

# HP OpenView Select Identity

Software Version: 4.12

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## New Information

Document Release Date: March 2007  
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- Java API for XML Processing from the Apache XML Project

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# New Information

This addendum delivers information about Select Identity that became available after the product documentation was completed and immediately prior to actual release of the product. An addendum is provided as needed to accompany the documentation for a specific product release.

This addendum is specific to Select Identity version 4.12.

The content in this addendum is intended for more than one type of reader. Some of the sections provide a use-context overview, for instance, while others provide technical detail intended for developers.

In general, this information will be incorporated into the appropriate parts of the product documentation during the next available release cycle.

This addendum contains the following sections:

- [Documentation Updates and Corrections](#)
- [Attribute Validation API Enhancement](#)
- [Request Dependency Enhancements](#)
- [Service Search in My Identity](#)
- [Linked Secondary User Registration](#)

## Documentation Updates and Corrections

This section provides corrected and updated information discovered after the last release of the documentation item in which the information would normally appear.

### Deleting or Modifying User Accounts on a Composite Service

This information will be added to a future revision of the *HP OpenView Select Identity Online Help for Administration*.

You cannot delete or modify user accounts on a composite service. This is because the composite service feature is a grouping mechanism for services, but does not directly take up the membership list for the grouped service; instead user accounts are added to each service as a result of being added to the composite.

To delete or modify user accounts on a composite service, you must perform these operations on member services individually.

## Workflow External Calls Documentation Correction

This update will be added to the next available release of the *HP OpenView Select Identity External Calls Guide*.

Page eleven of this guide includes the following statement about the **WfExternalCall** interface:

*External calls invoked by workflow instances must implement this interface. It provides the contract between Select Identity and an external stage in a workflow. Select Identity can invoke classes that implement this interface to perform actions in a workflow. This class returns a collection of approvers.*

The last sentence in this statement is incorrect. Callouts to the **WfExternalCall** interface do *not* return a collection of approvers.

A class that implements the **WfExternalCall** interface has no method to return a collection of approvers. It only returns the following values:

```
'java.util.Map params':  
WF_COMMON_ATTRS  
WF_PARAM_ADMINUSERID  
WF_PARAM_REQUESTID  
WF_PARAM_SERVICENAME  
WF_PARAM_WORKFLOWINSTID
```

You can use the values above in the method `WfExternalCallStatus()`.

To return a collection of approvers, use the **WfSelectApproverIntf** interface. This is reflected in JavaDoc, as follows:

```
java.util.Collection getApprover(RequestTarget reqTarget,  
java.util.HashMap attrs)
```

Select Identity calls this function to get an approver.

## Attribute Validation API Enhancement

This section describes an enhancement to the attribute value validation functionality at the API level and is therefore supplemental to the developer-level information provided in the *HP OpenView Select Identity External Calls Guide*.

### Custom Value Validation Logic

This section provides a high-level use-context summary of the attribute validation enhancement.

Select Identity supports the **TAValueValidationIntf** interface as a mechanism for custom value validation logic. This is accomplished by implementing this interface and registering the implementation using the external call user interface as documented in the *Select Identity Online Help for Administration* and then attaching it to an attribute.

Select Identity calls this implementation during the attribute value validation process. The system sends only the current value or values of an attribute with basic information such as `UserName`, `BizKey`, and `GUID`.



The enhancement in Release 4.12 enables the request broker to pass the `requestTarget` to the external system.

When adding a new user, `requestTarget` retains all attribute values. However, for other request types, `requestTarget` retains only modified values. The external call may therefore be required to query the Select Identity database for any other value if needed.

The validation call can retrieve `requestTarget` from the `maps` argument by using the `HPSIRequestTarget` constant.

```
RequestTarget reqTarget = (RequestTarget )
args.get("HPSIRequestTarget");
```

Any validation error from the external call will be displayed in the drop-down list on the top of the page.

## SampleEmailValidation External Call

This sample external call validates the value of the `Email` attribute against the following format:

```
<FirstName>.<LastName>@<company>.com
```

### Purpose

The purpose of this external call is to demonstrate that more than one attribute on the form can be used to validate an attribute using the attribute value validation external call function.

The attribute value validation external call has access to a new `RequestTarget` object passed in as a parameter to the validation external call. The `RequestTarget` object can be accessed from the collection using the following key:

```
PARAM_REQUEST_TARGET
```

This external call expects the following attributes to be defined in the service. The `Email` attribute listed below is the system-defined attribute, and therefore its name is fixed:

- `FirstName`
- `LastName`
- `Email`
- `Company`

The external call performs the following validations on these attribute values. Validation exceptions are reported in the following format:

- `RequestTarget` contains the following attribute values:
  - `FirstName`
  - `LastName`
  - `Email`
  - `Company`
- `Email` attribute value adheres to the following format:  
`FirstName.LastName@company.com`
- Validate that the values of the `Firstname` and `Lastname` attributes from the request target are present in the email address (`Email`). Comparisons are not case-sensitive.

## External Call Setup Procedure

To set up the `SampleEmailValidation` external call, perform the following steps:

- 1 Copy the external call `.jar` file to the Web application server directory where `.jar` files are stored for Select Identity use. (This should be a shared file system folder in the case of an installation on a cluster).
- 2 Register the external call using the following information:  
**Classname:** `com.hp.ovsi.extcall.validation.SampleEmailValidation`  
**Call Type:** `AttributeValueValidation`  
**Class Path:** Directory path to the `.jar` file that contains the external call

## Request Dependency Enhancements

Request dependency processing or sterilization was initially introduced in Select Identity 4.x releases. The feature processes requests in order of arrival at the parent request level, unlike in previous releases where requests for a given user were processed in random order.

Request dependency was implemented to avoid conflicts of values between requests submitted for the same user.

### Disabling and Re-Enabling Request Dependency

By default request dependency is enabled unless the following property is set to `true` in the `TruAccess.properties` file:

```
hp.si.delegated.request.nodependency
```

### Enhancements in Release 4.12

The following enhancements are implemented in release 4.12:

- Service requests are not dependent on approvals for other service requests. This functionality is now the same as was found in Version 3.3.1.
- Serial processing of multiple requests must wait on pending requests before the next request starts executing.
- User account termination requests do not wait behind previous requests for the same user account. The system processes them immediately upon arrival.
- Password reset or change requests are processed immediately.
- If an **AddNewUser** request is pending, the system rejects subsequent attempts to add the user to the same service.

## Service Search in My Identity

This section provides an end-user summary of changes to the Select Identity My Identity self-service features. Additional technical detail is provided in the second part of the section.

Self-service users can request additional service subscriptions via the Select Identity **My Identity** tab. In earlier releases, all unsubscribed services are available for self-service subscription requests.

Release 4.12 enhances the self-service subscription request feature by providing a list of available services that has been filtered to eliminate unavailable or unnecessary entries from the service search results listed. Self-service requests for service membership only offer selections that match the following criteria:

- The user is not subscribed to the service at the time of the request submittal.
- The service is configured to enable self-service subscription requests.

### Technical Detail

The enhancement uses request event setup in the root service role in the case of the My Identity **Subscribe to Service** action. This action considers the **Self-AddNewUser** event.

If the service role on the root service (at a minimum) is configured to enable the **Self-AddNewUser** event and the user is not subscribed to the service, then the service is displayed during service search in the **Subscribe to Service** action on the **My Identity** tab.

## Linked Secondary User Registration

Select Identity provides the add account capability on the **Service Subscription** page to add a new secondary user account to an existing normal or primary account.

This section summarizes a customized implementation of this capability that provides linked secondary user service registration. The summary is followed by additional technical detail about the custom external call and workflow template on which the enhancement is based.

### AddSecondaryUser ExternalCall

The `AddSecondaryUser` external call is included in release 4.12 to support linked secondary user registration.

This external call provisions a new secondary account when subscribing an existing user to a new service using delegated or self-service **AddNewUser** events. This external call does not add the current user account to the service; it creates a new secondary user account and designates the existing account as the primary user.

Linked secondary user registration is a custom external call derived from the **AddSecondaryUser** extension. Linked secondary user registration creates a secondary account for an existing user, and assigns the secondary account to any service, without restriction to those listed in the Service Subscription page.

The purpose of this external call is to intercept each subscribe-to-service request and convert it to a new secondary user account creation request combined with an **AddNewUser** event.

The Linked secondary user registration external call spawns a sub-workflow that provisions the new secondary user account with its service membership set to the current service in the subscribe-to-service event.

The user account on which the request was originated is converted to a primary account (if it is a normal account) and the new secondary account is linked with the converted primary account.

## Limitations

This section briefly describes the functional limitations of this implementation of linked secondary user registration.

### Limited Service Selection From Service Subscription Page

A new secondary account can only be assigned to the services displayed on the **Service Subscription** page for the current user. Consequently, the new secondary account cannot be assigned to a service that is not already listed on the **Service Subscription** page for the current user.

This limitation exists only when adding a new secondary user account (an **AddAccount** request) from the browser interface. **AddAccount** requests originated via Web services or during bulk add or reconciliation operations, are not affected by this limitation.

### Multiple Service Registrations by a Single User

This external call does not prevent a single user from registering for the same service multiple times. In this case multiple secondary account will be created.

### Primary User Service Assignment

Do not use this external call to assign services to a primary user, because it converts the subscribe-to-service request into a secondary account registration request, and therefore creates an unwanted secondary account for the primary user.

## Sample Workflow

A sample workflow template, named **AddSecUserWorkFlow** is provided in Select Identity release 4.12 with the Linked secondary user registration external call. This template is available in Select Identity along with other default workflow templates.

The workflow template is included in the following `.jar` file:

```
Workflow+Template_AddSecUserWorkFlow_20070226233751.xml
```

This sample workflow is associated with the **AddSecondaryUser** external call. It does not define provisioning or post-provisioning blocks, because it leaves the existing user account unchanged and provisions a new secondary account onto the target service.

Use the **AddSecondaryUser** external call in the sample workflow to intercept delegated or self-add-service events and convert them to linked secondary user registration requests.

### Linked Secondary User Account Creation Workflow Process

Use this external call only when a new secondary account needs to be created for each new service subscription request.

To create a linked secondary user registration account using the **AddSecondaryUser** external call, perform the following steps:

- 1 Register the **AddSecondaryUser** external call in the Select Identity browser interface. The external call does not require any parameters.
- 2 Select a service for which linked secondary account registration is required.
- 3 Define delegated add to service and/or self add to service events for the selected service by mapping these events to the sample workflow.
- 4 Associate the **User Generation** function with the **UserName** attribute.
- 5 Log on to Select Identity as a delegated administrator or end user.
- 6 In the case of a delegated administrator, subscribe any existing user account to the service you selected in [step 2](#).
- 7 In the case of an end user, subscribe to the service identified in [step 2](#) using the My Identity self-registration page.
- 8 Select Identity creates a new subscribe-to-service request. Make a note of the request ID. This workflow instance invokes the **AddSecondaryUser** external call to create a secondary account on the service identified in [step 2](#) by spawning a new workflow.
- 9 Check the status for the request ID that you noted in [step 8](#).

## Documentation References

Use following documentation references for appropriate technical and administrative user context:

- For technical information about external calls, refer to the *HP OpenView Select Identity External Calls Guide*.
- For administrator-oriented information about external calls and workflows, refer to the *HP OpenView Select Identity Online Help for Administration*.
- For technical information about workflows and workflow templates, refer to the *HP OpenView Select Identity Online Help for Workflow Studio*.

## Existing Secondary Account Validation

The `AddSecondaryUser` external call does not check or validate how many secondary accounts exist for the given user on the subscribed service. However, the external call can be modified to perform this validation.

## Preventing Superfluous Account Creation in Reconciliation Workflows

Do not use any service that uses this external call in any workflow **Add-to-Service** block .

If you attach a service associated with this external call to an **Add-to-Service** block in a reconciliation workflow, an additional secondary account will be created.

To prevent additional secondary account creation in reconciliation workflows, perform the following steps:

- 1 Modify the external call code to reuse the `GUID` value from the original `requestTarget`.

- 2 Change the request event type of the secondary user creation request to `ADD-SERVICE`.
- 3 Pass the `UserName` attribute as a parameter to the `AddSecondaryUser` external call.

## Add SecondaryUser External Call Setup Procedure

To set up the `AddSecondaryUser` external call, perform the following steps:

- 1 Copy the external call `jar` file to the appropriate location under the Select Identity installation directory on the Application Server (this will be a shared file system folder in the case of a cluster).
- 2 Register the external call using the following information:

**Classname:** `com.hp.ovsi.extcall.wfexternalcall.AddSecondaryUser`

**Classpath:** Directory path to the `.jar` file containing this external call

**Call Type:** `WorkflowExternalCall`

For more information about how to set up external calls, refer to the *HP OpenView Select Identity External Calls Guide*.