

# Campus Solutions: Blueprint for Journey to the Cloud

---

How Campus Solutions customers can envision  
their journey to the Cloud, with recommendations  
from Oracle

March 2022 Version 1.0  
Copyright © 2022, Oracle and/or its affiliates  
Public

## Purpose statement

This document provides an overview to Oracle's investment in our student solutions, including [Campus Solutions 9.2](#), [Student Management Cloud](#) and [Student Financial Planning](#). It is intended solely to help you consider the options for leveraging these Oracle solutions to meet your strategic business goals. We provide guidance for customers considering their journey to the Oracle Cloud, including the near-term business benefits of deploying new features and capabilities in Campus Solutions, including integration to the cloud-native Student Financial Planning. This document also provides recommendations for actions institutions can take now to prepare for implementation of the new Cloud SaaS solutions described.

## Disclaimer

This document in any form, software or printed matter, contains proprietary information that is the exclusive property of Oracle. Your access to and use of this confidential material is subject to the terms and conditions of your Oracle software license and service agreement, which has been executed and with which you agree to comply. This document and information contained herein may not be disclosed, copied, reproduced or distributed to anyone outside Oracle without prior written consent of Oracle. This document is not part of your license agreement, nor can it be incorporated into any contractual agreement with Oracle or its subsidiaries or affiliates.

This document is for informational purposes only and is intended solely to assist you in planning for the implementation and upgrade of the product features described. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described in this document remains at the sole discretion of Oracle. 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.

## Table of contents

---

<b>Purpose statement</b>	<b>2</b>
<b>Disclaimer</b>	<b>2</b>
<b>Oracle's investment in higher education</b>	<b>4</b>
<b>Investment in Student solutions</b>	<b>5</b>
<b>Journey to the cloud for Oracle customers</b>	<b>9</b>
<b>What you can do NOW to prepare for the journey</b>	<b>10</b>
<b>Recommendations for timing of adoption of Student Cloud</b>	<b>14</b>
<b>Technical support for migration from Campus Solutions to Student Cloud</b>	<b>15</b>
<b>Summary</b>	<b>15</b>

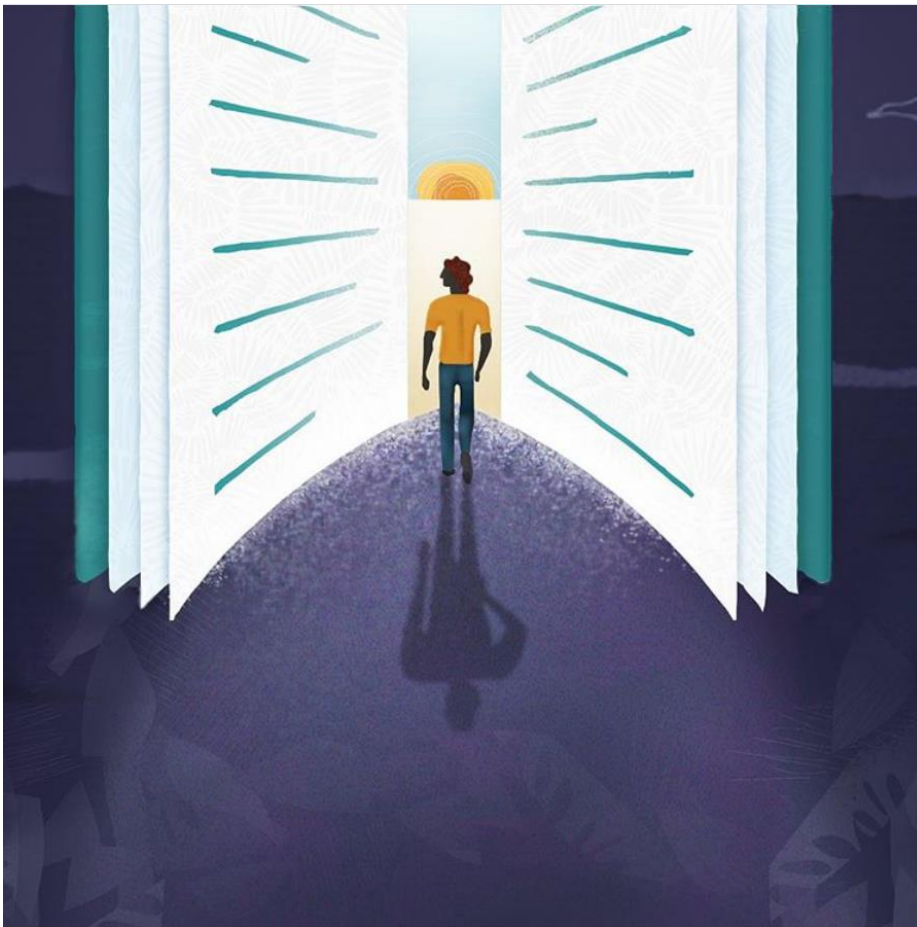


Image Caption 1. Oracle is proud of our long-term investment in higher education

“Higher education is a strategic industry, critical to the advancement of our economy. And, as disruption sparks innovation across every other industry, colleges and universities are also grappling with the profound changes to the delivery of teaching, learning, and research. In an effort to support its long-term success, Oracle is investing in the higher education industry.”

[https://www.youtube.com/watch?v=d\\_12YtompOw](https://www.youtube.com/watch?v=d_12YtompOw)

**Safra Katz**  
CEO  
Oracle

## Oracle’s investment in higher education

### Oracle commitment to the higher education sector

Oracle is committed to ensuring that our higher education customers are able to use our solutions to empower them to navigate disruption in the higher education industry successfully, both today and into the future. Colleges and universities worldwide face unprecedented challenges, including accelerating resource constraints, higher costs of doing business, new business models, and for many, a decrease in student and faculty acquisition and retention. We see many opportunities where our application and technology strategies can help institutions transcend some of the challenges they are currently facing, or will likely face, in years to come.

The focus of this document is on Oracle’s solutions for managing the higher education student lifecycle, with the goal of providing information and guidance on the best option that may fit your institution’s student information system (SIS) needs, today and tomorrow.

Our commitment is evident from the delivery of best in class enterprise applications, with Campus Solutions playing a key role in our support of the industry; Oracle also provides options for ERP/Financials and Human Capital Management (HCM) solutions from PeopleSoft, EBusiness Suite and Oracle Cloud. These solutions have been configured to apply best practices to unique HE institutional needs. The investment extends to our new cloud-native SIS solution that is designed to be more flexible, automated, and focused on student outcomes than any solution currently available. In keeping with our thirty-year history of close customer engagement and partnership, Oracle development teams are engaged in strategic and feature-specific conversations with higher education customers and

system implementation partners through our support and enhancement processes. We also directly collaborate with stakeholders through numerous customer advisory groups, industry groups, and standards organizations.

## Investment in Student solutions

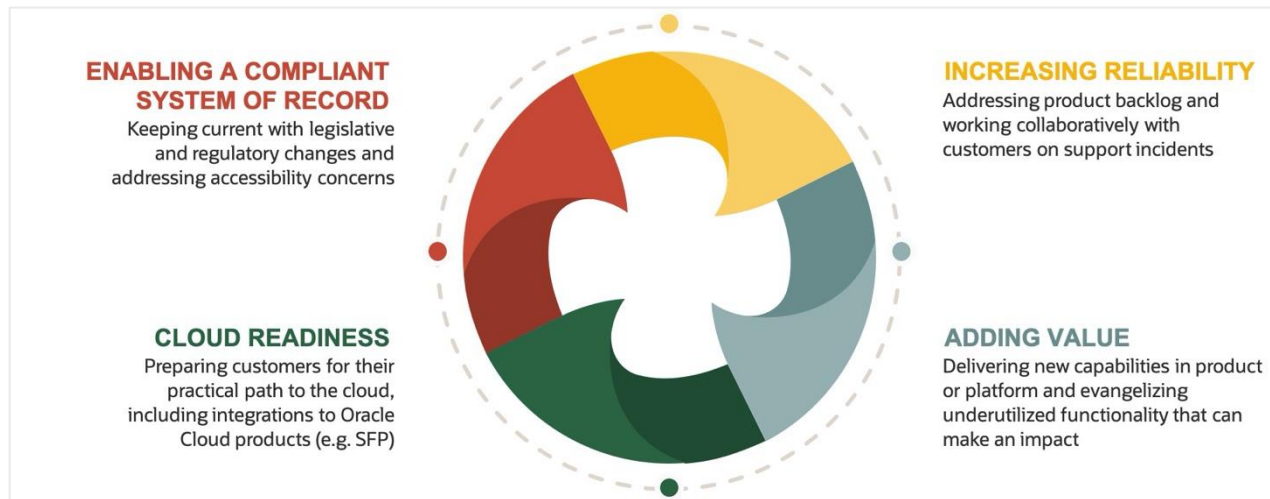


Image Caption 2 Delivering value to Campus Solutions customers

## Investment in Campus Solutions

Oracle is committed to ensuring the continued success of the customers deploying our on-premises solution, while also fostering and developing a streamlined path for those customers to move to our Student Cloud products on their own timeline. Our investment strategy includes the following elements:

- Extending our Oracle Applications Unlimited commitment to support Campus Solutions minimally through 2032 (see [this document](#))
- Maintaining a consistent focus on enabling our customers' compliance with major regulatory and legislative updates
- Strategic investments in Campus Solutions, focused on PeopleTools adoption, high-value customer priorities and industry drivers, including planned support for new ways of tracking students' academic progress, such as the Comprehensive Learner Record, micro-credentials and competency frameworks
  - In the near term, a particular focus area has been modernizing the user interaction and engagement model in Campus Solutions. We leveraged the PaaS application, Oracle Digital Assistant, to deliver a purpose-built digital assistant proof of concept for our Campus Solutions customers. Additionally, to provide data insights for administrative users, we plan to deliver a proof of concept for Kibana analytic dashboards, leveraging the PeopleSoft support for the Kibana platform. This platform enables sophisticated handling of large volumes of data to provide insight for any business area. The Oracle Student Product Statement of Investment ([Document ID 2775751.1](#) in My Oracle Support) lays out more details on product plans.
- Delivering integration to the cloud-native Student Financial Planning application, enabling Campus Solutions institutions to leverage new US-based Financial Aid functionality and capabilities
- Enabling Campus Solutions customers to reduce their hardware footprint by a lift and shift of their applications for hosting on Oracle's private or public cloud (IaaS), leveraging PeopleSoft's Cloud Manager infrastructure to facilitate and simplify the lift and shift
- Enabling Campus Solutions customers to move the on-going maintenance and hosting tasks of their applications, in full or in part, moving resources off-premises to Oracle or an Oracle implementation partner, leveraging PeopleSoft's Cloud Manager infrastructure.

## Campus Solutions Roadmap

Through the release of 24 PUM images over the last 6 years, Campus Solutions 9.2 has delivered hundreds of features and enhancements, most of which came directly from customer input and requests. The drivers for our investment strategy can be captured with three themes: student first, extensible technology, and a practical path to the cloud.

### Student first

Our customers are very clear that the investments they make on campus must keep the focus directly on students as they progress through the lifecycle, from being applicants to alumni. Projects, large and small, are evaluated against the criterion of how it will contribute to the overall success of students at the institution. Beginning with the Fluid User Experience, we provided significant new capabilities in Campus Solutions 9.2 by leveraging simpler self-service transactions optimized for mobile devices with modern, streamlined and easy-to-use functionality. As of PUM 25, Campus Solutions will offer a complete end-to-end fluid student self-service experience, with the remaining student fluid self-service UIs planned to be delivered in 2022. Additionally, institutions can extend the application and build their own Fluid UIs, utilizing the same developer tools that we use to deliver the Fluid experience.

### Extensible technology

Starting with the frameworks we delivered in CS 9.0 (common attribute framework, rules engine, prospect data load, population selection/update, etc.), we have embraced the capabilities of the Enterprise Components as well as general PeopleTools updates. In recent years, we have focused on three major themes 1) offer a delivered end-to-end Fluid student self-service experience; 2) enable innovation with easy to use configurable frameworks; 3) provide tools to enable customers to extend and customize *with configuration*. Some of the [configuration and personalization tools](#) that have proved highly valuable to our customers include Activity Guides, Notification Framework, ElasticSearch, Page and Field Configurator, the Data Privacy Framework, and the Application Data Masking Framework. The HEUG's [e-Academy Webinars](#) are a great source of information for how customers have used these and other tools and features.

### Enabling a practical path to the cloud

Many customers are considering the benefits of deploying cloud-based applications for core administrative functions on campus; recent experiences with the COVID-19 pandemic show clearly that cloud-based applications can provide greater access and scale for business continuity. Even prior to this drastic event, however, institutions have experienced the benefits of consumer-type cloud apps, such as email, and are expecting the same sort of performance, ease of use, and reduced IT investment with enterprise applications.

Currently many schools are choosing to first adopt other components of a new administrative foundation, such as Financials, Customer Experience (CX), or Human Capital Management (HCM), while closely watching the progress and evolution of the SIS providers, with the plan to uptake a new cloud-based SIS as the solutions mature. An increasingly popular selection is Oracle's Student Financial Planning, with delivered integration to Campus Solutions. This cloud-native application enables an institution to dramatically increase the automation of the Financial Aid process, freeing up resources for more focus on students' financial needs and success of the Enrollment Management office. Current industry behavior reveals that few institutions have the desire to do a "big bang" replacement of the entire administrative ecosystem; the ability to create their own implementation schedule, with modules that meet their strategic priorities for transforming business areas, is key. See the Section on 'What you can do now to prepare for the journey' later in this document for more information on cloud options.

The Campus Solutions roadmap is updated and published annually. Input to the roadmap includes regulatory requirements, enablement of Tools features for Campus Solutions users and high priority customer requests.

# Oracle PeopleSoft Applications Suite

## Roadmap: Campus Solutions

Prior 12 months (PI 21– PI 24)	Future
<p><b>Global Regulatory Updates</b></p> <ul style="list-style-type: none"> <li>AUS – HEIMS (TCSI), TAC</li> <li>NLD – CAMBO, VVA changes, ROD updates, RIO V3 (STAP)</li> <li>UK – UCAS, HESA, DFE Teacher trng, SLC, PBI</li> <li>US – 1098-T updates</li> <li>US – Fin Aid Year 2022 –2023 (ISIR, PROFILE, R2T4, FISAP reporting, NSLDS, College Financing Plan page, INAS technical update, DL and PELL COD updates (PI25); FA Profile Sequencing corrections)</li> </ul> <p><b>Cross Product Business Continuity</b></p> <ul style="list-style-type: none"> <li>Tools Navigation enhancements, including Global Search, breadcrumbs for Fluid navigation, alphabetized menus, update insensitive terminology</li> <li>Integration to Student Financial Planning (ongoing)</li> <li>Use of Drop Zones in Person Profile pages</li> </ul> <p><b>Feature Enhancements</b></p> <ul style="list-style-type: none"> <li>Program Enrollment/Activity Management enhancements</li> <li>Fluid: Direct deposit</li> <li>Fluid: Options to disable Academic Progress status or disable tuition calc on their respective tiles</li> <li>Preferred Name used for Search*</li> <li>Performance -related work for Enrollment</li> <li>Updates to the Common Attribute Framework (CAF), Delegated Access, New User Registration, Frameworks, the 3Cs, CTM, Security</li> </ul>	<p><b>Global Regulatory Updates</b></p> <ul style="list-style-type: none"> <li>AUS – TCSI Phase 2</li> <li>CAN – T2202</li> <li>NLD – BBC, Joint Degrees, STAP &amp; RIO updates</li> <li>UK – HESA, UCAS updates</li> <li>US – 1098T</li> <li>US – Fin Aid Regulatory updates (aid year specific)</li> <li>US - FA Consolidated Appropriations Act (multi -year)</li> <li>US – Oracle Federal Methodology support (Beta -pgm)</li> <li>US - Integrate with College Board INAS (cloud)</li> </ul> <p><b>Accessibility</b></p> <ul style="list-style-type: none"> <li>WCAG 2.1 Accessibility enhancements (ongoing)</li> </ul> <p><b>Integrations with Cloud</b></p> <ul style="list-style-type: none"> <li>Student Financial Planning (ongoing)</li> <li>ERP Cloud – analysis ongoing</li> <li>HCM Cloud – analysis ongoing</li> <li>Student Management Cloud –analysis ongoing</li> </ul> <p><b>Cross Product Business Continuity</b></p> <ul style="list-style-type: none"> <li>Drop Zones (ongoing)</li> <li>Common Attribute framework (ongoing)</li> <li>Classic Plus</li> </ul> <p><b>Feature Enhancements</b></p> <ul style="list-style-type: none"> <li>Usability updates: <ul style="list-style-type: none"> <li>Financial Aid (in coordination with work on the Consolidated Appropriations Act)</li> <li>Graduation process enhancements*</li> <li>COVID management</li> <li>Preferred Pronoun used on Rosters*</li> </ul> </li> <li>ElasticSearch Real-time indexing (class search, browse catalog)</li> <li>Global Address formatting</li> <li>Program Enrollment, Activity Management (ongoing)</li> <li>Additional Population Selection/Update options*</li> <li>Admissions Revocation quality initiative</li> <li>Kibana analytics dashboard</li> <li>Enrollment Digital Assistant (with license of ODA)</li> <li>Customer prioritized quality initiatives</li> </ul>

\* Idea Labs source

<sup>1</sup> The above is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

02/01/22 Restricted to event use by development executives only. Copyright © 2022 Oracle and/or its affiliates. All rights reserved.



Image Caption 3. Campus Solutions Roadmap

### Investment in Student Cloud

Oracle is delivering a cloud-native Student Information System, Student Cloud, that is designed from the ground up to support the lifelong learner on one platform, from pre-collegiate programs, continuing education supporting workforce development and personal enrichment, as well as traditional undergraduate, graduate, and professional programs. A key piece of the Student Cloud is the solution for US financial aid – Student Financial Planning (SFP). Student Financial Planning provides a highly automated, intelligent and personalized solution for managing any type of financial aid support; we’ve integrated this solution with Campus Solutions so customers can take advantage of this solution now. The design imperative for Student Cloud is “Make the Complex Simple” recognizing that a cloud solution needs to provide institutions with extensive configuration capabilities to replace the legacy methodology of customizing the code-line and UI of on-premises solutions to meet an institution’s needs. Oracle positions Student Cloud as our SIS offering designed for the future of higher education, and is building it to be more flexible, insightful, scalable, and focused on student outcomes than any SIS previously available.

### Student Cloud Roadmap

The IT leadership at many institutions rightfully puts the best technology platform at the forefront of their decision-making when evaluating deployment models for new applications. However, the critical decision about embracing a new SIS must be supported by the functional benefits for the business. A new SIS should not only provide the capabilities to run an institution, it should also provide the means to manage your business YOUR way, without the perils of extensive customization common with prior technology platforms. Therefore, you need to look beyond the checkboxes of feature/function and examine the architectural design of a new SIS. What configuration tools will you have to define business process flows that allow you to differentiate? How extensible is the data model? What options do you have to move data in and out of the SIS efficiently? What configuration choices will you have when defining the academic structure; can the new SIS manage all the business models your institution supports now (and perhaps in the future)? How easy is it to change business models and re-align your organizational structures? Will you be able to use terminology and business flows that are familiar to your constituents?

The Student Cloud product suite includes two main products—Student Management and Student Financial Planning—that support both traditional and continuing education programming. These two modules provide full student lifecycle support when deployed along with the Oracle CX (CRM) cloud solutions.

- Student Management (for traditional and continuing education/non-credit models)
  - Core Person and Organizations
  - Admissions
  - Class Enrollment
  - Academic Records
  - Student Account/Student Financials
  - Advising and Degree Audit
- Student Financial Planning (for US financial aid)
- Customer Experience (CX) (Oracle Sales and Service Cloud and Oracle Marketing Cloud):
  - Student recruitment
  - Student engagement
  - Student support
  - Advancement

We believe Student Cloud, built on the knowledge and insight gained from over 800 customers using Campus Solutions for the past several decades, will provide the level of automation, flexibility and personalized engagement to meet your institution's needs now and for the future. Our customers have told us that the complexity created by the extensive customizations most schools built - enabled by the current platform - has made the current SIS difficult to extend or to change and therefore impossible to adapt for today's needs. The industry needs a solution that will reduce the complexity of setting up and maintaining a SIS that reflects your business needs, regulatory environment and culture. You need the power to make the system your own through configuration, not customization. You need the power to *change* that configuration, as your business needs change. You need the power to share ownership of codifying the institutional policy with the functional experts, supporting them with tools that are designed for users across the spectrum of technical acumen. This is what we mean when we say that Student Cloud can move the needle in making the Complex, Simple.



# Oracle Fusion Cloud Applications Suite

## Roadmap: Student Cloud

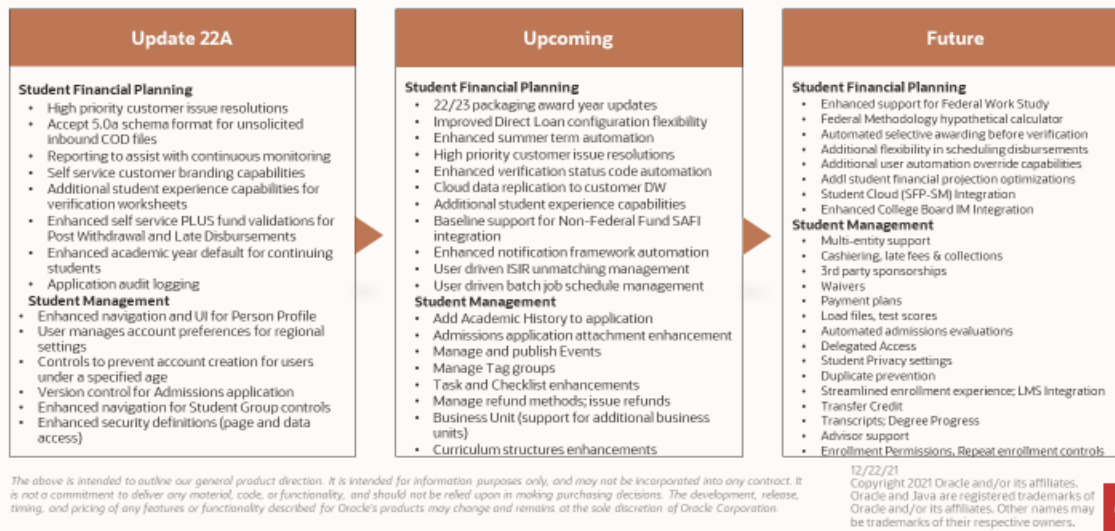


Image Caption 4. Student Cloud Roadmap

## Journey to the cloud for Oracle customers

### Options for the Journey

Your institution may be grappling with the need to modernize your infrastructure as well as your applications, and frequently, institutions look at moving to a new technology platform holistically (“We’re moving *everything* to the cloud”). However, while an “all or nothing” approach is right for some institutions, others find that taking a hybrid approach to cloud services suits them better. A hybrid approach – perhaps moving on-premises applications to hosting in the cloud or adopting one or more strategic SaaS applications - allows institutions to define their own path and time-line for adopting aspects of the cloud. Institutions have the opportunity, then, to develop new skills and processes that will be necessary for cloud services implementation and ongoing support in a more deliberate manner. Regardless of how you define your journey to the cloud, the long-term technology direction for our industry seems clear and Oracle is well positioned to support higher education customers on their journey to the cloud. This paper will focus on options for cloud adoption that involve the student-facing solutions. First, we’ll highlight key differences between on-premises applications and cloud-native applications.

### Comparison of cloud-native and on-premises applications: implications for the institution

Software as a Service (SaaS) applications push the delivery of innovation and maintenance to the vendor (Oracle) and enable institutions to always be on the most up-to-date code-line. Conversely, with on-premises applications, such as PeopleSoft Campus Solutions, it is up to the institution to implement new capabilities that are released, whether in quarterly updates or in “big bang” upgrades. Our customers have told us that an all-too-common scenario is the inability to deploy new capabilities delivered by the vendor due to a lack of resources to evaluate what’s new and then to find an opportunity to deploy that new functionality (and possibly untangle a related customization!) While adopting a cloud application can’t solve resource issues, the Oracle quarterly cloud update schedule enables customers to offer an application to their end-users that is continuously being enhanced. The responsibility of the customer is then to evaluate, test and oversee the deployment of the new capabilities for their community. In this Paper, we’ll talk about the likely impact of this new deployment model on how an institution leverages its resources.

The table below highlights some of the key differences between an on-premises application (e.g., PeopleSoft Campus Solutions) and a cloud-native SaaS application (e.g., Oracle Student Cloud).

ORACLE CAMPUS SOLUTIONS	ORACLE STUDENT CLOUD
On-premises SIS offering	SaaS SIS offering
Built on Oracle's PeopleSoft App/Tech stack	Built on Oracle's Fusion App/Tech stack
Option to host on Oracle infrastructure	Natively built and hosted on Oracle infrastructure
Direct customer access to code-line	No direct customer access to code-line (Enables PaaS applications – such as Visual Builder Cloud Service (VBCS) – and natively built configuration-based frameworks for extension and differentiation)
Direct customer access to database tables	No direct customer access to database tables (Enables PaaS applications – such as VBCS, Oracle Transactional Business Intelligence (OTBI) and Oracle Analytics Cloud (OAC) – for data model extensions and analytic/reporting capabilities)
Direct customer access to integration broker	No direct customer access to integration broker (Enables integration middleware PaaS applications – such as Oracle Integration Cloud (OIC) – and natively built API endpoints for building custom integrations, orchestrations and transformations)
Customer needs to implement available capabilities	Capabilities/new innovation are automatically delivered with some controls over customer-managed deployment
Customer adopts new delivered code-lines at their pace	Customers are always on the most up-to-date code-line

Image Caption 5. Comparison of on-premises vs cloud applications

## What you can do NOW to prepare for the journey

The journey to the cloud does not begin with new software! Using cloud-based software requires a change in how your constituents work with a new system. Many institutions will find that without proper change management and training, administrators will often revert to how they resourced, managed, and maintained their previous on-premises software applications. Without a deliberate change of mind-set and proper planning, many of the benefits that SaaS applications offer may not be realized. Recognizing the key tenet that all cloud software is on a single code-line which all customers deploy, a clear reality is that your institution won't have its own custom version of that code-line. You will be able to take advantage of extensive configuration and some extensibility of the software, but you will use the delivered "best practice" capabilities.

This leads us to one of the first activities that we recommend for institutions looking at a cloud-based SIS: evaluate all your current business processes with the goal of increasing simplicity and reducing customizations. A strong ROI focus of the need for each and every customization is a positive way to approach this analysis: does this customization result in improved experience or business outcome for your constituents? Are there other ways you could achieve the same outcome in a more standard way? The higher education industry is known for its collaboration and support of standards that will ease the burden of connecting the ecosystem; contribute your institution's perspective to improve the experience for all.

We've suggested some opportunities to build cloud 'muscle'; no sequential order is implied. Each institution's journey may take different forms but the desired end result is the same: expertise in managing a cloud ecosystem.

## Options to build cloud expertise

1. Host on-premises applications on Oracle Cloud Infrastructure (OCI) to reduce cost and IT resource burden
2. Invest in streamlining/improving current application usage, removing customizations by leveraging delivered features
3. Conduct a thorough Business Process Review – define the “what should be”, not the “current state”
4. Utilize Platform as a Service (PaaS) technology to extend on-premises solutions
5. Adopt Student Financial Planning, to improve Enrollment Management results
6. Retrain/retool resources for Cloud management; cultivate Cloud thinking and mindset
7. Adopt Cloud horizontal applications that meet current business needs

### Point #1 Move to Oracle Cloud Infrastructure with support of PS Cloud Manager

One option for the cloud journey that institutions are embracing is to move some or all of their application footprint to Oracle Cloud Infrastructure. This has the advantages of using a cloud infrastructure (reduced hardware costs, reduced IT maintenance required, etc.) while allowing the institution to maintain their current Campus Solution implementation. More advantages of deploying some or all of your applications in Oracle’s Cloud Infrastructure (OCI) are highlighted [here](#).

The PeopleSoft team fully supports this capability through the power of the PeopleSoft Cloud Manager; this solution greatly simplifies the time and energy your IT team expends on managing the PeopleSoft applications. By using OCI with PeopleSoft Cloud Manager, rather than a third-party hosting platform, you gain the power of the native PeopleSoft Cloud Manager for tasks such as lift-and-shift services, auto-scaling/auto-provisioning, and 1-click update image installation. For more information, see this link:

[https://docs.oracle.com/cd/E52319\\_01/infoportal/cloudmgr.html#tab3](https://docs.oracle.com/cd/E52319_01/infoportal/cloudmgr.html#tab3).

### Point #2 Adopt new PeopleTools and Campus Solutions functionality

We’re at the beginning of the adoption phase for cloud-based solutions in higher education, including a cloud-based SaaS SIS. Most higher education institutions are risk-averse; they are not interested in being on the leading/bleeding edge of adopting solutions that can’t show a set of peer institutions with successful implementations. In the interim, as that adoption curve follows the maturity of the cloud-based Student Solutions, Oracle encourages our customers to leverage what Campus Solutions and PeopleSoft have to offer. Most institutions, for a variety of reasons, have not been able to take full advantage of the significant enhancements in lifecycle management tools as well as features and functionality that have been delivered by both the Campus Solutions team and the PeopleTools team. This is the right time to investigate what is available that may be of high value for your institution, see what other institutions are leveraging and begin the journey of streamlining your business processes (and maintenance application) through delivered capabilities. Additionally, consider utilizing PaaS applications and PeopleTools enabled external technologies, such as Oracle Visual Builder Cloud Service (VBCS), Oracle Digital Assistant (ODA), Oracle Integration Cloud (OIC), Kibana Analytics, and ElasticSearch to innovate, extend, and differentiate. Utilizing these technologies to replace your PeopleSoft customizations, where differentiation is still required, will enable you to continue to offer innovation to your end users while developing expertise in the same PaaS applications and technologies that you will need to utilize for extension and innovation for Student Cloud. Customers can keep current by reviewing updates on [www.peoplesoftinfo.com](http://www.peoplesoftinfo.com) and by staying involved with User Groups, like HEUG, Quest and the Oracle communities.

### Point #3 Define business process desired state

To clearly understand what capabilities your institution needs from a new SIS, you need to have a deep understanding of your business, considering the goals and objectives of each business area. The focus needs to be on the future, ideal state, not simply recreating what you do today. The hard work that needs to happen before any consideration of a software solution is defining the business outcomes you need to achieve; evaluating HOW you get to those outcomes is a later step. What is the optimum flow for a business process? What are the most efficient ways to

accomplish the business objective? Where can automation be applied to the greatest impact, and what is the resulting impact on staff's workload/activities? How can you create the most seamless, touchless experience for your constituents, especially for your applicants, students and faculty? Here again is an opportunity to work with your peers to share ideas that are working well and could be adopted as a "best practice" at your institution.

It may be helpful to have an outsider's viewpoint and guidance as you define the desired state of each business area; a neutral party is likely to apply more objectivity about the relative merit of a particular way to handle a business flow. Part of this effort, of course, is understanding why you created existing customizations in the first place and determining if the function is still valuable. Later, you'll evaluate possible strategies for needed functionality by mapping to how you can deploy the software capabilities.

Oracle Consulting and other higher education partners can help. The higher education partner ecosystem is acutely aware that the decades of customizations built in on-premises SIS solutions has resulted in the inability for institutions to change, to introduce new programs and business models and to innovate to meet the institution's mission. The heavily customized SIS makes it very difficult to do much more than "keep the lights on and the trains running" and in today's environment, this is an unacceptable relationship between the institution and their SIS!

Oracle Consulting and other Oracle higher education-focused partners offer programs to support customers getting the most out of their investments in Oracle on-premises solutions, as well as conducting business process reviews. These include:

- Get current – designed for institutions who need to apply recent updates from PeopleSoft or EBusiness applications
- Optimize and expand – designed to identify and enable quick wins by optimizing current application usage and reducing technology complexity (this offering includes analysis of customizations (CEMLIs) with an effort to leverage existing functionality to replace part or all of the customization)
- Cloud roadmap – designed to help customers build their own unique roadmap to support their journey to the cloud

#### **Point #4 Utilize Platform as a Service technology to extend solutions**

PaaS, or platform as a service, is a set of cloud services to build and manage and extend modern applications in the digital era—on-premises or in the cloud. PaaS delivers the infrastructure and middleware components in the cloud to enable developers, IT administrators, and end users to build, integrate, migrate, deploy, secure, and manage mobile and web applications. To aid productivity, PaaS offers ready-to-use programming components that allow developers to build new capabilities into their applications, including innovative technologies such as artificial intelligence (AI), chatbots, blockchain, and Internet of Things (IoT). This also includes suites of application development tools, including cloud native services, Kubernetes, Docker and container engines, and more.

As noted earlier, an advantage of deploying [PaaS](#) technologies to support differentiation with your current applications is your team builds expertise with technologies that are used to extend the Oracle cloud-native applications.

#### **Point #5 Hybrid ecosystem: Campus Solutions plus Student Financial Planning**

In addition to the opportunity to reduce hardware expense and reduce IT maintenance burden by moving to Oracle Cloud Infrastructure, there are multiple solutions in Oracle's application inventory that support the higher education industry. Many customers are realizing the value of enhancing their abilities to automate and modernize their US Financial Aid capabilities by adopting Student Financial Planning (SFP), with delivered integration to Campus Solutions. This first step to a cloud SIS represents an advancement in one of the most critical areas for student support: ensuring timely, accurate Financial Aid management. This is an attractive first step to the cloud because customers can implement a single module, rather than replace an entire system. The functionality enabled by SFP is the real driver behind institutions' adoption; the ability to analyze each individual's FA history and predicted situation

creates a powerful, personalized system. Institutions are benefitting from SFP's focus on a touchless student and parent experience on the front end and extreme automation for the Financial Aid office.

**Point #6 Shift your mindset from customization to configuration and extension**

The ability to consume innovation on a regular or continuous basis is a key characteristic of cloud-ready institutions. This is a function of the institution having a strong handle on its business processes including which are commodity, adhering strictly to industry best practice, and which are differentiating, requiring extensions or deep configuration. Additionally, these types of institutions have typically built permanent functions with a formal organizational structure to lead and manage the innovation uptake including managing the releases, providing training, monitoring end-user uptake, and evaluation ROI.

As institutions start to prepare for their cloud journey and shift from on-premises applications to SaaS applications, part of that preparation will need to be a resetting and retraining of resources responsible for ensuring institution policies and/or strategic institution differentiations can be realized in the application. Potentially the most disruptive change will be that development and technical resources will need to shift from a mindset of code-line customizations, to a mindset of configuration and extension. We recommend you prepare for a move to the cloud by training your development and technical resources on the best-practices, methodologies, and technologies/languages for extending SaaS applications with PaaS development and integration tools, such as Oracle Visual Builder Cloud Service (VBCS) and Oracle Integration Cloud (OIC). Furthermore, as SaaS applications emphasize configuration capabilities for differentiation and automation - such as rules engines and workflow orchestration capabilities - institutions will need to re-think resources allocated to maintaining configuration in the application so you align subject matter experts with more technical experts. Development resources may not be developing code but they will be working with highly technical configurations, leveraging syntax. Re-training and shifting your resources from an on-premises application support model to a SaaS support model will enable you to leverage more of the power that SaaS applications have to offer.

In addition to shifting and re-training resources, we recommend that institutions start their quarterly maintenance approach planning early, with an emphasis on supporting a SaaS continuous delivery model. Most SaaS applications, including Student Cloud, have scheduled releases where customers receive the release update in their test environments for a period of time (often 2 weeks) before the release is applied to the customers' production environment. While the benefit of this continuous delivery model is that customers are always on the most up-to-date code-line and have the newest capabilities, the tradeoff is that customers need to put a larger emphasis on absorbing updates and regression testing on a more regular basis. To limit impact on your institution while reaping the benefits of SaaS applications, you should consider incorporating a comprehensive maintenance management plan early on in your path to the cloud planning.

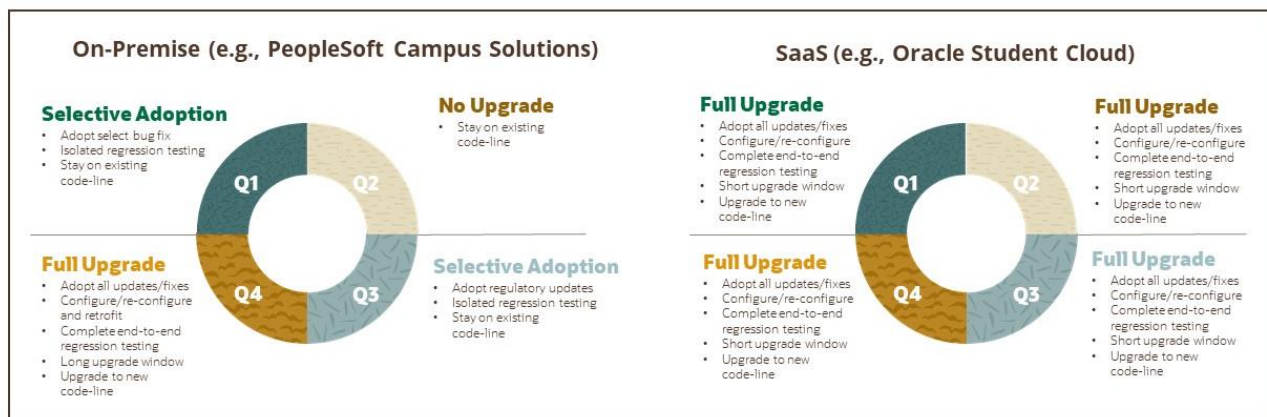


Image Caption 6. Preparing for a SaaS continuous delivery model – Hypothetical example

## Point #7 Hybrid ecosystem: Campus Solutions with horizontal modules

Oracle's Higher Education cloud comprises Oracle's horizontal solutions – that is, Human Capital Management (HCM), Enterprise Resource Planning/Financials (ERP), Enterprise Performance Management (EPM) and Customer Experience (CX). These are mature solutions with hundreds of higher education customers around the world. Customers can deploy these cloud solutions to meet their strategic priorities, while maintaining Campus Solutions for their SIS. Regardless of how you define your journey to the cloud, you can start now and take a hybrid approach, allowing you to move at your own pace while developing new skills and processes that will be necessary for successful adoption of a new SaaS SIS.

## Recommendations for timing of adoption of Student Cloud

Student Cloud comprises two core modules: Student Management (covering Admissions, Academics, Advising and Student Accounts) and Student Financial Planning (US Financial Aid). These two modules are at different levels of maturity; hence, Oracle's recommendation differs for when an institution should deploy these solutions. Simply put, the Student Financial Planning module is a mature solution, ready for deployment in all types of US institutions. While support for Institutional Methodology is on the roadmap, all the other core Financial Aid business flows are fully supported, with high degrees of automation. Student Financial Planning provides our current Campus Solutions schools in the US with a modern, flexible, automated and personalized solution, fully integrated with Campus Solutions. Clearly, this is a great example of *one* option for following the “practical path to the cloud”: Campus Solutions natively integrated with Student Financial Planning.

The Student Management module is being built and delivered following an agile development methodology. As part of the Oracle Fusion family of cloud applications, we follow the continuous innovation quarterly release cycle. Informed by the priorities of our current customers, our initial delivery milestone for Student Management provided support for core non-credit or Continuing Education business models. The foundational architecture and data model is built to support any type of learning activity, from one hour CPR refresher classes, to company-sponsored training events, to online MBA programs, to traditional for-credit undergraduate and graduate student programs. The next major milestone in our delivery approach is planned for the end of 2023; at that milestone we expect to deliver business process support for the undergraduate student lifecycle (admissions through graduation). Once that core set of business processes are delivered, Oracle plans to layer in automation (deploying the frameworks including the rules engine and workflow orchestrator) as well as enhanced ability for customers to extend the solution and integrate Student Cloud within their ecosystem. Functionality to support the range of academic program types (e.g., professional schools, graduate/research-oriented programs) as well as to support the configurability needed by institutions, expands with each quarterly release.

Institutions and system implementation partners recognize that an implementation of a new, evolving solution, with software updates four times a year, necessitates a different approach to an implementation. You need to have a thorough understanding of the existing functionality at the start of the project, along with a clear view of what's planned for the next several updates. While many new features are delivered as opt-in, the implementation team will need to do the analysis of the new functionality and its potential impact on their eventual adoption. You may need to update the configuration of parts of the system, resulting in re-testing of business flows. Knowing that the stability of the product is a key factor in the success of an implementation, Oracle's recommendation is that institutions begin an implementation of the Student Management module *after* the 2023 milestone. The Strategy team provides frequent updates on current product capabilities as well as publishes a Roadmap for the product features so our customers can stay up to date on our plans. You can see the published Student Cloud roadmap [here](#).

## US market as initial focus

The initial market focus for Oracle's Student Cloud is the US. While the data model is being designed to accommodate support for higher education business practices around the world, the focus for the release at the end of 2023 is on the requirements of the US market.

## Plans for markets outside the US

Delivering the ability to support multiple currencies and languages is just the beginning of supporting a SIS for a global audience; the types of data managed as well as the different approaches to many business processes mean that the entire product needs scrutiny. The team will evaluate the data model and business process flows to determine where to extend both to support new markets. Our open architecture and frameworks provide a great foundation for ensuring Student Cloud will meet the needs of the global market.

As the data model is extended to support requirements from other markets, the Strategy team will inform our customer base and partners in each region. We plan to dedicate resources to ensuring we have a product that meets core global needs; this initiative is planned as the next major milestone after the core undergraduate business process support, noted above.

Next, Oracle will look at the market readiness for adopting a cloud-based SIS in the regional markets. This business analysis will help us determine where and when we will plan to build out key product localizations, specific to a particular market or region. Factors include Oracle datacenters for hosting SIS data, legal/regulatory acceptance of hosting SIS data, and customer demand in that region.

## Technical support for migration from Campus Solutions to Student Cloud

### Oracle Support

Oracle has defined a number of programs to support customers who are adopting cloud solutions. You can find out more about those resources [here](#) (Soar program) and [here](#) (Oracle consulting). Also, you may find educational support at Oracle University, such as this short workshop on moving [PeopleSoft to Oracle Cloud Infrastructure](#).

The Student team at Oracle is in a unique position to provide support for our customers' migration since we build and maintain both Campus Solutions and the Student Cloud. We know the data model of both solutions so will be able to work with partners and customers to deliver data migration scripts and other supporting utilities. We plan to deliver not only technical migration support but also functional migration support in terms of "translating" how business processes are different in Student Cloud. We expect [Oracle University](#) to provide training opportunities for our customers. Additionally, the Student development team intends to deliver a number of technical papers on topics that support customers' move to the cloud, starting with a soon to be released paper detailing Campus Solutions capabilities for integrating with Oracle SaaS applications, including ERP, EPM, HCM, SFP, and CX.

### Partner Support

Higher education enjoys a rich ecosystem of partners to support implementations, hosting and migrations. Oracle is working closely with our partner community to make sure they have current information on quarterly updates, as well as longer-term roadmaps. Partners are investing in helping customers continue to gain benefits from Campus Solutions and are ready to help an institution understand what it means to move applications and/or infrastructure to the cloud. Partners can be especially valuable for customers who want to truly transform their business, supported by an implementation of a new application; it is often useful to have an external party provide input to defining and executing strategic business priorities. Customers should ensure that they choose partners with extensive experience in higher education, specifically in working with Student systems. Additionally, as most institutions are just beginning to build expertise in cloud application deployment, partners should provide expertise in cloud implementations and management for the application(s) the institution has chosen. Depending on your internal resources, the partner may also provide value in supporting the change management functions.

## Summary

Oracle's recommendation for our Campus Solutions customers in the near term is to maximize your investment in Campus Solutions and PeopleTools. Oracle guarantees Premier support for PeopleSoft applications minimally through 2032, so you have time to realize an investment plan and longer-term migration plan. The PeopleSoft

products keep current with cloud technology and are leveraging PaaS technology for the benefit of our customer base; you are not falling behind. With the cadence of quarterly PUM images, you can refine your maintenance approach to a cycle of consuming innovation and updates more frequently, adjusting to a cloud maintenance model. This effort will enable you to improve the service you provide to your students and community, and build the cloud muscle to support your eventual adoption of new applications.

The objective of this Paper was to highlight *tactical* options and considerations for your review as you plan your investment in Campus Solutions and new cloud solutions. As you consider your journey to the cloud, we offer some higher level considerations that we feel will impact your success in undergoing this transformation.

### Considerations for cloud adoption projects

- Multiple paths are available – what is the best fit for your strategic mission/needs?
- Is the adoption of cloud technology appropriately supporting a larger transformational effort by your institution?
- Leadership support is imperative! Look for consistent support across all lines of business, not just one enthusiastic advocate.
- Secure funding – have you secured both short-term funding for the immediate project and long-term funding for true transformation?
- Resources required for each option – what number and type of resources are required? Are supplemental, temporary resources needed (e.g, Partners)?
- Ability to assess the ROI of each option considered – is there agreement on the anticipated business benefits and IT benefits?
- Assess and communicate the impacts on today’s campus – which current processes need to change, which ecosystem connections need to be re-established, how will employee roles and responsibilities change?
- What pre-requisites exist before the project can commence - technical or business requirements before adopting a new application or technology?
- Change Management – have you defined resource alignment and training, communication plans before, during and after the project commences, training and documentation on the new technology or application, updated maintenance methodology, and so on?

When we talk about the journey to the cloud, we recognize there are two distinct sets of considerations: the technical aspects of cloud infrastructure and the functional element of deploying a new application, with new capabilities, new user experience and new architecture. Both of these changes will create significant impact and therefore require multi-faceted planning across multiple stakeholders at the institution. Every institution’s journey will be different but we know there are common elements to any SIS implementation project (conversion of legacy data, disposition of existing customizations, creation of integrations, configuring set up and controls). We hope this paper has provided some initial, high-level guidance and recommendations that will make the path clearer for Campus Solutions customers and possibly suggest some options that you hadn’t considered. Oracle’s Student team will continue to update our customers, via webinars and conference presentations and through updates to papers like these, posted to My Oracle Support.

Oracle is committed to our Student customers and partners and is determined to meet three objectives: 1) provide the best solution to support the institution’s *current* needs as 2) we build out new solutions to ensure a successful future. Making sure our current customers have a streamlined path to deploy that new solution, when they are ready, is the third major objective!



---

## Connect with us

Call **+1.800.ORACLE1** or visit **oracle.com**. Outside North America, find your local office at: **oracle.com/contact**.

 [blogs.oracle.com](https://blogs.oracle.com)

 [facebook.com/oracle](https://facebook.com/oracle)

 [twitter.com/oracle](https://twitter.com/oracle)

---

Copyright © 2022, Oracle and/or its affiliates. All rights reserved. This document is provided for information purposes only, and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document, and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group. 0120

Disclaimer: If you are unsure whether your data sheet needs a disclaimer, read the revenue recognition policy. If you have further questions about your content and the disclaimer requirements, e-mail [REVREC\\_US@oracle.com](mailto:REVREC_US@oracle.com).