Chapter: Using New User Registration Framework

This Campus Community PeopleBook chapter provides an overview of the New User Registration framework and discusses:

- New User Registration web service operations.
- Setting up CTM for New User Registration.
- Setting up New User Registration context.
- Provisioning access through the Gatekeeper.
- Accessing New User Registration sample user interfaces.
- Deploying New User Registration.
- Developer Reference to deploy New User Registration.

Understanding New User Registration

New User Registration is a framework that enables a user to sign into the Campus Solutions system in order to complete a specific online self-service transaction. For example, on your institution's portal you may indicate the steps a future applicant should make in order to apply online. In this case the specific online self-service transaction is the online application. A link can be given to transfer the user to your Campus Solutions database where the future applicant first needs to sign in. Going through New User Registration, the user can either create a user ID and password or reuse an existing user ID to sign into your system. New User Registration assigns the newly created user profile with generic security roles needed to access your system, and once created or if the user uses an existing user ID, New User Registration provisions *just-in-time* the user profile with security role(s) specific to the online transaction for which New User Registration is integrated with. Once authenticated, New User Registration can transfer the user immediately to a predefined target page related to that specific online transaction.

In a nutshell, New User Registration offers user validation, user registration, system authentication, generic and specific (*just-in-time)* security provisioning and finally easy navigation access by transferring the newly authenticated user to a pre-defined target page specific to the online self-service transaction the user elected to perform.

For example, if you are using Admission Applications Web Services (AAWS) and deployed an online application self-service component, an online applicant will first use New User Registration to register for a user ID (or first get authenticated if the applicant already has a user ID) and then perform the online application transaction, such as submitting an application. In this case, after being successfully authenticated to your system, the system provisions the applicant's user profile with the role security specific to access your online application page and then immediately redirects the applicant to this online application page. Another example is, if you are using the Delegated Access feature, a person who has

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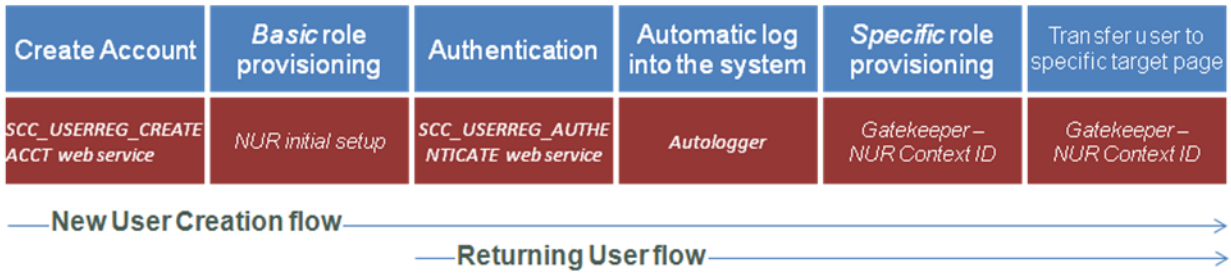
received delegated access (known as proxy) could first use New User Registration to access your system by either creating a user ID or reusing an existing one if the proxy already has a user ID. Once successfully authenticated through New User Registration, the system could provision the proxy's user profile with a security role needed to access the Delegated Access initial page (the Proxy Terms and Conditions page).

[Bundle 29. Added web service operations for retrieving User IDs and resetting passwords]

New User Registration provides web service operations that a user interface can use to create a user account (user ID) (SCC_USERREG_CREATEACCT) and authenticate a user (SCC_USERREG_AUTHENTICATE). It also provides web service operations for retrieving a user ID (SCC_USERREG_GET_USERID) and resetting a password (SCC_USERREG_GET_PASSWORD and SCC_USERREG_GET_PSWD_HINT). Also, New User Registration is a consumer of the Constituent Transaction Management (CTM) framework (delivered CTM transaction code is *NEW_USER_REGISTRATION*). This allows staging of any constituent information entered at the time of registering a new user ID (for example, when creating a user ID, you may want to ask the user to enter his or her name, email address, and so on). If the online transaction integrated with New User Registration is defined as a CTM transaction, it can reuse or display the constituent data entered at registration time in the self-service transaction pages (that is, if the CTM transaction is partitioned by constituent).

Delivered with your system are two sample login pages. Both are visually similar and they allow a user to create a new user or use an existing one to access your system. One sample page is referred as the *New User Registration login sample* page. This page is fully integrated with all the New User Registration framework security objects. It serves as an example of how your own custom login page can be integrated and deployed with New User Registration. For example, it can reside outside of your firewall and be set as a Kiosk. The second sample page can be used by your developers to test and evaluate the New User Registration framework objects. This page is referred as the *New User Registration Tester page*. It contains the same functionality included in the New User Registration login sample page, but is meant to be used inside the same database. This page is truly intended to be used for testing purposes and should not be deployed in a production environment.

The following diagram shows the *new user* and the *returning user* flows when New User Registration (NUR) framework is deployed. For each of the steps, the bottom row (red boxes) shows the setup needed to perform the step. Each of these settings is explained in this chapter.



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New User and Returning User Flows

See Also

- *PeopleSoft Campus Community Fundamentals 9.0 PeopleBook*, Working with Constituent Transaction Management, for more details on how both CTM and New User Registration function together. The latest version of the Working with Constituent Transaction Management chapter is available in the Bundle 29 Campus Community package.
- New User Registration Web Service Operations section.
- “CTM and New User Registration” in the Understanding New User Registration section.
- “Step 1: Initial Setup for New User Registration” in the Developer Reference to Deploy New User Registration section.

New User Registration Terminology

The following terms are important to the understanding of New User Registration framework and are used throughout the chapter:

Guest	New user. A person who is unknown to the Campus Solutions system and who wants to perform an online transaction. A guest needs to register for a user ID to access the system.
Returning User	A person known to the Campus Solutions system and who wants to perform an online transaction. This person will use his or her existing user ID and password to access the system.
CTM	Constituent Transaction Management. A framework that allows a user to perform an online transaction without having an EMPLID known. CTM stores the constituent and the transaction-specific data in staging records. The system assigns an EMPLID only after the user saves or submits the online transaction. Using CTM allows no interruption for a user to complete an online transaction because the process that the system uses to assign an EMPLID is completely transparent to the online user.
Online transaction or **online self-service transaction**	Refers to the transaction consuming the New User Registration framework.

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Login page	The login page to access the Campus Solutions system. This login page is integrated with the New User Registration framework security objects. Institutions customize the delivered sample login page or use their own to comply with their security management requirements.
Target page	The page to which the guest or the returning user is redirected after being authenticated through the New User Registration framework. The target page is defined in the New User Registration Context setup component.
Landing page	The page to which the guest or user is redirected before registration and authentication by the system.
Autologger	An object that the New User Registration framework delivers. This object allows signing in the guest or the returning user directly into your system after being successfully authenticated.
Gatekeeper	A utility that the New User Registration framework delivers. This utility acts as a router for all requests from *external clients* wishing to access Campus Solutions self-service pages. An external client is a user interface that is built by an institution and that lie outside the PeopleSoft system. The Gatekeeper uses the New User Registration Context ID to provision application-specific security role and transfer the user to a specific target page after authentication.
SwitchUser	A PeopleTools function used by the New User Registration Tester sample page to autolog the guest's or the returning user's entered user ID. The function switches a signed in user to another one.
Anonymous user	When the guest elects to create a new user ID, he or she is first considered an *anonymous user* by the system.

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Provisioning

New User Registration provisions security roles at two different levels:

Basic provisioning: When a guest creates a new user ID though New User Registration, basic roles are provisioned to the newly created user profile. Basic roles grant access to generic information that all users are required to have to access and navigate in your system. This provisioning is required.

Specific provisioning: When a New User Registration Context is used, the guest or the returning user is provisioned *just-in-time* after being authenticated with application level security. The security provisioning done here is specific to the application integrated with New User Registration. This provisioning is optional.

CTM and New User Registration

You can configure your login page to additionally request some personal information such as first name, last name, email address and so on when a user creates a new user ID. Because this information requires an EMPLID to exist in order to be stored into the respective production tables and at the time of registering the user does not have an EMPLID, New User Registration consumes the CTM framework to store the personal information entered. This information is stored in the CTM constituent staging tables. At that time, the system enters the information under a Temporary ID (SCC_TEMP_ID instead of EMPLID) and the CTM transaction code used (delivered with your system) is called NEW_USER_REGISTRATION. If New User Registration is followed by a subsequent CTM online transaction (and that CTM transaction is set up to be partitioned by constituent), the system can gather additional personal information and create or assign an EMPLID and promote the staged constituent data to the respective production tables.

The following diagrams show where CTM takes place as part of the New User Registration flow when a guest accesses your system from a New User Registration login page. Notice that CTM is not involved when a retuning user signs into your system through New User Registration. This is because at the time of authenticating, the returning user, by standards, is usually only asked to enter a user ID and a password.

[Bundle 29. New user interfaces for logging in and creating an account.]

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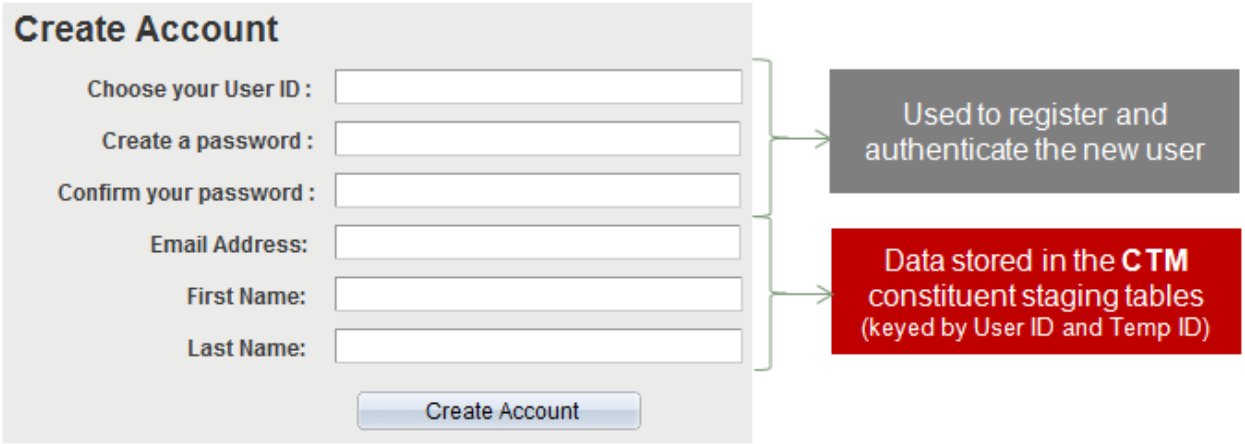

When user creates a new user ID

When user reuses an existing user ID to sign in

Note: When New User Registration consumes CTM, the system does not trigger the process to create EMPLIDs. This is to prevent non-serious individuals to create user records for themselves in your system and pollute your database with dummy names or with users that will never pursue any other actions with your institution. To prevent this, CTM triggers Search/Match only when the guest performs a subsequent online transaction such as *Online Application*. Only then the constituent data entered can be considered valid.

Note: The self-service online transaction integrated with New User Registration does not need to be a CTM transaction. A self-service online transaction is usually configured for CTM when the data entered by the self-service user needs to be staged prior to be promoted to the production tables or when an EMPLID needs to be identified with the self-service user. Using CTM allows for no user interruption to assign an EMPLID. If the integrated self-service online transaction does not require an EMPLID to be assigned or no data to be staged, it can still be integrated with New User Registration. Refer to the Working with Constituent Transaction Management PeopleBook chapter.

See Setting Up CTM for New User Registration.

Notifications Framework and New User Registration

The New User Registration framework uses the Notifications Framework as part of the Forgot User ID utility. New User Registration triggers the Notifications Framework from the New User Registration sample login page or New User Registration Tester page. When a user clicks the Forgot your User ID link and enters his or her email address, the system validates the email address and the user ID is retrieved. The Notifications Framework sends an email that contains the user's ID.

An email template for sending an email message that contains the user's ID is delivered with your system. It uses a *custom logic* to retrieve the user's email address. This logic is delivered with your system and

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uses the email address stored inside the user's user profile (this email address must match the email address entered by the user at the time of requesting the user ID to be sent). The custom logic is contained in the application class called SCC_IDENTITY_MGR:NOTIFICATION:NURCustomLogicprovider.

Reviewing the Delivered Notification Template for New User Registration

Delivered with your system are email templates. Generic templates establish a common format for notifications.

Template Name	Notification Description	Trigger	Recipients
NUR_EMAIL_OPRID	Basic email message that includes the user ID of the requestor. Example: Email Subject: Your User ID to access the Campus Solutions system. Email Message: You are receiving this email message because you had forgotten your User ID to access the Campus Solutions system. Your User ID is TEST100 This is an auto generated email; please do not respond to this message.	From the New User Registration sample login page or New User Registration Tester page after user presses the Forgot your User ID? link and enters his or her email address. After validating the email address, the user ID value is retrieved and included in the email message sent to the email address entered.	The user who has forgotten his or her user ID to login to the Campus Solutions system.

To modify the template, go to PeopleTools, Workflow, Notifications, Generic Templates.

Warning! The notifications are intended to be short and simple messages with the purpose of informing about a specific subject. The list of variables contained in each of the messages is delivered with your system and require extended coding effort to be modified.

At the time of delivering the template for the Forgot User ID utility, only the below variables were defined. Adding more variables requires substantial programming effort.

- %1 => OPRID

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- %2 => URL Link (not used in the delivered template)

Note: As part of New User Registration framework, only the Forgot User ID utility consumes the Notifications Framework. The Forgot Password utility uses the PeopleTools send password email utility.

See “Working with the Notifications Framework” in the Bundle 29 Campus Community PeopleBook for information on setting up New User Registration as a consumer of the Notifications Framework.

New User Registration Context

A New User Registration Context is optionally used when the New User Registration framework is consumed by a specific self-service online transaction. A New User Registration Context is defined through a New User Registration Context ID and you later embed this value in the URL that you create to transfer a user to the New User Registration login page. A New User Registration Context ID is needed if you want to seamlessly provision the newly authenticated user with application security roles and to transfer the user to a predefined target page related to the self-service online transaction for which the user is signing into your system. It is the Gatekeeper that uses this information passed in the URL to provision *just-in-time* and grant the user security access to the target page.

The New User Registration Context ID is read by the Gatekeeper immediately after a user has successfully been authenticated to your system. The New User Registration Context ID defines the security roles that the system should assign *just-in-time* to the user so he or she has application security to perform the online transaction and be automatically transferred to the target page for that specific self-service transaction. Both security provisioning and page transfer occur after the user (guest or returning user) is successfully authenticated by New User Registration to your system.

You can define a New User Registration Context for each of your online self-service transactions that you integrate with New User Registration. Each of them will have their own security provisioned and target page information. For example, if you deploy an *Online Application* self-service transaction, the applicant can register and authenticate through New User Registration and be automatically provisioned with the security role to access your *Online Application* page and to avoid the applicant having to navigate to the page, transfer him or her directly to that page.

To define a New User Registration Context, use the New User Registration Context page (SCC_APPL_CONTEXT). The security provisioning is defined by roles and the target page can either be a PeopleSoft Internet Architecture (PIA) page defined in your PeopleSoft system or a URL to transfer to an external site. Security provisioning and/or target page transfer are optional. Create a New User Registration Context for your integrated self-service transaction only if you want to provision specific security for the transaction and/or want to transfer the user directly to a target page related to the integrated self-service transaction.

In the *Deploying New User Registration* section you will learn that the New User Registration Context ID is an optional element. It can be embedded in the URL that you create for a user to perform a self-service transaction. This transaction requires the user to first sign into your system through a New User Registration login page.

You can create a default New User Registration Context ID. If no New User Registration Context ID is passed in the URL when accessing the New User Registration login page, the default is used to provision and/or transfer the user to a target page. In this case of course you must have a default New User

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Registration Context ID whose setup contains generic information such as your institution's home page to be used as the target page.

See Provisioning Access through the Gatekeeper.

See Setting Up a New User Registration Context.

See Deploying New User Registration.

Sample User Interfaces for New User Registration

The system provides two Campus Solutions sample login pages for New User Registration:

- New User Registration page (SCC_NUR_REG)
- New User Registration Tester page (SCC_NUR_TESTER)

These sample login pages are visually similar. These pages allow a user to create a new user or use an existing one to access your system.

One sample page is the New User Registration login sample page (SCC_NUR_REG). This page is fully integrated with all the New User Registration framework security objects (web services, Gatekeeper, Autologger, authorization and authentication logic, the delivered New User Registration CTM transaction (NEW_USER_REGISTRATION), and the Forgot User ID and Forgot Password utilities. It serves as an example of how your own custom login page can be integrated and deployed with New User Registration. For example, it can reside outside of your firewall and be set as a Kiosk. Consider using this page as a sample to create your institution-specific login page. This sample page will work with the Kiosk setup only.

The second sample page can be used by your developers to test and evaluate the New User Registration framework objects. This page is the New User Registration Tester page (SCC_NUR_TESTER). It contains the same functionality included in the New User Registration login sample page (except for the Autologger and the Gatekeeper), but is meant to be used in the same database. This page is truly intended to be used for testing purposes and should not be deployed in a production environment.

See Accessing the New User Registration Sample User Interfaces.

See Deploying New User Registration.

New User Registration Web Service Operations

[Bundle 29. SCC_USERREG_GET_USERID, SCC_USERREG_GET_PASSWORD, SCC_USERREG_GET_PSWD_HINT service operations have been added.]

The New User Registration framework provides the SCC_USERREG service. The SCC_USERREG service includes the following service operations:

- SCC_USERREG_CREATEACCT: This operation creates a user account.
- SCC_USERREG_AUTHENTICATE: This operation authenticates a user.

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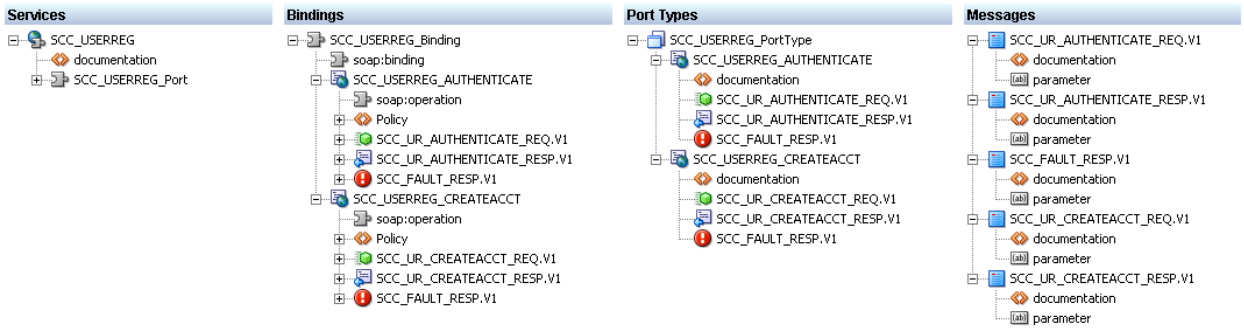
- SCC_USERREG_GET_USERID: This operation retrieves a user's ID.
- SCC_USERREG_GET_PSWD_HINT: This operation retrieves a user's password hint.
- SCC_USERREG_GET_PASSWORD. This operation resets a user's password.

The following diagram shows the SCC_USERREG web service operations and their messages. The diagram also shows the location from where an online transaction can access the SCC_USERREG web service.



SCC_USERREG Web Services and Example of a Locator

Create User Account (SCC_USERREG_CREATEACCT) Service Operation

Use this service operation to enable an online user to create a username (user ID) and password. This service operation creates a new PeopleTools user profile.

The service operation provides support for the PeopleTools user management system. In addition, the service operation supports other user management systems through the delivered adapter architecture. To have your PeopleSoft system interact with another user management system through SCC_USERREG, a new adapter needs to be created.

When calling the Create User Account service operation, the user is required to choose a username and password and optionally to enter some constituent information such as first name, last name, email address, and so on. A call to the Create User Account service operation results in none or a single user account being created in the configured user management system. If the username is valid and does not already exist in the user management system, then the service operation creates a user account. The new user account created can be used immediately (no need for the new user to manually login). The user account is created based on an existing user ID that serves as template (the *SCC_SS_TEMPLATE* user ID). This account must contain the basic Role and Permission security to access and use your system. This is also referred as the *generic role provisioning*. The service operation copies the user default information contained in this template, to create the new account. Therefore, you must set up the SCC_SS_TEMPLATE user account to allow an online transaction to use New User Registration. A second user ID that needs to be created and which also serves as a template to create user profiles is *SCC_GUEST*. For information on setting up SCC_SS_TEMPLATE and SCC_GUEST, refer to the "Step

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1: Initial Setup for New User Registration" subsection in the Developer Reference for Deploying New User Registration section of this chapter.

The Create User Account service operation performs the following steps:

1. Verifies whether the required input parameters have been passed in the user registration page (username, password, and confirm password).
2. Retrieves any constituent information from the input parameters, if included in the registration page, and validates the information. The constituent information is stored in the CTM constituent staging tables using the delivered CTM transaction called NEW_USER_REGISTRATION.
3. Calls the user management adapter to:
    1. Verify that the requested username does not exist in the user management system.
    2. Verify your Password Controls setup is respected. Those are defined under *PeopleTools, Security, Password Configuration, Password Controls*.
    3. Create the new user account.
    4. Authenticate the user and signs the user into the online transaction.
4. Prepares the response message. The service operation either creates a new user account which the user can immediately use or returns an error. The service error will return an error in the following conditions:
    1. The username, password or confirm password input parameters are invalid.
    2. Constituent information provided through the input parameters is invalid.
    3. The PeopleSoft *Password Controls* rules are not respected.
    4. A user account for the same username already exists in the user management system.

Note: If you intend to use the delivered Forgot User ID and Forgot Password utilities, when you create a new user account, you must require an email address to be entered. This email address is stored in the newly created user profile and will serve to send user ID or reset password if the user later forgets his or her user ID or password. Delivered with your system, the New User Registration Sample login page and New User Registration Tester page require an email address to be entered because these pages include the Forgot User ID and Forgot Password utilities.

The Create User Account service operation includes the following three messages:

Input message: SCC_UR_CREATEACCT_REQ

The following diagram shows the input parameters that the SCC_USERREG_CREATEACCT service operation receives from a calling online transaction (mostly the user registration page):

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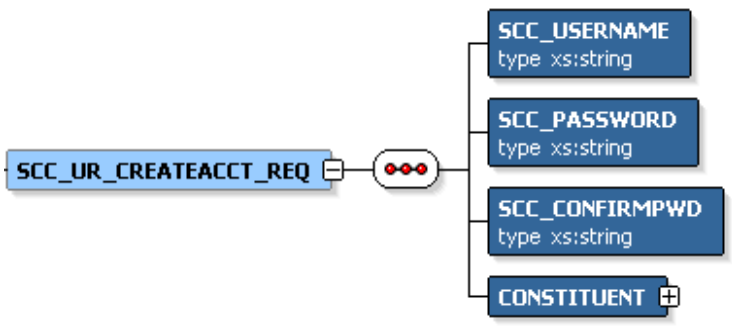

SCC_UR_CREATEACCT_REQ Message Parameters

The following input parameters are mandatory by the registration page to pass to the service operation:

- SCC_USERNAME
- SCC_PASSWORD
- SCC_CONFIRMPWD
- CONSTITUENT

Note: While the CONSTITUENT tag is required in the request message (as indicated in the request message schema: <xs:element maxOccurs="1" minOccurs="1" ref="CONSTITUENT"/>) the CONSTITUENT elements can be empty in the request. This is because it is possible, but optional to gather constituent information at registration time.

Note: Constituent is an entity defined in the Entity Registry. Use the PeopleTools Schema page to access the SCC_ENTITY_CONSTITUENT message schema (PeopleTools, Integration Broker, Integration Setup, Messages, Schema). Any attributes contained in the schema can be used in the registration page.

See *PeopleSoft Campus Community Fundamentals 9.0 PeopleBook*, “Setting Up Entity Registry" for more information about entities. The latest version of the Setting Up Entity Registry chapter was posted to My Oracle Support as part of the Campus Community documentation updates for Bundle 27.

The following is an example of the SCC_UR_CREATEACCT_REQ message that the SCC_USERREG_CREATEACCT service operation receives from a user registration page:

```
<?xml version="1.0"?>

<SCC_UR_CREATEACCT_REQ>

        <SCC_USERNAME>KANGA</SCC_USERNAME>

        <SCC_PASSWORD>Rooly23</SCC_PASSWORD>

        <SCC_CONFIRMPWD>Rooly23</SCC_CONFIRMPWD>

  <CONSTITUENT>

   <!-- Constituent data shape -->

  </CONSTITUENT>
```

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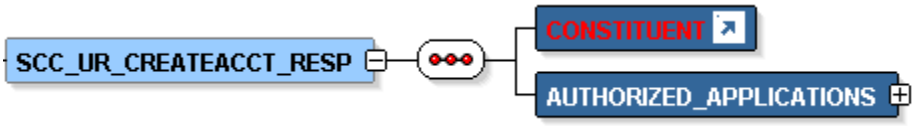
```
</SCC_UR_CREATEACCT_REQ>
```

Output message: SCC_UR_CREATEACCT_RESP

The following diagram shows the output parameters that the SCC_USERREG_CREATEACCT service operation passes to the calling online transaction:



SCC_UR_CREATEACCT_RESP Message Parameters

Note: Constituent is an entity defined in the Entity Registry. Use the PeopleTools Schema page to access the SCC_ENTITY_CONSTITUENT schema (PeopleTools, Integration Broker, Integration Setup, Messages, Schema).

The following is an example of the SCC_UR_CREATEACCT_RESP message that the SCC_USERREG_CREATEACCT service operation responds to the calling online transaction:

```
<?xml version="1.0"?>

<SCC_UR_CREATEACCT_RESP>

  <CONSTITUENT>

   <!-- Constituent data shape -->

  </CONSTITUENT>

 <NUR_REGISTRATION_CONTEXT>

        <SCC_APPL_CONTXT_ID>SCC_NURCTXT_20120918102441</SCC_APPL_CONTXT_ID>

        <SCC_APPL_CONTEXT>NUR_DELEGATED_ACCESS</SCC_APPL_CONTEXT>


        <URL>http%3a%2f%2fyourServer.yourDomain.com%2fEMPLOYEE%2fH900P7AO%2fp%2fSCC_DA
        _PROXY%2fSS_CC_DA_TERMS_CON%2fSS_CC_DA_TERMS_CON%2fU>

 </NUR_REGISTRATION_CONTEXT>

</SCC_UR_CREATEACCT_RESP>
```

Fault message: SCC_FAULT_RESP

If the service operation encounters an error condition, it responds with the SCC_FAULT_RESP message.

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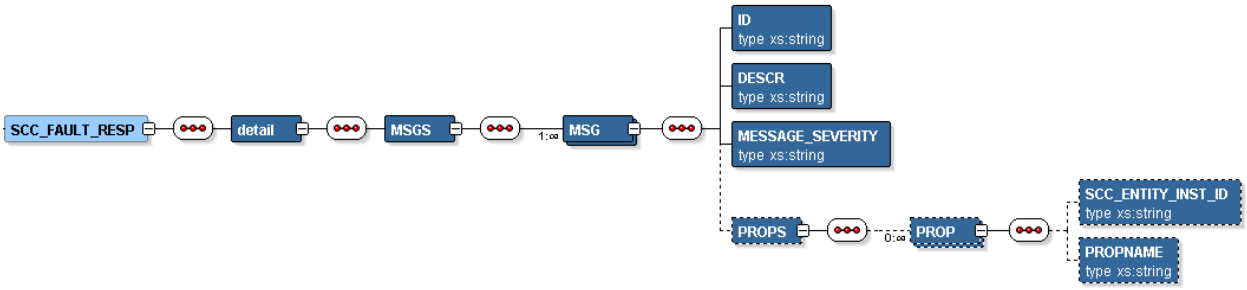
The following diagram shows the output parameters that the SCC_FAULT_RESP service operation passes to the calling online transaction:



SCC_FAULT_RESP Message Parameters

Authenticate User (SCC_USERREG_AUTHENTICATE) Service Operation

This service operation uses the delivered User Manager adapter to validate a username (user ID) and password combination with the installed user management system. The service operation is delivered with the ability to authenticate a user using the PeopleTools user management system.

A call to the SCC_USERREG_AUTHENTICATE service operation verifies whether the supplied username and password combination is correct using the configured user management system. If the username and password combination is correct, then the user is signed into the PeopleSoft system. All users accessing the SCC_USERREG_AUTHENTICATE operation have an *Anonymous* status until they have been successfully authenticated. Anonymous users only have minimal system access.

Use SCC_USERREG_AUTHENTICATE to allow a user to access your system through a *front door*, such as a login page.

The service operation performs the following steps:

1. Verifies whether the input parameters exist (username and password).
2. Calls the user management adapter to validate the username and password combination.
3. If an EMPLID is tied to the retrieved user profile, uses the EMPLID to retrieve constituent information on the authenticated person.
4. Prepares the response message. The service operation either signs in the user to the PeopleSoft system or returns an error. The service error will return an error in the following conditions:
    1. The input parameters, username and password, are invalid.
    2. The username and password combination cannot be authenticated using the user management system.

The Authenticate User service operation includes the following three messages:

Input message: SCC_UR_AUTHENTICATE_REQ

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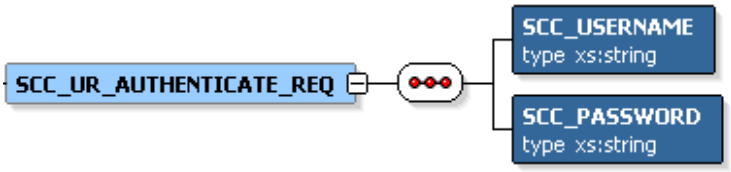
The following diagram shows the input parameters that the SCC_USERREG_AUTHENTICATE service operation receives from a calling online transaction (mostly the user login page):



SCC_UR_AUTHENTICATE_REQ Message Parameters

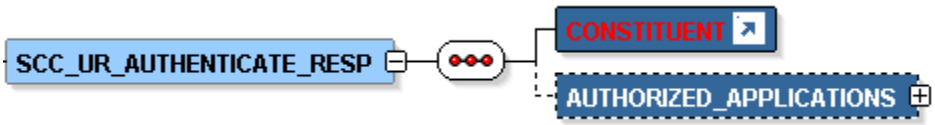
The following input parameters are mandatory for the login page to pass to the service operation:

- Username
- Password

The following is an example of the SCC_UR_AUTHENTICATE_REQ message that the SCC_USERREG_AUTHENTICATE service operation receives from a login page:

```
<?xml version="1.0"?>

<SCC_UR_AUTHENTICATE_REQ>

        <SCC_USERNAME>KANGA</SCC_USERNAME>

        <SCC_PASSWORD>Rooly23</SCC_PASSWORD>

</SCC_UR_AUTHENTICATE_REQ>
```

Output message: SCC_UR_AUTHENTICATE_RESP
The following diagram shows the output parameter that the SCC_USERREG_AUTHENTICATE service operation passes to the calling online transaction:



SCC_UR_AUTHENTICATE_RESP Message Parameters

Note: Constituent is an entity defined in the Entity Registry. Use the PeopleTools Schema page to access the SCC_ENTITY_CONSTITUENT schema (PeopleTools, Integration Broker, Integration Setup, Messages, Schema).

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The following is an example of the SCC_UR_ AUTHENTICATE_RESP message that the SCC_USERREG_AUTHENTICATE service operation transmits to the calling online transaction:

```
<?xml version="1.0"?>

<SCC_UR_AUTHENTICATE_RESP>

  <CONSTITUENT>

   <!-- Constituent data shape -->

  </CONSTITUENT>

 <NUR_REGISTRATION_CONTEXT>

        <SCC_APPL_CONTXT_ID>SCC_NURCTXT_20120918102441</SCC_APPL_CONTXT_ID>

        <SCC_APPL_CONTEXT>NUR_DELEGATED_ACCESS</SCC_APPL_CONTEXT>


        <URL>http%3a%2f%2fyourServer.yourDomain.com%2fEMPLOYEE%2fH900P7AO%2fp%2fSCC_DA
        _PROXY%2fSS_CC_DA_TERMS_CON%2fSS_CC_DA_TERMS_CON%2fU>

 </NUR_REGISTRATION_CONTEXT>

</SCC_UR_AUTHENTICATE_RESP>
```

Fault message: SCC_FAULT_RESP
Refer to the SCC_FAULT_RESP message example in the SCC_USERREG_CREATEACCT service operation section.

Retrieve User ID (SCC_USERREG_GET_USERID) Service Operation

[Bundle 29. New]

This service operation retrieves a user's ID using the Forgot User ID utility. A user must provide the email address that is associated with his or her OPRID (stored inside the user's profile) in order to retrieve the user ID. The user ID is retrieved only if one OPRID is associated with the email address. The New User Registration framework uses the Notifications framework to generate the email message that contains the user ID.

The Retrieve User ID service operation:

1. Verifies whether the required input parameter (email address) has been passed in the Forgot my User ID page.
2. Validates whether the email address entered is associated with only one user ID (OPRID) (from the PSOPRDEFN and PSUSEREMAIL records).
3. Prepares the response message. The service operation either retrieves the user ID and uses the Notifications framework to send an email that contains the user ID, or returns an error. An error is returned when:

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a. The email address is not found.

b. The email address is associated with multiple user IDs (OPRIDs), or to no user ID.

The Retrieve User ID service operation includes the following messages:

Input Message: SCC_USERREG_GET_USERID_REQ

The email address is a mandatory input parameter to pass to the service operation. The utility evaluates whether there is only one OPRID assigned to the email address. If so, the user ID is retrieved.

Output Message: SCC_USERREG_GET_USERID_RESP

When the user ID is retrieved, an email that contains the user ID is sent to the user as part of the response. The Notifications framework is triggered to send the email message.

Note: If more than one user ID is assigned to an email address or no user ID is found, the user ID is not retrieved and an error message appears.

See Notifications Framework and New User Registration.

See also Using the Forgot User ID Utility section.

See also Step 9: Configuring the Forgot User ID Utility

Retrieve Password Hint (SCC_USERREG_GET_PSWD_HINT) Service Operation

[Bundle 29. New]

This service operation retrieves the Forgot Password Hint set when a user forgets his or her password and triggers the PeopleTools Forgot Password utility. The PeopleTools Forgot Password utility requires that Forgot Password Hints should be defined. A user must provide his or her user ID in order to reset and receive a new password. When a user forgets his or her password and invokes the Forgot Password utility, the user ID that is provided is used to fetch the email address and Forgot Password hint set. The user's response is compared with the information stored in the database.

The Retrieve Password Hint service operation:

1. Verifies whether the required input parameter, user ID (OPRID), has been passed in the Forgot my password page.

2. Evaluates whether the user ID is valid.

3. Prepares the response message. If the user ID is valid, the service operation retrieves the associated email address and displays the password hint set, or returns an error. An error is returned when:

    a. The user ID is not found.

    b. The user ID is not associated with a Forgot Password hint set.

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c. The user ID is not associated with an email address, so an email cannot be sent.

The Retrieve Password Hint service operation includes the following messages:

Input Message: SCC_USERREG_GET_PSWDHINT_REQ

The user ID (OPRID) is a mandatory parameter to pass to the service operation. The service operation evaluates whether the user ID is valid. If so, the associated email address and hint question are retrieved.

Output Message: SCC_USERREG_GET_PSWDHINT_RESP

If the user ID is valid, the associated email address and hint question are returned. If the user ID does not exist, is not associated with an email address or hint question, the service operation displays an error.

See Using the Forgot Password Utility.

See also Step 10: Configuring the Forgot Password Utility

Reset Password (SCC_USERREG_GET_PASSWORD) Service Operation

[Bundle 29. New]

This service operation resets a user's password using the PeopleTools Forgot Password utility. When a user forgets his or her password and uses the Forgot Password utility, the user ID that is provided is used to fetch the associated Forgot Password hint set. The user must provide the correct response to the hint question. The response is compared with the information stored in the database, and when the information matches, a new password is generated and emailed to the user.

The Reset Password service operation:

1. Evaluates whether the user's response to the hint question matches the information stored in the database.

2. Generates a new password if the user's response and the information in the database match.

The Reset Password service operation includes the following messages:

Input Message: SCC_USERREG_GET_PASSWORD_REQ

The hint response is a mandatory parameter to pass to the service operation. The custom interface SCC_NUR_EMAIL_PSWD is invoked. If the hint response matches the information in the database, the password is reset and all the PeopleTools tables are updated with the new password.

Output Message: SCC_USERREG_GET_PASSWORD_RESP

A new password is generated and emailed to the user through the PeopleTools Forget Password email utility.

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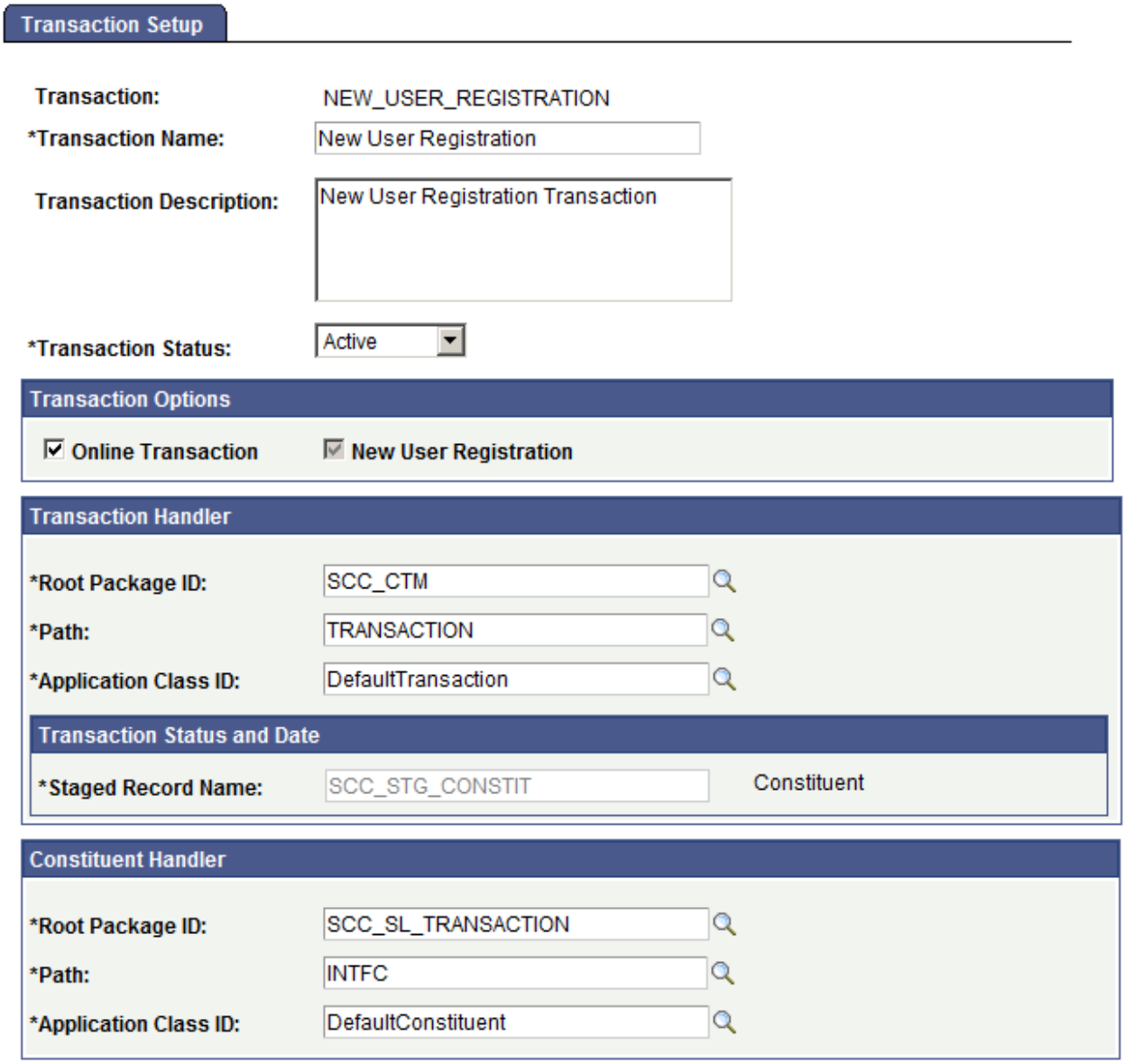
Setting Up CTM for New User Registration

Access the Transaction Setup page (Set Up SACR, System Administration, Utilities, Constituent Transaction Mgmt, Transaction Setup).



Transaction Setup page: New user registration transaction

A New User Registration CTM transaction called NEW_USER_REGISTRATION is delivered with your system.

Verify the delivered and recommended setup for this transaction by accessing the CTM Transaction Setup page.

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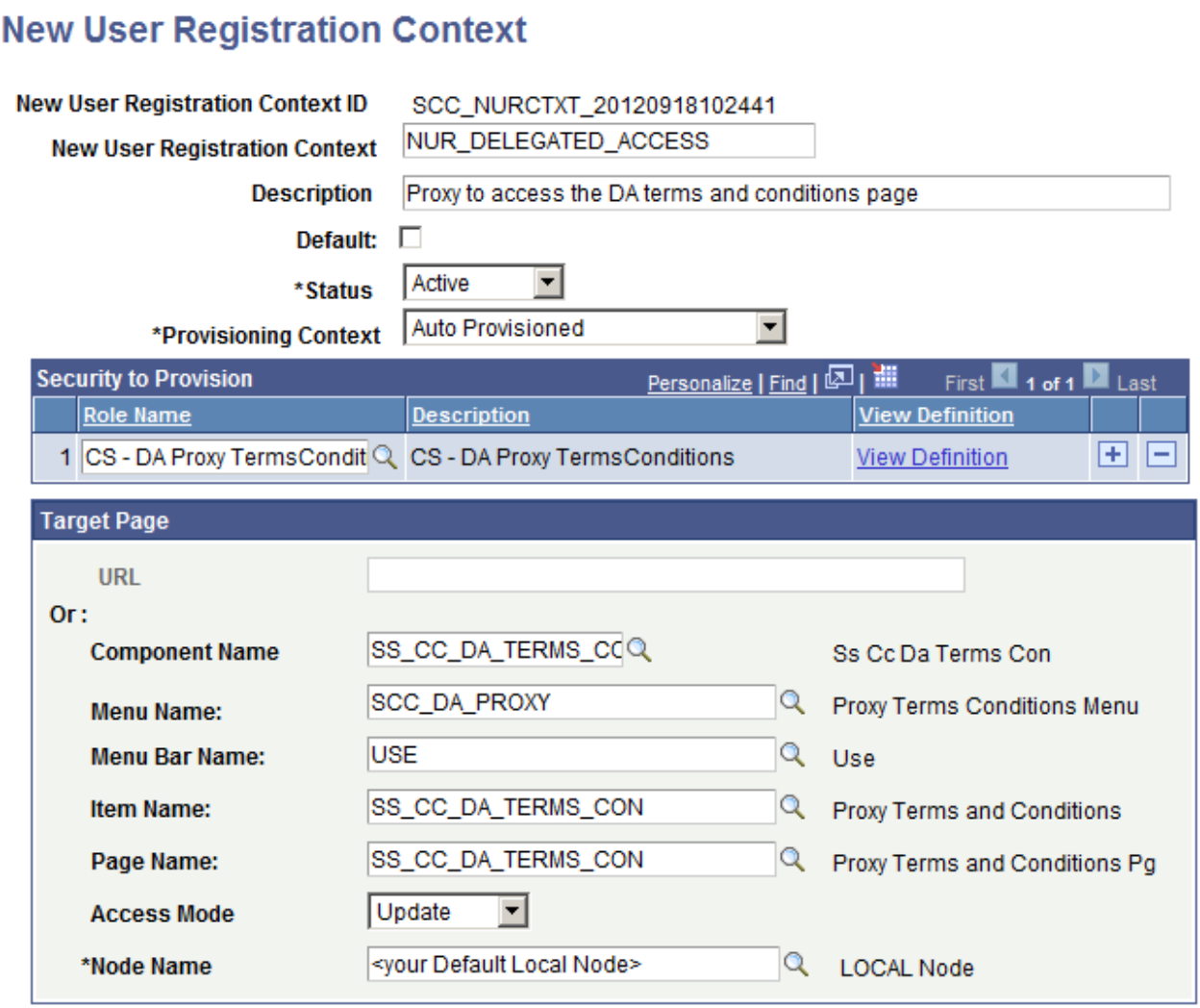
See Setting Up a Transaction in the Working with Constituent Transaction Management chapter of the Campus Community PeopleBook for bundle 29.

Setting Up New User Registration Context

Access the New User Registration Context page (Set Up SACR, System Administration, Utilities, New User Registration, New User Registration Context).



New User Registration Context page

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New User Registration Context ID	Displays the unique ID that the system assigns when you add a New User Registration Context. When you add a new context, this field displays the value *NOID* until you save the record. When you save the new context, the field displays the ID that the system assigned to the context. You will later optionally embed this ID in the URL used to transfer users to the login page configured for using the New User Registration framework. After authenticating the guest or the returning user, New User Registration uses this value to read the New User Registration Context ID setup and provisions the security role(s) and/or transfers the user to the target page accordingly.
New User Registration Context	Enter the name of the context for the New User Registration Context ID. For example, if you create a New User Registration Context ID for accessing your online application page you could enter here *Online Application*.
Description	Enter a longer description for the New User Registration context (50 characters).
Default	Select to mark the New User Registration context as default. Only one New User Registration context can be marked as default. The system uses the default New User Registration Context when a New User Registration Context is not passed in the URL that the user clicks to access the login page. In such a case when the New User Registration Context is not passed, the system uses the New User Registration Context ID marked as default. If a New User Registration Context is not passed, the system looks for a default New User Registration Context. If no default is found, then the user is transferred by default to the home page and no provisioning occurs. It is optional to pass the New User Registration Context in the URL. **Note**: When using the New User Registration Tester sample page, because no URL is used, the system looks at the New User Registration Context ID marked as *default*. If no default is found, then the user is transferred by default to the home page and no provisioning occurs.

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Status Values include *Active* and *Inactive*. Default is *Active*.

If the URL refers to an inactive New User Registration Context, then the user is transferred by default to the home page and no provisioning occurs.

Provisioning Context Available value is *Auto Provisioned.*

Select *Auto Provisioned* if context should be *Public***.**

When Auto Provisioned is selected, the guest or the returning user is provisioned with application role level security dynamically *just-in-time* by the Gatekeeper. The Gatekeeper gets these roles from the list of roles you select in the Security to Provision grid. After real-time provisioning the user is redirected to the specified target page.

Security to Provision

Optional.

Use this grid to define a list of security roles specific to the consuming self-service transaction (such as AAWS Online Application or Delegated Access) for which the New User Registration context is created for. The roles that you enter in this grid are assigned only to the users going through the New User Registration framework for a specific consuming self-service transaction.

These roles are assigned by the Gatekeeper to the user profile of the newly created user or the returning user after the user is successfully authenticated by your system.

Role Name Select the application level security role names that you want to provision the user's user profile going through the New User Registration framework with this New User Registration context. The prompt returns the roles set up in the PeopleTools Roles component (PeopleTools, Security, Permissions & Roles, Roles).

Note: If you specify a target page on this page, make sure you enter a role name that grants access to the specified target page. Else the user will not be transferred to the target page due to lack of security.

Target Page

Optional.

Depending on the online transaction consuming New User Registration, it may make sense to transfer the user directly to a target page instead of making the user manually navigate to the desired page after

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successfully being authenticated through New User Registration. For instance, if you have deployed an online application self-service transaction the system can direct the user to your *Online Application Home* page. In Delegated Access, the system should direct the proxy directly to the very first page the proxy should access to take advantage of the delegated accesses (the *Proxy Terms and Conditions* page). Notice that the target page can also be an external URL.

If you do not identify the target page in this group box, the user is redirected to the application home page.

URL	If the target page lies outside the PeopleSoft system, provide the URL to access the page. Immediately after getting authenticated, the user will be transferred directly to this URL address.
Component Name, Menu Name, Bar Name, Item Name, Page Name	If the target page is built within the PeopleSoft system, list the menu objects to retrieve the proper page. **Note:** If you are using an external UI that lies outside the PeopleSoft system, do not set these fields.
Access Mode	Indicate the mode in which the target page should open, when the user is transferred to the target page. Values include *Add*, *Correction*, *Update* and *Update All*. **See** the following topic titled *Access Mode field* for more information.

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Node Name

This is a required field regardless of whether the target page is a URL or a PeopleSoft component name.

Select the name of the local node defined for the database where the target page is located (for a typical installation, select a *default* local node).

The default local node is defined in the Integration Broker Nodes component (PeopleTools, Integration Broker, Integration Setup, Nodes). The Gatekeeper uses this node to transfer the user to the specified target page.

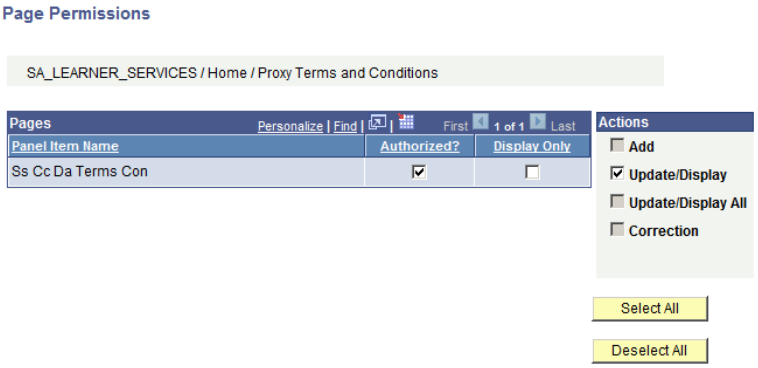
Note: Delivered with your system are two New User Registration Context IDs:

- SCC_NURCTXT_20120918102441 - NUR_DELEGATED_ACCESS (used for Delegated Access functionality)
- SCC_NURCTXT_20130211110717 - NUR_CHANGE_PASSWORD (used by the NUR Forgot Password utility).

If you intend to use these delivered contexts, you must update the Node Name from the default value 'LOCAL' to your local node name.

Access Mode field

If one of the roles you listed in the Security to Provision grid includes a permission list granting access to the component and menu names listed in the Target Page group box, make sure you select the action mode used in the permission list for the page name selected. For example, the preceding graphic shows the role "CS - DA Proxy TermsConditions". This role contains a permission list that grants access to the SCC_DA_PROXY menu and the SS_CC_DA_TERMS_CON component which contains the page SS_CC_DA_TERMS_CON. When opening the page permission, the Actions selected is Update/Display. You would therefore select the 'Update' value.



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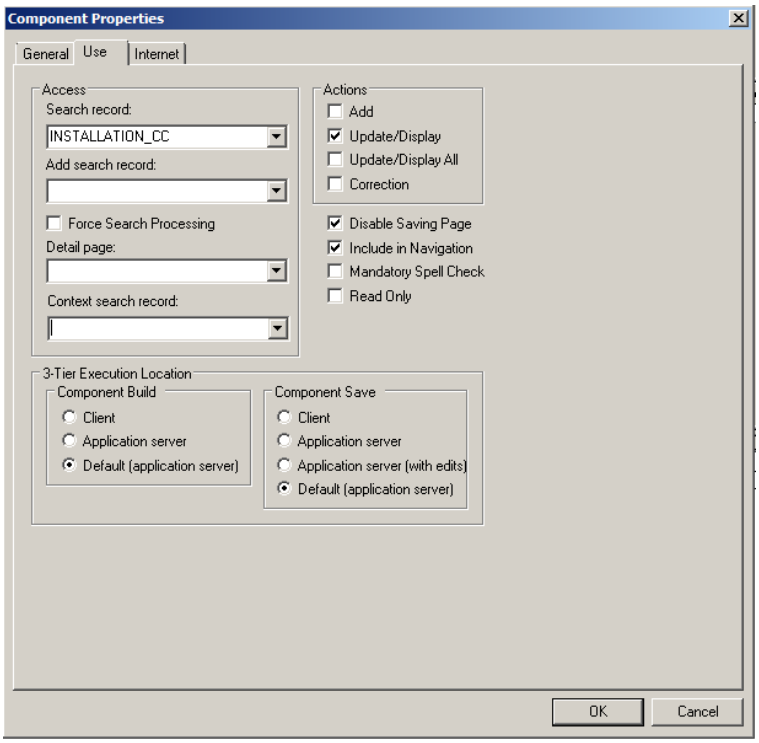
If you didn't list any roles, make sure you select an Action Mode for which the component was created. For example, the preceding graphic shows the component name SS_CC_DA_TERMS_CON was used. If you open this component using Application Designer, the Component Properties show that the possible Actions selected is "Update/Display". In this case you would select the 'Update' value.



Provisioning Access Through the Gatekeeper

The Gatekeeper is a Campus Solutions security utility that has the responsibility of dynamically provisioning application level security access and navigational orchestration to Campus Solutions pages or even navigation outside of Campus Solutions to a newly authenticated user. Prior to redirecting a user to a specific target page, the Gatekeeper is also responsible for validating that the self-service requestor is authorized (*provisioned*) to access a particular self-service application.

The New User Registration framework is PeopleTools web service based and therefore usable from any technology that supports SOAP over HTTP web service integration.

The Gatekeeper and New User Registration

The New User Registration framework, after having successfully authenticated a user to your system, uses the Gatekeeper to optionally perform the following two tasks:

1. Provisions the newly authenticated user with the security needed to perform the self-service transaction for which the user has signed in through New User Registration.

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2. Transfers the newly authenticated user to the target page defined for the self-service transaction for which the user has signed in through New User Registration.

The application level provisioning is performed *just-in-time*. The user's user profile is being provisioned with the roles listed in the New User Registration Context ID used at the final moment when the user accesses the Campus system to perform a specific self-service transaction. Once provisioning is completed, if a target page is entered in the New User Registration Context ID, the Gatekeeper verifies the user has security access to the target page and if so, transfers the user.

The context in which the security role and the target page are defined is specific to the self-service transaction. The information is set up in the New User Registration Context setup page and stored under a New User Registration Context ID. The New User Registration Context ID is what the Gatekeeper needs to know to perform the security provisioning and the page transfer.

See Setting Up New User Registration Context section.

The use of the Gatekeeper within New User Registration is possible when the New User Registration login page is accessed from a launching point to perform a subsequent self-service transaction. For example, from your institution's web site, you could advertise that it is possible to apply online at your institution and display a *Click here to apply* link. The link URL will need to be embedded with the following information:

1. The content reference where the New User Registration login page is located so the user can be redirected to it.

2. The gatekeeper information.

3. The New User Registration Context ID (optional).

See Deploying New User Registration section for information about how to create the URL.

See "Step 7: Creating a URL to Access the New User Registration Login page" subsection in the Developer Reference to Deploy New User Registration section for information about how to create the URL.

From the launching point, the user is transferred to the New User Registration login page. Once successfully authenticated, New User Registration, through the Gatekeeper and the New User Registration Context ID passed in the URL, provisions the security role(s) related to the self-service transaction (for example, security role needed to access the *Online Application* page) and then transfers the user directly to the target page defined for performing the self-service transaction for which the user launched the New User Registration process. When no New User Registration Context ID is passed, the Gatekeeper uses the New User Registration Context ID you marked as the default.

Warning! When you deploy New User Registration framework, all the existing users you have in your system will need to have access to the Gatekeeper in order to use their existing user ID to sign in through a New User Registration login page. The new users (the guest creating a user ID through New User Registration) will be provisioned with the Gatekeeper security as part of the "basic provisioning" defined in the SCC_SS_TEMPLATE user ID.

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See “Step 8: Provisioning the Gatekeeper Permission List to all of Your Users” in the Developer Reference to Deploy New User Registration section.

See “Step 1: Initial Setup for New User Registration” in the Developer Reference to Deploy New User Registration section.

Accessing New User Registration Sample User Interfaces

[Bundle 29. Redesigned sample login page and tester page and included Forgot User ID and Forgot Password utilities.]

This section describes the New User Registration sample pages and discusses how to:

- Use the New User Registration login sample page.
- Use the New User Registration Tester page.
- Use the Forgot User ID Utility.
- Use the Forgot Password Utility.

The Campus Solutions sample login pages for New User Registration are meant to be used only as a reference or guide for implementing New User Registration in your institution. While they both are visually similar, one is fully integrated with all the delivered New User Registration framework security objects and can be referenced by your developers as a foundation for building your own login page. The second one can be used for testing purposes to evaluate the security objects comprised inside the New User Registration framework.

The delivered sample New User Registration Campus Solutions pages are *not* intended to be deployed in a production environment for end users.

Most institutions might already have deployed their security management system and could continue relying on it. Institutions can deploy New User Registration fully or partially, or can choose to continue to rely on their existing security system without using New User Registration.

There are two sample interfaces for New User Registration:

- New User Registration page (SCC_NUR_REG) (also referred as the New User Registration login sample page).
- New User Registration Tester page (SCC_NUR_TESTER).

These pages are examples of a system login user interface that allow users to sign in using an existing user ID and password or to create a new one if none exists. These pages also contain examples of a Forgot User ID and Forgot Password utilities.

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The sample login pages allow a user to create a new user ID or reuse an existing one to access your system. These pages also integrate with the following New User Registration framework security objects to:

- Provision the basic roles set up in SCC_SS_TEMPLATE.
- Trigger the New User Registration web service operations for creating and authenticating a user (SCC_USERREG_CREATEACCT and SCC_USERREG_AUTHENTICATE).
- Use the delivered New User Registration CTM transaction (NEW_USER_REGISTRATION).
- Take advantage of the New User Registration Context ID.
- Validate user authorization and authentication based on PeopleTools security.
- Allow a user to launch the Forgot User ID or Forgot Password utility.

Pages Used to Access New User Registration Sample User Interfaces

Page Name	Definition Name	Navigation	Usage
New User Registration	SCC_NUR_REG	Set Up SACR, System Administration, Utilities, Sample User Interfaces, New User Registration	Shows an example of how to integrate and deploy your custom login page with New User Registration
New User Registration Tester	SCC_NUR_TESTER	Set Up SACR, System Administration, Utilities, Sample User Interfaces, New User Registration Tester	Tests and evaluates New User Registration framework objects
Forgot my User ID **[Bundle 29. New]**	SCC_NUR_FRGT_USRID	Click the Forgot your User ID link on the New User Registration or New User Registration Tester page	Retrieves user ID
Forgot My Password **[Bundle 29. New]**	SCC_NUR_FRGT_PSWD	Click the Forgot your password link on the New User Registration or New User Registration Tester page	Resets user password

Using the New User Registration Login Sample Page

The New User Registration login sample page is also integrated with the following New User Registration framework security objects:

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- The Autologger to immediately sign in the user into your system.
- The Gatekeeper to optionally provision specific application role level security and to transfer to an application specific target page.
- A specific or defaulted New User Registration Context ID specified in the URL to access your login sample page.
- The language links to access your system in the user's preferred language (requires that your system supports translation for at least one language other than the base language).

The page is integrated with all of the delivered New User Registration framework security objects. It is intended to be used outside of your system's firewall such as within a Kiosk. When deployed, the login page (or a custom version of it) is accessed through a URL (not from a Peoplesoft regular menu navigation). As explained in the New User Registration Context section, the URL is embedded with the Gatekeeper information and optionally a New User Registration Context ID.

The New User Registration login sample page deployed with a Kiosk can be represented as follows:

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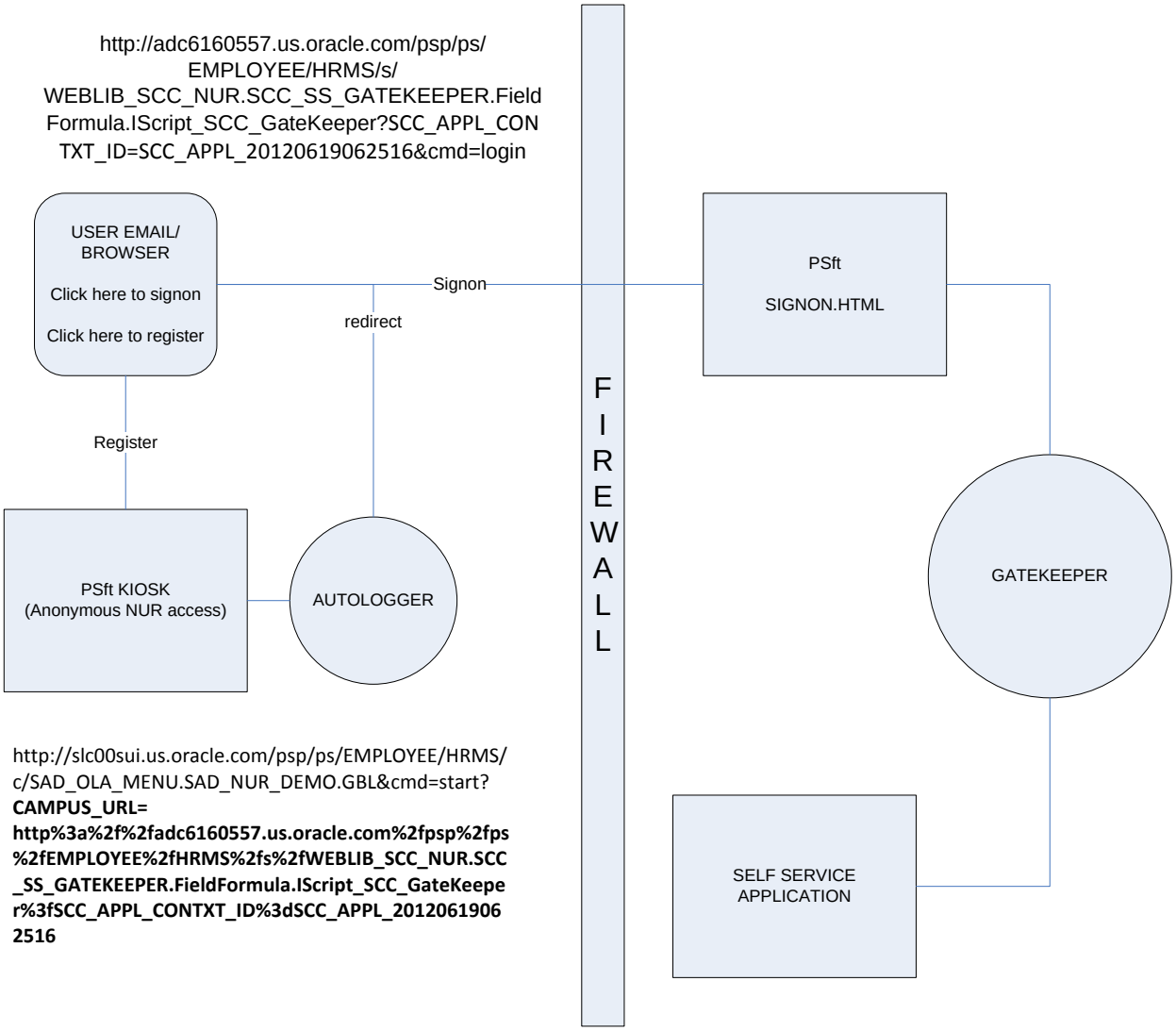

Deploying the New User Registration login sample page

The self service Kiosk allows anonymous user access to the New User Registration page outside the firewall.

After account creation, users authenticate via the standard PeopleTools login page. To allow for a seamless experience the Autologger facilitates the automatic sign-on after account creation. Note that in the case of account creation the embedded URL (CAMPUS_URL) is used to retain information on the target page. The orchestration and flow between the various components is shown in the following sequence diagram:

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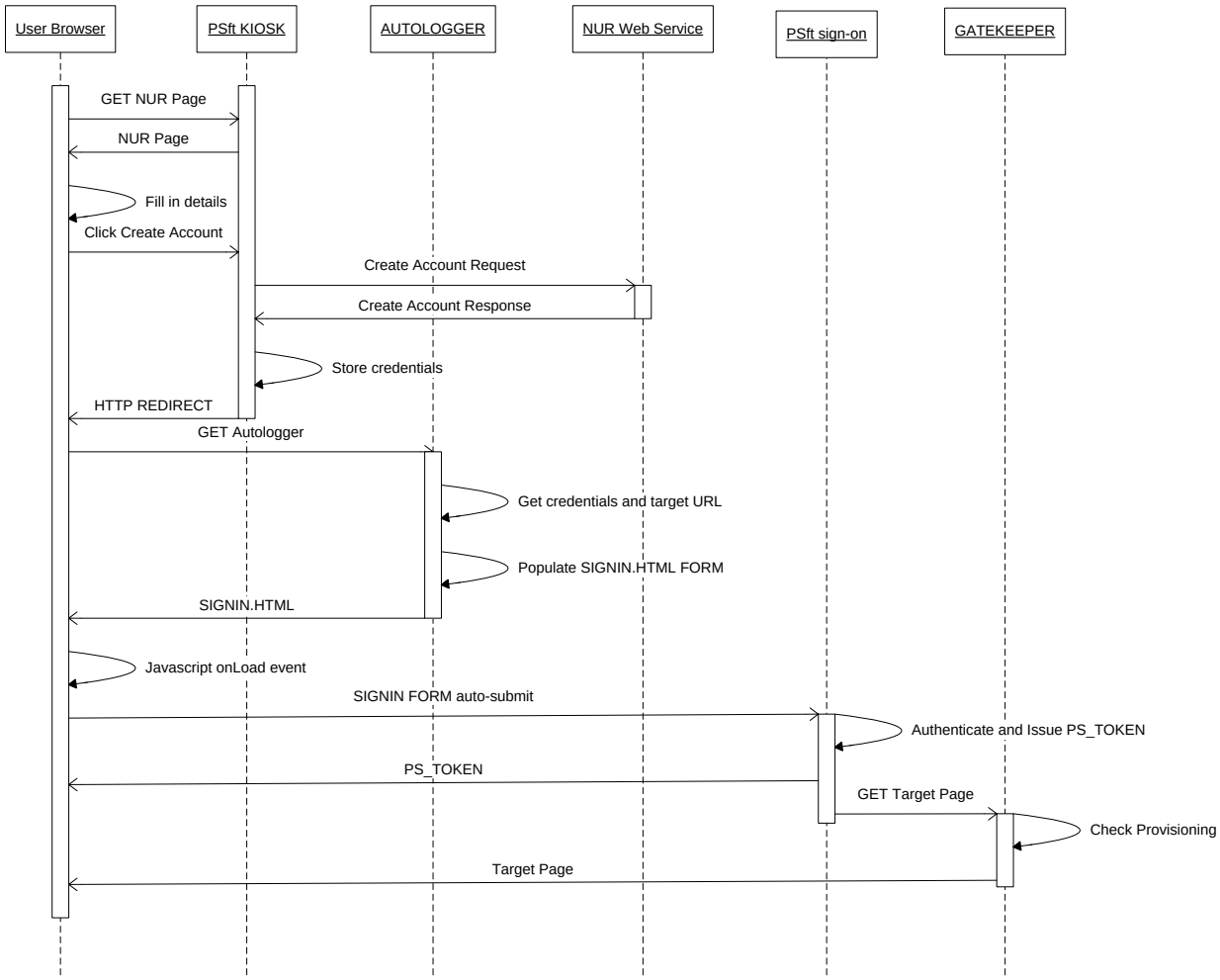

Orchestration of various New User Registration framework elements

Note that all sign-in related request and response processing should occur over a secure transport layer (SSL) until such a point as the PS_TOKEN cookie is issued to the browser.

Using the New User Registration Tester page

The New User Registration Tester page is visually similar to the New User Registration login sample page, but has the following use and implementation differences:

- The page is deployed *within* your firewall (resides inside the production database). It is *only* for testing and evaluating the New User Registration framework. Your developers should use the

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tester page to review and understand the different pieces contained in the New User Registration framework.

- It is accessed by a system administrator (not by an end user) from a PeopleSoft menu navigation, not from a URL.
- The Autologger is replaced by the *SwitchUser* function. Because the page is contained in your system database and is accessed by the signed-in administrative user ID, the SwitchUser function signs off the administrative user ID to sign in the newly created user ID or the existing user ID you enter in the login page.
- Because no URL is used, no New User Registration Context ID is specified. The New User Registration Tester page instead uses the New User Registration Context ID you set with the Default field checked.
- Clicking the displayed language links do not change the language in which the newly created user or the returning user sees the system. Because the New User Registration Tester is first accessed by the administrator, the SwitchUser function will not change the languages.

Note: The tester page is intended for testing purposes and should not be deployed in a production environment.

User Flow For a Returning User

1. Navigate to the New User Registration Tester page or access the New User Registration login sample page from a predefined URL.

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New User Registration login sample page or New User Registration Tester page

The following describes the New User Registration page or New User Registration Tester page.

User ID	Provide an existing user ID.
Password	Provide the password.
Sign In	Click to sign into the system. The system validates whether the user ID and password match a valid user profile. If the validation passes without errors, the system triggers the SCC_USERREG_AUTHENTICATE service operation, auto logger, and gatekeeper.
Select a Language	Displays the list of languages supported by your system. The guest can select a language from this list in which he or she can view and use the PeopleSoft system, as well as locale formatting conventions for dates, times, and number.
Forgot your User ID	Click to access the Forgot my User ID page. **See** Using the Forgot User ID Utility.
Forgot your password	Click to access the Forgot My Password page. **See** Using the Forgot Password Utility.

2. The returning user enters the user ID and password, and clicks the Sign In button. This will trigger the SCC_USERREG_AUTHENTICATE service operation, auto logger (or SwitchUser if the New User Registration Tester page is used) and gatekeeper.

3. If the New User Registration login sample page is used, after pressing the Sign In button, the new user is authenticated through the PeopleTools security logic to access your system. Because of that the user sees, for a few seconds, your regular login page pre-populated with the user ID and the password entered by the returning user. Below is an example of what the user will see if the delivered PeopleTools login page is used:

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PeopleTools login page

Depending on how you deploy the user registration page, you may want to replace this page with a message like: "*Please be patient while we are transferring you to our system*." To perform this customization, you alter the HTML found in the SCC_PT_SIGNON.HTML object in application designer to remove the text shown in the above graphic and just show the message *"Please be patient while we are transferring you to our system*."

You will view the main login page only when signing in through the New User Registration login sample page. If the New User Registration Tester page is used, you will not see it because the authentication is performed within the same database and you are signed into the system through the SwitchUser function.

4. After successfully getting authenticated the returning user is automatically signed into the system. If a New User Registration Context ID is known (whether it is passed through a URL if the New User Registration login sample page is used or a default New User Registration Context ID is identified in the case of the New User Registration Tester page), and security role(s) are listed, the system provisions the application level security role(s) defined. If the New User Registration Context ID includes a target page, the system transfers the returning user directly to the target page. Else, the system transfers the returning user to the application client's home page.

User Flow For a Guest

1. Navigate to the New User Registration Tester page or access the New User Registration login sample page from a predefined URL. From these pages, the new user registration fields appear

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below the sign-in fields (under Create Account) and users without an existing user ID can directly register a new account.

If the New User Registration login sample page is used, then after pressing the Create Account button, the new user is authenticated through the PeopleTools security logic to access your system. Because of that the user sees, for a few seconds, your regular login page pre-populated with the user ID and the password entered by the guest. Below is an example of what the user will see if the delivered PeopleTools login page is used:

PeopleTools Login page

Depending on how you deploy the user registration page, you may want to replace this page with a message like: "*Please be patient while we are transferring you to our system*." To perform this customization, you will have to alter the HTML found in the SCC_PT_SIGNON.HTML object in application designer to remove the text shown in the above graphic and just show the message *"Please be patient while we are transferring you to our system*."

You will view the main login page only when signing in through the New User Registration login sample page. If the New User Registration Tester page is used, you will not see it because the authentication is performed within the same database and you are signed into the system through the SwitchUser function.

2. Clicking the Create Account button will trigger the SCC_USERREG_CREATEACCT service operation, auto logger (or SwitchUser if the New User Registration Tester page is used) and gatekeeper.

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3. After successfully being authenticated, the new user is automatically signed into the system. If a New User Registration Context ID is known (whether it is passed through a URL if the New User Registration login sample page is used or a default New User Registration Context ID is identified in the case of the New User Registration Tester page), and security role(s) are listed, the system provisions the application level security role(s) defined. If the New User Registration Context ID includes a target page, the system transfers the new user directly to the target page. Else, the system transfers the new user to the application client's home page.

The following describes the New User Registration login sample page or New User Registration Tester page that displays the user registration fields:

Choose your User ID	Enter a user ID. **Note**: Some institutions might prefer to create user IDs by prefixing some letters, using their own algorithm (for example, an institution named PeopleSoft University may want their user IDs to start with the letters *PU*). No such algorithm is delivered with this sample user interface. If required, institutions can add logic to their user interface for user ID creation.
Create a password and Confirm your password	The guest chooses a password. The system performs the validation when the user clicks the Create Account button.

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Email Address, First Name and Last Name

Optional. The guest enters this constituent information.

Although the SCC_USERREG_CREATEACCT service operation supports most of the constituent fields, the sample New User Registration login pages include only these three constituent fields. While First Name and Last Name fields are optional, Email Address is required when the Forgot User ID or the Forgot Password utility is deployed. You can add more constituent fields if required or delete these if you do not want to gather constituent information at account creation time. The values that the guest enters in these constituent fields are stored inside the delivered constituent staging records (delivered with CTM). Additionally, the Email Address value is also stored inside the newly created user profile. The email address stored in the user profile is used in the Forgot User ID and Forgot Password utilities. Use the PeopleTools Schema page to access the SCC_ENTITY_CONSTITUENT schema (PeopleTools, Integration Broker, Integration Setup, Messages, Schema). Any attributes contained in the schema can be used in the registration page.

The constituent information, entered by the guest user, is stored in the CTM constituent staging tables and can be viewed using the Constituent Staging component under the CTM transaction code called NEW_USER_TRANSACTION. At this stage no EMPLID is assigned so the data cannot be promoted to the corresponding production tables. Staging the data allows retrieval from inside a subsequent CTM transaction. Because the subsequent transaction also stores the data in the CTM constituent staging tables, the self-service user will not have to enter the same information twice (at registration and while performing the subsequent CTM transaction).

See PeopleSoft Campus Community Fundamentals 9.0 PeopleBook, Working with Constituent Transaction Management.

See CTM and New User Registration in the Understanding New User Registration section.

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Create Account

Click to create your account.

The system performs the following validation when the guest clicks the Create Account button:

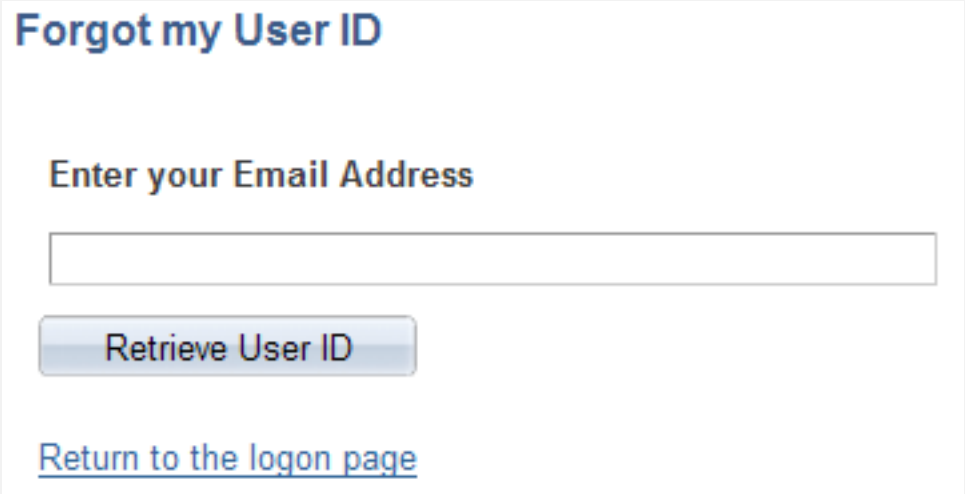
- Verify that the information in the Create a password and Confirm your password fields match. If they do not match, an error message appears.
- Verify the user ID entered is not already in use inside the PeopleTools security table (PSOPRDEFN record).
- Verify that the entered information for the constituent fields is valid (for example, verify whether the email address entered is valid). Display the HCM error messages if the information is invalid.

If the validation passes without errors, the system stores the constituent information in the CTM staging records and triggers the SCC_USERREG_CREATEACCT service operation.

Using the Forgot User ID Utility

[Bundle 29. New]

Click the Forgot your User ID link on the New User Registration login sample page or New User Registration Tester page.



Forgot my User ID page

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Enter your Email address	Provide an email address. This is used to retrieve the user ID (OPRID). The email address you provide must match one and only one user ID in the system. If so, a successful message is returned to the user: "*Your request was successful. Your User ID will be sent at the email address you entered.*" If the email address is either associated to multiple user IDs or to no user ID, an error message is returned: *"We cannot retrieve your username at this time*."
Retrieve User ID	Click to validate the email address entered. If the process locates the email address inside a user profile, it triggers the Notifications Framework to send an email message that contains the user ID. For information on setting up New User Registration as a consumer of the Notifications framework, see the "Working with the Notifications Framework" chapter in the Bundle 29 Campus Community PeopleBook.
Return to the logon page	Click to cancel the process and return to the login page.

Warning! To enable a user to invoke the Forgot User ID utility, an email address must first be stored in his or her user profile. Before you deploy this functionality, all user IDs in your system must have an associated email address stored in the user's profile. This email address is used to retrieve the user ID and to send the email notification message that includes the forgotten user ID. The delivered New User Registration login sample page and New User Registration Tester page require the email address field to be populated at account creation time. This ensures that user IDs created through New User Registration will have an email address stored in the user's profile.

See the Notifications Framework and New User Registration section for information on how the New User Registration Forgot User ID utility uses the Notifications Framework.

See Working with the Notifications Framework in the Bundle 29 Campus Community PeopleBook for information on setting up New User Registration as a consumer of the Notifications framework.

See also Step 9 Configuring the Forgot User ID Utility in the Developer Reference to Deploy New User Registration section.

Using the Forgot Password Utility

[Bundle 29. New]

Click the Forgot your password link on the New User Registration login sample page or New User Registration Tester page.

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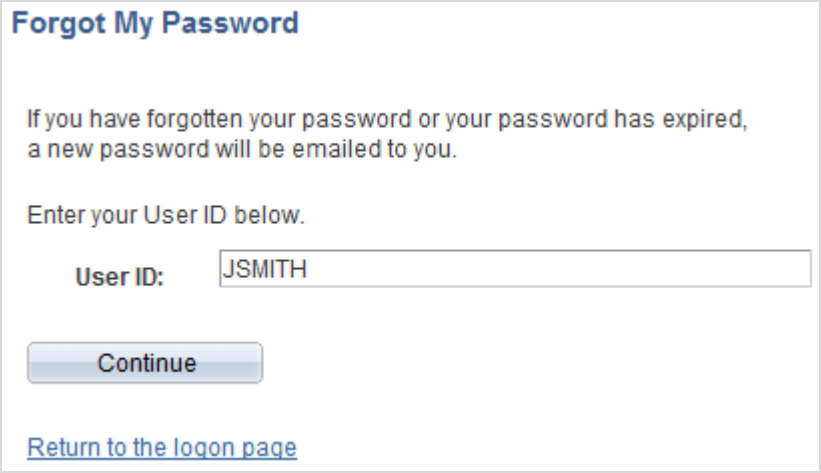

Forgot My Password page

User ID	Enter your user ID. This is used to retrieve the user's email address from the user's user profile so that the password can be regenerated and emailed to the user.
Continue	Click to access the Answer security question page. **Note:** When you click Continue, the system validates whether the user ID you provided has an associated email address in the user's profile. The email address is used to send the new password. If no email address is found, the following message is sent to the user: "*A new password cannot be sent as no email address was found. Contact your system administrator*."

Warning! To enable a user to invoke the Forgot User ID utility, an email address must first be stored in his or her user profile. Before you deploy this functionality, all user IDs in your system must have an associated email address stored in the user's profile. This email address is used to send the email notification message that includes the new temporary password. The delivered New User Registration login sample page and New User Registration Tester page require the email address field to be populated at account creation time. This ensures that user IDs created through New User Registration will have an email address stored in the user's profile.

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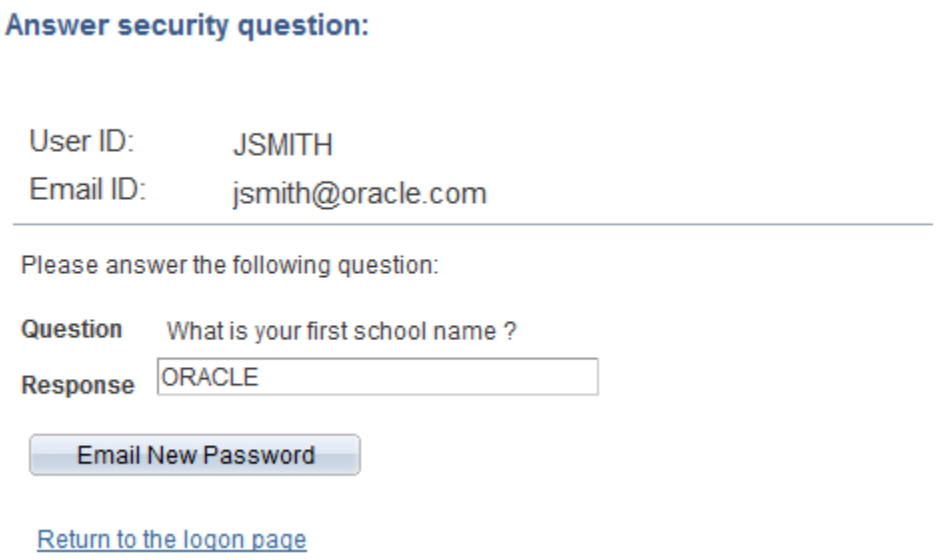

Answer security question secondary page

Question	Shows the security question the user previously answered. **Note:** If a security question has not previously been answered, the user cannot reset his or her password. The following error message is displayed *"A security question has not previously been answered. Contact your system administrator*." **Note:** As delivered with the generic PeopleTools security, a self-service user can answer a security question under: *Home page > My System Profile*. In the General Profile Information page, click the Change or set up forgotten password help link. The user can select a security question and enter a response. This page is delivered with your system and security needs to be granted to all of your users. Alternatively, a simpler self-service version of this page could be created.
Response	Enter the answer to the security question.

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Email New Password

Click to trigger the email template utility and auto-generate a temporary password.

An email with a temporary password is sent only if the response to the security question is correct and there is an email address stored in the PSOPRDEFN.EMAILID field for the user ID that was provided.

The password is automatically reset in the user's profile (in the PSOPRDEFN table).

Example of an email message that might be sent to a user requesting his or her password to be reset:

"You are receiving this auto-generated email message because you requested your Campus Solutions password to be resetted. Use the following temporary password: JMWFBUEU.

Press this link or copy the below URL to access the system with your newly generated password. You will be requested to change the temporary password immediately".

http://yourServer.yourDomain.com/psp/ps/EMPLOYEE/HRMS/s/WEBLIB_SCC_NUR.SCC_SS_GATEKEEPER.FieldFormula.IScript_SCC_GateKeeper?SCC_APPL_CONTEXT=SCC_NURCTXT_20130211110717."

See Step 10: Configuring the Forgot Password Utility in the Developer Reference to Deploy New User Registration section for information on how to deploy the Forgot Password utility.

Deploying New User Registration

This section presents some examples for deploying New User Registration. Institutions can adopt these examples, only pieces of it, or continue using their own security implementation (for example, with an identity management solution, LDAP or any other user management system).

The New User Registration login page should be accessed from where an unidentified user wants to perform a specific transaction that requires signing in to your system.

New User Registration can be triggered from:

- A link or a button on the institution's web site.
- A URL sent through an email notification.

For example, if you deployed an "Online Application" self-service transaction, your portal may include a button or a link "*Click here to apply online*". The URL configured behind the button or the link can contain

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information to first transfer the future applicant to the New User Registration login page prior to then be transferred to your online application page. This URL contains information in which context the self-service transaction is performed. Another example for accessing the New User Registration login page is when a user receives an email notification and you include a link in the text so the user can easily sign in to your system, from the email message, to perform a specific transaction. Delivered with your system is the Delegated Access functionality that is intended to use this deployment (the proxy receives an email notification instructing him or her to access the system to accept the terms and conditions and to start reviewing the access delegated by a specific person).

The underlying steps involved in providing an anonymous user access to your Campus Solutions system to perform a specific online transaction are as follows:

1. New User Registration starts either with a user receiving an email notification containing a link to access the Campus Solutions system (the link will result in a transfer to your New User Registration login page) or with a button or a link located on a website located outside of your Campus Solutions system inviting an anonymous user to perform a self-service transaction (for example, a link: *Click here to apply online*). A button or any other UI element can also be implemented to point to a URL.

2. If the user already has an account then he or she can use that account to sign into the system. This authentication can occur through the New User Registration authenticate service operation, vanilla Peopletools login page or a federated login page.

3. If the user has no account then he or she can register for a new account through a new user registration page. This calls the New User Registration Create Account service operation. At this point the user is authenticated by the Campus Solutions system and can sign in.

4. The URL should be embedded with the Gatekeeper information with the queryString parameter SCC_APPL_CONTEXT. Refer to the “Step 7: Creating a URL to access the New User Registration login page” subsection in the Developer Reference to Deploy New User Registration section.

5. After the user is authenticated, the Gatekeeper interrogates the URL queryString parameter to determine which context (New User Registration Context ID) the user is requesting access to. It does this by using the user’s user ID (OPRID) and a combination of SCC_IDM_PROVISN and SCC_IDM_APPS tables to determine whether the user has already been provisioned to the given application (or needs to be provisioned *just-in-time*).

   SCC_IDM_APPS contains the New User Registration Context information, for example, all applications that are available to be provisioned to a user.

   SCC_IDM_PROVISN contains all the applications (New User Registration Context IDs) that have been previously provisioned to a user. This table keeps a track of who has been provisioned to what.

6. If a New User Registration Context ID is found, a call is made to the Campus Identity Manager *provisionTran()* API method. This method provisions the user profile with the roles contained in the New User Registration Context ID in real time.

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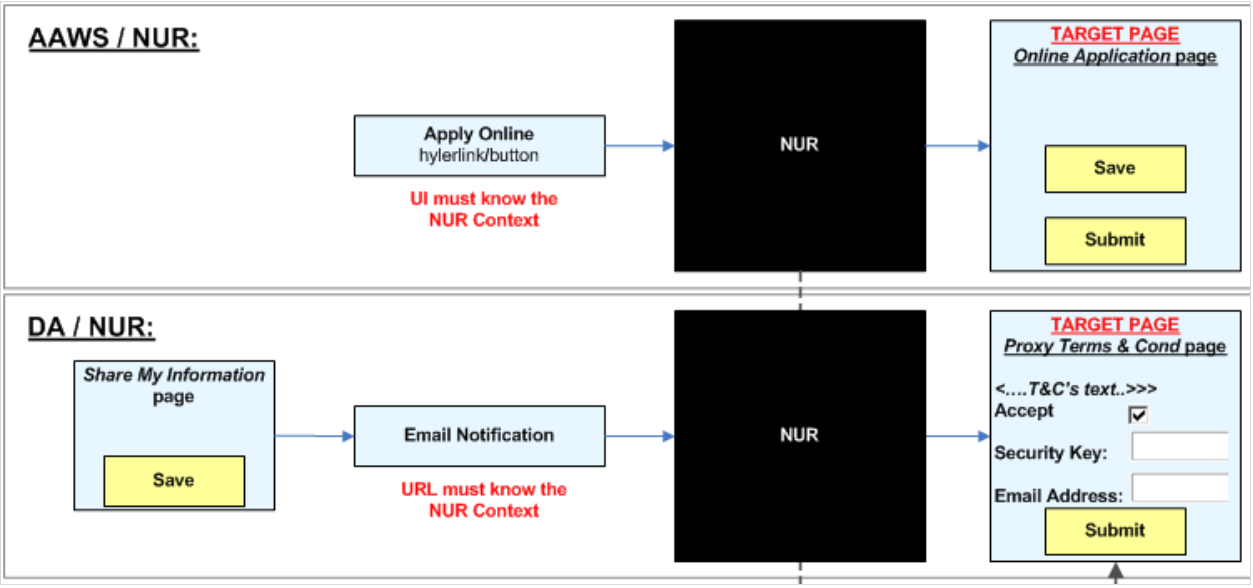
7. If the New User Registration Context ID also contained a target page, the Gatekeeper validates that the user has security access to it and if so, transfers the user to the target page. Else an error is returned and the user is not transferred.

Note: The delivered New User Registration framework uses the PeopleTools security validation and authentication logic.

The following diagram illustrates where New User Registration (NUR) takes place when triggered from a button or link located outside of your Campus Solutions system (for example, as part of your Online Application (AAWS) transaction) and when triggered from a URL contained in an email notification (for example as part of the Delegated Access (DA) process):



Representation of where New User Registration is situated when consumed by a self-service transaction

The above diagram shows that New User Registration is considered a *black box*, independent from any logic specific to the self-service transactions that are consuming it. Notice that New User Registration is always placed *before* performing the self-service transaction. The reason is that within PeopleTools security management, the security needs to be provisioned prior to accessing a component.

You can define the logic contained inside the New User Registration black box as shown in this diagram:

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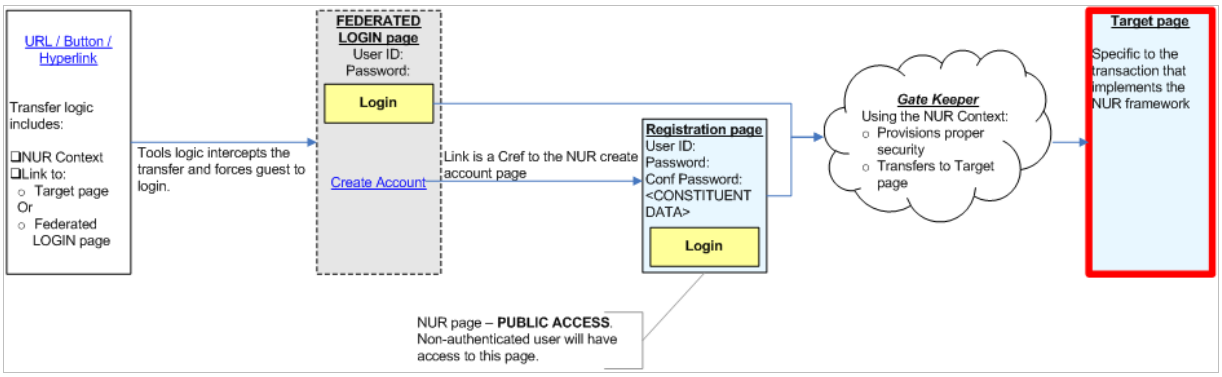

New User Registration black box logic

The following describes the New User Registration black box logic depicted in the preceding diagram:

1. User clicks a link or button or any other user interface elements configured with a URL embedded with a New User Registration Context ID (this link could be on the institution's website or in an email message).

2. The login page must authenticate the user (and provide the option of creating the user account). An institution can implement this through the New User Registration service operations. After successful authentication or account creation, the gatekeeper provisions security defined in the New User Registration Context ID passed and re-direct the user to the target page to perform the self-service transaction.

3. Note that the user registration page should be publically accessible to anonymous users.

4. The New User Registration web service operations inspect the SCC_IDM_PROVISN record to determine which applications the user has access to. This information is then returned to the user interface in the web service response. The user interface may choose to use this information to assist in the user navigation. For example, this response code shows that the user has access to the Delegated Access application:

```
<NUR_REGISTRATION_CONTEXT>

        <SCC_APPL_CONTXT_ID>SCC_NURCTXT_20120918102441</SCC_APPL_CONTXT_ID>

        <SCC_APPL_CONTEXT>NUR_DELEGATED_ACCESS</SCC_APPL_CONTEXT>


<URL>http%3a%2f%2fyourServer.yourDomain.com%2fEMPLOYEE%2fLOCAL%2fp%2fSCC_DA_PROXY%2fSS_CC_DA_TERM
S_CON%2fSS_CC_DA_TERMS_CON%2fU</URL>

    </NUR_REGISTRATION_CONTEXT>
```

5. If you are not using New User Registration Context and want to implement real time application processing, then you must include the logic in your applications to call the Campus Identity Manager IDM interface method *provisionApp()* API in order to insert a row to the provisioning table SCC_IDM_PROVISN. This could be done, for example, from an online component.

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6. At this point, user is authenticated and the URL (containing the context) is being processed. The Gatekeeper checks the provisioning context defined in the New User Registration Context ID. At the time of delivering the New User Registration framework, only the *Auto Provisioned* option is possible. There are three possible outcomes:
    - The New User Registration Context does not exist. In such a case, the Gatekeeper responds with a HTTP 403 Forbidden response (Failed attempt - hacker).
    - The New User Registration Context does exist but the user is not provisioned to it. In such a case, the Gatekeeper responds with a HTTP 401 Unauthorized (Failed attempt - hacker).
    - The New User Registration Context does exist and the user is provisioned to it. The Gatekeeper does a lookup on the NURContext configuration table based on the supplied SCC_APPL_CONTEXT and responds with a HTTP 407 Temporary redirect (Successful attempt).
7. If the user has the appropriate security roles, the client is redirected and user is presented with the target page. If the relevant security roles have not been assigned to the user, then an error message is generated.
8. At this point, control falls within the domain of the individual application.
   Note: If an application requires further real time transaction level provisioning, then you must include a logic in the application to call the Campus Identity Manager IDM interface method *provisionTran()* API in order to insert a row to the provisioning table SCC_IDM_PROVISN. This could be done, for example, from an online component.

Developer Reference to Deploy New User Registration

Step 1: Initial Setup for New User Registration

To create user accounts, New User Registration requires two pre-defined user profiles set with the following user IDs:

- SCC_GUEST
- SCC_SS_TEMPLATE

Once created, those user profiles can be used as templates to grant your guests basic security access to your PeopleSoft system.

To be provisioned with application level security and transfer to a specific target page, the newly created user ID will need to be provisioned with a security role granting access to the Gatekeeper.

Create a role containing security access to the security objects needed for using New User Registration (e.g. Gatekeeper and Forgot Password/Forgot User ID utilities):
To create the role, use the Roles component (PeopleTools, Security, Permissions &Roles, Roles) and enter the following information:

Field	Value
Role Name	<name of your choice. E.g.'CS - NUR GateKeeper'>

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Description	<description of your choice>
Permission Lists	**[Bundle 29. Added permission list HCCPCSSA1210 - CS NUR Utilities.]** HCCPCSSA1200 - CS NUR GateKeeper. This permission list is delivered with your system. It grants security access to generic NUR objects: 1. Web library: • WEBLIB_SCC_NUR. This web library contains three functions for which the following two need to be set with Access Permissions = Full Access: ○ SCC_SS_AUTOLOGGER.FieldFormula.IScript_SCC_AutoLogger ○ SCC_SS_GATEKEEPER.FieldFormula.IScript_SCC_GateKeeper ○ SCC_SS_GATEKEEPER.FieldFormula.IScript_SCC_setPSToken The function is set with Access Permissions = No Access. 2. Page access: • Menu Name = SCC_NUR • Component Name = SCC_NUR_REG (contains the delivered sample NUR Sample login page) 3. Web services used for generic registration and authentication logic: • SCC_USERREG_AUTHENTICATION (Full Access) • SCC_USERREG_CREATEACCT (Full Access)
	HCCPCSSA1210 - CS NUR Utilities. This permission list is delivered with your system. It grants security access to optional NUR utilities such as Forgot Password and Forgot User ID: 1. Page access to the PeopleTools delivered 'Change My Password' • Menu Name = MAINTAIN_SECURITY • Component Name = CHANGE_PASSWORD 2. Web services used for the Forgot Password and the Forgot User ID utilities: • SCC_USERREG_GET_PASSWORD (Full Access) • SCC_USERREG_GET_USERID (Full Access) • SCC_USERREG_GET_PSWD_HINT (Full Access)

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	3. Component Interface:
	• SCC_NUR_EMAIL_PSWD
	  ○ Cancel – Full Access
	  ○ Find – Full Access
	  ○ Get – Full Access
	  ○ Save – Full Access
	4. Allow Password to be Emailed = 'Y' (used for the Forgot Password utility).

Create SCC_GUEST user ID:

In PeopleTools 8.5+, any anonymous inbound request originates from the ANONYMOUS node. For example, when a guest (unknown person) requests for a user ID, the user registration service operation associates the request with the ANONYMOUS node.

To enable anonymous access to Campus Solutions web services in a secure fashion, the PeopleSoft system, by default, associates all anonymous requests with a default account: SCC_GUEST. Therefore, to use New User Registration, you need to set up a default user profile that has *minimal* system access. This default user profile should be set with the User ID SCC_GUEST.

To create the SCC_GUEST account, use the User Profiles component (PeopleTools, Security, User Profiles, User Profiles) and enter the following information:

Field	**Value**
User ID	*SCC_GUEST*
Symbolic ID	<As defined for your institution>
Password	<password of your choice>
Confirm Password	<password of your choice>
Language Code	<Language of your choice>
ID Type	None
Role Name	PeopleTools and Standard Non-Page Permissions and either *CS – NUR GateKeeper* or the role name you created above to grant access to the New User Registration Gatekeeper. **Note:** The anonymous user will need access to a role that contains the permission list HCCPCSSA1210 – CS NUR Utilities. In this way, the anonymous user can use the Forgot User ID and Forgot Password utilities.

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Perform the following steps to update the ANONYMOUS Integration Broker node:

1. Access the Node Definitions page (PeopleTools, Integration Broker, Integration Setup, Nodes) and select Node Name *ANONYMOUS.*
2. In the Node Definitions tab, ensure that Node Type is set to *External*, the Default User ID is set to *SCC_GUEST*, and the Active Node and Segment Aware options are selected.
3. In the WS Security tab, enable WS-Security for this node by selecting an authentication token type (for instance *Username Token).*

Note: It is assumed that you have performed and validated all the basic Integration Broker setups prior to setting up the node. Refer to the Integration Broker PeopleBooks for information on Integration Broker gateway setup and service configuration.

Create SCC_SS_TEMPLATE User ID:
After successfully processing the user registration request, the user registration service operation creates a new account for the user. In other words, the service operation creates a PeopleTools user profile for the guest. The service operation uses the template account SCC_SS_TEMPLATE to clone its security setup and create a new account for the guest.

Create the SCC_SS_TEMPLATE account and assign any common default values that your institution wants new users to automatically receive when registering. To be authenticated to your system through New User Registration, the new user needs to have access to the Gatekeeper. Add to this user ID template the role you created above to grant access to the Gatekeeper.

To create the SCC_SS_TEMPLATE account, use the User Profiles component (PeopleTools, Security, User Profiles, User Profiles) and enter the following information:

Field	**Value**
User ID	*SCC_SS_TEMPLATE*
Symbolic ID	<As defined for your institution>
Password	<password of your choice>
Confirm Password	<password of your choice>
Language Code	<Language of your choice>
Navigator Homepage	*HCSPNAVHP*
Process Profile	*HCSPPRFL*
Primary	*HCPPALL* **Note**: Identifying a Primary Permission List is needed for personal data information getting its security information from there. For example.

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	Citizenship, Visa Permit, Demographic Data Access (DDA), and so on.
Row Security	*HCDPALL*
ID Type	None
Role Name	*Examples: PeopleSoft User*, *Standard Non-Page Permissions* and either *CS – NUR GateKeeper* or the role name you created above to grant access to the New User Registration Gatekeeper. Also, add any other roles you want to grant access your guests at the moment of registering. Note: Make sure the role names you include in this generic user ID template only grant access to basic components and security objects to access your PeopleSoft Campus Solutions system. The role names provided here are only examples.

Warning! The information given in the grid above related to *SCC_SS_TEMPLATE* role assignment and configuration are for use only in a *testing* or *demo* environment. Before migrating your transaction setup and the web services to a *production* environment, we recommend that you complete a thorough analysis of your institution's security requirements.

Also, we recommend that you allocate the SCC_SS_TEMPLATE user ID only a minimal amount of system access that is required to execute the needed web services for your self-service transactions. You define Web Services access under PeopleTools, Security, Permissions & Roles, Permission Lists, Web Services. For instance, any roles that you assign to the SCC_SS_TEMPLATE should contain at least a Permission List that has access to the following web services:

Web Services	**Service Operations**	**Access**	**Definition**
<custom services>	<custom service operations>	Full Access	Web services you created to perform your self-service transactions. For example, to perform the AAWS online application transactions, select Service 'SAD_ADMISSIONS' and select *Full Access* to each of the service operations. If you setup a transaction for Delegated Access, select Service 'SCC_DA' and select *Full Access* to each of the service operations.

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SCC_USERREG	SCC_USERREG_AUTHENTICATE SCC_USERREG_CREATEACCT	Full Access	Web services to use New User Registration and User Authentication.
SCC_LOV	SCC_GET_LOV	Full Access	Optional. Web service to use List of Values.
SCC_SM_SERVICE	SCC_SM_SERVICE_SYNC	Full Access	Optional. Grant access only if you use External Search/Match.
SCC_SM_FETCH	SCC_SM_FETCH_SYNC	Full Access	Optional. Grant access only if you use External Search/Match.

Similarly, any roles that you assign to the SCC_SS_TEMPLATE user ID template should contain at least a Permission List that has access to the following HCM component interfaces that are required to operate these services (which are used by CTM to access the HCM Person data):

- HCR_EMPLOYEE_CHECKLIST_SRV
- HCR_IDENTIFICATN_DATA_SRV
- HCR_JOB_DATA_POI_SRV
- HCR_MIL_EE_TRK_SRV
- HCR_NAMES_OTHER_SRV
- HCR_PERSONAL_DATA_SRV

Assigning *Specific* Security Roles to a User:
Because different online transactions integrated with New User Registration can have their own security needs, each online transaction can define these roles in the New User Registration Context page. Refer to the “Step 3: Defining New User Registration Contexts” subsection in this section for information on how to setup the application specific provisioning.

Step 2: Validating the CTM Transaction Delivered for New User Registration

See Setting Up CTM for New User Registration section.

Step 3: Defining New User Registration Contexts (optional)

For each of the online transactions you want to integrate with New User Registration, create a New User Registration Context ID or create a New User Registration Context ID that will serve as default.

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See Setting Up New User Registration Context section.

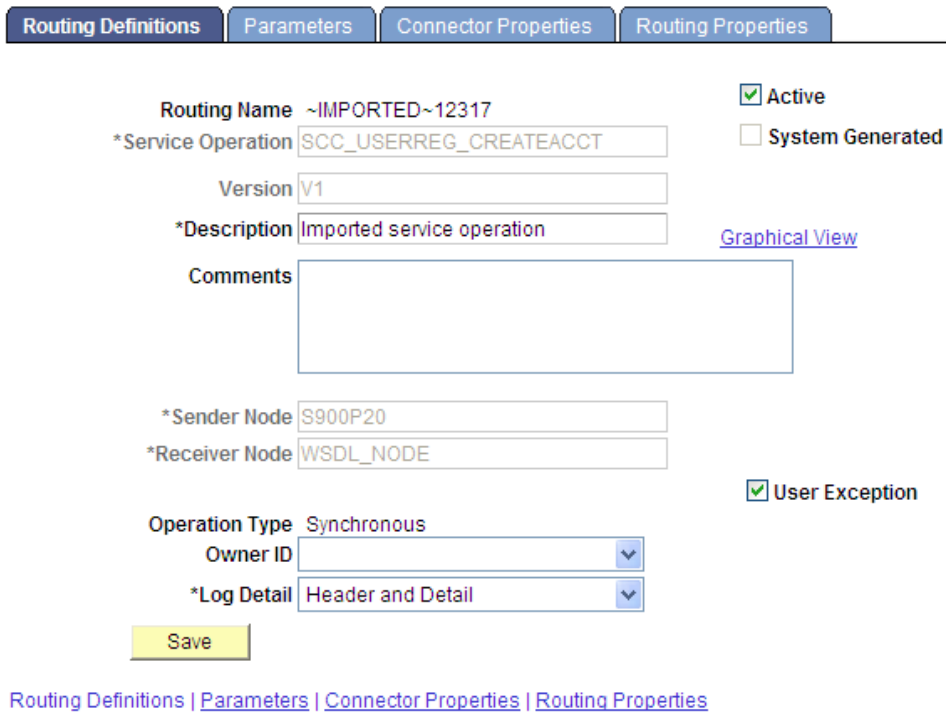
Step 4: Designing Your Registration or Login page

See New User Registration Sample User Interfaces section.

Step 5: Setting Up a Kiosk

You have to perform these setups on the database of the Kiosk:

- The User Exception check box needs to set on the Routing Definition page of the Kiosk. When the check box is selected, in case an error is encountered during processing it allows the system to capture the SOAP fault and display it. Else, when the check box is not selected the system responds with a HTTP 500 error. To access the Routing Definition page, select PeopleTools, Integration Broker, Integration Setup, Routings.



- Verify that the gateway is Active. To access the Gateways page, select PeopleTools, Integration Broker, Configuration, Gateways.

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Gateways

Gateway ID LOCAL

Inbound Gateways

☑ Local Gateway ☐ Load Balancer

URL http://your.url.com/PSIGW/PeopleSoftListeningConnector

Ping Gateway

Gateway Setup Properties

Load Gateway Connectors

Connectors

Personalize | Find | First 1-10 of 10 Last

	*Connector ID	Description	*Connector Class Name			
1	AS2TARGET		AS2TargetConnector	Properties	+	−
2	EXAMPLETARGETCONNE		ExampleTargetConnector	Properties	+	−
3	FILEOUTPUT		SimpleFileTargetConnector	Properties	+	−
4	FTPTARGET		FTPTargetConnector	Properties	+	−
5	GETMAILTARGET		GetMailTargetConnector	Properties	+	−
6	HTTPTARGET		HttpTargetConnector	Properties	+	−
7	JMSTARGET		JMSTargetConnector	Properties	+	−
8	PSFT81TARGET		ApplicationMessagingTargetConnector	Properties	+	−
9	PSFTTARGET		PeopleSoftTargetConnector	Properties	+	−
10	SMTPTARGET		SMTPTargetConnector	Properties	+	−

Press the Ping Gateway button to make sure the gateway is active. The results should show:

PeopleSoft Integration Gateway

PeopleSoft Listening Connector
Tools Version : 8.52.07
Status: ACTIVE

Note: The gateway needs to be active on both the Kiosk as well as the production environments.

- Verify that the setup target location is configured. To access the Target Locations page, select PeopleTools, Integration Broker, Configuration, Service Configuration. In the Service Configuration tab, click the Setup Target Locations link.

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Service Configuration | UDDI Configuration | Restricted Services | Exclude PSFT Auth Token

*Service Namespace: http://yoururl.oracle.com/Enterprise/HCM/services

*Schema Namespace: http://yoururl.oracle.com/Enterprise/Tools/schemas

*Service System Status: Development

☐ Enable Multi-queue

*WSDL Generation Alias Check: None

*Target Location(s) Required for Web Services

Setup Target Locations

Last Updated: PS Last Update Date/Time: 08/04/2013 3:01:29PM

Target Locations

Web Services Target Locations

*Target Location http://yoururl.oracle.com:portnumber/PSIGW/PeopleSoftServiceListeningConnector/

Example http://<machine>:<port>/PSIGW/PeopleSoftServiceListeningConnector

Alternate Example http://<machine>:<port>/PSIGW/PeopleSoftServiceListeningConnector/<defaultlocalnode>

Secure Target Location

Example https://<machine>:<port>/PSIGW/PeopleSoftServiceListeningConnector

Alternate Example https://<machine>:<port>/PSIGW/PeopleSoftServiceListeningConnector/<defaultlocalnode>

REST Services Target Locations

Target Location

Example http://<machine>:<port>/PSIGW/RESTListeningConnector

Alternate Example http://<machine>:<port>/PSIGW/RESTListeningConnector/<defaultlocalnode>

Secure Target Location

Example https://<machine>:<port>/PSIGW/RESTListeningConnector

Alternate Example https://<machine>:<port>/PSIGW/RESTListeningConnector/<defaultlocalnode>

OK Cancel

- Verify that you can ping the node. To access the Connectors page, select PeopleTools, Integration Broker, Integration Setup, Nodes, Connectors. From the Connectors page, press the Ping Node button.

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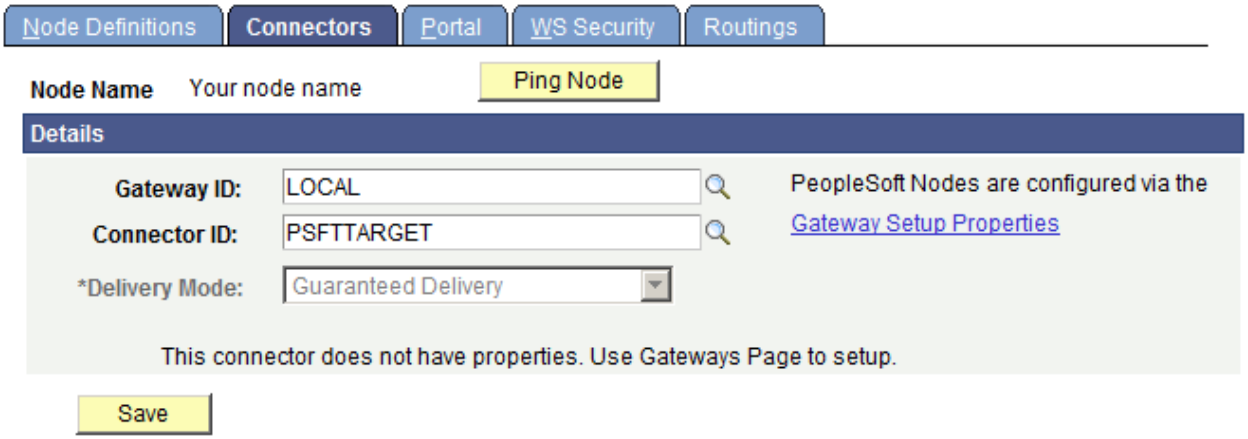
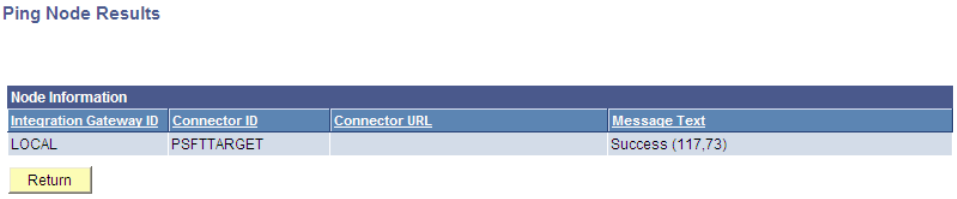
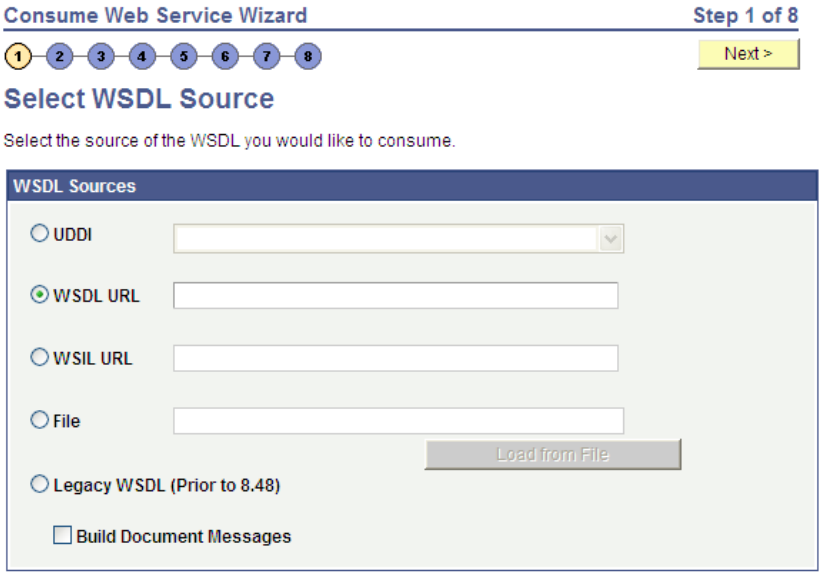


Click the Ping Node button to verify the results. Make sure Message Text shows 'Success' as shown below:



- During the the consume web services step ensure that the Build Documents Message check box is cleared. To access the Consume Web Services wizard, select PeopleTools, Integration Broker, Web Services, Consume Web Service.



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- Verify that schema exists for the imported message. To access this schema, first navigate to the General page of the service operation (PeopleTools, Integration Broker, Integration Setup, Service Operations), then click the View Message link for the message, and finally click the Schema tab.

Step 6: Ensuring that the New User Registration Web Services are Running

Use the Provide Web Service page to publish the SCC_USERREG web service (PeopleTools, Integration Broker, Web services, Provide Web Service).

New User Registration includes the following web services:

Service	Service Operations
SCC_USERREG	SCC_USERREG_AUTHENTICATE
SCC_USERREG	SCC_USERREG_CREATEACCT
SCC_USERREG	SCC_USERREG_GET_PASSWORD
SCC_USERREG	SCC_USERREG_GET_PSWD_HINT
SCC_USERREG	SCC_USERREG_GET_USERID

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See PeopleSoft Integration Broker PeopleBook for information on how a web service should be activated and functioning.

Step 7: Creating a URL to Access the New User Registration Login page

When implementing the New User Registration framework, whether you consume it from a URL in an email message, or a URL configured behind a button, a link or any other user interface elements, you will need to provide the information where your New User Registration login page is located, the Gatekeeper and optionally what New User Registration Context value should be used for the consuming application. The URL is the starting point to trigger the New User Registration framework. The location where you trigger the New User Registration framework dictates where you place the transfer link to your New User Registration login page.

Delivered with your system are New User Registration Constants that you can modify to enter specifically what information should be embedded in your URL. The New User Registration Constants are configured in the SCC_IDENTITY_MGR.UTIL.NURConstants application class.

Note: In the following table, the value "/ps/" shown in the URL refers to the portal name selected when the PeopleSoft Internet Architecture (PIA) was installed to create your database. By default this value is set to 'ps'. If the default values were accepted at database installation time, then no action is required. Otherwise, you will need to ensure you use the name defined during the PIA installation.

New User Registration Constants	Delivered value	Description
&KIOSK_HOSTNAME	"yourServer.yourDomain.com"	Used to set the Kiosk host details.
&TARGET_HOSTNAME	"yourServer.yourDomain.com"	Production host server/address needs to go here.
&AUTOLOGGER_URI	"/psp/ps/EMPLOYEE/HRMS/s/WEBLIB_SCC_NUR.SCC_SS_AUTOLOGGER.FieldFormula.IScript_SCC_AutoLogger"	Autologger location where the web library is located.
&NUR_URI	"/psc/ps/EMPLOYEE/HRMS/c/SCC_NUR.SCC_NUR_REG.GBL&cmd=start?"	NUR URI path. This is the starting page to be launched.
&PSFT_SIGNIN_URI	"/psp/ps/?cmd=login&languageCd=ENG"	Sign in page details go here.
&USE_AUTOLOGGER	True	Set to true since Kiosk needs it
&NUR_URI_TRANSFE	"/psc/ps/EMPLOYEE/HRMS/c/SCC_NUR.SCC	Used for Language links to transfer the user to the

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R	_NUR_REG.GBL&cmd=start"	content.
&GATEKEEPER_URI	"/psp/ps/EMPLOYEE/HRMS/s/WEBLIB_SCC_NUR.SCC_SS_GATEKEEPER.FieldFormula.IScript_SCC_GateKeeper/SCC_APPL_CONTXT_ID"	Gatekeeper path; this will not change.

Use the AppendContextData method contained in the SCC_IDENTITY_MGR:Sample:PeoplesoftIDMImpl application class to add the Context data XML to the Response Message.

Use the createUserV2 method contained in the SCC_IDENTITY_MGR:Sample:PeoplesoftIDMImpl application class to add the roles you want to grant access at user ID creation time. Use the PeopleTools function EncodeURLForQueryString to encode the URL exposed in the XML for security purposes. For example, for the Delegated Access feature the URL is included in the email notification sent to a proxy. The URL is created using the New User Registration constants application class and constructed inside the SCC_DA_NOTIFICATION.NOTIFY.OnExecute application class. You can use the following concatenation to create the target URL that is emailed to the delegator. You can also change this as per your requirements. Suppose the link should direct the user to the New User Registration login sample page and once successfully authenticated, automatically transfer the user to the delegated access target page (the Proxy Terms and Conditions page). For this scenario, the logic could be:

Outside firewall: &url = "http://" | &NURConst.KIOSK_HOSTNAME | &NURConst.NUR_URI | "CAMPUS_URL= http://" | &NURConst.TARGET_HOSTNAME| &GATEKEEPER_URI

Inside firewall: target hostname(&TARGET_HOSTNAME) + DA Proxy Terms and Conditions page navigation part.

In the example, you can use https:// instead of http://. To use HTTPS, you must change http:// to https:// in:

- SCC_NUR_REG.GBL.SCC_NUR_WRK.SCC_NEWUSER_BTN.FieldChange component peoplecode
- SCC_NUR_REG.GBL.SCC_NUR_WRK.SCC_CREATEUSER_BTN.FieldChange component peoplecode
- SCC_DA.NOTIFICATION.NOTIFY.OnExecute application class

The following are examples of how to construct the URL based on different implementation scenarios:

Use of a Kiosk web profile

When a Kiosk is deployed, the delivered New User Registration login sample page (or a custom variation) can be used. The New User Registration login sample page allows for a new user to either register to your system by creating a user ID and a password or a returning user by signing in with an existing user ID. After successfully authenticating, the user is optionally provisioned with some security roles needed by the New User Registration consumer and transferred to a related target page. When a Kiosk is used

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the URL is set up in New User Registration constants. Notice that since the New User Registration login sample page allows for new and existing users to authenticate, a unique URL is needed. The URL needs to be constructed as follows:

kiosk url (&KIOSK_HOSTNAME)+ target hostname(&TARGET_HOSTNAME) + Gatekeeper (&AUTOLOGGER_URI)

Example:
http://yourServer.yourDomain.com/psp/ps/EMPLOYEE/HRMS/c/SAD_OLA_MENU.SAD_NUR_DEMO.GBL&cmd=start?CAMPUS_URL=
http%3a%2f%2fyourServer.yourDomain.com%2fpsp%2fps%2fEMPLOYEE%2fHRMS%2fs%2fWEBLIB_SCC_NUR.SCC_SS_GATEKEEPER.FieldFormula.IScript_SCC_GateKeeper%3fSCC_APPL_CONTXT_ID%3d SCC_NURCTXT_20120827160226

The first portion of the URL relates to your Kiosk location:
http://yourServer.yourDomain.com/psp/ps/EMPLOYEE/HRMS/c/SAD_OLA_MENU.SAD_NUR_DEMO.GBL&cmd=start?

The second portion of the URL relates to the Gatekeeper and to the New User Registration Context:
CAMPUS_URL=
http%3a%2f%2fyourServer.yourDomain.com%2fpsp%2fps%2fEMPLOYEE%2fHRMS%2fs%2fWEBLIB_SCC_NUR.SCC_SS_GATEKEEPER.FieldFormula.IScript_SCC_GateKeeper%3fSCC_APPL_CONTXT_ID%3d SCC_NURCTXT_20120827160226

Note: The CAMPUS_URL is simply a URL that points to the Gatekeeper with the New User Registration Context (SCC_APPL_CONTEXT) identified.

All external intranet users should be forced through the Gatekeeper as a point of control. This will help institutions to more accurately configure their firewalls also (for example, allow firewall pass through to one very specific Gatekeeper URL for all self-service users)

Note: Embedding the URL with a New User Registration Context is optional. When none is passed, the system retrieves the New User Registration Context you marked as *default*.

Use of a PROD web profile

In this case a Kiosk is not deployed and users, after successfully authenticating, are directly transferred to the self-service transactions. In this case you would need two distinct URLs: one for the new users and one for the existing users (returning users). Notice that the returning users will need to have proper security provisioned in order to have access to the target page. Refer to “Step 8: Provisioning the Gatekeeper Permission List to all of Your Users” subsection in this section.

For example, if you know that the users who will trigger the URL to access your login page will already have a user ID created, you may want to use a URL that transfers to a login page that does not offer the option to create a new user.

Example:
http://yourServer.yourDomain.com/psp/ps/EMPLOYEE/HRMS/s/WEBLIB_SCC_NUR.SCC_SS_GATEKE

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EPER.FieldFormula.IScript_SCC_GateKeeper?SCC_APPL_CONTEXT=SCC_NURCTXT_20120709222439&cmd=login.

In this case PeopleTools will intercept the transfer and present the regular login page for the user to sign in.

If the New User Registration consumer knows that the user will need to create a new User ID, then the system will still need to transfer the user to a login page where he/she will have the choice of creating or reusing a User ID.

Custom New User Registration solution

Depending on how you configured your login page and how your institution does security management construct the URL to allow a user to register and authenticate to your system.

See Understanding Web Profiles in the Configuring the Portal Environment chapter of the PeopleTools Portal Technology PeopleBook.

See New User Registration Context in the Understanding New User Registration section.

See also Details of an iScript URL in the PeopleCode API Reference PeopleBook, Internet Script Classes (iScript) chapter.

Warning! The application classes and PeopleCode logic used by the New User Registration framework construct URLs using **http://**. If you want secure communication over your computer network, you must replace it with **https://** (Hypertext Transfer Protocol Secure). The following is a list of places you will need to make the appropriate changes:

- SCC_NUR_REG.GBL.SCC_NUR_WRK.SCC_NEWUSER_BTN.FieldChange component peoplecode
- SCC_NUR_REG.GBL.SCC_NUR_WRK.SCC_CREATEUSER_BTN.FieldChange component peoplecode
- SCC_DA.NOTIFICATION.NOTIFY.OnExecute application class

Step 8: Provisioning the Gatekeeper Permission List to all of Your Users

Delivered with your system is the permission list HCCPCSSA1200 - CS NUR GateKeeper. Access to the Gatekeeper is included in this permission list. Add this permission list to a role that you want to assign to all of your users that could potentially register with your system through a New User Registration login page. For example, students, alumni, applicants, and so on.

The HCCPCSSA1200 permission list grants access to the web library WEBLIB_SCC_NUR as shown below:

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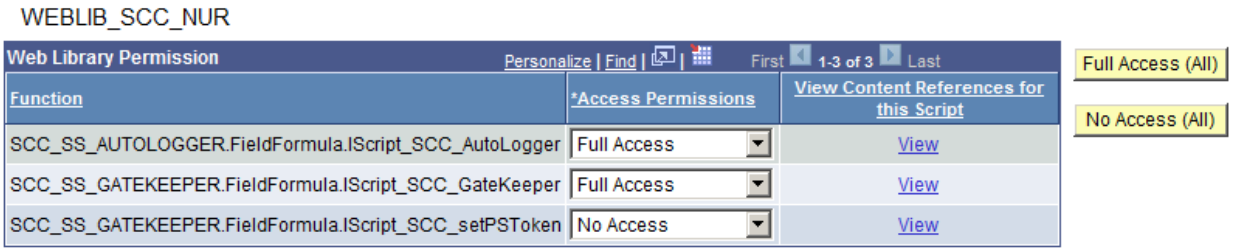
The web library grants access to the following permissions:

Weblib Permissions



For your existing users to have access to the Gatekeeper, add the HCCPCSSA1200 permission list to one of your roles that you provision to all your users. Having security to the Gatekeeper will allow your existing users to sign in through New User Registration login page with an existing user ID/password combination and take advantage of the Gatekeeper functions (automatic application level provisioning and page transfer after successfully signing into your system). If a user doesn't have access to the Gatekeeper, the following error will be returned after being authenticated: *Not Authorized*

If you also implement the New User Registration Forgot Password and Forgot User ID utilities, your existing users will also need to have access to the HCCPCSSA1210 permission list. This permission list grants access to the web services needed for the two utilities:

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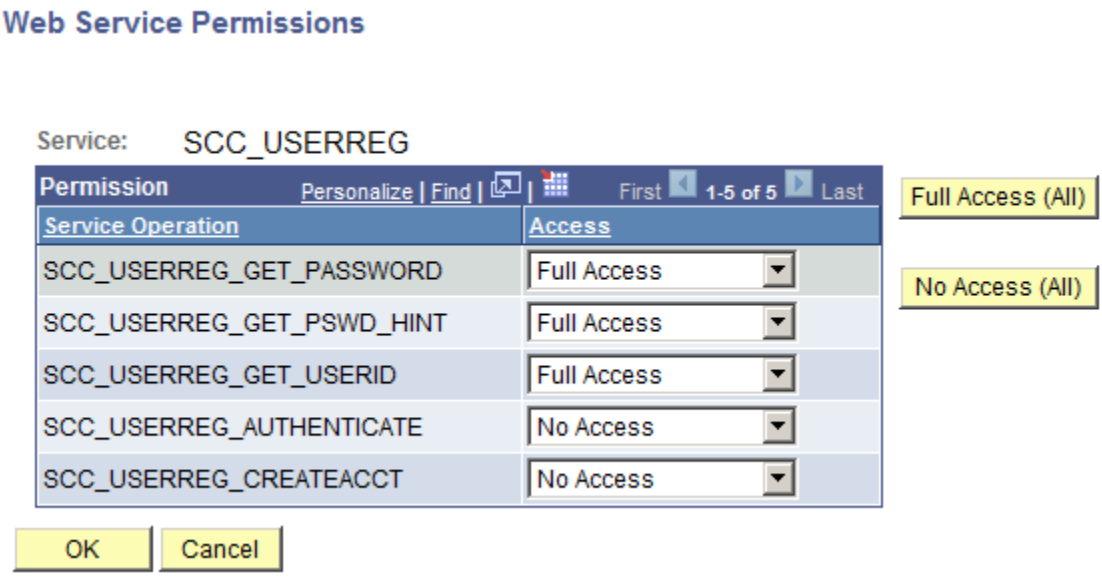

For the guest users, create a new role that will exclusively contain the HCCPCSSA1200 permission list. If you also implement the New User Registration Forgot Password and Forgot User ID utilities, also include the HCCPCSSA1210 permission list. Add this role to the SCC_SS_TEMPLATE user ID. By default, the guest will be provisioned with all security setup inside that user ID. Refer to the "Step 1: Initial Setup for New User Registration" subsection for more information on how to create the SCC_SS_TEMPLATE user ID.

Step 9: Configuring the Forgot User ID Utility

[Bundle 29. New]

To configure the Forgot User ID Utility:

- Store email addresses in the PSOPRDEFN.EMAILID and PSUSEREMAIL.EMAILID records where PRIMARY_EMAIL = 'Y'.

  To take advantage of the Forgot User ID utility, your users need to have an email address stored in their user profile. In order to return the correct user ID value, the user who has forgotten his or her user ID is asked to provide an email address. This email address must match one and only one user profile stored in your system. The Forgot User ID utility requires the user to have an email address stored in his or her user profile. See the Setting General User Profile Attributes section in the PeopleTools Security PeopleBook for more information about the email address stored in the user profile.

  Note: To take advantage of the Forgot User ID utility, all your existing users must have an email address stored in their user profile. Users created through the New User Registration login page are required to enter an email address. This email address is automatically stored in the newly created user profile. The email address needs to be populated in the records PSOPRDEFN.EMAILID and PSUSEREMAIL.EMAILID with an email type (EMAILTYPE field) and the PRIMARY_EMAIL field needs to be checked.

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- Set up the Notifications Framework.

    1. If necessary to reflect your needs, set up the generic template NUR_EMAIL_OPRID. Delivered with your system is the generic template NUR_EMAIL_OPRID that is configured for the Forgot User ID email message. You can modify the text of this template. To set up the template, go to PeopleTools, Workflow, Notifications, Generic Templates.

        See the Notifications Framework and New User Registration section for information on the email template.

    2. Verify the notification setup and the email recipients for the generic template. This setup is delivered with your system as sample data (Notification Template ID SCC_NTF_TMP_20130213051038 – NUR_EMAIL_OPRID). To view the setup, go to Set up SACR, System Administration, Utilities, Notifications, Notification Setup.

    3. Verify the setup for the notification consumer for New User Registration. This is also delivered with your system as sample data (Notification Consumer ID SCC_NTF_CON_20121212000832 – New User Registration). To view the setup, go to: Set up SACR, System Administration, Utilities, Notifications, Notification Consumer Setup.

        See “Setting Up and Consuming the Notifications Framework” in the Working with the Notifications Framework chapter, Bundle 29 Campus Community package.

- Grant all users access to a permission list that is set up to grant access to the Forgot My User ID page. See “Step 1: Initial Setup for New User Registration.”

Step 10: Configuring the Forgot Password Utility

[Bundle 29. New]

To configure the Forgot Password Utility:

- Store email addresses in the PSOPRDEFN.EMAILID and PSUSEREMAIL.EMAILID records where PRIMARY_EMAIL = ‘Y’.

    The New User Registration Forgot Password utility leverages the PeopleTools security function for forgotten passwords. This function uses the PeopleTools Workflow and requires the user to have an email address stored inside his or her user profile. That is inside the General tab of the user’s user profile, through the Edit Email Address link.

    See the Setting General User Profile Attributes section in the PeopleTools Security PeopleBook for more information about the email address stored in the user profile.

    Note: To take advantage of the Forgot Password utility, all your existing users must have an email address stored in their user profile. Users created through the New User Registration login page are required to enter an email address. This email address is automatically stored in the newly created user profile. The email address needs to be populated in the records

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PSOPRDEFN.EMAILID and PSUSEREMAIL.EMAILID with an email type (EMAILTYPE field) and the PRIMARY_EMAIL field needs to be checked.

- Create password hint questions.

  To use the Forgot Password utility, your users need to answer a security question or password hint question. To create password hint questions, go to PeopleTools, Security, Password Configuration, Forgot Password Hint.

  See Creating Hints for Forgot Passwords in PeopleTools Peoplebook Security Administration.

- Set up the Forgot Password email text.

  When the user initiates the Forgot Password utility and successfully answers the security question, an email message is sent to the email address. It includes a newly generated password. You can configure the email message text by going to Peopletools, Security, Password Configuration, Forgot Password Email text.

  The email text must include the <<%PASSWORD>> tag. PeopleTools replaces it with the newly generated password. To facilitate user experience, it is recommended that you also include a URL that will transfer the user automatically to the New User Registration sample login page (or your own version of this page). This forces the user to immediately change the newly received password. To do this, embed the following information in the URL:

  - Content reference to the NUR log-in page.
  - Gatekeeper information
  - NUR Context ID set to transfer the user to the PeopleTools “Change Password” as a target page. Delivered with your system is the New User Registration Context ID SCC_NURCTXT_20130211110717 - NUR_CHANGE_PASSWORD configured to provision access to this page and transfer the user to it.

  This is an example of an email message text:

  "You are receiving this auto-generated email message because you requested your Campus Solutions password to be reset. Use the following temporary password: <<%PASSWORD>>*.*

  Click this link or copy the below URL to access the system with your newly generated password. You will be requested to change the temporary password immediately.”

  http://yourServer.yourDomain.com/psp/ps/EMPLOYEE/HRMS/s/WEBLIB_SCC_NUR.SCC_SS_GATEKEEPER.FieldFormula.IScript_SCC_GateKeeper?SCC_APPL_CONTEXT=SCC_NURCTXT_20130211110717”.

  For more information about creating email text for forgotten passwords, see Working with Passwords in the PeopleTools Security Administration PeopleBook.

- Grant all your users access to a self-service page where they can respond to a security question.

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Delivered with your system with the generic PeopleTools security a self-service user can answer is a security question under Home page, My System Profile. In the General Profile Information page (USER_SELF_SERVICE), by clicking the link Change or set up forgotten password help, the user can select a question and enter a response. This page is delivered with your system and security needs to be granted to all of your users. Alternatively, a simpler self-service version of this page could be created.

See Step 7: Creating a URL to Access the New User Registration Login page for information about other New User Registration constants.

- Configure the Forget My Password page.

  This is a delivered custom version of the Tools page EMAIL_PSWD as public.

  See PeopleTools 8.52: Security Administration, Working with User Profiles Across Multiple PeopleSoft Databases, Implementing Default User Profile Synchronization.

- Create the URL you include in the forgotten password email text.

  After taking advantage of the Forgot Password utility, the user receives an email message containing the newly generated password. In this email message, it is recommended that you include a URL to access the New User Registration login page. Use this page to force the user to reset the temporary password he or she received. After the user logs in with his or her temporary password, the user should be automatically redirected to the Change Password page. For the URL to be functionally appropriate, make sure you set up the host or kiosk information. Also, set up the values for the following New User Registration constants that are in the application class SCC_IDENTITY_MGR:UTIL:NURConstants.

  - &TARGET_HOSTNAME: Set up the URL of your server where you are running your PeopleSoft Campus Solution application using the form:

    <ServerName>.<DomainName>.com(yourServer.yourDomain.com).

  - &KIOSK_HOSTNAME: Set up the URL of your server where you are running the KIOSK web profile using the form:

    <ServerName>.<DomainName>.com (yourServer.yourDomain.com).

  See Step 7: Creating a URL to Access the New User Registration Login page for information about other New User Registration constants.

- Make sure you grant all your users access to a permission list set up with Allow Password to be Emailed and Forgot My Password.

  See “Step 1: Initial Setup for New User Registration” for information about the permission lists.

- Set up the New User Registration Context ID for the Change My Password page, or use the delivered SCC_NURCTXT_20130211110717 - NUR_CHANGE_PASSWORD context ID.

- Set the PeopleTools Workflow to activate email.

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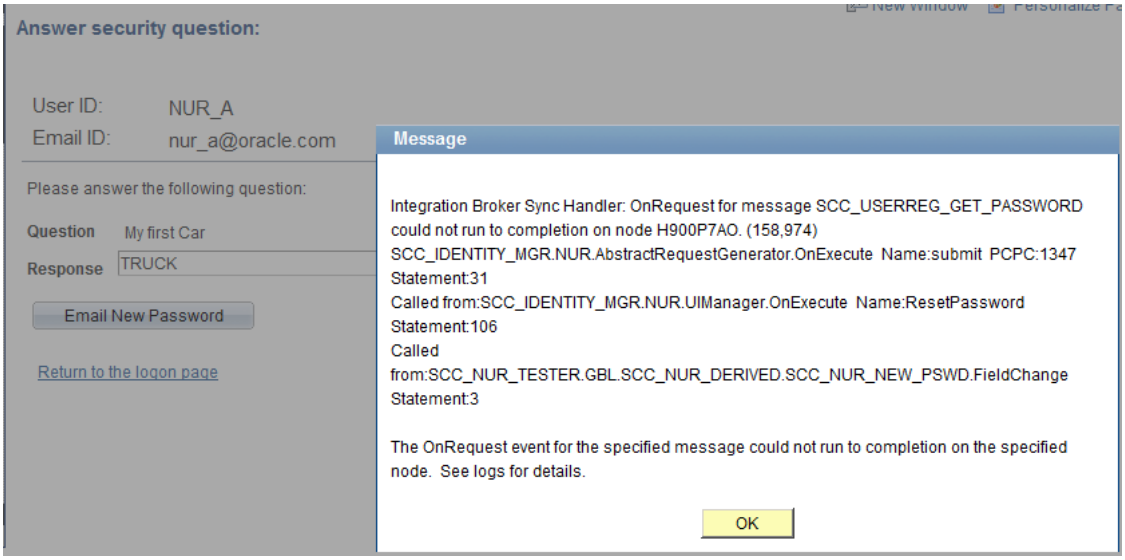
The New User Registration Forgot Password utility leverages the PeopleTools send password functionality. Since this functionality uses the PeopleTools Workflow, the following setup is required:

Go to PeopleTools > Workflow > Defaults & Messages > Set Workflow Defaults. In the Worklist System Defaults page > System Wide Route Processing, make sure the Worklists Active and the Email Active checkboxes are selected. Reboot the application server for the changes to take effect.

Troubleshooting New User Registration

- Ensure that the service operations created for the consuming self-service transactions and the service operations delivered with the New User Registration framework are configured with Full Access security. To do so, access the General page (PeopleTools, Integration Broker, Integration Setup, Service Operations, General) for the desired service operation. Click the Service Operation Security link and make sure the permission lists used inside SCC_SS_TEMPLATE have Full Access.

- If you use the New User Registration Forgot Password utility and you see the following Integration Broker error, it means your user does not have access to a permission list set to 'Allow Password to be Emailed = 'Y':



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