF) failed to create dynamic SQL when using the EPSC code for school codes.

Impact: Users could not run administrative assignments with the EPSC code on the high school and prior college.

Resolution: The size of the variables in the *sokainf.p_assign_admin* procedure has been increased as follows:

```sql
select_clause VARCHAR2(500);
query_str VARCHAR2(20000);
temp VARCHAR2(500);
where_clause VARCHAR2(10000);
new_adda_code VARCHAR2(500)
```
SOKAIN1

(#1-PRK8M)

Description: When the SOAADAS rule contained multiples of the same data elements within the assignment rules, the rule did not work. The system used an AND operator when presented with multiple assignment rules instead of an OR operator.

Previous versions of Banner allowed users to build assignment rules with multiple records of the same code for different values. For example, they could build rules with many GORSGEO_HSCG_GEO_CODE values, each with different regions, and the SORAINF process would assign advisors accordingly. However, the current version does not allow this. If more than one GORSGEO_HSCG_GEO_CODE is entered, then system will not use the selection. If one code is entered, then only students that meet that requirement will be assigned.

Impact: User must split rules up so each common element is on a separate rule.

Resolution: Code has been revised to bring back the previous functionality. A new rule_elements_c cursor has been created to group all variables together. The rule_item_c cursor has been revised to have a parameter for the STVADDA code. For each STVADDA code read in rule_elements_c, values are read using the rule_item_c. If more than one rule_item_c is found for an element, it is joined with an OR operator.

SOKCPLN

(#CMS-DFCT77801)

Description: Duplicate materials may have been created by communication plans within terms when the duplicate rule was "allow duplicates only across terms". Duplicate letters/materials could have been scheduled incorrectly by the communication plan process within terms, when the duplicate rule was for across (Across checkbox was checked, set to Y) and within (Within checkbox was unchecked, set to N). When the Within checkbox was not checked on SOADPMR, but the Across checkbox was checked, multiple letters of the same name should not have been assigned by the communication plan process for the same term.

Impact: This impacts the assignment of materials with a duplicate rule that allows for processing across terms but not within terms. If a material was assigned and printed for term A, then later assigned and printed for term B, the material may be reassigned to term B, as only the Across checkbox was being considered.

Resolution: A cursor has been added to the NO_DUPLICATE_PRERMITTED function to consider if the material was previously printed for the same term. The new cursor operates after student processing to find if the material has already been printed for recruits and applicants within the same term. A condition has been added to the logic for when the printed term and processing term from the communication plan are different.

SOKCPLN

(#1-IL8NV)

Description: Since SOACOMM has been changed to accommodate field of study type and curricula, there is an issue with SOAMATL. The selection of the learner field of study for a student does not consider the major field of study type.

Impact: Learner materials can be assigned incorrectly based on a curriculum field of study code that meets the SOAMATL major code rule. Only when the curricula
field of study type is MAJOR and the curricula field of study code is SOAMATL for
the major code rule should learner materials be assigned.

Resolution: The STDN_CURSOR cursor in the NO_SORMMJR_MATCH function has been
updated to include "and sovlfos_lfst_code = sb_fieldofstudy_str.f_major".

SOKEMA1  
(#1-7BFR7)
Description: When SOREMAL was run, the following errors were received: ORA-
29278 : SMTP transient error: 421 Too many concurrent SMTP connections from this IP:
and *ORA ERR*:30678 ORA-30678: Too many open connections.

In the Oracle mail process, UTL_SMTP requires acknowledgment from the SMTP
server, and if the email address is not found, the connection remains open. Within
several thousand emails, there are potentially dozens of bad email addresses, and
each one leaves the SMTP connection in the database open. Eventually Oracle
complains with two error messages.

Impact: Users had to flush the shared pool to continue processing.

Resolution: Code has been added to the exception handling portion of procedure.
If an error is encountered, a utl_smtp.quit(mail_conn) is issued to close out the
mail connection, so as to not leave extraneous connections open.

SOKLCU1  
(#1-NS09Z)
Description: When a student had primary and secondary curriculum records for
one term, then just had a primary curriculum record for the next term, in some
cases, the conversion of the curriculum records was incorrect.

Impact: For each secondary curriculum record, the conversion incorrectly reads all
SGBSTDN records to see if the secondary record is no longer present. It creates an
inactive secondary record for the term if no curriculum is found.

Resolution: A sort of the SGBSTDN effective term code has been added to the query
in f_convert_learner. The cursor in sorlcur_c in p_convert_curr has been
changed to only select the active curriculum records. This is used to check if the
curriculum for a record has already been converted. Code has also been modified
to only review the SGBSTDN record with the next term that is greater than the one
that is being converted.

SOKLCU1  
(#1-W63MX)
Description: The priority on the outcome curriculum must match the priority on
the learner curriculum.

Impact: This only impacts users who make changes to a second learner curriculum
that was rolled to history and whose curriculum has a different priority.

The issue is the conversion needs to preserve the learner curriculum priority on the
outcome curriculum record. If the learner curriculum that was rolled is a priority 2,
the new outcome curriculum created in the conversion needs to also have a priority
2. The grade roll will always preserve the learner curriculum priority. When
changes are made to the learner curriculum record, the roll process will copy it over
to the outcome record with the same priority.
The roll process needs to preserve the learner curriculum priority to account for additions of a second curriculum.

For example, the student has the following learner curriculum: priority 1, level *UG*, degree *BA*, college *AS*, and major *HIST*. The student takes courses which are rolled, and the first outcome record is created with the above curriculum. The learner later adds a second priority 2, level *UG*, degree *BA*, college *AS*, campus *D*, and major *ART*. The grade roll process will add this new curriculum to the first degree, as it matches the level, college, and degree of the first outcome curriculum. In this case, the priority 2 should not be changed to 1, as this would make the first curriculum non-current on the outcome.

The workaround is to always check the priority on the outcome and learner records to verify they match before making a change to the learner curriculum. If the priorities do not match, the learner curriculum will be rolled, creating a new outcome curriculum with a different priority. To prevent the second curriculum from being created, you can perform a non-destructive update on the outcome curriculum to change its priority number to match the learner curriculum.

**Resolution:** The outcome curriculum priority has been updated to match the learner curriculum priority that was determined to be the source of the outcome curriculum during the roll process. `soklcur.p_convert_curr` and `p_learner_lcur_rolled` have been modified.

Processing changes include:

- Sending the learner priority back to the conversion when the learner is matched to an existing outcome.
- Changing the learner rolled match to include the campus, only if another curriculum record exists with the same level, college, degree, and program.
- Changing the `p_convert_curr` outcome process to execute `p_learner_lcur_rolled` before the curriculum `p_create`. The learner priority is sent back and used in the insert of the outcome curriculum.

**Scripts**

**supdwapf.sql** (#1-G01YU)

**Description:** Seeded values for MAJOR1 and MAJOR2 needed to be deleted, as they are no longer used in self-service.

**Impact:** Seeded values for MAJOR1 and MAJOR2 are no longer valid values for Student Self-Service admissions processing. These values have already been deleted from STVWSCF in baseline.

**Resolution:** The following code has been added at the end of the `supdwapf.sql` script, which updates all of the MAJOR1 and MAJOR2 codes in SARWAPF.

```
delete from stvwscf where stvwscf_code = 'MAJOR1';
delete from stvwscf where stvwscf_code = 'MAJOR2';
```
API

sb_application_decision (#1-N7NTT)
**Description:** The sb_application_decision API on the SARAPPD table was missing GURMESG data.

**Impact:** This was a technical issue that did not impact the end user.

**Resolution:** A GURMESG insert statement is contained in the sinsmsg731.sql script to create the missing record.

Banner View

SAVEAP1 (#CMS-DFCT103370)
**Description:** Records were not always created in the view, when a Web admissions application was created.

**Impact:** No name is displayed on the Signature Page of the Web admissions application. An Oracle error is displayed when you try to complete a QuickStart admissions application. Users cannot proceed into Student Self-Service, and no matching occurs. No general student record is created.

**Resolution:** Code in the view has been modified to not use 0 for SABIDEN when it is null.

Reports

SAR189U (#CMS-DFCT92016)
**Description:** The coding for the SAR189U process did not allow nation code to be pushed into Banner through SARADDR.

**Impact:** A missing value in the insert code prohibited the nation code from being pushed.

**Resolution:** The process_n3840_rec has been modified to include the creation of SARADDR_NATN_CDE on the insert statement.

SAR189U (#1-DL34B)
**Description:** The load process placed the middle initial and suffix from the TS189 format in the **Middle Name** and **Suffix** fields on SPAIDEN and the **Middle Initial** and **Suffix** fields SOAFOLK. This information should only be valid for SPAIDEN and should not have been duplicated to SOAFOLK.

**Impact:** The middle initial and suffix values were improperly populating associated names.

**Resolution:** This has been corrected. All fields at the beginning of the procedure have been initialed in process_in2440_rec. This includes: name_prefix, first_name, middle_name1, middle_name2, last_name, first_init, middle_init1, middle_init2, name_suffix, nickname, and combined_name, former_name.
SAR189U  (#1-DDDZT)
Description: The process was incorrectly hardcoded regarding the translation for the IN2 records.

#define NICKNAME_IND "12" should be code 18.
#define COMBINED_NAME_IND "16" should be code 12.

Impact: The nickname/preferred name was not being loaded into Banner. Nickname is a name code of 18, which is correct according to www.pesc.org/ts189 layout. SAR189U is looking for a code of 12 to load data in the nickname column. A code of 12, according to the TS189 layout, is a combined (unstructured name).

Resolution: The define statements have been modified. NICKNAME_IND has a value of 18. COMBINED_NAME_IND has a value of 12.

SAR189U  (#1-7B4P9)
Description: The Application Type parameter is optional, but if you do not enter a value, the program is not reading the application type from SAAERUL. An additional pointer needs to be added to the first IF statement in the init_wapp_code function. This should enable the user to leave the Application Type parameter NULL.

Impact: The application type was missing if the parameter was not entered.

Resolution: The init_wapp_code function has been modified to get the application type code value (STVWAPP) only if Web application code was not supplied.

SAR189U  (#CMS-DFCT85649)
Description: When TS189s were uploaded into Banner, an error occurred: ORA-01480: trailing null missing from STR bind value. This happened because on the TS189 file, GPA is an optional field (according to EDI.Smart mapping), but SAR189U requires it. So if the GPA was missing within a PCL_2200 segment, processing stopped.

Impact: The process stopped with an error if the GPA (which is optional) was missing.

Resolution: The process_sse1280_rec has been modified to correct this.

SAR189U  (#1-DOUF9)
Description: The Term parameter is optional, but the process does not work when the parameter is NULL.

Impact: The term code was missing if the parameter was not entered.

Resolution: The process_sse1280_rec has been modified to only call find_entry_term when the value in the Term parameter is NULL.

SOPLCCV  (#1-S4D5D)
Description: If a student had a previous secondary curriculum record in SGBSTDN, and for the current term that same curriculum was missing a level code (SGBSTDN_LEVL_CODE_2), SOPLCCV would convert the complete secondary
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The process should issue the Missing Level error in the SOPLCCV log file.

**Impact:** Users need to execute the srsoplccv2.sql report to show missing data and correct errors before running the conversion.

**Resolution:** The process now checks for a missing level, college or degree in the secondary curriculum. The conditional of secondary curriculum in p_convert_curr has been changed to verify that the level, college, degree are all populated. The conditional statement that checks for future occurrences of a secondary curriculum has been changed to check that the degree and college are populated.

**SURDELT**  
(#CMS-DFCT81504)

**Description:** The User parameter was only eight (8) characters in length, while the size of the user ID on GURMAIL was 30 characters. If the value in the User parameter was greater than eight characters, you were unable to use this job to remove letters.

**Impact:** Deleting GURMAIL records that had a username that was longer than eight characters was not possible using SURDELT and had to be done through SQL.

**Resolution:** The character variables for the parameter (user, temp_user, and ask_user) have been changed to CHAR31 to hold the user ID. (The change had already been made on GJAPDEF.)

All user variables have been changed to hold 30 characters. This resolved the issue where the “get input for the user from the host” was still set at nine (9), which caused the program to crash if a user ID greater than nine characters was entered.

An issue also existed where the “get input for the user selected from the job submission table” was set to nine (9), instead of 09. The user value was never selected from the table, regardless of its size. The selection value has been changed to 09.

**General Student Module**

Forms

**SGAADVR**  
(#1-MLNVB)

**Description:** After assigning an advisor ID on SGAADVR, if the Options Menu was used to call SGASTDN, the ID in the Key Block of SGASTDN was that of the advisor, and not the student.

**Impact:** SGAADVR was not retaining the student ID when SGASTDN was accessed. This may have caused the wrong ID to be sent to SGASTDN.

**Resolution:** Changes have been made to the Detailed Student Information Options Menu item on GUAOPTM for SGAADVR that calls SGASTDN.
SGAASST, SGAASTQ

**Description:** SGAASST was incorrectly incrementing the sequence number. (Sequence numbers are generated as a one-up number for everyone, rather than a one-up number for the specific ID.) Once the sequence number reached 9999, when you tried to insert a comment into the SGRACMT_TEXT field, the *Cannot insert record error* was displayed.

The call to SHADGMQ for Count Query Hits and the Options Menu did not work unless you were on a curriculum element. Also, all code fields passed the extended search, but if you entered a value and then cleared it out, the description was not cleared.

If you used the name search for the supervisor in the SGRASSI block and then accessed a form like SGASTDN from the Option List, the supervisor's ID was sent to SGASTDN instead of the student's ID.

**Impact:** Users could not insert comments with the same term and category for more than 999 students. They had to create a new category code. The workaround is to create a new category code for every 1000th comment entered. The SGRACMT_SEQNO is incremented within category and term, not by person. This may have caused an overflow if more than 999 comments exists for this combination.

**Resolution:**
Code has been modified to narrow the requirements for the sequence in the cursor in the SGRACMT block PRE_INSERT trigger. The KEY-QUERY has been moved from the program, level, college, degree, major, and department to one trigger at the block level. Logic has been added to fetch these values when a degree is selected from SHADGMQ. The POST-TEXT-ITEM trigger has been dropped and added, and the class code has been reapplied to all code fields in the SGRASSST block. The CALL_WHICH_FORM form level trigger has been changed to set the global ID to the Key Block ID, which will be the students. On the Faculty module forms, the global ID is set to the faculty member on the record/block. SGAASTQ has been modified so the WHEN_NEW_FORM_INSTANCE trigger code sets the action and Select button to be enabled if the form is not called from the menu.

SGASTDN

**Description:** When a learner record and curriculum exist, and the student is admitted through SAADCRV with the user electing to update the learner and curriculum, if the user then goes into SGASTDN and attempts to update only the learner data, i.e., **Student Type**, the form does not allow you to save the change. The error message *"ERROR* Enter an active primary major for the curriculum." is displayed. If you navigate to the Field of Study block without making any changes and perform a Save, the Save is successful.

**Impact:** Users could not save learner data at an appropriate point in the curriculum process.

**Resolution:** This functionality is now working correctly.
SGASTDN (#1-S4AZV)
**Description:** You could click on the View Current/Active Curricula checkbox from Curriculum window and the Field of Study window.

**Impact:** Users could mouse click into the Key Block checkbox from anywhere in the form.

**Resolution:** Triggers have been modified to correct this.

SGASTDN (#CMS-DFCT99543)
**Description:** When SGASTDN was called from SGASADD, SGASTDN was running in query-only mode, and the database fields could not be changed.

**Impact:** Oracle does not provide a way to tell if a form is called in query-only mode. Please refer to Oracle Note “Note:118449.1 Subject: How To Detect Whether a Form is called in query-only mode?” for more information.

We can tell if the form is running with a query-only role. In those cases, we are able to disable the buttons so the user cannot select them. When a form calls another with the Curriculum window as query-only, the maintenance buttons (Replace Curriculum, Update Curriculum, Inactivate Field of Study) in the window are enabled and will produce errors if selected. If the user has ban_default_q for the form with the Curriculum window, the maintenance buttons can be disabled.

There are four forms that call one of the forms (SGASTDN, SHADEGR, SAAADMS, SRARECR) with the Curriculum window in query-only mode: SGAADVR, SGASADD, SGASPRT, and SHAINST.

**Resolution:** A new global.curriculum_query global variable has been added. It is set to Y before SGASTDN is called and set to N after the call. In the Curriculum window, the three buttons (Replace Curriculum, Update Curriculum, Inactivate Field of Study) check if the global is set to Y. If it is, an error message is returned that the form is running in query-only mode, and the operation is not allowed.

SGASTDN (#1-425U1)
**Description:** When an SGASTDN record was removed from the form, the form did not remove the record properly.

**Impact:** When the last SGBSTDN record is deleted, the user is prompted to enter an effective term code on the blank record. The user then has to use Rollback and Save at the prompt in order to complete the delete process.

**Resolution:** The WHEN-NEW-RECORD-INSTANCE trigger on the SGBSTDN block has been changed to refer to the form_header.sgbstdn_delrec_ind instead of the form_header.delrec_ind. The two indicators are set at different times. The sgbstdn_delrec_ind is set in the KEY_DELREC trigger and will signal the when WHEN-NEW-RECORD-INSTANCE trigger to not execute the query.

SGASTDN (1-D2QRB)
**Description:** If an SGBSTDN record was deleted and its associated curriculum record (for the same effective term) was not, then a curriculum record with a future effective term may have been displayed for a previous SGBSTDN record. Also, the
curriculum that was displayed on a transcript for a term may have been one that had a later effective term.

**Impact:** The user had to manually delete the curriculum record that applied to the learner record. The curriculum record was only deleted automatically when the last learner record was deleted.

**Resolution:** A new alert has been added that is displayed when you delete an SGBSTDN record in which a curriculum record with the same term code exists. The alert lets you delete the existing curriculum record along with the SGBSTDN record, only delete the SGBSTDN record, or view the existing curriculum record.

**SGASTDN, SGASTDQ**

**Description:** When a specific term was entered in the Key Block of SGASTDN and the Student Summary button was selected, only the data for the specified term was displayed on SGASTDQ. Data from SGBSTDN should have been displayed for all terms that were less than or equal to the specified term.

**Impact:** Users had to clear out the term code in the Key Block to view all the SGBSTDN records for terms greater than the Key Block term.

**Resolution:** The **WHERE** clause on SGBSTDN has been changed to consider terms that are less than the term in the Key Block.

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### Registration Module

**Forms**

**SFAREGS**

**Description:** When using SFAREGS, you may encounter the error: *FRM-40735: POST-CHANGE trigger raised unhandled exception ORA-01801*. This error occurs in 10.x databases because of missing format masks. This issue is related to Oracle Bug 3944226: *ORA-1801 if NLS_DATE_FORMAT is changed in the session*. The ORA-01801 error may also occur on other forms. See problem resolution (#1-SLWUW) for SOQOLIB, also in this “Problem Resolutions” section.

**Impact:** This affected internationalization processing needs.

**Resolution:** A new date format has been added to the `select_stvrsts_7` and `select_stvrsts_query` functions to correct this. The `ESTS_RSTS_CHANGE` form-level trigger on SFTREGS has also been modified.
SFAREGS (#1-Q4IBT)
Description: Two issues may have occurred when the enrollment status code (ESTS_CODE) was changed:

1. When the enrollment status code was changed to one that affected course status, the course registration status codes (RSTS_CODE) were always changed, even if Affect by Student Status was unchecked.

2. When the enrollment status code was changed to one that prevented registration, you received an error: FRM-40700: No such trigger: CHECK_OUT.

Impact: Incorrect course registration status codes could result from changing enrollment status codes.

Resolution: The EXIT_BLOCK2 trigger in the SFBETRM block has been modified, and another trigger (ESTS_RSTS_CHANGE) has been restructured to correct this.

SFAREGS (#1-GB1M5)
Description: When an enrollment status was saved that affected the course status, the cursor stayed in the SFRSTCR block. You could use Rollback, and accept the alert to save the changes, but the course status was not saved with the new value, and fee assessment was bypassed.

Impact: When the enrollment status (STVESTS) affects the course registration status (STVRSTS) it is possible to Rollback without assessing fees.

Resolution: This has been corrected with the changes made for problem resolution (#1-F00M6).

SFAREGS (#1-QHPC5)
Description: Grades that had been entered into SFRSTCR but not yet rolled to history could disappear if that course’s registration status was overtyped (with no actual change of status) and saved on SFAREGS. No warning or error message was displayed.

Impact: When course is graded, but not rolled, and the user overtypes the course status registration code, the grade is nulled out.

Resolution: The STVRSTS_GRADABLE_IND field has been added to the SFTREGS block. This field is used "behind the scenes" for processing. It is not displayed on the form. The SELECT_STVRSTS_QUERY function has been modified to select the value in the field. The COPYGRADE trigger on the SFTREGS_RSTS_CODE field has also been modified.
SFAREGS  (#CMS-DFCT90399)
Description: When time status history records (SFRTHST) were inserted manually, the following occurred. If the user performed the Insert Record function and entered a new record, then changed the time status date (SFRTHST_TMST_DATE), and then once again performed the function to insert another record, the time status description and default time/date values were missing in the second inserted record.

If the user entered a record, changed the date, saved the record or exited from the form and then came back into the form to insert a new record, the problem did not appear.

If the user entered a record, did not change the date, and then inserted another record without leaving the form or saving the record, the problem did not appear.

Impact: Values were missing when records were inserted and the time status date was changed.

Resolution: This was corrected as part of other UI changes.

SFAREGS  (#1-QOPGJ)
Description: A error was returned if the date in the Key Block was later than the ending status date for one of the course registration statuses.

Impact: An incorrect status date error occurred.

Resolution: This was corrected with other changes that were made to the form.

SFAREGS, SFKFEE1  (#1-F00M6)
Impact: The SFRSTCR_CREDIT_HR_HOLD and SFRSTCR_BILL_HR_HOLD fields were not populated if the course registration status code of \textit{RE} was set up to not count in enrollment or assessment (\textit{Count in Enrollment} and \textit{Count in Assessment} unchecked). Then, when the course registration status code was changed to one that did count in enrollment and assessment (\textit{Count in Enrollment} and \textit{Count in Assessment} checked), credit/billing hours remained at zero and were not updated to valid values.

Also, an Oracle error was received in certain circumstances where courses were added using block scheduling, the user returned to the SFBETRM block without saving those changes, changed the enrollment status code (STVESTS) to one that affected the course registration status code (STVRSTS), and then deleted the courses and the SFBETRM record, still without having saved the changes.

Impact: Credit and billing hours were not populated with valid values. Navigation caused an Oracle error.

Resolution: Code has been modified in SFAREGS and SFKFEE1 to correct these issues.
SFAREGS, SFKOLR1

(#1-NM90P)

**Description:** When a course registration status code (STVRSTS) was used prior to the start of the section, a zero percentage was returned, not a negative percentage, which may have caused incorrect refunding results.

**Impact:** Open learning course registration status codes set from zero usage cutoff do not produce correct results.

**Resolution:** SFKOLR1 has been modified so that `f_calculate_pct_complete` and `f_calculate_duration_complete` return negative numbers as calculated. If calculated values for `percent_complete_out` or `duration_complete_out` will exceed the field length, the largest allowed values for the field size are defaulted.

Code was also added to `f_cutoff_reached`, so the 0-0 percent STVRSTS rule will work as documented.

Code was added to the SFTREGS block of SFAREGS to correct issues that occurred when an open learning course was reinstated.

SFARGFE

(#CMS-DFCT106126)

**Description:** The field size for the Student Attribute field was too small to display data correctly and legibly.

**Impact:** Various fields needed to be expanded for better display of data on the form.

**Resolution:** The following fields have been resized/enlarged to show as much information as possible:

- Course Level
- Course Attribute
- Student Type
- Student Attribute
- Grade Mode
- Instructional Method
- Schedule Type
- Program
- Residency
- Degree

SFARGFE

(#CMS-DFCT104752)

**Description:** The form displays two records for each rule type. The Residency field shows a Search button but only on the first record. This button was always missing from the Residency field for the second record displayed in the window. This occurred for each of the four rule types. You could still perform a List function from the field or double click on the field to see the List of Values from STVRESD.

**Impact:** The missing button could confuse the user as to the field having a List of Values.

**Resolution:** The property palette of the `SFARGFE_RESD_CODE_LBT:RECORDS:` has been modified so that the Number of Records Displayed is 2.
SFARGFE (#CMS-DFCT105931)

**Description:** When the List function was used from the Detail Code field, the sort order for the detail codes appeared to be by activity date. On SHADEGR (Graduation Information Fee field), the sort order is numeric followed by alpha. SFARGFE should use the same sort order.

**Impact:** The sort order was not consistent with other forms and was not meaningful.

**Resolution:** This has been corrected. In the TBBDETC_RG (Record Group), the ORDER BY TBBDETC_DTL_CODE has been placed in the SQL statement.

SFAALST, SFASLST (#1-4Y4FH)

**Description:** When no students were registered for a section, and you used a Rollback from the main block, messages were generated for: No student record found, and No student level for student, and the user remained in the main block. The only way to return to the Key Block was to use Exit and re-enter the form.

Also, when an autograde change was made, you had to respond OK to the pop-up message. If you saved the change before the pop-up was displayed, the grade change was saved, with no way to back it out. The pop-up should have a YES/NO option so that mistaken autograde changes can be backed out.

**Impact:** Rollback was not working properly when there was no enrollment for a section, and the autograde process did not allow you to correct mistakes.

**Resolution:** The WHEN-VALIDATE-ITEM trigger on the SFRSTCR_GRDE_CODE (SFAALST) and SFRSTCR_GRDE_CODE_MID (SFASLST) fields has been modified. The AUTOGRADE_ALERT property sheet has been modified to display the message Student was autograded by registration. Do you want to continue with this grade change? and to contain a YES/NO option. The SHOW_AUTOGRADE_WARNING trigger in the SFRSTCR block has been updated to reset the autograde if the user select NO in response to the pop-up message.

SFATMST (#CMS-DFCT90325)

**Description:** Problem resolution (#83337) was not corrected for Release 6.0 as stated. An incorrect validation table was referenced in the Dynamic Help.

**Impact:** When field level Dynamic Help is called for SFRTMST_TMST_CODE, the referenced validation form is STVSTYP. It should be STVTMST.

**Resolution:** The field description in the Dynamic Help comes from the comments on column. This has been corrected, and the sfrtmst1.sql script is delivered to update the comments on column at your site.

SFAWDRL (#CMS-DFCT85058)

**Description:** When a record was deleted, the form performed the action immediately, rather than requiring you to do the Remove Record, then do a Commit (Save). The record was removed successfully, and the displayed message indicated this, but it was different behavior from other Banner forms which require you to save the deleted change. As a result, you did not have the opportunity to decide that you really did not want to perform the Remove Record.
Impact: When doing a record deletion on SFAWRDL, the form does the delete immediately, instead of asking user to confirm or requiring a Save be performed.

Resolution: The ON-COMMIT trigger has been modified to correct this and to track changes using the new CHANGE_IND.

SFAWDRL

 (#1-DET4F)

Description: Users that had query only access to SFAWDRL were receiving multiple error messages when the student being accessed did not have a withdrawal record (no row in SFRWDL). The form error was: FRM-40208: Form running in query-only mode. Cannot change database fields.

Impact: Users received errors when withdrawal records did not exist for the student.

Resolution: The CHECK_KEYS trigger has been modified to correct this.

SFIWDRL

 (#CMS-DFCT96216)

Description: When a withdrawal code was entered that was identified as a mid-point code, the Percent Attended value was correctly displayed as 50% on SFAWDRL, regardless of the number of days attended. SFIWDRL uses the days attended to calculate the percent attended. Therefore, the percent displayed on SFIWDRL could be different than the value that was displayed on SFAWDRL when a mid-point code was used.

Impact: The Percent Attended value was not calculated the same way on the two forms, which could lead to different values being displayed for the same item.

Resolution: Code has been modified so that the calculation of leave percent is consistent between SFIWDRL and SFAWDRL.

Packages

SFKCUR1

 (#1-DX5R6)

Description: Users could not view grade detail (bwsksmrk.p_write_grade_detail) for a traditional course (that had a part-of-term defined) when using the section level controls on SSAWSEC. The course was listed on the Section Grade Detail page in Student Self-Service, but users received the following error when clicking on the link: No grades on your record are available for this term and section.

Impact: An unnecessary error occurred during processing.

Resolution: The SFKCURS cursor (sfkcurs. marked_reg_terms_c), which is used to determine which terms have grade details available, has been modified to remove the open learning registration course restriction. The following clause has been commented out: AND ssbsect_ptrm_code IS NULL.

SFKFEES

 (#1-PXAKC)

Description: Fee assessment was incorrectly processing additional fees when the student enrollment status on SFAREGS was "withdrawn". TSAAREV and SFAAUD
incorrectly reflected multiple entries for additional fees. There was one entry on SFAEFEF. However, an additional fee was assessed each time assessment was run.

**Impact:** Additional fees were being incorrectly assessed.

**Resolution:** The changes that were made for problem resolution CMS-DFCT89864 have been removed. It has been determined that CMS-DFCT89864 was not a problem resolution, and after a student is considered withdrawn, no optional fees may be assessed through registration, but rather must be assessed directly in Accounts Receivable. Registration may add and assess the optional fees, and then you can withdraw the student if necessary.

### SFKFEES, SFKFE1 (#1-PX0E9)

**Description:** When refund by course was used with swapping, and a swap was performed using flat rules with equal drops and adds, an incorrect assessment may have been produced.

**Impact:** Assessment produced incorrect results when the total registered hours were initially an overload, then swapping occurred from overload to above the flat range, then back again to overload.

**Resolution:** Some ambiguous IF conditions were modified to make sure that flat and overload processing were being handled in the correct way. Student fees, level fees, campus fees, and attribute fees were all affected by the modifications. Also, the SWAP_RBC_EQUAL logic in the p_process_hours_swap was moved to a different IF condition.

### SFKFEES, SFKFE1 (#CMS-DFCT104070)

**Description:** When refund by course and flat charge processing were used and swapping was enabled, if a student fell below a flat charge rule as a result of swapping, the calculated liable hours were incorrect.

**Impact:** An incorrect assessment was received when swapping occurred after a flat assessment was performed during refund by course processing.

**Resolution:** Procedures and functions have been modified to correct this.

- `p_init_global_vars` has been updated to initialize all the variables created.
- `p_process_hours_swap` has been updated to:
  - use penalty hour reversals in the case of re-evaluation for swapping, and
  - check if drop and add hours are the same (both are greater than 0) during swapping, then make sure that there will be no change in the liable hours.
- `p_studentfees, p_levelfees, p_campusfees, and p_attributefees` have been updated to:
  - check for swapping when computing penalty hours,
  - set current liabilities for `TUI` and `FEE` to 0 when drop and add hours are the same during swapping,
  - produce correct calculations for billing and waived hours when multiple drops occur in succession, and
- produce correct calculation of liable billing and waived hours during swapping.

SFKFEE1
(#CMS-DFCT104708)

Description: When refund by course was used and swapping was enabled, when different part-of-term refund rules were in effect and the student dropped courses in each part-of-term that were saved at the same time, only the refund rules from the part-of-term of the highest numbered CRN were used to calculate the refund.

Impact: When swapping was enabled and a student dropped multiple parts-of-term that were saved at the same time, incorrect assessment occurred.

Resolution: Since no actual swapping is taking place, a condition has been added to check for dropped hours and added hours that are greater than 0. Dropped hours and added hours must exist for swapping to be considered.

SFKFEE1
(#CMS-DFCT104171)

Description: When refund by course was used with a per billing hour rule and swapping was enabled, the second time swapping occurred for a term for a student, the results were incorrect. Instead of a swapping occurring, fee assessment calculated refund by course liable hours for the course that has been dropped.

Impact: When swapping was enabled during refund by course processing, and swapping occurred a second time for a student, an incorrect assessment resulted.

Resolution: Procedures and functions have been modified to correct this.

- `p_init_global_vars` has been updated to initialize all the variables created.
- `p_process_hours_swap` has been updated to:
  - use penalty hour reversals in the case of re-evaluation for swapping, and
  - check if drop and add hours are the same (both are greater than 0) during swapping, then make sure that there will be no change in the liable hours.
- `p_studentfees`, `p_levelfees`, `p_campusfees`, and `p_attributefees` have been updated to:
  - check for swapping when computing penalty hours,
  - set current liabilities for `TUI` and `FEE` to 0 when drop and add hours are the same during swapping,
  - produce correct calculations for billing and waived hours when multiple drops occur in succession, and
  - produce correct calculation of liable billing and waived hours during swapping.

SFKFEE1
(#CMS-DFCT96775)

Description: When using refund by total with section fees defined on SSADETL that had a flat fee type and a category code other than `TUI` or `FEE`, refunds were not processed when a registration status code was used that fell within a refunding period and the student fell out of a SFARGFE rule. If the fee type was changed to
BILL, the section fees were refunded. The GTVSDAX FAREVNRF rule had the External Code set to Y.

**Impact:** Section fees were not processed properly during fee assessment.

**Resolution:** A date formatter has been added to make sure refunding processes a four-digit year when a two-digit year is present in the refund by total refund date. The p_sectionfees procedure was also modified to correct this.

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**SFKFE1**  
(#1-MRADA)  
**Description:** If batch assessment (SFRFASC) was run for a batch type of C (Collector), a student may have been incorrectly assessed using a SFARGFE rule they did not qualify for when using part-of-term rules, a traditional course, and an open learning course.

**Impact:** Assessment was not calculating fees correctly when parts-of-term were used.

**Resolution:** Code has been modified to initialize the part-of-term variable from p_global_init_var so that the previous part-of-term will not be mistakenly re-used on the next record.

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**SKFPIP1**  
(#CMS-DFCT104987)  
**Description:** The SFBPIPEC cursor didn’t check if the qdepth of the next pipe to be used was greater than or equal to zero.

**Impact:** The process could try to select a pipe for use that has had a timeout condition set, resulting in a negative value for the qdepth.

**Resolution:** The SFBPIPEC cursor has been modified to return pipes with a qdepth value that is greater or equal to zero, avoiding pipes with a negative value.

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**SFKPRE1, SKFPIP1, SFRRGAM**  
(#CMS-DFCT102399)  
**Description:** SFRRGAM was not reporting failed inprogress prerequisites when the prerequisite was set up as a CAPP area prerequisite on the course/section with a minimum grade. This was because CAPP was not setting the SFRSTCR_PREQ_OVER to I when an inprogress course was used to satisfy the prerequisite. The indicator must be set to I for the process to work correctly.

**Impact:** Reports generated by SFRRGAM did not identify students who failed inprogress courses used to satisfy prerequisites at the time of registration when the prerequisite was defined in a CAPP area.

**Resolution:** The CAPP portion of the code did not call the p_update_registration_ovr after running the CAPP area prerequisite. The f_cappreq_source function has been added to correct this. If a course is inprogress, the _update_registration_ovr(x,x,x,'I','O',x) is called to indicate that the course used was inprogress. Therefore, these courses will be selected in the p_open_registration_c cursor.

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**SFKFUN1**  
(#1-OBHJD)  
**Description:** A time conflict occurred when a student attempted to register for multiple open learning sections that started at the same time of day, even though
the end date for one course was prior to start date of the other course. This occurred on both SFAREGS and in Self-Service.

**Impact:** An incorrect time conflict may occur on an open learning course when no time conflicts exist.

**Resolution:** The `p_check_time_sftregs` and `p_check_time_wl_sftregs` procedures have been modified to use the SFTREGS start and completion dates for open learning courses. The SSRMEET start and end dates will only be used for traditional courses.

### Reports

**SFRFEES**

(#CMS-DFCT104003)

**Description:** Warnings were received in the `.log` file if a SFARGFE rule had a flat charge amount that was greater than 99999.99. Also, a warning was received if a course had many attributes defined on SSADETL. The same warning was received if the SFARGFE rule number was a four-digit number. None of these conditions caused the report fail.

**Impact:** Warnings appeared in the log file for the output that were unnecessary.

**Resolution:** Table 14 in the code (used for formatting a report) has been adjusted from 98,105 to 98,106. Also, another variable has been created (`attr_str_temp`) to store a 22 character long attribute.

**SFRFEES**

(#1-BTD7Y)

**Description:** When SFRFEES printed the SFARGFE rules used for the student’s assessment, it rounded the Liable Hours To and the Flat Charge Hours To up to the next value if the rule had three or more numbers to the left of the decimal.

**Impact:** The process was incorrectly rounding up values when the assessment was performed.

**Resolution:** This has been corrected. The `TRUNC` function in `sfrrgfe_cursor` in `get_rules_detail()` in SFRFEES is used to reduce the three decimal places to two decimal places.

**SFRNSLC**

(#1-L1F26)

**Description:** In the SFRNSLC process, for the error message `SGASTDN Grad Date precedes term end`, the word “precedes” was misspelled.

**Impact:** The error message contained an unnecessary spelling error.

**Resolution:** The word “precedes” is now spelled correctly.

**SFRNSLC**

(#CMS-DFCT80233)

**Description:** The process was failing to show errors on records that had SSN numbers that contained characters and ZIP codes that were less than five digits in length.
Impact: Banner properly allows SSN numbers to have characters, as well as numerals, for a variety of reasons. The process is letting any records through that contain characters. However, the National Student Clearinghouse does not allow the SSN to have characters, only numerals. The process should be catching these records in the error output.

Banner users are able to enter ZIP codes that contain less than five digits. However, the National Student Clearinghouse requires a five digit ZIP code. The process is allowing these type of records through. It should be collecting them in the error output.

Resolution: A validate_ssn function has been added to ensure that each digit of the SSN is numeric and to check that the ZIP code is not less than five digits in length.

SFRSSCR (#CMS-DFCT96918)

Description: When the process created the Error Listing, (Run Mode parameter was set to E), no names appeared on the report. The columns were present in the heading for the name, but no data was printed. Also, only the SSN appeared; other reports in Banner print the more useful Banner ID.

Impact: Name data was missing from the report when the Error Notification File was processed.

Resolution: The process has been updated to display names on the Error Listing output when the Run Mode parameter is set to E.

SFRSSCR (#CMS-DFCT88540)

Description: SFRSSCR was rejecting records as “unmatched” if the Banner SPRIDEN last name did not agree with the incoming SSCR roster file last name. This occurred when you had generated SPRIDEN IDs with the SSN stored only in SPBPERS. This occurred when the Match on ID Only parameter was set to Y.

Impact: Records were incorrectly rejected when matched on ID only.

Resolution: The process has also been updated to correctly match on ID/SSN only when the Match on ID Only parameter is set to Y. The process will look at ID only and not ID and Name when the parameter is set to Y. The MATCH_SSN_CURSOR has been modified to no longer look at the SPRIDEN_LAST_NAME.

SFRWDRL (#1-F8XPQ)

Description: The Major Sort Sequence parameter allows the option of sorting by date. However, the report sorted records by the numeric day and then month, rather than by calendar. That is, all dates beginning with 01 (01-FEB, 01-MAR) were reported before all dates beginning with 02 (02-FEB, 02-MAR), regardless of the month in which they occurred.

Impact: If date sorting is selected, students are not sorted correctly. Date sorting is sorting records by the TO_CHAR format, rather than by the DATE format.

Resolution: A sort_date variable has been added to correct this. The following functions have been modified to select the SFBETRM_ESTS_DATE into the sort_date variable, and ORDER BY clauses have been modified as needed.
• selmacro_nopop_date_id
• selmacro_nopop_date_name
• selmacro_pop_date_id
• selmacro_pop_date_name
• selmacro_nopop_date_id_tiv
• selmacro_nopop_date_name_tiv
• selmacro_pop_date_id_tiv
• selmacro_pop_date_name_tiv

### Academic History Module

#### Forms

**SHAACST**  
(#CMS-DFCT103735)  
**Description:** An error occurred (**FRM-50016: Legal characters are 0-9 - +E**) if you had more than 999 academic standing rules for a specific level. Also, the character length of the **COLL_RULES** field needs to be expanded to be greater than three characters in length to prevent this error: **FRM-40831: Truncation occurred: value too long for field COLL_RULES.**

**Impact:** SHAACST allowed a maximum number of rules (999) for a level, and an error was received if the total number of rules defined was greater than 999.

**Resolution:** This has been corrected. The maximum number of rules allowed is now 99999. Also the length of the **COLL_RULES** field has been increased to five characters.

**SHACOMI, SHAEVNT**  
(#CMS-DFCT84395)  
**Description:** Users were experiencing a problem with slow functioning of SHACOMI when accessing SLAEVNT.

When you created a committee record on STVCOMT, then entered the committee data on SHACOMI, and then selected the Schedule Meeting item from the Options Menu to access SLAEVNT, Banner appeared to hang. If you waited, SLAEVNT was eventually displayed after about three minutes.

**Impact:** Processing was slowed measurably when using SLAEVNT with SHACOMI to work with committee and event information.

**Resolution:** This has been corrected. The cursor in the **CHECK_SLBEVNT** form level trigger in SLAEVNT has been split to handle the null associated ID and to use the SLBEVNT Primary Key.

**SHAGCOM**  
(#CMS-DFCT93375)  
**Description:** If you changed the **Subset of** field in the Component Definition block, that should have triggered the recalculation of the component mark (from the sub-
component marks), but it did not. The message provided indicated that sub-
component marks were being recalculated to in turn recalculate the component
mark.

**Impact:** Grades were not automatically recalculated. The user must open the self-
service gradebook for each student and submit to get the grade recalculated.

**Resolution:** A new `p_calc_components` program unit has been added to calculate
the component grades. This program unit reads all students in the course and
executes the `shkegrb.P_shrmrks_process` and recalculates the grades for all
students with graded components.

**SHAGCOM**

(#1-LWZSF)

**Description:** If gradebook weightings were changed after a student had already had
a final composite grade calculated, the final composite grade was not recalculated,
and SFASLST displayed the original final composite grade.

**Impact:** Grades are not being recalculated automatically if the component or grade
is changed. The user must open each student on the gradebook and submit to get
the grade to recalculate.

**Resolution:** A new `p_calc_components` program unit has been added to calculate
the component grade. This program unit reads all students in the course and
executes `shkegrb.P_shrmrks_process` and recalculates grades for all students
with graded components.

**SHAGCOM**

(#CMS-DFCT84596)

**Description:** When the component details were entered, the total weight did not
take into account the AND/OR logic. Also, the final total weight included values for
the midterm total weight.

**Impact:** If the components and subcomponents have multiple AND/ORs, it may be
difficult to tell if the desired total weight has been reached.

**Resolution:** New program units have been added to calculate the total midterm and
final weights for components and the total weight for sub-components.

The new program units `f_calculate_scom_weight` and
`f_calculate_gcom_weight` are called from `add_shrgcom_records` and
`add_shrscom_records`. These are called when the SHRGCOM block or the
SHRSCOM block is accessed and after the commit. The autohints on the weight,
include in, and subset columns have been appended with the phrase *Press SAVE to
calculate total weight for midterm and final*. The weight will now only be calculated
during the commit process. The total weight is only calculated when the block is first
accessed and then upon the commit.

The logic to calculate the total weight needs to review all records entered for the
component or sub-component. It has to loop through them several times to get the
sequence and the AND/ORs correct. A weight cannot be calculated if all
components have the value OR. The last component must have a blank or AND in
the and/or value. The weight on the last component (or sub-component) in an OR
sequence is included in the weight.
SHAGCOM (#CMS-DFCT92556)
Description: An error was received (FRM-40735: WHEN_NEW_BLOCKINSTANCE_TRG trigger raised unhandled exception ORA-06502) if the mid-term weights total exceeded 999.99

Impact: Users could not access components if the total weight exceeded 999.99.

Resolution: The size of weights used in mid-term, final, and sub-component total weight calculations has been increased to 12 with a mask of 999G999D99. Fields in the SHRGCOM_SUM_BLOCK and the SHRSCOM_SUM_BLOCK have also been increased in size.

SHAGCOM (#1-GKZW6)
Description: In Oracle 10g, Banner Student 7.2, when you attempted to add a component for a CRN which had at least one student registered, you received the error: FRM-40735 POST-INSERT trigger raised unhandled exception ORA-04091. The error occurred when an additional component was added to a CRN that already had components defined and when a component was added to a CRN that did not have any components.

Impact: This impacted users on the Oracle 10g database. The user could not maintain components for a course if previous registration records existed.

Resolution: This has been corrected. Code has been modified to query the include indicator in the post insert before calling shkgcom.P_ShrgcomUpdateProc. This value was missing and causing the Oracle error to occur. Exception handling procedures have been added around all db and program unit procedure calls to capture errors and add $check_failure to capture errors.

SHAGCOM (#CMS-DFCT103507)
Description: Users could update the Sub-component Definition block (SHRSCOM) and the Subset Logic column (And/Or).

Impact: A user could insert, delete, and change a sub-component record even if the course has been rolled to academic history. A user could insert a new record in the Component block if there were no components in existence, and grades had been rolled to history. Changes to components and sub-components are prohibited if grades have been rolled.

Resolution: The form has been updated to not allow the insert of a new record if no components exist and the course has been rolled to history.

SHAGCOM (#CMS-DFCT84375)
Description: Once the term and CRN had been entered in the Key Block, the subject and course were displayed. Altering the term did not result in a change to the subject and term, where the CRN in a different term did refer to a different subject and course.

Impact: Users may be able to enter gradable components for an invalid term and CRN combination.

Being able to navigate from the term to the CRN or from the CRN to the term when the combination of the two is invalid is correct behavior and is present in other
forms with the term, CRN, subject, and course, such as: SSADETL, SSARRES, and all other SSA* forms that pertain to an existing schedule entry. These forms will not allow the user to navigate to the next block with the invalid CRN. That is the difference between these forms and SHAGCOM.

**Resolution:** The form has been modified to stop navigation to the next block if the combination of term and CRN is invalid.

**SHAGCOM**  
(#CMS-DFCT84555)  

**Description:** When changes were saved, the form reordered (resequenced) the records first by midterm Web sequence number and then by final Web sequence number. This made it impossible to logically read how the AND/OR sequences had been set up.

**Impact:** The sort order on the Component block may be confusing. The sort is by sequence, not by the AND/OR sequence, which is how records are sorted on the Sub-component block.

**Resolution:** The new **Sort by And/Or Sequence** checkbox has been added to the Key Block so you can toggle the sort order by component AND/OR sequence number or leave the sort order as it is by component sequence number. The default is unchecked.

**SHAGCOM**  
(#CMS-DFCT103587)  

**Description:** A gradeable component could be created for a CRN with a null grade scale. In Faculty and Advisor Self-Service, the instructor could still grade the components, but after all components had been graded for the student, no final grade was calculated for academic history.

**Impact:** Components could be created with nullable grade scale.

**Resolution:** Checks have been added to prevent navigation around the SSBSECT, SHRGCOM, and SHRSCOM blocks until required data has been entered or changes have been saved to fulfill data dependencies. An additional check has been added in the Key Block for the SSBSECT block to not allow a Next Block until the grade code has been entered.

**SHAMUCA**  
(#1-F42G1)  

**Description:** If a student had two SHACATT records for the term, when using SHAMUCA to update the values in the second record, the user received the error:  
*FRM-40654: Record has been updated by another user. Re-query to see change,* and the record could not be successfully updated from SHACATT.

**Impact:** Records for a student with multiple ceremonies in SHACATT could not be updated using the mass update functionality in SHAMUCA.

**Resolution:** The Primary Key Item property has been set to **YES** on the **SHBCATT_TERM_CODE** and **SHBCATT_CERT_CODE** items. The SHBCATT activity date assignment has been re-added to itself in the **WHEN-CHECKBOX-CHANGED** triggers of the **SHBCATT** block **UPDATE_** items in order to mark the record as changed.
SHAPCMP

(#1-7E0T9)

**Description:** If the SHAGPAR rules for the GPA were defined to display more than two places after the decimal, SHAPCMP would only calculate and display two places after the decimal.

If the SHAGPAR rule was 3, then initially #### was displayed on SHAPCMP, but after saving, two places were displayed. Other SHAGPAR rules values appeared to be calculated correctly when a SHAPCMP record was initially entered, but after saving, the form only displayed only two places.

**Impact:** The form was using only part of the format mask devised for the length of the field and the number of digits allowed to display (9G999G999G999G999D999). It was using G999G999G999G999D999, which was causing the output to appear as ############.

**Resolution:** This has been corrected, and the GPA value will display the correct number of characters after decimal point as defined in the rule. All occurrences in which the calculated GPA is copied to a character field with the format mask have been changed to use the full 25 character mask.

These updates have also been made:

- The maximum and query lengths of the display GPA have been changed to 30 characters.
- The Campus field List of Values has been corrected to display within the current block (SHRGPAC) instead of in the SHAGPAC block.
- When you enter a level code and use the Tab key to navigate, you will now be taken to the (GPA) Type field instead of the Attempted Hours field.

SHARQTC

(#1-JQU1D)

**Description:** Users were unable to query on the SHTTRAN_EDIS_CODE field, even though the field was defined to be queryable. Users needed to be able to search for transcripts that have not been processed due to an error.

**Impact:** The Enter Query and Execute Query functions did not function correctly for the Output Type field in the Issue information window.

**Resolution:** Triggers have been changed in the SHTTRAN block to correct this.

SHARQTC

(#1-I456K)

**Description:** If a user attempted to insert and duplicate a record from a previous request that had a name hierarchy entered in the Issue Information window, the error: GUAERRM Required parent record not found was displayed, and the name hierarchy was not copied into the new request.

**Impact:** SHARQTC did not copy the name hierarchy information when using the Insert Record or Duplicate Record functions.

**Resolution:** Triggers have been modified in the SHTTRAN block to properly copy the name hierarchy information.
SHARQTC
(#1-HZ411)
Description: The Output Type field in the Issued Information window displayed the value of P with a description of Electronic, when it should have read PESC/XML.
Impact: The description of the PESC/XML transcript output type code P was incorrect.
Resolution: This has been corrected. The description now reads PESC/XML.

SHARQTC
(#CMS-DFCT98950)
Description: Inconsistent transfer GPA checking occurred when a transfer request was made.

- If the transfer LGPA record had the GPA_CALC set to N, and the request was for an AL (all levels) transcript, you received an error that the GPA needed to be recalculated.
- If the request was for a specific level (even for a level where the GPA_CALC set to N), you did not receive the error.

Impact: The form did not always prevent a request from being processed when using the specific level where the GPA was not calculated on transfer history. This may cause erroneous data to be reported on a transcript.
Resolution: The SELECT_SHRLGPA_7 PTI_CURSOR select has been modified to perform the SHRLGPA subselect regardless of the level, in order to check the GPA_CALC value for all GPA_TYPE_INDs.

SHASUBJ
(#1-HCK4H)
Description: SHASUBJ was not computing the GPA according to the rule in SHAGPAR. If SHAGPAR was set to truncate/display two digits, and the student had 41.97 quality points and 12 GPA hours, the GPA on SHATERM was correct at 3.49, but SHASUBJ displayed 3.5.
Impact: The truncation functionality defined for the GPA on SHAGPAR was incorrect.
Resolution: Code has been added to the CALC_SUBJ_CALC form level trigger to display truncated or rounded values according to SHAGPAR rules.

SHATATC
(#CMS-DFCT105845)
Description: SHATATC only allowed 30 characters of text in the Comments field. However at the SHRTCMT table level, the field was defined as VARCHAR60, allowing for 60 characters. SHRTCMT records that had originated in 6.X may have exceeded the 30 character limit and caused the following error in 7.X: FRM-40831: Truncation occurred: value too long for field SHRTCMT_TEXT.
Impact: A truncation error occurred when a comment was longer than 30 characters.
Resolution: The Comments field on SHATATC has been expanded to 60 characters to match the SHRTCMT table.
SHATATR  (#1-MLWCT)
Description: When you queried a non-transferable course with no attribute record, the attribute from the previous query was displayed.
Impact: Users may get the impression that certain institutional equivalent courses have attributes associated with them that are not correct.
Resolution: Triggers in the SHBTATC block have been modified to clear the Attributes block when no SHRTATC records are found and when Enter Query is performed.

SHATATR  (#1-5T9RM)
Description: Two issues existed:
1. The scrollbar in the Attributes block moved up as you arrowed down through the records. It appeared that the scrollbar control was upside down on the canvas.
2. SHATATR was not retaining the institution code in specific navigation circumstances.
Impact: Users will see inconsistent behavior in this form compared with the rest of Banner.
Resolution: Both issues have been corrected. The SHRTRAT scroll bar has been reversed and will now function properly. Globals will now be saved properly.

SHATATR  (#1-CFPGT)
Description: If an attribute record had an end term within the record, any active attribute after the end term would not default into SHATATR from SCADETL. The issue appears to be caused by the correction to # CMS-DFCT103988.
Impact: When you define articulations for transfer work, attributes defined in the catalog for the institutional equivalencies may not be defaulted correctly if they have changed over time (i.e., they vary by term range). Consequently, students who present transfer work where the attributes did not default correctly may not be credited with the proper course attributes.
Resolution: The C_TERM_RANGE cursor in the POST-INSERT trigger of the SHRTATC block has been modified to correctly determine when an attribute has been ended and restarted.

SHATPRT  (#CMS-DFCT94587)
Description: Users received a fatal Oracle error (ORA-01400: cannot insert NULL into ("SATURN"."SHRTPRT"."SHRTPRT_TPRT_CODE")) when trying to save a new transcript type.
Impact: Users were unable to use a new transcript type from STVTPRT.
Resolution: Triggers have been updated, and indicators and fields have been moved from the SHRTPRT_CTRL block to the SHRTPRT block. The SHRTPRT_CRTL block has been removed.
SHATPRT  (#1-I44I9)
Description: The autohint needed to be corrected to include PESC/XML transcript for the following fields in the Curriculum Print Options window:

Under the Primary Outcome Curriculum:

- Major
- Major Concentration
- Minor
- Concentration
- Other Fields Of Study

Impact: Users would not know these fields can be used with the XML transcript.

Resolution: The autohint has been updated appropriately.

SHATRTA  (#CMS-DFCT91266)
Description: A series of errors was received when adding transfer articulation attributes. If you entered an attribute and performed a Next Field function, you had to click through errors that were repeated, and then a message appeared that the attribute was invalid, when in fact the attribute was valid and should have been saved.

Impact: Users could not add transfer articulation attributes without encountering errors.

Resolution: The SHRTRTA_ATTR_CODE item has been modified to correct this issue.

SHATCKN  (#CMS-DFCT78587)
Description: When a course was deleted, the following error was encountered: Cannot delete master record when matching detail records exists, because a component grade record existed.

Impact: You could not delete a course when components and grades existed.

Resolution: Code has been modified in the SHRTCKN, SHRGCOM, and SHRSCOM blocks to allow courses to be deleted, even when detail records exist, without deleting those detail records.

SHARTYP  (#CMS-DFCT98481)
Description: If you attempted to insert new record, you received the error message: ORA-01400: cannot insert NULL into ("SATURN"."SHBRTYP"."SHBRTYP_DESCRIPTION"). This occurred, because the Description field was not accessible on the form. Also, the descriptions for the two system-required values were not displayed on the form.

Impact: Users could not create a new rule type using SHARTYP. The Description field, which is required, was missing from the form.

Resolution: This has been corrected as part of another problem resolution. The Description field is now on the form.
Packages

SHKROL1

(#1-10XR0S)

**Description:** SHRROLL needed to process all learner curriculum records that are greater than or equal to the grade roll term.

**Impact:** When a non-destructive update (curriculum record is inactivated, new curriculum record is created) is made to a learner curriculum record, it may cause an extra curriculum record to exist in history. In some cases, just the inactive curriculum record was rolled, leaving the outcome without a current and active curriculum record.

**Resolution:** Three procedures (p_process_fieldofstudy, p_process_curriculum, and p_process_graderoll) have been modified to correct this.

- Changes were made to the p_process_graderoll procedure so all learner curriculum records are read where the term is greater than or equal to the grade term, regardless of current and active status. Checks were revised to check for existing outcome records with different priorities and to verify that another learner curriculum record will be rolled, so that the outcome record will contain at least on current, active curriculum.
- Changes were made to the p_process_fieldofstudy procedure to read all fields of study not just the current and active fields of study.
- Changes were made to the p_process_curriculum procedure to insert the learner term code (not the grade term code) into the new curriculum record.

SHKRPT1

(#1-D9QXQ, CMS-DFCT104380-7.1.1.1)

**Description:** If an equivalent course was entered on SHATRNS, and the student registered in a future term for the Key Block course (SCACRSE), no repeat error was generated unless the titles of the courses were different, and the title rule on SHARPTR was disabled. Repeat checking for equivalents on SHATRNS should only use subject and course number as shown as SCADETL.

**Impact:** Two equivalent courses that have slightly differing titles will never be found to be repeated courses if the Title Indicator is checked on SHARPTR. This is an issue for users who wish to check titles for repeat rules, but also have equivalent courses established. If a course is an equivalent, the fact that the titles do not match should not prevent them from being seen as repeated courses.

**Resolution:** Cursors were modified to correct this. Course titles will not be considered when evaluating equivalent courses, regardless of the setting of the Title Indicator on SHARPTR.
Banner Views

SHFTPGA,
SHVTERM,
SHVTER1,
SPVTERM,
SPVTER1

(#CMS-DFCT89597)

Description: In the SHVTERM view, the HOURS_ATTEMPTED column was null for all student records even though the SHRTGPA_HOURS_ATTEMPTED column was populated for many students. The HOURS_EARNED column appeared to be populated correctly for all records. The same situation was true for SPVTERM.

Impact: Students had null hours when hours actually existed.

Resolution: Code has been modified to correct this in the GET_SHRTGPA cursor in f_tgpa_fnc. The SHVTERM, SHVTER1, SPVTERM, SPVTER1 views have been regenerated.

Reports

SHRASTD

(#1-9L9VU)

Description: When the process was run with the Update Dean’s List Standing parameter set to Y, the Dean’s List was updated. When the process was run with the Update Academic Standing parameter set to Y and the Update Dean’s List Standing parameter set to N, the Dean’s List data was lost.

Impact: Running the end of term standing after updating the Dean’s List removes the Dean’s List standing from the student’s record. The user has to re-run the process to recover the Dean’s List information.

Impact: The cursor that selects the original academic standing and dean’s list values has been updated to not check for academic standing that matches the list of values.

SHRASTD

(#1-7AG9Y)

Description: The process would abort on registration holds and on inactive SGASTDN records.

1. An error occurred when a student had a hold (SOAHOLD) with a hold type code (STVHLDD) where the Registration (Indicator) was checked, and when the maximum hours were calculated and updated to an existing future SFBETRM record.

2. Also, an error occurred when the SGASTDN record had a student status code (STVSTST) where the Allow Registration (Indicator) was unchecked.

Impact: Oracle errors will prevent updates to academic standing if a hold exists for an ID that prevents registration or an inactive student status exists.

Resolution: The call to the enrollment API has been updated to include the setting of two context variables and to skip the check for registration holds for student status.
SHRASTD  (#CMS-DFCT87009)
**Description:** The Maximum Hours Previous and Maximum Hours New values were not printed on the report even though the appropriate Maximum Hours field in the SFBETRM (SFAREGS) record had been updated.

**Impact:** Information was missing from the report.

**Resolution:** This issue was resolved by other coding changes made to SHRASTD for Release 7.1.

SHRCONV  (#CMS-DFCT94138)
**Description:** When the process was run with the Update Y or N parameter set to N, records were generated in SHRGPAC, and the Process Campus GPA (Indicator) on SHACTRL was changed from unchecked to checked. No updates were supposed to occur. There is no provision in job submission to run this process in Audit mode.

When the job was set up from the Host, setting the Update Y or N parameter set to N caused the job to not run at all, after displaying the message: *This process will calculate and store campus GPA’s calculated by term and level of the students.*

**Impact:** The parameter description was misleading, as the process always runs in Update mode.

**Resolution:** The Update Y or N parameter has been removed. GJAPDEF and GJAPVAL have been updated. The report is automatically run in Update mode.

SHRDEGV  (#CMS-DFCT80572)
**Description:** The SSN is not a required value for this report. The Clearinghouse actually allows degrees to be reported without SSNs and requests that NO SSN (padded with spaces to nine characters) is used in the SSN field on the output in that case.

**Impact:** The Clearinghouse accepts applications without SSNs. The report should be updated to reflect this.

**Resolution:** A conditional check has been added to the beginning of the proc cat_record to check for a value in the SSN field. If no value exists, the requested wording NO SSN is printed and is padded with spaces in the field, prior to being printed on the report. Code has been removed from the proc process_record, since SSN is no longer a required field.

SHRDEGV  (#CMS-DFCT98903)
**Description:** SHRDEGV was not reporting certificate programs correctly. The STVACAT required code of 22 indicates a Certificate Program (Post Secondary Certificate/Diploma > one year and < two years). But the SHRDEGV process repeatedly decoded the STVACAT value of 22 to a value of A, which indicated an Associate's Degree.

**Impact:** The SHRDEGV process was not assigning the correct value for a Certificate Program. The valid value for a Certificate Program is C. The process was assigning a value of A.

**Resolution:** This has been corrected. The value of 22 has been coded to a value of C instead of A.
SHREDIY  
(#CMS-DFCT103430)

**Description:** When the process was run with the Campus Selection parameter set to \textit{Y}, an error was received.

**Impact:** The error caused a null GPA calculation.

**Resolution:** Code has been modified to change the variable name as appropriate for comparison check.

---

SHREDIY  
(#1-990UJ)

**Description:** The \textit{sediflt.dat} file IN2 name segment has a prefix that was being written to the suffix field.

In the 03 record of the \textit{sediflt.dat} file, the prefix data (e.g., Mr.) should have been sent with a value of \textit{01}, but instead it was being written to the suffix field and sent with a value of \textit{09}. The prefix data is placed in column 8 in the \textit{sediflt.dat} file.

EDI.Smart and the \textit{Host System Integration Guide} state that the suffix starts in column 3 and ends in column 12. The prefix starts in column 13 and ends in column 22.

**Impact:** Prefix and suffix information was being written to wrong fields in the \textit{sediflt.dat} file, for the 03 record.

**Resolution:** This has been corrected. The \texttt{suffix_offset} and \texttt{prefix_offset} definitions have been changed to:

```
#define suffix_offset 156
#define prefix_offset 166
```  

---

SHRGPAC  
(#CMS-DFCT92577)

**Description:** Two printing problems existed.

1. When the report was run with the Audit Trail Report Request parameter set to \textit{N}, blank lines were printed in the list file for each student processed. Thousands of blank lines/numerous blank pages were printed in order to view a single page control report.

2. When the report was run with the Audit Trail Report Request parameter set to \textit{Y}, page breaks were irregular, every third page was blank, and the line count prior to a page break appeared to be around 90, so that each page overflowed onto a second page. The Control Report was numbered Page 16, but 45 pages were actually printed, including the blank pages.

**Impact:** Reports generated from SHRGPAC had blanks lines and incorrect page breaks depending on the setting of the Audit Trail Report Request parameter.

**Resolution:** Code has been modified to change line counts, line limit checking, line skipping.
**SHRPESE**  (#1-GT0E0)

**Description:** XML transcript requests that were not successfully exported by SHRPESE had records created on SHREPTD with a **Send Status** of *R* (Received) and a value for the **Send Date**, which was not correct.

**Impact:** Records were created for failed requests as if they had been sent and received.

**Impact:** The process has been modified so that if the request has an error flag after processing, the **Send Date** on SHREPTD is not updated, but the **Send Status** will be set to *E* (Error Processing Transcript).

**SHRPESE**  (#1-H6VLN)

**Description:** Two issues existed.

1. When the value in the XML Document Process Code parameter was set to *TEST*, the process should have been run in Audit Mode. However, SHTTRAN was being updated. Updates should only take place when the parameter is set to *PRODUCTION*.

2. The parameter values were not to Banner standards. Audit and Update should be used, not *TEST* and *PRODUCTION*.

**Impact:** The SHRPESE process does not need to be altered. The documentation needs to be clarified. This parameter is not used to indicate Audit or Update mode.

**Resolution:** The documentation has been updated to indicate that the words *TEST* or *PRODUCTION* will be inserted into the XML document, depending on the parameter setting. The choice of *TEST* or *PRODUCTION* is used to show whether the XML document is intended for a test environment or a production environment.

**SHRPESE**  (#1-KTPYD and RPE #1-M70V8)

**Description:** The `pescxml_sendtranscript` java class needed to be modified to allow for multiple commands.

The Texas Server has announced that SFTP and FTPS are supported protocol for exchanging XML files. The current XML transcript uses FTP with PGP encryption to exchange files with the Texas Server. Plain FTP passes user login credentials in clear text. So even though the contents of the XML transcript files are encrypted prior to exchange with the Texas Server, the username and password are still passed in clear text. This is a security risk. Several USG institutions do not allow plain FTP usage, even for testing purposes. XML Transcript processing needs to allow the institution to select whether they want to use FTP w/PGP, SFTP, or FTPS for exchanging files with the Texas Server.

**Impact:** The XML transcript could only be sent via FTP.

**Resolution:** The `shrpese.jar` file has been modified to have the option to break out and issue an operating system command. The intent is such that individuals will maintain their own shell scripts to perform the SFTP or alternate transmission protocol.
SHRPESE, SHRPESI (#1-GJLDB)

**Description:** The XML transcript export and import processes did not handle current curricula information.

**Impact:** The processes were using the backfill processing for primary and secondary curriculum records.

**Resolution:** Concurrent curriculum functionality has been added to the XML transcript processes.

SHRPREV (#CMS-DFCT99449)

**Description:** Page numbers were being incremented by two instead of one in the output .lis file. This caused consecutive pages to be numbered: 1, 3, 5, 7, 9, etc.

**Impact:** Pages were being numbered incorrectly with odd numbers, instead of being numbered sequentially.

**Resolution:** The pageno++ in routine chk_line_count has been removed to correct this.

SHRROLL (#1-MXNQE)

**Description:** An incorrect table definition caused the process to abort if it attempted to print an API error. This issue was platform specific.

**Impact:** The t_define for the new table 5 was missing the NULL pointer, which caused overload issues.

**Resolution:** Line 607 of shrroll.pc was: table(T_DEFINE,5,5,132);. It has been changed to be: table(T_DEFINE,5,5,132,NULL);

SHRRPTS (#1-HMC0A)

**Description:** When the transfer courses were equivalent courses (different subjects or numbers) the transfer work was processed, but the subhead information may not have been printed below the processed courses when the Print Transfer Work parameter was set to Y.

**Impact:** Transfer course information was not printed under Transfer Work in the output when transfer courses that were repeated had been set up as equivalents in SCADET. Processing was correct, but the full information was not being printed in the subheading.

**Resolution:** Code has been modified to check for equivalents when the subject and/or course does not match.

SHRTPOP (#1-HZ9D7)

**Description:** SHRTPOP would not run and returned an Oracle error for an invalid cursor.

**Impact:** The transcript population could not be completed.

**Resolution:** The code change to ensure the closing of open cursors is contained within many functions for cursor control. The close cursor calls are now limited to only the no_rows_found and close_cursor portion of these functions.
SHRTRTC (#CMS-DFCT105841)

**Description:** If a long section title on SSASYLB was actually short enough to fit on one line, it was still printed on two lines rather than on one in the transcript.

**Impact:** Section titles were being split unnecessarily when printed.

**Resolution:** The selinprogress and seltckn items have been modified to select the long course title but not to parse it in the select. New functions have been added to parse the long course title that is retrieved.

SHRTRTC (#1-FCWQK)

**Description:** The page break on a transcript may not be correct when CEU dates are printed.

**Impact:** If CEU information was printed near a page break, the date and/or contact hours were printed on the next page. This made it difficult to read the CEU course complete information.

**Resolution:** The vbody has been modified to determine if the **CEU Dates** and/or **CEU Contact Hours** options are selected on SHATPRT when calculating how many lines should be available for the initial section overflow check.

SHRTRTC (#1-H4DZL)

**Description:** When a term had in-progress courses, SHRTRTC did not create a space between that term and the last term. Normally, SHRTRTC would produce a line space between terms, but it was not creating that line when the following term had in-progress courses.

**Impact:** The missing line space in a paper transcript could make the information harder to read.

**Resolution:** This has been corrected. A blank line is now included before the term description is printed.

SHRTYPE (#1-KUVDV)

**Description:** The Process Curriculum parameter was not functioning correctly. Although SHRTYPE would create the new learner record (SGBSTDN) showing the new student type, the new curriculum record (SORLCUR) was not being created. The shrtype.log file displayed the following message: **Insert of Curriculum for ID: @00011200 may not have been successful. API generated errors: Cannot create learner, record already exists.**

**Impact:** Users cannot use the continuant term rules for student types on the curriculum records and update the records for a future term.

**Resolution:** The process has been modified to find the current general student effective term and the update term, instead of the current term. This prevents the process from selecting the wrong SGBSTDN record in the comparison if the record already exists.
CAPP Module

Documentation

SMASADJ
(#1-IHKKN)

Description: The 7.2 CAPP Handbook (page 8-52) read "... select All Tracking from the Options Menu; the system will display all course adjustment tracking records associated with the student, term, and area specified in the key block of SMASADJ."

However, SMASADJ does not have “Area” as a Key Block item, and the Options Menu does not include an “All Tracking” option.

Impact: The system does not work as specified in the documentation.

Resolution: All text that was incorrect has been deleted.

SMAALIB, SMAWCRL
#1-HQ8MS

Description: Some errors existed in the handbook.

- In the Area Library Qualifiers Window of SMAALIB, the values ALL and FEW were reversed when referring to including or excluding sets of qualifiers.
  “You can define multiple qualifiers by entering ALL (for a set of inclusions) or FEW (for a set of exclusions).”
- Also in the Key Block of SMAWCRL, the field description for the Term Code field listed an incorrect list of values.
  “Select the Search button for this field to display the Subject Validation (STVSUBJ) list.”

Impact: Users may be mislead or confused by the errors in the documentation.

Resolution: The words “ALL” and “FEW” have been switched to reflect the correct information on SMAALIB. The reference to the list of values on SMAWCRL has been corrected to read “Select the Search button for this field to display the Term Code Validation (STVTERM) list.”

Forms

GTVSDAX
(#CMS-DFCT70541)

Description: When entering the system required values for the Group (Code) of WEBCAPP, you could not update the System Required checkbox.

Impact: Only non-system required rows can be added to GTVSDAX.

Resolution: A seed data script, supbsdax01.sql, is delivered to insert four GTVSDAX rows for the WebCAPP rules hierarchy.
SMAAREA

(#1-EH6VW)
Description: When an area was created, general requirements added, then a detail added with a subject high/low range, and the record was saved, when you selected the Include/Exclude Course Levels item from Options Menu while on the detail line, entered a level and saved the data, the restriction was ignored when the detail line was processed in CAPP.

Impact: Users had to select the Add Additional Levels item in the Options Menu from the General Requirements block to process the record correctly.

Resolution: The form has been updated to pick up the area level correctly.

SMAAREA

(#1-NUZB7)
Description: When a detail line was defined using a course number range and additional levels were attached to the detail line, the Course Number Low and Course Number High values were reversed in the Area Include/Exclude Course Levels window.

Impact: Values were displayed in the wrong fields.

Resolution: The X-coordinates of the SMRACLV_CTRL_CRSE_NUMB_HIGH and SMRACLV_CTRL_CRSE_NUMB_LOW display fields have been swapped so that they are now displayed in the correct order.

SMAAREA

(#1-BW64D)
Description: The autohint for the SMRARGD_IND field contained a spelling error. It should read "Restricted Grades". Restricted was misspelled.

Impact: A spelling error existed.

Resolution: This has been corrected.

SMAAREA, SMIAREA

(#CMS-DFGT79853)
Description: You could not select an area from SMIAREA and bring it back to SMAAREA by double-clicking the mouse, when you used the View Existing Areas item in the Options item to access SMIAREA. If you used the Search button on SMAAREA to access SMIAREA, you could select an area and bring it back to SMAAREA by double-clicking the mouse.

Impact: Both methods of bringing the value back should work. The functionality was inconsistent.

Resolution: This has been corrected.

SMIGROP, SMAGROP

(#CMS-DFGT79852)
Description: You could not select a group from SMIGROP to be returned to SMAGROP by double-clicking the mouse. This occurred when you accessed SMIGROP through the View Existing Groups item in the Options Menu. When you used the Select button, you were able to bring the group back to SMAGROP.
Impact: This is inconsistent functionality. Both ways of bringing the group value back should work.

Resolution: Code has been modified to correct this. You can now use the mouse or the Select button to bring a group code back to SMAGROP.

SMAPROG (#1-HYRTJ)
Description: In the Program Restricted Grades block, the word "More" was displayed next to the Text button. This should not be there, as it isn’t present on the Program Restricted Subjects/Attributes block.
Impact: An unnecessary text label existed.
Resolution: This label has been removed.

SMARQCM (#CMS-DFCT105150)
Description: When you tried to enter a course using the Options Menu item for Planned Courses, you received an Oracle error.
Impact: SMARQCM could not successfully save planned courses to be used in compliance.
Resolution: A trigger and code for the SMRPCRS block have been modified to correct this.

SMARQCM, SMASADJ, SMASPRG (#1-IHZ0B)
Description: A review of error messages in various forms revealed that several should be commented out or have \$NLS added to them.
Impact: International implementations depend on the ability to modify messages.
Resolution: Various messages left in triggers of these forms have been corrected.

SMASPRG (#CMS-DFCT46840)
Description: Issues included:

- An error was received when you tried to copy default values.
- The Key Block was accessible using the mouse from all other blocks, instead of only being available using a Rollback function.
- The form was not being cleared when a Rollback was performed.
- The Program checkbox on SMASLIB was only updated when general requirements were copied, but not when any other requirements were copied. This occurred when the Default All Information item was used from the Options Menu on SMASPRG.

Impact: A few issues (involving copying defaults and using navigation) hamper adjustments processing.
Resolution: Code and triggers have been modified to resolve these issues.
SMIGOUT, SMIAOUT, SMIPOUT, SMICRLT

(#CMS-DFCT63401)

**Description:** The untitled Name field next to the ID field in the Key Block was not long enough for some student names. An error occurred if the name was longer than 26 characters.

**Impact:** Long student names did not fit in the field.

**Resolution:** The field has been expanded. Also, fields have been aligned in the Key Block to be consistent on all forms. The Request Number field has also been modified to correct display issues.

SMIAOUT

(#CMS-DFCT61934)

**Description:** When text was entered or adjusted on a detail requirement in an area, compliance did not display the text nor did it indicate that text existed for that requirement. The only clue text existed was that the Detail Text item was active in the Options Menu. If you used the Options Menu to view the text, you received an error, *Cursor must be on record with a rule to perform this function.*

**Impact:** Users were not able to view text or easily see that text existed.

**Resolution:** An asterisk is now displayed when data exists for a detail requirement.

SMIAOUT

(#CMS-DFCT88110)

**Description:** In the Course/Attribute Attachment Results window, the Detail Text item in the Options Menu was disabled if the detail line being reviewed was a rule. The option was disabled if the text was originally from SMAAREA or adjusted from SMASARA.

**Impact:** Users could not select the Detail Text option when text existed for a rule.

**Resolution:** A trigger in the SMRDORQ block has been modified to not check if the SMRDORQ and SMRDRRQ rules are *NULL*.

SMIAOUT

(#CMS-DFCT61845)

**Description:** When you made an adjustment to area text, ran compliance, and then viewed the results on SMIAOUT, the text was incorrectly displayed when you used Next Block to access the Area Text block. When you entered the block by selecting the Area Text item in the Options Menu, the text was displayed correctly.

**Impact:** Depending on navigation, the original text and the adjusted text would be displayed, which was incorrect.

**Resolution:** Code has been modified to display the text correctly.
SMIAOUT  (#CMS-DFCT46853)
Description: Three issues existed:

1. In the General Requirements block, you could use Enter Query and receive a message that *No fields are queryable*. You could then clear the block and use Execute Query. You should have received an *Invalid Function* message.

2. The global area should not have been brought in, unless the ID and Request Number fields were blank. This caused error messages when navigating to SMIAOUT from SMICRLT.

3. In the Area Text block, you could only enter a query by print code. You should have been able to query on text as well. Also, a *Print Code Not Valid* message was received, instead of a *No Rows Found Message*, when no text existed for the specified print code, even if the code was valid on STVPRNT.

Impact: Various issues existed that interfered with queries related to area processing, and inaccurate error messages were displayed.

Resolution: Three updates have been made:

1. An *Invalid Function* message has been added to the General Requirements block (SMBAOGN).

2. The global area will not be brought in unless the ID and Request Number fields in the Key Block are *NULL*.

3. The Area Text block fields have been rearranged so the Text field is first and can be queried on.

SMIPROG, SMIAREA, SMIGROP  (#CMS-DFCT95864)
Description: SMIPROG should list a program for each occurrence of an effective term. SMIAREA and SMIGROP should also do this.

Impact: Not all data was available in a query.

Resolution: This was corrected in a previous release.

Reports

SMPCPRG  (#CMS-DFCT94162)
Description: The description for the Request Date for Purge parameter reads, "Requests entered on or before will be purged." The Request Date for Range Purge parameter reads, "Requests between 02 and 03 will be purged." If values are entered for 2 and 3, the Request Date for Purge parameter serves as the "from" date, and the Request Date for Range Purge parameter as the "to" date, which is not consistent with the Request Date for Purge parameter description.
Impact: The documentation and/or the job submission descriptions for the parameters should more clearly note how entering dates in one or both fields functions.

Resolution: This has been corrected. The documentation has been updated to better describe the parameters and their use for processing.

Overall

Documentation

SOAELTR (#1-QPS3X, #1-TPBLT)
Description: Step 9b of the “Admissions Application Set-Up Procedures for Banner Self-Service” procedures referenced an obsolete form, SOAWMNU.

Impact: Users could not complete the step to Customize the Signature Page for Web processing.

Resolution: The form name has been corrected to read “Format HTML Letter Rules Form (SOAELTR)”. This correction has been made in the baseline user guide, the self-service user guide, and the training workbook for self-service admissions.

SOATERM (#1-PXAP0)
Description: SOATERM online help for the Reverse Non-Tuition/Fee Charges field indicates whether to allow the reversal of charges to detail codes having a category code other than TUI or FEE in registration fee assessment. The online help, the online auto hint, and the user manual should indicate this is for STVRSTS refunding and not STVESTS refunding.

Impact: The field definition needed to be clarified.

Resolution: A note has been added to the field definition that is used in the manual and in online help that reads: “This is for refunding using STVRSTS codes, not STVESTS codes.”

Forms

SOACURR (#1-HQ6PB)
Description: An error was received when you attempted to copy curriculum rules from one term range to another.

Impact: Users were unable to copy curriculum rules.

Resolution: Inserts into the SORCMNR, SORCCON, and SORCMJR tables have been updated to include all columns for use with the copy and end term functionality. The new columns from Release 7.3 that are now included listed below.
SOAELTR, SRAWACK

(#CMS-DFCT105921)

**Description:** When variables were inserted for letter rules, extra leading and trailing spaces appeared around the fields when viewed online.

**Impact:** Unnecessary and extraneous spaces were showing up in letter text.

**Resolution:** Variables have been concatenated into one call to `twbkfrmt.p_printtext` in `BWSKELTR` and `BWSKWPRO` to resolve this.

SOAPCOL, SOAHSCCH

(#1-GSMSI)

**Description:** When a second prior college or high school record was created for a student, the system attempted to assign the same admission requirement code (STVADMR) based on the STVSBGI default admissions request code. When the record was saved, an error message was returned, and the user was required to enter an alternative admission requirement code. This was particularly an issue for Self-Service applications since it required manual intervention.

**Impact:** Multiple records required manual intervention to update the admissions checklist.

**Resolution:** This has been corrected. The `POST-CHANGE` triggers on both forms have been modified to null out any duplicate admissions requirement values.

SOATERM

(#CMS-DFCT94902)

**Description:** SOATERM would permit an SOBTERM record to be saved without creating the required Part of Term 1 record if you used Rollback after saving in the Base Part of Term block. The error was only trapped if you performed an Exit function.

**Impact:** An error was not found in certain circumstances, which resulted in an SOBTERM record being saved without a required part-of-term record.

**Resolution:** Code has been modified to correct this.
SOATEST  (#1-5TV3M)
Description: The Duplicate Record function did not duplicate the test date. Also when a new record was created, the Source field was not being filled in with a value of FORM when it was entered on the form.
Impact: Data was missing when a test record was duplicated.
Resolution: The KEY-DUPREC trigger on the SORTEST blocks been modified as to not clear out the test date.

SOATEST  (#1-66L5B)
Description: Once a test score was saved, the test date could no longer be updated. In prior versions, updates of the test date were permitted.
Impact: Functionality included in previous releases was not available.
Resolution: Since a primary key cannot be updated, the form will actually insert the SORTEST and SORTSPC rows with the new test date and delete the rows with the old test date. The new UPDATE_SORTSPC_ROWS program unit has been created to correct this. Triggers have also been added and modified.
Also, code descriptions are now displayed for the Admission Request, Source, Administration Type, Purpose, Form, Accommodation, and Term fields.

SOATEST  (#1-5DE5T)
Description: An invalid test score could be saved if the test code was changed after it had been initially entered, but before it has been saved.
Impact: Data may not be validated, which allows for invalid test scores to be entered.
Resolution: The POST_CHANGE trigger on the TEST_CODE field has been modified to recheck the values of the test score prior to saving.

SOAXREF  (#1-MDM6P)
Description: An error was received when the xrefnatn.sql script was run: ORA-01400: cannot insert NULL into ("SATURN"."SORXREF"."SORXREF_PESC_XML_IND").
Impact: Associated files would cause errors, as they did not process the SORXREF_PESC_XML_IND column, which was added for XML transcript processing.
Resolution: Files have been updated to add SORXREF_PESC_XML_IND into the insert statement clause and to set the value to N. These files have also been altered to remove any SATURN owner from table references.
The files are as follows:
• xrefco12.sql
• xrefethn.sql
• xrefhsch.sql
• xrefmajr.sql
• xrefstat.sql
• xrefcoll.sql
• xrefhsc2.sql
• xrefins.sql
• xrefnatn.sql

SOAXREF, SOKXREF (#1-LUV9K)

Description: Using the Copy Table button displayed an Oracle error: ORA-00926: missing VALUES keyword. Also, the copied canvas did not display the data items correctly. The XML checkbox was overlapping the Web checkbox.

The p_copy_xref procedure in the sokxref.sql package had erroneous code in the insert statement ('.SORXREF_BANNER_VALUE ') || '| ' |.'SORXREF_PESC_XML_IND ') || '). It has two closing parentheses.

Impact: The copy function could not be used to copy cross-reference rules.

Resolution: The p_copy_xref procedure in the sokxref.sql package has been corrected. The extraneous parenthesis around the XML indicator in the dynamic SQL clause have been removed. This was causing the process to abort and not copy the values. The copy canvas has been modified to correctly display the XML checkbox.

Scripts

sinsprtn.sql, sinswapf.sql, sinswapp.sql (#1-L1D81)

Description: Oracle (ORA-01400: cannot insert NULL into...) errors were received when the gostage process was run for the Student Release 7.3 upgrade.

Impact: The 7.3 gostage process may abort, dependent on user data.

Resolution: The sinsprtn.sql and sinswapf.sql scripts have been modified. Missing values have been added for fields that could not be null but were not being inserted. The sinswapp.sql script has been modified. The insert statement for PREFERENCE has been changed to select the maximum sequence number from SARWAPP for application code 00 and to use that sequence number plus 1 for PREFERENCE.

APIs

sb_section, sb_course, sb_fac_assignment, gb_classtimes (#1-PLE18)

Description: The dynamic update statements executed by the DML packages did not fully use bind variables for all runtime values. This caused extra hard parsing of new cursors at runtime, and affected system performance by increasing parsing overhead, cached cursors, and latch contention. This level of latch contention was not anticipated when the DML update architecture was first designed, and the best method to correct the situation is being researched. It is not recommended that the session setting CURSOR_SHARING= FORCE be used, as this appears to create performance behavior that is difficult to diagnose.

This issue occurs across Banner products, including Self-Service. The Student APIs involved are for SCBCRSE, SSBSECT, and SIRASGN.
Impact: Possible performance problems resulted when update statements were performed from an API. The SQL code used for the updates was reparsed with each execution.

Resolution: The APIs have been modified to improve performance. With this change, only one parse of the UPDATE statement will be performed, regardless of the number of records being updated.

The following API components have been modified. They have been passed through a conversion process to change the DML p_update procedure to use an explicit rather than a dynamic update.

- sokb_course1.sql
- sokb_fac_assign1.sql
- sokb_section1.sql
- sokd_scbcrcse0.sql
- sokd_scbcrcse1.sql
- sokd_sirasgn0.sql
- sokd_sirasgn1.sql
- sokd_ssbsect0.sql
- sokd_ssbsect1.sql

This resolution is combined with corrections made for General problem resolution (#1-PX8EB).

Library

SOQOLIB

(#1-10XDG7)
Description: Multiple curriculum error messages were received when processing curriculum and field of study records.

Impact: Erroneous error messages can occur when you try to delete the last field of study, and it is a concentration that is attached to a major. You can use Enter to work through the error messages and the save process continues.

Also, an erroneous error message (that the number of curriculum has been exceeded) is received when you try to change a curriculum record and the maximum number curriculum records already exists. The user must increase the number of curriculum allowed to work around this error message.

Resolution: Code and triggers have been modified to correct these issues. The SRARECR, SAAADMS, SGASTDN, SFAREGS, SRAQUIK, and SAAQUIK forms have been recompiled.

SOQOLIB

(#1-UV6O0)
Description: When in the Curriculum window on SFAREGS, and using the insert/duplicate record functionality to change the program major and concentration to a
new program major and concentration, you may receive an incorrect field of study on the concentration record in the Field of Study window.

If the old concentration was attached to a major and the new one is not, when you enter the concentration, the Attached To Major value is spaced out. When you save the record, the Attached To Major value from the previous concentration defaults back into the Attached To Major field on the new concentration record.

**Impact:** Users need to add a new field of study concentration to remove the Attached To Major value.

**Resolution:** The concentration attach rule to has been set to NULL in the SORLFOS_ATTACH_CONC_RULE post text and when validate item triggers. This will prevent the Attached To Major value from remaining if you try to remove it after copying a concentration that has an attached major.

**SOQOLIB**

(#1-TPDTG)

**Description:** The department was defaulted in for the field of study in SAAADMS when multiple department values were available for the major. The first department defined on SOACURR was the one that was always selected.

**Impact:** The wrong department may have populated the field of study for the curriculum record. If a major occurred more than once on SOACURR, each with a different department, the auto populate of the department picked a random occurrence. The department should not be auto populated.

**Resolution:** The LFOS_MAJR_POST_TEXT trigger has been modified to check for occurrences of the major in SOACURR and only fill in the department if it occurs once.

**SOQOLIB**

(#1-PWQSN)

**Description:** Masking curriculum and field of study fields on SAAADMS caused many Oracle FRM-40133 and 40134 errors. To avoid user confusion, fields not used were masked, including: the Start Date and End Date fields in the Curriculum window, and the Status, End Term, Full or Part Time, Start Date, and End Date fields in the Field of Study window. Messages were displayed when a user entered the form, navigated to new record, or saved a record.

**Impact:** The GORDMSK function could not be used to turn the visibility off on elements in the Field of Study window on any of the forms with the Curriculum window (SOILCUR, SFAREGS, SGASTDN, SAAADMS, SRARECR, SHADEGR).

Masking should not be set up for required fields.

- **In the SORLCUR block,** the SORLCUR_CACT_CODE, SORLCUR_PRIORITY_NO, SORLCUR_DEGC_CODE, SORLCUR_LEVL_CODE, and SORLCUR_COLL_CODE fields are required and should not be masked on SAAADMS, SRARECR, SFAREGS, SGASTDN, SRAQUIK, SAAQUIK, and SHADEGR.
- **The SORLCUR_TERM_CODE field** is required and enterable on SHADEGR and should not be masked on that form.
In the SORLFOS block, the SORLFOS_CACT_CODE, SORLFOS_CSTS_CODE, SORLFOS_LFST_CODE, SORLFOS_PRIORITY_NO, and SORLFOS_LFOS_CODE fields are required and should not be masked on any form.

**Resolution:** Attributes were being set on the SORLFOS block without looking at the visible property. This has been corrected. All set_item_properties have been changed to call the new set_curric_properties program unit with the column name, item type and attribute. The set_curric_properties process checks to verify that the item is visible, and only if it is visible will it set the new attribute.

This correction requires the regeneration of SAAADMS, SAAQUIK, SOILCUR, SRAQUIK, SRARECR, SGASTDN, SHADEGR, and SFAREGS.

**SOQOLIB (#1-QCUFN)**

**Description:** Duplicating a field of study record did not always change the SORLFOS_LFOS_RULE.

**Impact:** The SORLFOS_LFOS_RULE column may not be correct after a duplicate record is performed.

**Resolution:** Changes have been made to the KEY-DUPREC trigger in the SORLFOS and SORLFOS_LITE blocks, so the SORLFOS_LFOS_RULE is now set to NULL after the Duplicate Record is performed.

**SOQOLIB (#1-QA3QH)**

**Description:** The No records exist to query LOV error was received and the concentration was not populated when: a recruiting record was brought into SAAADMS, the curriculum was changed, a new program/major was added, and a valid concentration was selected from the attached concentrations list. You could add the concentration on SGASTDN after the application had been accepted.

**Impact:** The List of Values will be blank for attached concentrations in the following circumstances:

- The curriculum selected has exactly one major, and the major has concentrations. There are no concentrations attached to the base curriculum.
- The major and curriculum are defaulted in automatically
- A concentration is added immediately before a Save is performed.

If the user saves and then adds the concentration, the attached List of Values will appear.

**Resolution:** Code has been modified to correct this. The SORLFS_SEQNO_CNT counter has been set to 1 in the LCUR_DEFAULT_MAJOR form level trigger. This trigger defaults the major in based on the program. The SORLFS_SEQNO_CNT counter is used to calculate the next field of study sequence number. The new concentration was set to 1, which was the number of the major. The major was overwritten in temporary areas because of the duplicate sequence number.
SOQOLIB (#1-SLWUW)

**Description:** The SOBCACT_RG record group query in SOQOLIB did not specify a date format mask for the SOBCACT_ACTIVITY_DATE.

By not specifying the format mask on the TO_CHAR function, only the first two characters of the four digit year were displaying when you performed a List on the Activity Date. This may also have caused an ORA-1801 error.

The following forms may have been affected:

- SRAQUIK
- SRARECR
- SAAADMS
- SAAQUIK
- SFAREGS
- SGASTDN
- SHADEGR

**Impact:** Generation errors could occur, or users could be unable to use the list of values for the curriculum activity in the Curriculum window.

**Resolution:** The SOBCACT_RG has been updated to include the appropriate date format with the TO_CHAR around the activity date.

SOQOLIB, SAAADMS, SRARECR (#1-SEI3Z)

**Description:** When an administrative assignment was removed using Remove Record and you saved the transaction, you received the message: Error - Role is required for an administrative record. The system did allow the save to finish. If a Rollback was attempted, a pop-up window asked if the changes should be saved. If Yes was selected, the deletion of the record was successful.

**Impact:** A role error was received if you deleted the last administrator for a person.

**Resolution:** A trigger was removed from the SORAINF block, and another trigger has been added to the block to verify that the role has been entered for the administrator.

**Validation**

**Documentation**

STVADDA seed data script (#1-PIXRP)

**Description:** The insstvadda73.sql script referenced in the 7.3 release guide as providing seed data for STVADDA was not delivered as part of the 7.3 upgrade.
Impact: Users may not find the correct script that was run to populate the seed data in STVADDA.

Resolution: The correct name for the script is `sinsadda73.sql`, and this script was delivered and executed in Release 7.3.

Forms

**STVCRSS** (#1-QZ14Z)

Description: The Foreign Key was listed incorrectly in the error message. It referenced STVGPAT, when it should have referenced STVCRSS.

Impact: The Foreign Key Constraint error is incorrect and references the incorrect field name. This would cause confusion when trying to correct the error.

Resolution: Scripts to drop the incorrect Foreign Key and add the corrected Foreign Key will be delivered as part of the 7.3.1 upgrade.

**STVINITS, sinsints.sql, supdints.sql** (#1-EOK3K)

Description: The 23 system required values that are shipped with STVINITS no longer have the **System Required** field checked for new installations.

Impact: This could indicate that it is acceptable for users to delete those values.

Resolution: Two scripts are delivered to correct this.

- `sinsints.sql` will insert new system required values into STVINITS.
- `supdints.sql` will update existing system required values so the **System Required** field is checked (set to `Y`).

**STVTMST** (#CMS-DFCT8399)

Description: The **Code** field accepted lower case letters. When a lower case code was entered on SFATMST, an *Invalid Code* message was received. A user could select the lower case code from SFATMST through the List of Values, and the form would then convert it to upper case.

Impact: Lower case values could not be keyed directly into SFATMST. Lower case codes had to be selected from STVTMST and changed to upper case to be valid.

Resolution: STVTMST has been changed to only allow upper case letters to be entered in the **Code** field. The `supstmst1.sql` script is delivered to change any lower case codes in the database to upper case.
Report Sample

Electronic Prospect Load (SRTLOAD)

Please see the following landscaped section for report parameters and sample output.
Electronic Prospect Load (SRTLOAD)

Description

This process loads data from a search input file (for example, College Guide/SSS, or Peterson) or a test score report file (for example, SAT, ACT, GRE, or AMCAS), to the following temporary tables: SRTIDEN, SRTPERS, SRTELE, SRTADDR, SRTTEST, SRTPREL, SRTHSCH, SRTPCOL, SRTEMAL, SRTGPAT, SRTCRESS, SRTSUPL, SRTDEGR, SRTMAJR, SRTTSPC. The data in these tables is available using the Search Tape View (SRVPREL) or SRAPREL. Detail is also available when accessing these loaded records on SRIPREL using the Detail [SRAPREL] item in the Options Menu. The SRTLOAD process also creates an audit report detailing the status of each record on the input file.

This process can be used to load positional files (SAT, GRE, etc.) and delimited files (AMCAS). It reads delimited input files based on whether rules for file delimiters or delimiters/markers exist in the SORDLIM table for a given tape code. The process will either look for the fields by position or by sequence number as defined on SRATPFD in the SRRTPFD_START_POS field. The process refers to the STVTESC_TESC_CODE_DATE_ORIGIN field for test codes.

You should do the following in preparation for running SRTLOAD:

- If the input file is delimited, set up the delimiter (and optionally the marker) on SORDLIM for the tape code being used.
- Set up the corresponding interface (INFC) code and tape code values on STVPREL.
- Assign the appropriate matching source code to the interface code on STVINFC.
- Set up rules on SOTCNVT for the conversion of the tape values to the Banner validation table values.

The codes listed below are compared to SOTCNVT for conversion to Banner values and for default values.

If the code on the tape is blank, the value “*” is matched against SOTCNVT. If the tape value is not blank, the incoming value is matched against SOTCNVT. If there is no available conversion for the tape value or the tape value is not valid on the Banner validation table, the literal DEFAULT is matched against SOTCNVT. If this is not available, then an error message is printed on the report.
On SOTCNVT, the following tables are validated: NATN, CITZ, STAT, INTS, INTP (PSAT only), ETHN, ETHR (AMCAS only), DEGC, DEGA (AMCAS only), MAJR, MAJP (PSAT only), RELG, CNTY, TADM, TERM, DEPT, VTYP, EDLV, EGOL, ADMT (AMCAS only), TEAC (AMCAS only), TEFR (AMCAS only), SBGI (college code conversions), SBGH (high school code conversions), HGPA (SAT only), CAMP, ESEL, GNDR, TESC, and TSPT.

The exceptions for determining conversions and default values are for the major code, interest code, term code, level code, campus code, contact type code, source code, address type code, email type code, and telephone code. SRTLOAD will appropriately analyze the high school or prior college graduation date on the incoming file against rules on SOTCNVT to determine the term code, or it will use the term code entered in the SRTLOAD Term Code parameter.

If there is no match, the value from the Term Code parameter is used. The level code, address type code, telephone type code, and email code inserted will always be from the input parameter value. If no source code or contact type code are entered in the input parameters, the value from STVINFC for the interface will be used. In addition, the test score source inserted on test scores will be the one created on STVINFC.

The fields INTS and MAJR can have multiple values in multiple fields for some types of tape loads. The * and DEFAULT functionality will only work on the first match attempt for the field MAJR(MAJR1). If there are values in fields MAJR2, MAJR3, or MAJR4, the process will attempt to match the values against the SOTCNVT crosswalk and the values in STVMAJR. If no match is found for these, the output report will display an error indicating the field and the error. INTS will not use the * or the DEFAULT functionality due to the possibility of many records existing on the incoming data file.

High school codes can be converted using the SBGH validation on SOTCNVT. If there is no high school conversion on SOTCNVT, the STVSBSGI code will be used if there is a match. Non-high school codes cannot be entered using the SBGH validation on SOTCNVT. Colleges codes can be converted on SOTCNVT with SBGI validation, and if a code exists in STVSBSGI, that code will be loaded.

The default values on SRAPRED are used when there are no SOTCNVT values and if the corresponding parameter on SRTLOAD is blank. When there are no SOTCNVT values and if the corresponding parameter on SRTLOAD is blank, SRTLOAD will first use the data that exists on the incoming tape for such fields as Term, Major, etc. If no value exists on the file, and it does not convert on SOTCNVT, then SRTLOAD will use the data in the parameter. If no value exists in the parameter, SRTLOAD will use the value on SRAPRED. The Test Source will default in from STVINFC. The Tape Source and
Contact Type fields will be populated from STVINF C if there are no corresponding SRTLOAD parameter values. If no values exist on STVINF C, the values will default from SRAPRED where appropriate.

When data is loaded to Banner, the load hierarchy is as follows:

- Values from SOTCNVT will be loaded first, if they exist.
- Values from the SRTLOAD parameters will be loaded second, if they have been entered.
- Values from STVINF C (contact type and/or source code) will be loaded third, if they exist, and if valid parameter values do not exist on SRTLOAD.
- Values from SRAPRED will be loaded fourth, if they exist.

**Note:** For AMCAS, the student type will always need to be updated on SRAPRED for the level for which you are running SRTLOAD, in order for the required Student Type value to be loaded for the applicant.

When matching nation codes, if no code exists on the tape and a nation description is provided, the nation description will be compared against the nation description in STVNATN. If there is an exact match, the nation code will be updated in the SRTNATN temporary table and can be loaded to Banner.

For example, when no SOTCNVT rules exist for STVNATN and the nation description is provided on the tape:

- Nation *Singapore* on tape will be translated and update `SRTADDR_NATN_CODE = 133` when STVNATN code 133 = *Singapore*.
- Nation *Mexico* on tape will be translated and update `SRTADDR_NATN_CODE = 99` when STVNATN code 99 = *Mexico*.
- Nation *Albania* on tape will be translated and update `SRTADDR_NATN_CODE = 2` when STVNATN code 2 = *Albania*.
- However, *Bahamas* on tape would not be translated, as STVNATN code 10 = *The Bahamas*.

**Note:** This nation code will be loaded to Street Line 3, and there will be associated API errors because of the nation and the state. The record would need to be resolved manually on GOAMTCH prior to loading.
Also, SRTLOAD will provide the following messaging based on the above examples:

<table>
<thead>
<tr>
<th>Data Item</th>
<th>Nation Code</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>NATN</td>
<td>99</td>
<td>Nation found from description</td>
</tr>
<tr>
<td>NATN</td>
<td>2</td>
<td>Nation found from description</td>
</tr>
<tr>
<td>NATN</td>
<td>133</td>
<td>Nation found from description</td>
</tr>
<tr>
<td>NATN</td>
<td>BAHAMAS</td>
<td>Not In SOTCNVT, STV NATN</td>
</tr>
</tbody>
</table>

### Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data File Name</td>
<td>Yes</td>
<td>Enter the file name/path containing the search tape records or test score tape records to be loaded (for example, /tmp/search.data).</td>
<td></td>
</tr>
<tr>
<td>Electronic Prospect Code</td>
<td>Yes</td>
<td>Enter the electronic prospect code to be used in the load.</td>
<td>Electronic Prospect Validation Form (STVPREL)</td>
</tr>
<tr>
<td>Tape ID</td>
<td>No</td>
<td>Enter the additional ID of the tape, which is useful if multiple tapes are being loaded for the same electronic prospect code.</td>
<td></td>
</tr>
<tr>
<td>Parameters (cont.)</td>
<td>Name</td>
<td>Required?</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------------</td>
<td>-----------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>AMCAS School Number</td>
<td>No</td>
<td>Enter the AMCAS school code to be processed in the load. This parameter is optional for all incoming AMCAS files. If there are multiple school numbers on the incoming file, the parameter will sort the data by the school number entered and only process those records. If this parameter is left NULL, then all records on the file will be processed.</td>
</tr>
<tr>
<td></td>
<td>SSN or Generated ID</td>
<td>Yes</td>
<td>Enter $S$ to use the SSN from the data file or $G$ to always generate a new ID. <strong>Note:</strong> If the ID is generated or the incoming data is all zeros (as is the case with some ACT records), the process will display GEN in the ID field on the output report when the report is executed in audit mode. The actual generated IDs will display on the output report when the report is executed in update mode.</td>
</tr>
<tr>
<td></td>
<td>Term Code</td>
<td>No</td>
<td>Enter the term code that will be used if a term code cannot be determined from the high school graduation date on the search or test score tape and the SOTCNVT conversion rules, or if no term has been entered on SRAPRED.</td>
</tr>
<tr>
<td></td>
<td>Level Code</td>
<td>Yes</td>
<td>Enter the level code that will go on the prospect’s recruit record.</td>
</tr>
<tr>
<td>Name</td>
<td>Required?</td>
<td>Description</td>
<td>Values</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>Campus Code</td>
<td>No</td>
<td>Enter the campus code that will go on the prospect’s recruit record if entered.</td>
<td>Campus Code Validation Form (STVCAMP)</td>
</tr>
<tr>
<td>AMCAS Degree Code</td>
<td>No</td>
<td>Enter the degree code for the prospect record.</td>
<td>Degree Code Validation Form (STVDEGC)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This parameter is optional for all tapes except AMCAS. AMCAS requires the degree code for the application.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMCAS applications will not have a degree code if: this parameter is not entered, the incoming AMCAS APPL_TYPE does not have a corresponding conversion on SOTCNVT for validation table name DEGA, or a degree has been entered for the level code on SRAPRED for which SRTLOAD is run.</td>
<td></td>
</tr>
</tbody>
</table>
### Parameters (cont.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMCAS Major Code</td>
<td>No</td>
<td>Enter the major code for the prospect/application record. This parameter is optional for all tapes except AMCAS. AMCAS requires the major code for the application when SRTLOAD is run for the electronic prospect code AMCS. If no AMCAS major code is entered for this parameter, you must have a major code listed on SRAPRED for the level code for which you are running SRTLOAD. SRTLOAD will indicate a missing major for AMCAS on the log file, and the process will terminate if no AMCAS major is found on SRTLOAD or SRAPRED.</td>
<td>Major, Minor, Concentration Code Validation Form (STVMAJR)</td>
</tr>
</tbody>
</table>
Department Code    No  Enter the department code for on the prospect record.

AMCAS files do not provide for a department code. You can establish the department code for AMCAS applicants using this parameter or entering a department code value on SRAPRED for the level for which you are running SRTLOAD.

If department code is required for curriculum processing at your institution, the department code is needed for the application to be processed correctly whether it is updated via the SRTLOAD parameter or using SRAPRED.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Code</td>
<td>No</td>
<td>Enter the contact code that will go on the prospect’s recruit record.</td>
<td>Contact Type Code Validation Form (STVCTYP)</td>
</tr>
<tr>
<td>Source Code</td>
<td>No</td>
<td>Enter the source/background institution code that will go on the prospect’s recruit record.</td>
<td>Source/Background Institution Code Validation Form (STVSBGI)</td>
</tr>
<tr>
<td>Address Type Code</td>
<td>Yes</td>
<td>Enter the address type code for the prospect’s address to be used. If no value is entered, MA is the default.</td>
<td>Address Type Code Validation Form (STVATYP)</td>
</tr>
<tr>
<td>Address Source Code</td>
<td>Yes</td>
<td>Enter the address source code for the prospect record.</td>
<td>Address Source Validation Form (STVASRC)</td>
</tr>
</tbody>
</table>
Telephone Type Code  | No  | Enter the default telephone type code for the prospect’s recruit record. |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>When the Telephone Type parameter is NULL, then the telephone type that is loaded with the telephone number should be the telephone type that is associated with the address type on STVATYP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When the Telephone Type parameter is NULL, and no corresponding STVATYP value exists for the telephone type, then the telephone type that is loaded should match the address type code, as long as it is also a valid STVTELE code.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If none of the above is true, then the default telephone type is <strong>MA</strong>.</td>
</tr>
</tbody>
</table>

Email Type Code  | No  | Enter the email type code for the prospect’s email. |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>E-mail Address Type Validation Form (GTVMAL)</td>
</tr>
</tbody>
</table>

Print Test Scores  | Yes | Enter Y to print test scores on the report while processing test score records. Enter N to suppress printing test scores. |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Y  Print test scores</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N  Do not print test scores</td>
</tr>
</tbody>
</table>

Default Test Month  | No  | Enter the default month for the test. Valid values are 01 - 12. |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Section 8 - Problem Resolutions

#### Parameters (cont.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print County Code Errs (AMCAS)</td>
<td>Yes</td>
<td>Enter Y to print validation errors for the county for AMCAS processing or N to not print validation errors. The default is Y.</td>
<td>Y Print validation errors</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This option is provided since many county codes exist that do not validate and could needlessly create a long report with many redundant errors.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This parameter is optional for all tapes except AMCAS.</td>
<td>N Do not print validation errors</td>
</tr>
<tr>
<td>Print Validation Summary</td>
<td>Yes</td>
<td>Enter Y to print the validation summary or N to not not print the validation summary. The default is Y.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SRTLOAD checks for non-validated codes for each pidm/ID and prints a summary by validation table/code at the end of the report for more efficient viewing and correction of errors. This prevents the need to search through each ID and view duplicate errors.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>It is recommended that SRTLOAD first be run in Audit Mode so that reported validation errors can be reviewed. When the errors are resolved, SRTLOAD should be re-run in Audit Mode to be sure all validation errors have been resolved, prior to running the report in Update Mode.</td>
<td></td>
</tr>
</tbody>
</table>
**Section 8 - Problem Resolutions**

**Sample Reports**

---

**Parameters (cont.)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Required?</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run Mode</td>
<td>Yes</td>
<td>Enter U to update the database or A to run an audit report.</td>
<td>U  Update the database</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> Run the process in Audit Mode to determine which values are missing from Banner (for example, high school codes, major codes). If these values are not created in Banner and converted using SOTCNVT where appropriate, the value will not be loaded into Banner.</td>
<td>A  Produce audit report</td>
</tr>
<tr>
<td>Effective Date (AMCAS)</td>
<td>No</td>
<td>Enter the effective date for which AMCAS records should be loaded. Records having a date that is greater than or equal to this date will be loaded.</td>
<td></td>
</tr>
</tbody>
</table>

---

**Report Sample—Electronic Prospect Load (SRTLOAD) — see the following pages**
This sample shows the AMCAS output.

<table>
<thead>
<tr>
<th>ID</th>
<th>NAME</th>
<th>SBGI</th>
<th>GRD YR</th>
<th>STREET</th>
<th>CITY</th>
<th>ST</th>
<th>ZIP/CNTRY</th>
<th>BIRTH DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>P00158828</td>
<td>Rock, Colin</td>
<td>11315</td>
<td>2006</td>
<td>3231 Fox Hollow Ln.</td>
<td>SW Rochester</td>
<td>MN</td>
<td>55902</td>
<td>02/20/83</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P00158829</td>
<td>McGuire, Melissa</td>
<td>4200</td>
<td>2006</td>
<td>79 Massachusetts Avenue</td>
<td>Massapequa</td>
<td>NY</td>
<td>11758</td>
<td>09/01/84</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P00158830</td>
<td>Gundersen, Casey</td>
<td>6341</td>
<td>2006</td>
<td>15 Maryland Ave</td>
<td>Harrisonburg</td>
<td>VA</td>
<td>22801</td>
<td>10/14/83</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P00158831</td>
<td>Sanders, Andrew</td>
<td>6248</td>
<td>2006</td>
<td>20 Raymond Court</td>
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Electronic Prospect Load

**REPORT SUMMARY INFORMATION - SRTLOAD - Release 7.3.1**

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Total of PIDMs Matched: 0
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Electronic Prospect Load

SRTLOAD

*** REPORT CONTROL INFORMATION - SRTLOAD - Release 7.3.1 ***

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INFC CODE: SAT
TAPE ID: satb
AMCAS SCHOOL CODE:
AMCAS DEGREE CODE:
AMCAS MAJOR CODE: ARTS Value From SRAPRED Used *
DEPARTMENT CODE: 2415 Value From SRAPRED Used *
CONTACT CODE: TAP
SOURCE CODE: A00006
ADDRESS TYPE: MA
ADDRESS SOURCE: TAPE
TELE TYPE: MA
EMAIL TYPE: HOME
PRINT TESTS: N
DEFAULT MONTH: 01
PRINT COUNTY ERRORS: N
PRINT ERROR SUMMARY: N
RUN MODE: U
EFFECTIVE DATE: 24-AUG-2006

Number of Records Read from Tape: 55
Total of Prospects Loaded: 55
Total of PIDMs Matched: 0
Total of Conversion Errors: 389