October 2012

Campus Solutions 9.0 Additional Features October 2012 Pre-release Notes



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Due to the nature of the product architecture, it may not be possible to safely include all features described in this document without risking significant destabilization of the code.

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Executive Summary

Purpose Statement: This document provides an overview of the new and enhanced features planned for delivery in Oracle's PeopleSoft Campus Solutions 9.0 Additional Features October 2012. It is a preview intended solely to keep you updated and help you understand new features, to assess their applicability to your institution, and to help you plan your IT projects and investments.

The planned features previewed in this document are:

- Student Financials
 - Tuition Calculation Waiver Enhancements
 - o Student Financials General Ledger Reconciliation Enhancements
- · Student Records
 - o Program Enrollment Updates
 - Activity Management Updates
 - Research Tracking Updates
 - Milestone Enhancements
- · Admissions and Recruiting
 - Sample Online Application (SOLA)
 - o Admissions Application Program Update Action Reason Process
- · Campus Community

- Campus Solutions-Oracle Identity Management Integration
- Delegated Access Phase 1
- New User Registration Enhancements

With every Additional Feature bundle, our goal is to help your organization leverage technology to its fullest and increase the efficiency and effectiveness of your operations. We strive to provide innovative and extensible functionality that will reduce the need for customization and maximize the return on your investment in Oracle Campus Solutions. One of the benefits of our Continuous Delivery Model is that it allows Oracle Campus Solutions to deploy new functionality incrementally rather than delivering large units of new development at any one time. Additional resources are planned to help your organization determine the impacts of implementing these new capabilities. We encourage you to visit *My Oracle Support* frequently to keep apprised of resources as they become available. While every attempt is made to accurately describe our intentions, the delivered additional features may not have every feature or capability mentioned in this document, and a specific feature may become part of a different application or have a different product name than those cited in this document.

Student Financials

Tuition Calculation Waiver Enhancements

One of the top enhancement requests from our expanding global customer base using Student Financials is in the area of Tuition Calculation Waivers. Use of this functionality continues to expand, with different models of usage found in different countries. In the Additional Features October 2012 bundle, Campus Solutions is planning to deliver new functionality to enhance Tuition Calculation Waiver processing to provide the option for applying the waiver on tuition "gross amount" or the "net amount". In addition, we plan to provide increased flexibility to allow for prioritizing multiple waivers, prorating dropped units and overriding a waiver at the student assignment level.

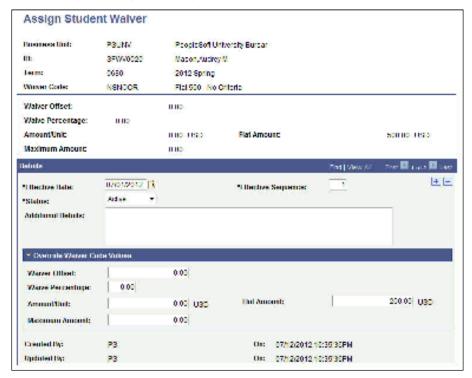
Waiver Code Setup

Planned functionality will be added to the Waiver Code to allow an administrator to setup a waiver code with the new fields: Enable Student Override, Waiver Type, and Prorate Dropped Units:

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Assign Student Waiver

In order to provide functionality to override the waiver at the student level, the Assign Student Waiver component is planned as part of the Tuition Calculation Waiver Enhancement.



This will provide the administrator the flexibility to override the amounts designated on the waiver code setup. In addition, if delivered criteria cannot define a specific student population, the Assign Student Waiver functionality will allow the administrator to assign the waiver to a student without the use of criteria. Population Selection to Mass Assign Student Waivers is expected to be delivered along with manual data entry.

Prioritizing Waivers

Planned functionality for prioritizing waivers will be added to the Tuition Group Term Fee Waivers setup to allow the administrator to identify the order in which waivers should be calculated:



In addition, similar functionality is being planned for Waiver Groups that are attached to the Course/Class Fee setup:



Student Services Center

The Student Services Center is expected to be enhanced to allow the administrative user to view a summary of student waiver overrides.



Expected Benefits: Tuition Calculation Waivers Enhancements

Planned enhancements to Tuition Calculation Waivers are focused on increasing usability and accuracy. Benefits that our customers should anticipate include:

- Increase in functionality to accurately calculate multiple waivers based on waiver type and priority.
- Flexibility afforded to the administrative user with the ability to assign and manage tuition waivers at the individual student level.
- Inclusion of the Student Waiver overrides summary and a link to the component in the Student Services Center extends usability.

Beyond Additional Features October 2012: Planned Additions to Tuition Calculation Waiver Enhancements

As noted in the PeopleSoft Campus Solutions 9.0 Statement of Direction 2012-2013, we are planning for additional functionality for the Tuition Calculation Waiver process in coming bundles.

In responding to an important business requirement that revenue recognition is accomplished monthly and after service is rendered, we are planning to allow for waivers to apply proportionally across the installments created through tuition calculation and "stick" to the installments.

In responding to the global business need for providing flexibility for the begin date of the waiver, we are planning to allow the Student Assignment Waiver component to provide for the beginning time frame for the waiver to apply proportionally.

Planned General Ledger Reconciliation Enhancements

Reconciling accounting entries between Campus Solutions and PeopleSoft Financials General Ledger (GL) is an important and necessary activity. Accounting transactions in Campus Solutions are held in the SF Accounting Line Transaction (SF_ACCTG_LN) table and the Batch Publish utility is used to send these transactions and receive information from the PS Financials General Ledger. In response to suggestions from the Student Financials Product Advisory Group and other customer input we are planning enhancements to GL Reconciliations which are targeted to improve usability. We anticipate that the SF_ACCTG_LN table will be modified to include the four fields indicated below. The Generate Accounting Entries and Generate Cashiering Entries process will be updated to populate these new fields.

NEW FIELD IN SF ACCOUNTING LINE TRANSACTION (SF_ACCTG_LN)	DISPLAY NAME	SOURCE OF DATA	COMMENTS
ITEM_TERM	Item Term	ITEM_SF.ITEM_TERM	Item Term from ITEM_SF
ITEM_TYPE	Item Type	ITEM_SF.ITEM_TYPE	Item Type from ITEM_SF
REF1_DESCR	Reference Number	ITEM_SF.REF1_DESCR CSH_OFF_RECEIPT.REF1_DESCR	Generate Accounting Entries process will pick data from ITEM_SF table Generate Cashiering Entries process will pick data from CASH_OFF_RECEIPT table
RECEIPT_NBR	Receipt Number	CSH_OFF_RECEIPT.RECEIPT_NBR	To be populated only by Generate Cashiering Entries process.

These planned additions will enhance the efficiency of CS-GL Reconciliation, reduce the need for creating and maintaining customizations and reduce the administrative costs associated with these transactions.

Student Records

Program Enrollment Updates

Program Enrollment describes an educational model where a student must generally complete a strictly defined set of courses towards the completion of their academic objective in a specified sequence; each of which are often structured in a series of levels or stages, where one stage must be successfully completed before a student can progress and enroll in the next set of courses. Program Enrollment provides a flexible structure that can enable institutions to apply this framework to various program requirements to organize curricula and control enrollment. We introduced our initial offerings in Additional Features July 2011 in which we concentrated on delivering the core setup that would support Program Enrollment functionality in later releases. In Additional Features January 2012 we introduced student data structures to support this flexible enrollment model: the Academic Progress Tracker (APT). In July 2012, we introduced several enhancements that provided greater usability and extensibility to Program Enrollment including the ability to create Academic Item Registry (AIR) Course items from your Course Catalog and the adoption of the Common Attribute Framework in the AIR.

In Additional Features October 2012 we plan to include important updates to support the use of the Academic Progress Tracker:

- Provide the ability to define an individual student 'term map' which allows for adjustments for individual students, e.g. if student stops out for a year.
- Enable the Common Attribute Framework in the Academic Progress Tracker to provide attributes that can be assigned at the APT Instance (header) level. We anticipate utilizing these to support future functionality for Class Searches and Rule definition via the Rules Engine.

We plan to deliver a new API that will manage the creation and update of APT data from sources outside of the APT component (or student self-service). This API inserts and updates APT tables to create new APT instances and will be used in the following areas:

- Batch processing to create APT Instances for a population of students; this process will use
 population selection functionality to define the group of students.
- Batch processing to activate students: using population selection, a process will activate students in the next planning node of their program of study making that segment of the program available for planning and enrollment.
- Provide the ability to create an APT instance from the Student Program/Plan component. The API will be used to create APT instances when students are matriculated.

In preparation for Program Enrollment Self-Service Class Search, we are enabling the Common Attribute Framework for the Class Association component. We anticipate that assigned attributes to class associations will be used to for specialized class searches.

Expected Benefits: Program Enrollment

With each Additional Feature bundle, Program Enrollment's design continues to evolve to provide important fundamental benefits to our customers which include:

- Flexibility The Academic Item Registry (AIR) provides institutions with a truly configurable framework that supports both controlled program curricula and flexible program structures.
- Usability Feature functionality such as Build Program by Format provides institutions with an intuitive way in which to build out their program curricula including the ability to share academic items such as course lists and course groups between programs of study.
- Extensibility With the introduction of the Common Attribute Framework, we have enhanced the ability to define and store critical institutional specific data items.
- Student Centered supports the various business processes that center on the management of
 student program data that provide planning and enrollment capabilities to track student
 progression through program completion. Program enrollment also provides the ability to
 build out individualized program structures for students, where the requirements differ from
 the standard program curriculum.

Beyond Additional Features October 2012: Planned Additions to Program Enrollment

Our Continuous Delivery model allows us to build upon, update, and extend Program Enrollment over several bundles. It is important to note that Oracle does not expect customers to be able to fully deploy these features planned for AF October 2012. However, by introducing new structures that provide a significant new range of functionality we anticipate that our customers will take the opportunity to evaluate new capabilities, review documentation, and begin their analysis for how they can leverage features, once fully delivered. Upcoming Additional Feature bundles are targeted to include:

- Rules-based processing for Progression, Calculating Results and other functions
- Enrollment enhancements for enrolling students into mandatory courses
- Program Enrollment based student self-service features, including Planning and Enrollment

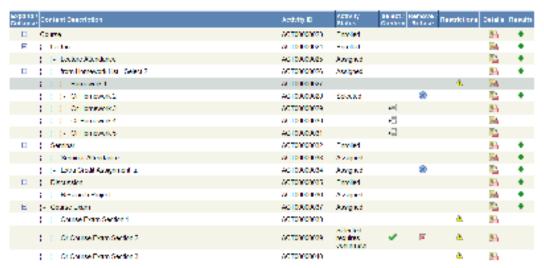
Activity Management Updates

Institutions require flexible and granular grading structures and calculation functionality to evaluate a variety of student assignments, attendance and course level examinations. In an ongoing effort to meet this customer-driven request, we have designed and continue to deliver a comprehensive solution called Activity Management. Additional Features October 2012 represents the fifth installment in a series of deliverables for Activity Management.

The Activity Registry structure delivered in Additional Features July 2011 set the foundation to manage marks and exams in Campus Solutions. The registry ties to the course catalog and allows

users to define granular course grading structures. Additional Features January 2012 carried that structure to the schedule level and allowed administrative users to manage and organize class content. In Additional Features April 2012 we refined the earlier releases and introduced support for exam scheduling and exam only courses. Most recently the Common Attribute Framework was introduced in Additional Features July 2012 and incorporated into the Activity Registry. Exam Only Course support was enhanced and Content Conditions became functional in the Activity Manager.

Additional Features October 2012 focuses on connecting the Activity Management structure and functionality to directly support student enrollment with the planned delivery of the Individual Activity Manager (IAM). The IAM is the component that stores enrolled student activity data – enrolled and assigned activities, and activity results. The IAM provides the ability to assign content, track progress and grade academic work for each of the student's classes. The example below illustrates the IAM as it is viewed by an administrator. The student is enrolled in ECON 145, which has Lecture and Seminar components (in which attendance is tracked and several "homework" assignments exist from which the student can select to complete), a Discussion component in which a research project is assigned, and a course exam which has three sections from which the student can choose.



The IAM provides the ability to manage activity actions that correspond with assignment options that have been defined in the Activity Registry and organized by the Activity Manager. While many items for a class are automatically assigned, some are defined with greater flexibility. For example, activity items can be defined so that the student is <u>not</u> automatically assigned to the activity based upon their enrollment in the class or exam. The icon will appear for those activities which were defined under a condition in which the student may choose which activity to undertake. In the illustration above the student can select 2 from 5 different "homework"

assignments. A course administrator or faculty member may override that choice by selecting the scion. Other activities (like the three examinations scheduled) require that a student confirm their intention to attend.

Expected Benefits: Activity Management

Activity Management allows you to use extensive functions to construct basic course structure and its content and to define the result structure that maps marks, grades and outcomes that are required by various academic areas, programs, and courses applicable to your institution.

The fundamental benefits of Activity Management are its configurability and reusability.

- You can configure course grading structures, apply them to multiple courses and choose how
 to manage required coursework. Institutions can also configure their individual examination
 requirements.
- You can reuse the course grading structures and associate them to similar courses throughout your course catalog. Extensive copy features within the Activity Registry can be used to streamline data entry.
- The unique design of the Individual Activity Manager provides an administrative view of a student's coursework requirements and the current status of each of those activities that can be managed separately and altered as necessary for an individual student.

Beyond Additional Features July 2012: Planned Additions to Activity Management

Our Continuous Delivery Model allows us to make improvements to Activity Management on an ongoing basis as we assess our design, usability and receive feedback from customers. It is important to note that Oracle does not expect customers to be able to fully deploy these features planned for AF October 2012. However, by introducing new structures that provide a significant new range of functionality we anticipate that our customers will take the opportunity to evaluate new capabilities, review documentation, and begin their analysis for how they can leverage features, once fully delivered.

Upcoming Additional Feature bundles are targeted to include:

- Enrollment triggers to automatically update a student's IAM
- Activity rosters for faculty and administrative grading of student activities
- The process to calculate raw activity results into an overall course result
- Self service access into activity management structures for students, faculty, and administrative managers

Research Tracking Updates

In Additional Features January 2012, we introduced the Research Tracking feature. Research Tracking provides a central repository of research candidates' information with administrative components in which to monitor research candidate progress, track research topics, maintain supervisory assignments and provide a comprehensive management tool for supporting the "life cycle" of these unique students. We have delivered 2 phases of Research Tracking functionality which included:

- Setup components in which users can identify and define research eligible academic programs and plans, available research topics at the institution, and available research supervisors and the level of their participation. (January 2012)
- A Candidate Management data structure which provides the ability to define and track a
 research candidate's research topic, supervisors, thesis submission dates, and other schooldefined requirements. (January 2012)
- A Thesis Processing feature, which tracks the submission and evaluation of the candidate's thesis or dissertation. (January 2012)
- Integration of the Common Attribute Framework within the Candidate Management component: common attributes can now be defined within Research Components. (July 2012).
- Updates to Thesis Submission and Final Result pages. (July 2012)
- Updates to default values, data validation, and delivered error messaging of which several can
 be controlled with new research setup parameters added to the Academic Program and
 Academic Plan setup. (July 2012)
- Ability to manage both internal and external organizations and contacts related to research topics. (July 2012)

In Additional Features October 2012, we are focusing on several important aspects of Research Tracking: the ability to define, calculate, and track the time towards completion of research studies; tracking and administering special requests from research candidates; and the definition and management of Research Supervisors and Evaluators. Planned features include:

Defining, calculating and tracking time to the completion of research and submission of the thesis for evaluation

- Generally, a research candidate is assigned a maximum amount of time to submit their thesis
 for review. We plan to provide the ability to monitor the time allocated towards the
 completion of a candidate's thesis. *Consumption* is the countdown of remaining time that occurs
 as the candidate conducts their research and develops their thesis.
- Based on the amount of time allocated to the candidate's research, the rate at which their
 research is conducted, and the date the research begins, we plan to provide the ability to

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calculate the candidate's final thesis submission date. We also anticipate the calculation of an "early" submission date to be used for triggering notifications to the candidate.

• The ability to make adjustments to the start date, time allocated, and research rate based on the discretion of the advisor or department head is supported.

Candidate Service Requests

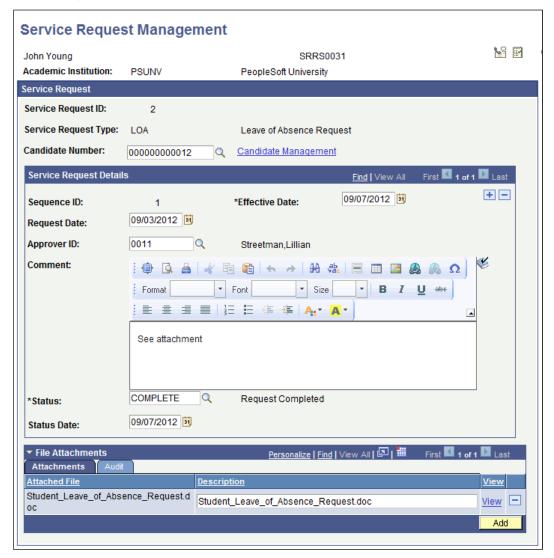
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- At any point in the research lifecycle, the candidate may need to make a request for assistance
 from their department, supervisor, or from a research administrative office. As these requests
 are reviewed, administrators must determine the potential impact to the candidate, particularly
 their ability to meet thesis submission dates.
- Examples of Service/Change requests include (and are not limited to):
 - Change of supervisor
 - Leave of absence request
 - Return from leave
 - Thesis extension request
 - Change of program/area of research
 - Change of research load (FT/PT or PT/FT)

ACTIVE

- Withdrawals
- Admissions acceptance changes (start date)

• A planned Service Request Management component allows schools to track and administer service requests made by research candidates.



Research Supervisor and Thesis Evaluators Definition

- Currently, Research Supervisors are defined on the Instructor/Advisor Table page. We plan to leverage Campus Solutions Affiliations functionality to define research supervisors and evaluators.
- A new Administrator Profile component has been created which will store the person's internal or external organization relationships, academic areas of participation, and availability.

Persons entered will not be available to be assigned as a research supervisor or thesis evaluator until they demonstrate the required qualifications and are granted approval. The component also can access existing components where additional qualifications can be maintained.

- Bio-demographic information
- Communication Preferences
- · Honors and Awards
- Languages
- Licenses and Certificates
- Memberships
- · Publications
- Work Experience
- Common Attribute Framework support has been added to support specific data required by your institution's research administration.

Expected Benefits: Research Tracking

The Research Enrollment Tracking feature is intended to provide a complete set of operations for administrators to manage their graduate research candidates including:

- Ability to capture and manage research related information in a single location in the Candidate
 Management component. This component brings together all of the key research related data
 for a student so that it can be used to track a student's research progress to the point of thesis
 submission and result outcome.
- Ability to manage and allocate both internal and external supervisors and link them to various research topics.
- The ability to track and manage the Thesis Submission process in a single location using the
 Thesis Management administrative component. It provides institutions with the ability to view
 the details related to submission, progress, and final decisions.
- Monitoring the consumption of the allocated time towards thesis submission and completion
 is an important capability which will increase the efficiency, accuracy of administrative
 practices and reduce the costs associated with this necessary process.
- Utilizing delivered Affiliations functionality to define and track research supervisors and evaluators provides a full picture of all the relationships an individual has with an institution.

Beyond Additional Features October 2012: Planned Additions to Research Tracking

Our Continuous Delivery Model allows us to make improvements to Research Tracking on an ongoing basis as we assess our design, usability and receive feedback from customers. It is important to note that Oracle does not expect customers to be able to fully deploy these features

planned for AF October 2012. However, by introducing new structures that provide a significant new range of functionality we anticipate that our customers will take the opportunity to evaluate new capabilities, review documentation, and begin their analysis for how they can leverage features, once fully delivered.

Planned future functionality for Research Tracking includes:

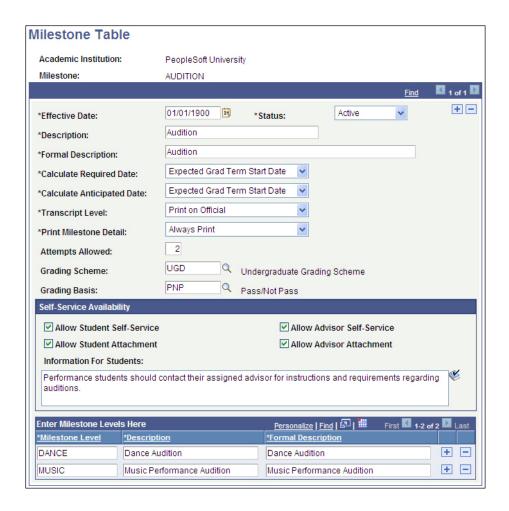
- Candidate self service applications
- Additional consumption calculation methods
- Scholarship and fund management

Updates to Milestones

Milestones offer important functionality for assigning and tracking non-course related requirements for a variety of students. In conjunction with our efforts to extend this functionality for research students, we are planning to enhance existing milestone setup and deliver new functionality in Additional Features October 2012. These updates are targeted to include:

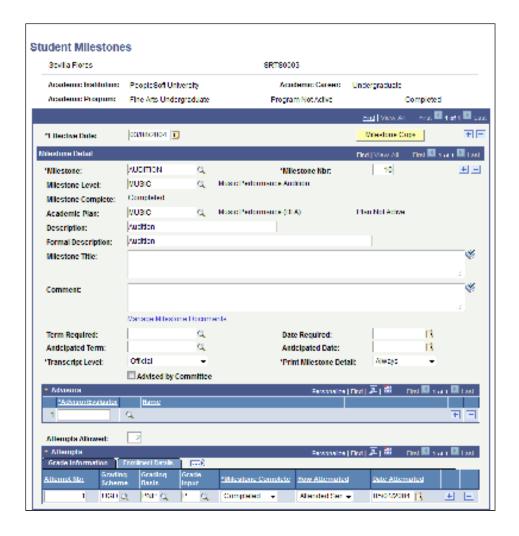
Enhancements to Milestone Setup and the Milestone Template

- Additional fields for the milestone setup table and the milestone template to calculate completion dates and terms.
- Ability to add attachments to a milestone so that the student can access relevant content such
 as instructions or reference materials.
- Ability to define if milestone data and messages are to be deployed to students via the Student Center and to Advisor Self Service.
- Add the milestone level to the milestone template.



Enhancements to Student Milestones

- Redesign the existing student milestones page to improve usability.
- Allow the ability to have more than two advisors on a milestone.
- Add attachments to student milestone page.
- Ability to attach milestones to a course in the Course Catalog. When a student enrolls in a
 scheduled section of that course, an assigned course milestone will automatically be assigned to
 the enrolled student.
- Provide a batch process using population selection to insert and update milestones.



Milestones in Self Service

- Provide self service pages to display milestones in both the student center and the advisor center.
- Allow for the student to download documents, such as instructions.
- Allow for the student to upload their documents.



Expected Benefits: Milestone Enhancements

Milestones represent important non-course events that students are frequently required to satisfy in order to meet program of study requirements. Extending their capability provides our customers with significant new functionality and value.

- Batch assignment and updates to milestones reduces administrative and maintenance time.
- Ability to attach documents and files to milestones improves usability and supports paperless business processes.
- Associating milestones assignment with class enrollment reduces manual tracking and administrative costs.
- Deploying milestones to self service provides important information that supports academic decision- making for students and their advisors.

Admissions and Recruiting

Sample Online Application (SOLA)

Admission Applications Web Services (AAWS) has been successfully implemented by a number of customers since its delivery in July, 2010. Since that time, we have been working to improve supporting architecture and functionality including redesigning and delivering new documentation to support adoption. However, we have also recognized that implementing Service Oriented Architecture (SOA) utilizing new constructs such as the Entity Registry while building an application user experience represent considerable challenges that require a new level of readiness and depth of understanding for many of our customers. In order to address this, in Additional Features October 2012, we intend to deliver an "out of the box" sample online application that our customers can use for reference, training, deconstruction, and testing. This unique deliverable is not intended to be deployed to applicants but rather to be used as an example for technical implementers to examine and understand how delivered web services operate. By providing readily available tools such as this admission application sample, we hope to greatly increase the probability of successful implementations, reduce the time to their completion, and increase customer knowledge and confidence to undertake future SOA based projects.

The Sample Online Application (SOLA) is an innovative deliverable that is anticipated to provide:

- A basic user interface built in PIA in a familiar PeopleTools package that can be easily
 understood and referenced. The planned navigation location for the Sample Online
 Application is: Set Up SACR > System Administration > Utilities > Sample User Interfaces
- The sample application contains pages and data that represent a generic design reflecting a minimal, simplistic approach that is intended to be used *only* as a common reference throughout our global customer base.
- The sample application is delivered with the following Admissions Applications Web Services web services functioning:
 - Create Application (SAD_CREATEAPPL)
 - Save Application (SAD_SAVEAPPL)
 - Submit Application (SAD_SUBMITAPPL)
 - Find an Application (SAD_GETAPPL)
 - Find Applications (SAD_GETAPPLS)
 - Retrieve Attachment(s) (SAD_GETATTACH)

- The sample application utilizes the Campus Community New User Registration Tester page for User ID provisioning. (See the section New User Registration Framework Enhancements: Design Phase 1 in this document.)
- The sample application also employs the following web services:
 - Student Financials: Initiate ePayment (SSF_INITIATE_EPAYMENT)
 - Student Financials: Complete ePayment (SSF_COMPLETE_EPAYMENT)
- Three types of accompanying documentation that will assist implementers with useful references:
 - A PeopleBook appendix that contains a technical overview of how SOLA works from a functional perspective, its design, as well as references to additional supporting documentation.
 - A complete object inventory. This is an html version of a Technical Design Document (TDD) in which we provide a detailed description (i.e., Fields, Record Definitions, Pages, Components, PeopleCode, etc.) of every object in SOLA.
 - Within the application package PeopleCode for this sample (SAD_OLA_DEMO), each of the application classes have extensive comments documenting SOLA internal operations.

Expected Benefits: Sample Online Application

We have documented the benefits of developing and deploying web services for some time. Their standard design, inoperability and reusability are important and significant to the future of Campus Solutions and our customers. However, as the HEUG Admissions Product Advisory Group has pointed out, their implementation requires advanced knowledge, skills and support. By delivering a readily available "sample" of a web services supported admissions application, we anticipate that it will:

- Provide a robust and in depth learning tool for Application Configuration, Constituent Transaction Management (CTM) Setup, Data Update Rule Entry and administration.
- Provide unique documentation in an easy to use and accessible format.
- A working sample that can be used to create data in CTM constituent staging tables and Application transaction staging tables
- A testing device for a locally customized user interface.

Admissions Application Program: Update Admissions Program Action/Reason Processing

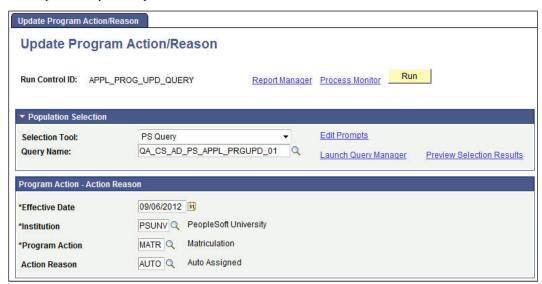
Efficient and timely updates to Admission Application Program data is a critical management requirement in most Admissions offices. Many admissions administrators utilize automated batch processing that applies admissions program actions (admit, waitlist, defer, reject, etc.) in order to

efficiently and quickly assign actions and their reasons to selected applicants. The current delivered Application Program Update Process is a 3 step activity in which users:

- Specify in a Mass Change Definition the criteria for selecting which applicants the Program
 Update process will act on and the Program Action and Action Reason values to insert.
- Run the Mass Change process which places its results in a temporary table.
- Run the Application Program Update process which inserts the data from the temporary table into the appropriate applicant's Admissions Application Program record.

In Additional Features October 2012, we plan to offer an alternative to our current processing with a new solution that utilizes the integration between application engine technology and Population Selection functionality. This new application will reduce the process from three steps to one and is expected to provide the following:

 A new run control component that allows the user to specify what values should be inserted to ADM_APPL_PROG.PROG_ACTION and ADM_APPL_PROG.PROG_REASON for the Ids specified by the Population Selection results



 Standard Campus Solutions Population Selection architecture allows a user to specify which Selection Tool they will use and identify the applicants to which Program Action and Action Reason values will be assigned and inserted to Admissions Maintenance, Program Application.

Expected Benefits: Update Admissions Program Action/Reason Processing

Whenever appropriate, Campus Solutions attempts to apply delivered utilities to relevant features. A new option for taking admissions program actions by using Population Selection provides significant benefits and extends functionality:

- Population Selection provides the ability for our customers to use selection data beyond admissions application records from which to specify those applicants for whom the Application Program Updates should apply.
- The new process will be an addition to current admissions functionality and the current Application Program Update Process will be left in place for customers to continue to use if they wish.

Campus Community

The Common Attribute Framework

Requests for new data fields throughout Campus Solutions are fairly common from our customer base. However, delivery, testing, and documentation of new fields largely depends on their common utility and impact on batch processes, components and core functionality. In many cases, individual areas of an institution have valid business needs to add one or more fields to a component. Introduced in July 2012, the Common Attribute Framework provides the ability to add additional fields in any functional area where the framework is enabled. The framework provides two delivered sub-pages that can easily be incorporated into the existing UI for a particular feature. The first installment of this functionality enabled components for Program Enrollment, Activity Management, and Research Tracking including:

- Program Enrollment: Academic Item Registry (at the academic item and child item level)
- Activity Management: Activity Registry
- Research Tracking: Research Topics, Student Admissions Candidate Details, Candidate Management and Thesis Management

In October 2012, we plan to deliver the Common Attributes Framework enabled for several new areas:

Financial Aid

- The View Packaging Status Summary page (Financial Aid > View Packaging Status Summary; STDNT_AID_ATRBT on the Packaging Status Summary page) is a common record for Financial Aid which holds attributes about the student such as statuses, overrides, matches, etc. at the institution and aid year level. We anticipate customers will get a lot of value from using the Common Attribute Framework on this record.
- The Assign Packaging Variables page (Financial Aid > Awards > Award Processing > Assign
 Packaging Variables; STDNT_PKG_VARS) is a component where we have a fixed set of user
 definable fields. We have received suggestions from customers to expand the number of fields
 on STDNT_PKG_VARS and we anticipate that the Common Attribute Framework will serve
 to address these localized requests.

Student Records

 The Class Associations component (Curriculum Management > Schedule of Classes > Adjust Class Associations; CLASS_ASSOC). The addition of attributes to this component will allow users to capture additional data at the class association level. Future updates also include plans to use Class Association level attributes in Program Enrollment Class Search.

Program Enrollment

The Academic Progress Tracker (APT) component (Records and Enrollment > Program
 Enrollment > Academic Progress Tracker; SSR_STDNT_APT). The introduction of the
 Common Attribute Framework in APT (at the instance or header level) will allow users to
 capture additional, user defined data on their student program records. APT attributes will also
 be used in Program Enrollment Class search, to be delivered in a future update.

Activity Management:

- The Activity Registry (Curriculum Management > Activity Management > Activity Registry >
 Activity Registry) where the coursework structure is established.
- The Activity Manager (Curriculum Management > Activity Management > Organize & Manage > Activity Manager), which is the administrative component to manage coursework.

Research Tracking

 Administrator Profile Management page (Records and Enrollment > Graduate Research Management > Administrator Profile).

Expected Benefits: Extending Campus Solutions with the Common Attribute Framework

As we continue to enable the Common Attribute Framework for components related to Program Enrollment, Activity Management and Research Tracking we also anticipate that it will have utility across Campus Solutions over time by providing:

- A method for customers to add user defined fields to a PIA page without resorting to customization.
- An alternative approach to adding data fields associated with regional or country specific extensions for national, provincial, or state reporting or other localized business processes.

The additional enablement of the View Packaging Status Summary, Assign Packaging Variables page and the Class Association Component begins a sustained commitment to apply this powerful architecture to other areas of Campus Solutions.

Campus Solutions-Oracle Identity Management (OIM) Integration

Oracle Identity Management is a member of the Oracle Fusion Middleware family of products, which brings greater agility, better decision-making, and reduced cost and risk to diverse IT environments. Managing identity information is one of the most critical and resource intensive IT functions at colleges and universities today. Assigning student, faculty, and staff users access to mission-critical resources poses a complex and time-sensitive task. As new students and employees are added, user rights must be provisioned. As students and employees transfer or terminate their relationship with your institution, user rights must be changed or removed. The

Oracle Identity Manager automates access rights management and the security of resources to various target systems. Oracle Identity Manager connectors are used to integrate Oracle Identity Manager with target applications; persons are created or modified on the target system and information about these persons is reconciled into Oracle Identity Manager.

In Additional Features October 2012, we plan to deliver enhanced Campus Solutions capabilities to support the connector which is delivered separately via OIM product delivery. These planned enhancements will enable our customers to use Campus Solutions as an authoritative (trusted) source of identity information for the Oracle Identity Manager. Integration between Campus Solutions and OIM will include:

- Use of Affiliations information for reconciliation and provisioning policies.
- Integration Broker based approach which will leverage the incremental SCC_CONSTITUENT_SYNC message to provide basic personal data and Affiliation code information to OIM.
- A new full data publish SCC_CONSTITUENT_FULLSYNC message to initially seed OIM with relevant personal information and Affiliation data.
- A new Affiliations context-sensitive service operation routing handler for the SCC_CONSTITUENT_SYNC message that will allow control of populations to be reconciled with OIM.

Additional information about Oracle Identity Management solutions can be found on the Oracle Technology Network.

Expected Benefits: Campus Solutions-Oracle Identity Management Integration

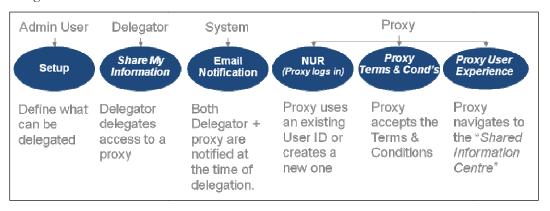
This simplified approach for integration will provide added value to our customers including:

- The CS-OIM Connector will only bring in basic Person Data and Affiliations into OIM. The core personal Data will be used to create the necessary user identities in OIM.
- Affiliations will be used to define access policies. There is no need to bring in Student Academic Program Data into OIM.
- Control of the person populations to integrate in OIM, allowing for a phased implementation and tight control on user provisioning.

Delegated Access Framework - Phase 1

Colleges and universities find it increasingly necessary to provide the ability for their students (the delegators) to allow parents, guardians and even employers (the proxies) access to various data or to delegate access to various transactions associated with the student life cycle. This needs to be accomplished efficiently while observing any privacy restrictions required by law or those specified by the delegating student. The planned Delegated Access feature provides a framework

that standardizes *who* can delegate *what* access to *whom* within Campus Solutions components. We plan to deliver this feature over several phases. In Additional Features October 2012, the first phase focuses on the Delegated Access Framework in which the underlying structures are deployed. The diagram below describes the fundamental elements that comprise the planned Delegated Access Framework.



Planned Delegated Access functionality for Additional Features October 2012 includes:

- Ability for institutions to:
 - Identify the components they want to make available for delegation along with what security Roles to grant to the proxies. Institutions can either group these components under one transaction to delegate or associate one component per transaction.
 - Restrict which transactions a student has access to delegate.
 - Decide if an EMPLID should be associated with the proxies that will be delegated a specific transaction.
 - Send an email notification to the proxy once a delegator has delegated or revoked access and an email notification to the delegator once access to his/her own data is delegated to a proxy.
 - Provision the proxy with security Roles related to the delegated components only after the terms and conditions as described by the institution have been accepted.
- Ability for the delegator to:
 - Accept or decline your institution's specific terms and conditions every time a new proxy is created.
 - Delegate access to multiple persons.
 - View a summary list of their current proxies, their shared transactions, and their statuses.
 - Revoke or add access to a proxy he/she had previously granted access to. When doing so, the proxy's user profile is automatically auto-provisioned or de-provisioned with the Role security tied to the shared or revoked transaction.

- Ability for the proxy to:
 - Create a User ID and password or reuse an existing one to access your system and start
 accessing the delegator's data. (See the New User Registration Framework Enhancements –
 Phase 1 section for more information.)
 - Accept or decline your specific institution's terms and conditions before accessing the delegator's data.

The Delegated Access Framework uses the Campus Community: Delegate Access Submit (SCC_DA_SUBMIT) web service.

Expected Benefits: Delegated Access Framework - Phase 1

With the focus on access by parents or other relatives, expected benefits for the first phase of Delegated Access, include:

- Integration with Constituent Transaction Management framework to gather proxy's
 constituent information and seamlessly trigger Search/Match to identify or create an EMPLID
 for the proxy.
- Integration with New User Registration framework to allow the proxy to create or reuse an existing User ID and then be automatically provisioned and transferred to the Delegated Access Terms and Conditions page.
- Integration with a Notification utility to automatically trigger email messages to the delegator and to the proxy when access is shared or revoked.
- Streamlined Security:
 - The proxy's user profile is only provisioned with security Roles after accepting your institution's terms and conditions. Once accepted, further delegations get automatically provisioned.
 - Delegators can only delegate access to transactions for which they have access or have access to a "student" version.
- Configurability: set up that enables you to deploy Delegated Access based on your institutional requirements.
 - Ability to decide to add a proxy to your system by assigning an EMPID. For example, your institution may want to capture parents' personal information in Campus Solutions.
 - Ability to create and maintain the content for your own institution's terms and conditions.

Beyond Additional Features October 2012: Planned Additions to Delegated Access

The Continuous Delivery Model allows Oracle Campus Solutions to deploy new functionality in phases rather than delivering large units of new development at one time. It is important to note that Oracle does not expect customers to be able to fully deploy Delegated Access features planned for Additional Features October 2012. However, by introducing new structures that

provide a significant new range of functionality we anticipate that our customers will take the opportunity to evaluate new capabilities, review documentation, and begin their analysis for how they can leverage features, once fully delivered.

Following the initial foundation for the Delegated Access Framework targeted for October, 2012, Campus Solutions plans to release additional functionality in upcoming bundles including:

- Ability for an administrative user to view or update the delegator's delegations.
- Ability for an administrative user to view the history of all actions taken to delegate or revoke access.
- Ability to automatically revoke a proxy access when the Delegator no longer has security
 access to a delegated component.
- Ability for a proxy to view all of their delegators and the pages to which each has delegated access.
- Ability for a delegator to specify a Start Date and an End Date when delegating a transaction to a proxy.
- Ability to configure delegation expiration number of days and set delegation revocation if a
 proxy hasn't accepted the terms and conditions by a predefined time.
- Deliver a generic search record that will only return the delegators that have been granted to the proxy for access.
- Deliver a predefined list of Campus Solutions self-service components ready for a proxy to view or update.

New User Registration Framework Enhancements Phase 1

Most universities have many self-service transactions that need to be seamlessly accessible to new users or guests. These can include everything from applying for admissions to making a donation. A limited version of New User Registration (NUR) functionality was delivered in July 2010 with the Admissions Application Web Services (AAWS). That early version included web services to create and authenticate a new user and provision the user to apply for admissions. Our goal is to deliver robust and flexible new user registration applicable to a variety of online transactions and compatible with critical security identity management solutions. We plan to deliver this feature over several phases. The planned New User Registration Framework logic is intended to be deployed fully or partially in accordance with your security management. Below are two examples of how NUR can be deployed:

From your portal, for a specific online transaction, add a button or a hyperlink that will
transfer the user to a NUR Logon page. For example, where you advertise that a user can
apply to your institution online, you could display a selectable "Apply Here" button configured

to transfer the user to the NUR Logon page embedded with required information needed for NUR.

In an email message, you could add a hyperlink that is embedded with the same info
mentioned above. For example, within Delegated Access, when a parent (the proxy) receives
an email notification that informs her that her daughter delegated access to her student data, a
URL can be displayed for the parent to be transferred directly to the NUR Logon page.

In Additional Features October 2012, we plan to make the existing New User Registration solution a framework that can be used by any of your self-service transactions. Planned enhancements are:

- Deliver a NUR Sample logon page built with PeopleSoft Internet Architecture to allow either a guest to create a new user ID or a returning user to enter an existing user ID and access your system. This sample logon page allows both the new users and the returning users to be provisioned with security Role(s) specific to the online transaction they are performing. Once authenticated, they can be automatically transferred to the page of your choice (a PIA page or an external URL related to the online transaction). The NUR Sample page uses all the functionality contained inside the NUR framework. It is a delivered example of how a NUR logon page can be deployed in your environment when the user accessing the logon page is anonymous (for example from a kiosk set outside of your firewall) and when successfully authorized and authenticated, gets signed into your system.
- Deliver a NUR Tester sample page. Similar to above, but this time allows you to test your NUR configurations without fully deploying it in your production environment. The tester page does not require a kiosk to be installed.
- Provide a New User Registration Context setup component to optionally define the following information for each of the calling online transactions:
 - A set of default Role(s) to provision the new user or returning user at the time of registration and authentication.
 - A target page the new user or returning user should be transferred to after successfully authenticating to your system.
- A Context can be setup for each of the online transactions you want to integrate with NUR.
 For examples, you could have a separate context for your Online Application transaction,
 Online Donation, Delegated Access, etc.

The New User Registration Framework employs the following web services:

- Campus Community: Create User Account (SCC_USERREG_CREATEACCT)
- Campus Community: Authenticate User (SCC_USERREG_AUTHENTICATE)
- We plan to deliver minor updates to the NUR web services response messages to accommodate the new NUR Context concept.

Expected Benefits: New User Registration Framework Enhancements Phase 1

Enhancing and updating the design of New User Registration will provide important capabilities that our customers can utilize immediately.

- Seamless design makes security management easier:
 - NUR provisions a newly created user with *generic* Roles needed to access your system.
 - NUR provisions a newly created user and a returning user *specific* Roles needed to perform the calling online transaction.
 - Because of its natural integration with Constituent Transaction Management (CTM), when a new User ID is created as part of a self-service transaction, the EMPLID identified by Search/Match can be populated inside the new User Profile created.
- Flexibility: Because NUR employs CTM and because its Create User Account web service
 includes a number of constituent fields, personal information can be requested at the time of
 creating a new User ID (for example First Name, Last Name, Email Address, etc). This
 information is stored inside the CTM constituent staging tables and can be reused by the
 calling online transaction to trigger Search/Match or to display back to the user to avoid
 duplicate data entry of the same information.
- Reusability: Planned design reuses People Tools security logic (authorization and validation).
- Streamlined Navigation: NUR setup facilitates the navigation for your new or returning users.
 After logging into your system, the user can be automatically transferred to a pre-determined page or to an external URL.

Beyond Additional Features October 2012: Planned Additions to New User Registration

The Continuous Delivery Model allows Oracle Campus Solutions to deploy new functionality and enhanced architecture incrementally to our customers. Following the initial foundation for the New User Registration Framework targeted for October, 2012, Campus Solutions plans to release additional functionality in upcoming bundles including:

- A "Forgot Password" utility including password hint
- A "Forgot User ID" utility
- A "Change Password" utility
- Provide Email Address validation
- Allow a user ID to be created with an Email Address
- Provide the ability to configure a prefix to add to a user ID created.

Anticipated Documentation for Additional Features October 2012

In order to gain a thorough understanding of important new functionality extensive documentation is planned, updated, and deployed for each Additional Feature bundle. These planned references represent our commitment to keep you informed and prepared to take full advantage of the features that are available through our Continuous Delivery Model. Customers should visit My Oracle Support PeopleSoft Enterprise Campus Solutions 9.0 Documentation Home Page (Doc ID 751540.1) for access when Additional Features October 2012 is made available.

Planned Campus Solutions 9.0 Bundle #27 Functional Documentation for Additional Features October 2012:

- For Tuition Calculation Waivers and GL Reconciliation refer to: CS_Bundle_27_Student_Financials_9_0.pdf
- For Program Enrollment refer to: PEAM Program Enrollment Documentation.pdf and Program Enrollment_Activity Management Benefits Document.pdf
- For Activity Management refer to: PEAM Activity Management Documentation.pdf and Program Enrollment_Activity Management Benefits Document.pdf
- For Research Tracking refer to: Research Tracking and Thesis Management.pdf and Research Tracking Benefits Document.pdf
- For Milestones Enhancements refer to: CS_Bundle_27_Student_Records_9_0.pdf
- For Campus Solutions-Oracle Identify Management Integration refer to: CS_Bundle_27_Campus Community_9_0.pdf (See the Affiliations update in this package)
- For Oracle Identity Manager Connector refer to: Oracle Identity Manager Connector Guide for PeopleSoft Campus Release 11.1.1. (Links to be provided in My Oracle Support PeopleSoft Enterprise Campus Solutions 9.0 Documentation Home Page. Additional information also available at Oracle Identity Management on the Oracle Technology Network (OTN)
- For the Common Attribute Framework refer to: CS_Bundle_27_Campus Community_9_0.pdf
- For Delegated Access refer to: CS_Bundle_27_Campus Community_9_0.pdf
- For New User Registration refer to: CS_Bundle_27_Campus Community_9_0.pdf
- For the Sample Online Application: Sample Online Application (SOLA) refer to:
 CS_Bundle_27_Recruiting_and_Admissions_9_0.pdf
- For Update Admissions Program Action/Reason Processing: Admissions Application Program Update Action Reason Process refer to: CS_Bundle_27_Recruiting_and_Admissions_9_0.pdf

Conclusion

The introduction of the extensive functionality in Additional Features October 2012 illustrates Oracle's commitment to advancing innovative functional models for Campus Solutions to serve a world-wide customer base. We can do this by employing a Continuous Delivery Model which provides the ability to take advantage of new and important technology and innovative design on an ongoing and sustained basis. The Campus Solutions 9.0 Additional Features October 2012 is intended to meet customer needs, extend value, and provide leadership for our global higher education community. We encourage all business areas to evaluate the content of this Additional Features bundle for applicability to their business processes.



Campus Solutions 9.0 Additional Features October 2012 Pre-release Notes October 2012

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Hardware and Software, Engineered to Work Together