

# HP OpenView Select Identity

## Web Service Developer Guide

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- Commons-beanutils.
- Commons-collections.
- Commons-logging.
- Commons-digester.
- Commons-httpclient.

- Element Construction Set (ecs).
- Jakarta-poi.
- Jakarta-regexp.
- Logging Services (log4j).

Additional third party software used by Select Identity includes:

- JasperReports developed by SourceForge.
- iText (for JasperReports) developed by SourceForge.
- BeanShell.
- Xalan from the Apache XML Project.
- Xerces from the Apache XML Project.
- Java API for XML Processing from the Apache XML Project.
- SOAP developed by the Apache Software Foundation.
- JavaMail from SUN Reference Implementation.
- Java Secure Socket Extension (JSSE) from SUN Reference Implementation.
- Java Cryptography Extension (JCE) from SUN Reference Implementation.
- JavaBeans Activation Framework (JAF) from SUN Reference Implementation.
- OpenSPML Toolkit from OpenSPML.org.
- JGraph developed by JGraph.
- Hibernate from Hibernate.org.
- BouncyCastle engine for keystore management, bouncycastle.org.

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# Introduction

HP OpenView Select Identity provides the ability to provision users in repositories. Using the Web Service, you can programmatically provision users in Select Identity. Consider the following example:

Company X's Human Resources department relies on an enterprise resource planning (ERP) application to manage employees. When a new employee is hired, the HR department adds the employee to the system. However, the new hire will need email and network accounts and access to the systems on which he will fulfill his job responsibilities. The Select Identity Web Service enables you to automate the ERP application to send a request to provision the user. Then, Select Identity can create the necessary accounts and access privileges on Company X's systems according to the services defined for the user.

The Web Service enables you to programmatically perform the following operations:

- User provisioning
  - Most of the user operations provided by the Users home page of the Select Identity client can be performed using the Select Identity Web Service. These operations are initiated from an external source and the changes are made in Select Identity. Here is a list of supported operations:
    - Add a user
    - Enable a user

- Modify user attributes (except passwords) and entitlements
- Delete a user
- Retrieve a user profile
- Enable or disable service membership
- Reset or change a user's password
- Terminate a user
- Password synchronization

Using the Web Service, you can change a user's password on a resource then synchronize with Select Identity to change the password stored in the Select Identity repository. This is called reverse synchronization. This enables a resource to push user information to Select Identity. The agent (provided by a two-way connector) on the resource tracks changes made on the resource and synchronizes with Select Identity.

Rules identify the Services that are affected when a reverse synchronization operation is issued based on the resource ID sent by the resource. Rules also specify the location of the reverse mapping that should to be performed for add and modify operations, such as NT Domain Resource -> ntuser.properties. Thus, reverse synchronization can be performed only for those services with specified rules a mapping for the incoming resource ID. If rules or the mapping does not exist, the request is logged and ignored.

- Reconciliation

The Web Service also enables an external resource to issue a reconciliation request. Thus, the resource can issue a reconciliation request, sending the data to add or update in Select Identity. Through reconciliation, the following operations can be performed using the Web Service:

  - Add a user, if the resource is authoritative
  - Add attributes to an existing user, if the resource is non-authoritative
  - Modify a user
  - Delete a user

These operations can be performed singularly or in a batch. For in-depth information about reconciliation and authoritative versus non-authoritative resources, refer to the *HP OpenView Select Identity Administrator Guide*.



## Issuing Requests

External systems can send Simple Object Access Protocol (SOAP) messages to Select Identity for user provisioning, to which the Web Service will send a response. Then, Select Identity can push the users to the appropriate resources as defined by the services assigned to the users. The Web Service was implemented according to the OASIS Service Provisioning Markup Language (SPML) specification, which defines concepts, operations, and the XML schema for an XML-based provisioning request and response protocol. Refer to the specification for details about all standard elements and attributes.

To issue requests to Select Identity in order to provision users and synchronize data, the external system must send a SOAP message containing a SPML request. The request must be sent to the following URL:

***`http://select_identity_host:port/lmz/webservice/`***

Refer to the online help on the Select Identity CD (in the `docs/api_help/web_service/help` directory) for a client example that issues a request and handles responses.

## Elements Implemented by the Web Service

The following elements are implemented and, where possible, extended by Select Identity:

- **<addRequest>**
- **<deleteRequest>**
- **<extendedRequest>**
- **<modifyRequest>**
- **<searchRequest>**
- **<batchRequest>**

Refer to the online help provided on the Select Identity CD (in the `docs/api_help/web_service/help` directory) for information about each of these elements. Also, sample XML files are provided to illustrate how to use these

elements; refer to the SampleXML/Web Service and SampleXML/Reconciliation/Web Service directories on the CD.

## External Authentication of Requests

In addition to authentication by the Select Identity server, SPML requests sent to the Select Identity Web Service can be authenticated by a Windows Active Directory LDAP server. If you wish to authenticate requests this way, complete the steps in the following procedure:

- 1 Create a user on the LDAP server that has the same credentials (user name and password) as those of the Select Identity user that is authenticated (such as the **sis** account).
- 2 Modify the `TruAccess.properties` file on the Select Identity server to uncomment (remove the leading # characters) from the following lines:

```
#com.hp.si.webservice.auth.resource=ldap
#com.hp.si.webservice.auth.ldap.accessurl=ldap://localhost:389
#com.hp.si.webservice.auth.ldap.uidattr=uid
#com.hp.si.webservice.auth.ldap.suffix=ou=People,
  dc=trulogica,dc=com
#com.hp.si.webservice.auth.ldap.needsssl=false
```

3 Change these properties as follows:

Property	Value
<code>com.hp.si.webservice.auth.ldap.accessurl</code>	The URL of the Active Directory LDAP server.
<code>com.hp.si.webservice.auth.ldap.uidattr</code>	The name of the key attribute for users.
<code>com.hp.si.webservice.auth.ldap.suffix</code>	<p>The suffix of the DN for the administrative account created for Select Identity. This account must be the same as the one used for Select Identity authentication.</p> <p>For example, if you create a user with this DN:</p> <p><code>Cn=sisas,ou=Users,dc=amegy,dc=com</code></p> <p>The suffix is <code>ou=Users,dc=amegy,dc=com..</code></p>

Here is an example:

```
com.hp.si.webservice.auth.resource=ldap
com.hp.si.webservice.auth.ldap.accessurl=
  ldap://ad-server-ip:389
com.hp.si.webservice.auth.ldap.uidattr=cn
com.hp.si.webservice.auth.ldap.suffix=ou=users,dc=amegy,dc=com
com.hp.si.webservice.auth.ldap.needssl=false
```

4 Save and close the `TruAccess.properties` file.

# Product Documentation

The Select Identity product documentation includes the following:

- Release notes are provided in the top-level directory of the HP OpenView Select Identity CD. This document provides important information about new features included in this release, known defects and limitations, and special usage information that you should be familiar with before using the product.
- For installation and configuration information, refer to the *HP OpenView Select Identity Installation and Configuration Guide*. All installation prerequisites, system requirements, and procedures are explained in detail in this guide. Specific product configuration and logging settings are included. This guide also includes uninstall and troubleshooting information.
- An *HP OpenView Connector Installation and Configuration Guide* is provided for each resource connector. These are located on the Select Identity Connector CD.
- The *HP OpenView Select Identity Attribute Mapping Utility User's Guide* describes how to access the Attribute Mapping Utility, provides an overview to the utility's user interface, and describes how to define user and entitlements mappings. This guide is provided on the Select Identity Connector CD and is for use with the SQL and SQL Admin connectors only.
- Detailed procedures for deployment and system management are documented in the *HP OpenView Select Identity Administrator Guide* and Select Identity online help system. This guide provides detailed concepts and procedures for deploying and configuring the Select Identity system. In the online help system, tasks are grouped by the administrative functions that govern them.
- The *HP OpenView Select Identity Workflow Studio Guide* provides detailed information about using Workflow Studio to create workflow templates. It also describes how to create reports that enable managers and approvers to check the status of account activities.
- The *HP OpenView Select Identity External Call Developer Guide* provides detailed information about creating calls to third-party applications. These calls can then be deployed in Select Identity to constrain attribute values or facilitate workflow processes. In addition, JavaDoc is provided

for this API. To view this help, extract the `javadoc.jar` file in the `docs/api_help/external_calls/Javadoc` directory on the HP OpenView Select Identity CD.

- If you need to develop connectors, which enable you to connect to external systems for provisioning, refer to the *HP OpenView Select Identity Connector Developer Guide*. This document provides an overview of the Connector API and the steps required to build a connector. The audience of this guide is developers familiar with Java.

JavaDoc is also provided for the Connector API. To view this help, extract the `javadoc.jar` file in the `docs/api_help/connectors/Javadoc` directory on the HP OpenView Select Identity CD.

- The *HP OpenView Select Identity Web Service Developer Guide* describes the Web Service, which enables you to programmatically provision users in Select Identity. This guide provides an overview of the operations you can perform through use of the Web Service, including SPML examples for each operation.

An independent, web-based help system is available for this API. To view this help, double-click the `index.htm` file in the `docs/api_help/web_service/help` directory on the HP OpenView Select Identity CD.

## SPML Examples

This chapter provides examples of SPML you must send when issuing requests. For more examples and a complete description of the elements and their attributes, refer to the online help on the Select Identity CD, in the docs/api\_help/web\_service/help directory. Also, sample XML files are provided to illustrate how to use these elements; refer to the SampleXML/Web Service and SampleXML/Reconciliation/Web Service directories on the CD.

### Adding a User

The following is an example of the **<addRequest>** element. The **<operationalAttributes>** element provides login credentials for the admin administrator, and the service for which the user is added is the Firewall Service. The **<attributes>** element specifies information about the user. These attributes are service-specific.

```
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
<soap:Body>
<addRequest requestID='12345'
  execution='urn:oasis:names:tc:SPML:1:0#asynchronous'>
  <operationalAttributes>
    <attr name='urn:trulogica:concerro:2.0#serviceName'>
      <value>Firewall Service</value>
```

```
</attr>
<attr name='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
  <value>admin</value>
</attr>
<attr name='urn:trulogica:concerro:2.0#password'>
  <value>abc123</value>
</attr>
</operationalAttributes>
<attributes>
  <attr name='First Name'>
    <value>John</value>
  </attr>
  <attr name='Last Name'>
    <value>Doe</value>
  </attr>
  <attr name='Salutation'>
    <value>Mr.</value>
  </attr>
  <attr name='User Name'>
    <value>jdoe</value>
  </attr>
  <attr name='Business Phone'>
    <value>972-801-1234</value>
  </attr>
  <attr name='Domain'>
    <value>1</value>
  </attr>
  <attr name='Mail Host'>
    <value>Yahoo.com</value>
  </attr>
  <attr name='Email'>
    <value>jdoe@yahoo.com</value>
  </attr>
  <attr name='DomainKey'>
    <value>Firm ID</value>
  </attr>
</attributes>
</addRequest>
</soap:Body>
</soap:Envelope>
```

## Modifying a User

The following is an example of the **<modifyRequest>** element. The **<operationalAttributes>** element provides login credentials for the admin administrator, for the Firewall Service. The **<identifier>** element provides the user ID of the user to modify. The **<attributes>** element specifies information to be modified for the user.



When modifying a user, ensure that the user's current entitlements are specified as part of the request. If you do not specify the existing entitlements, they are removed from the user. Also, you cannot modify a user's password using the **<modifyRequest>** element; use the **<extendedRequest>** element for this purpose.

```
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
<soap:Body>
<modifyRequest requestID='12345'
  execution='urn:oasis:names:tc:SPML:1:0#asynchronous'>
  <operationalAttributes>
    <attr name='urn:trulogica:concerro:2.0#serviceName'>
      <value>Firewall Service</value>
    </attr>
    <attr name='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
      <value>admin</value>
    </attr>
    <attr name='urn:trulogica:concerro:2.0#password'>
      <value>abc123</value>
    </attr>
  </operationalAttributes>
  <identifier
    identifierType='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
    <id>jdoe</id>
  </identifier>
  <modifications>
    <modification name='Title' operation='replace'>
      <value>Manager</value>
    </modification>
    <modification name='Business Phone' operation='replace'>
      <value>972-801-2222</value>
    </modification>
  </modifications>
</modifyRequest>
</soap:Body>
</soap:Envelope>
```



## Deleting a User

The following is an example of the **<deleteRequest>** element. The **<operationalAttributes>** element provides login credentials for the admin administrator, for the Firewall Service. The **<identifier>** element provides the user ID of the user to delete.

```
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
<soap:Body>
<deleteRequest requestID='12345'
  execution='urn:oasis:names:tc:SPML:1:0#asynchronous'>
  <operationalAttributes>
    <attr name='urn:trulogica:concerro:2.0#serviceName'>
      <value>Firewall Service</value>
    </attr>
    <attr name='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
      <value>dave_usa</value>
    </attr>
    <attr name='urn:trulogica:concerro:2.0#password'>
      <value>trul0g1ca</value>
    </attr>
  </operationalAttributes>
  <identifier
  identifierType='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
    <id>jdoe</id>
  </identifier>
</deleteRequest>
</soap:Body>
</soap:Envelope>
```

## Retrieving a User Profile

The following is an example of the **<searchRequest>** element. It searches for the user identified by the sk061001 ID for the iPlanet resource.

```
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
<soap:Body>
<searchRequest requestID='12345'
  execution='urn:oasis:names:tc:SPML:1:0#synchronous'>
  <operationalAttributes>
    <attr name='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
      <value>concerrosa</value>
    </attr>
    <attr name='urn:trulogica:concerro:2.0#password'>
```

```

        <value>abc123</value>
    </attr>
</operationalAttributes>
<searchBase type='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
    <id>sk061001</id>
</searchBase>
<filter>
    <equalityMatch name='urn:trulogica:conceroc:2.0#resourceId'>
        <value>local-iPlanet</value>
    </equalityMatch>
</filter>
</searchRequest>
</soap:Body>
</soap:Envelope>

```

## Enabling a User

The following is an example of the **<extendedRequest>** attribute, to enable a user's account.

```

<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
<soap:Body>
<extendedRequest requestID='1769'
execution='urn:oasis:names:tc:SPML:1:0#asynchronous'>
    <operationalAttributes>
        <attr name='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
            <value>concerosa</value>
        </attr>
        <attr name='urn:trulogica:conceroc:2.0#password'>
            <value>abc123</value>
        </attr>
    </operationalAttributes>
<identifier type='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
    <id>sk061001</id>
</identifier>
<providerIdentifier providerIDType='urn:oasis:names:tc:SPML:1:0#URN'>
    <providerID>urn:trulogica:conceroc:2.0</providerID>
</providerIdentifier>
<operationIdentifier operationIDType='urn:oasis:names:tc:SPML:1:0#URN'>
    <operationID>urn:trulogica:conceroc:2.0#enable</operationID>
</operationIdentifier>
    <attributes/>
</extendedRequest>
</soap:Body>
</soap:Envelope>

```

## Changing a User's Password

The following is an example of the **<extendedRequest>** attribute, to change a user's password.

```
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
<soap:Body>
<extendedRequest requestID='1769'
execution='urn:oasis:names:tc:SPML:1:0#asynchronous'>
  <operationalAttributes>
    <attr name='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
      <value>concerosa</value>
    </attr>
    <attr name='urn:trologica:concerero:2.0#password'>
      <value>abc123</value>
    </attr>
  </operationalAttributes>
  <identifier type='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
    <id>sk061001</id>
  </identifier>
  <providerIdentifier providerIDType='urn:oasis:names:tc:SPML:1:0#URN'>
    <providerID>urn:trologica:concerero:2.0</providerID>
  </providerIdentifier>
  <operationIdentifier operationIDType='urn:oasis:names:tc:SPML:1:0#URN'>
    <operationID>urn:trologica:concerero:2.0#changePassword</operationID>
  </operationIdentifier>
  <attributes>
    <attr name='urn:trologica:concerero:2.0#resourceId'>
      <value>local-iPlanet</value>
    </attr>
    <attr name='urn:trologica:concerero:2.0#newPassword'>
      <value>zzzz1234</value>
    </attr>
  </attributes>
</extendedRequest>
</soap:Body>
</soap:Envelope>
```

## Terminating a User

The following is an example of the **<extendedRequest>** attribute, to terminate a user.

```
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
<soap:Body>
<extendedRequest requestID='1769'
execution='urn:oasis:names:tc:SPML:1:0#asynchronous'>
  <operationalAttributes>
    <attr name='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
      <value>concerosa</value>
    </attr>
    <attr name='urn:trologica:concerosa:2.0#password'>
      <value>abc123</value>
    </attr>
  </operationalAttributes>
  <identifier type='urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName'>
    <id>sk061001</id>
  </identifier>
  <providerIdentifier providerIDType='urn:oasis:names:tc:SPML:1:0#URN'>
    <providerID>urn:trologica:concerosa:2.0</providerID>
  </providerIdentifier>
  <operationIdentifier operationIDType='urn:oasis:names:tc:SPML:1:0#URN'>
    <operationID>urn:trologica:concerosa:2.0#terminate</operationID>
  </operationIdentifier>
</extendedRequest>
</soap:Body>
</soap:Envelope>
```

## Adding Multiple Users through Reconciliation

The following example issues a request to the Select Identity server to add multiple users from an authoritative resource. The **<batchRequest>** attribute is used to specify the users.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <batchRequest xmlns:countries="countries.uri"
      xmlns:cities="cities.uri"
      xmlns:dsml="urn:oasis:names:tc:DSML:2:0:core"
      xmlns:spml="urn:oasis:names:tc:SPML:1:0"
      xmlns="urn:oasis:names:tc:SPML:1:0" requestID="1085774668899">
      <operationalAttributes xmlns="">
```

```

    <attr name="urn:oasis:names:tc:SPML:1:0#UserIDAndOrDomainName">
      <value>sis</value></attr>
    <attr name="urn:trulogica:conceroc:2.0#password">
      <value>abc123</value></attr>
    <attr name="urn:trulogica:conceroc:2.0#resourceId">
      <value>LDAP71</value></attr>
    <attr name="urn:trulogica:conceroc:2.0#keyFields">
      <value>UserName</value></attr>
    <attr name="urn:trulogica:conceroc:2.0#reverseSync">
      <value>true</value></attr>
  </operationalAttributes>

<addRequest requestID="2"
  execution="urn:oasis:names:tc:SPML:1:0#asynchronous">
  <operationalAttributes>
    <attr name="urn:trulogica:conceroc:2.0#taUserName">
      <value>WSu7251</value></attr>
    <attr name="urn:trulogica:conceroc:2.0#taResourceKey">
      <value>WSu7251</value></attr>
  </operationalAttributes>
  <attributes>
    <attr name="UserName"><value>WSu7251</value></attr>
    <attr name="Email"><value>user.email@hp.com</value></attr>
    <attr name="State"><value>TX</value></attr>
    <attr name="FirstName"><value>Abby</value></attr>
    <attr name="LastName"><value>Andrews</value></attr>
    <attr name="Employee ID"><value>HP</value></attr>
  </attributes>
</addRequest>

<addRequest requestID="2"
  execution="urn:oasis:names:tc:SPML:1:0#asynchronous">
  <operationalAttributes>
    <attr name="urn:trulogica:conceroc:2.0#taUserName">
      <value>WSu7252</value></attr>
    <attr name="urn:trulogica:conceroc:2.0#taResourceKey">
      <value>WSu7252</value></attr>
  </operationalAttributes>
  <attributes>
    <attr name="UserName"><value>WSu7252</value></attr>
    <attr name="Email"><value>user.email@hp.com</value></attr>
    <attr name="State"><value>TX</value></attr>
    <attr name="FirstName"><value>Bobbie</value></attr>
    <attr name="LastName"><value>Bray</value></attr>
    <attr name="Employee ID"><value>HP</value></attr>
    <attr name="Address 1"><value>123 E. Main, Plano</value></attr>
    <attr name="Zip"><value>75075</value></attr>
  </attributes>
</addRequest>

```

```

<addRequest requestID="2"
  execution="urn:oasis:names:tc:SPML:1:0#asynchronous">
  <operationalAttributes>
    <attr name="urn:trulogica:conceroc:2.0#taUserName">
      <value>WSu7253</value></attr>
    <attr name="urn:trulogica:conceroc:2.0#taResourceKey">
      <value>WSu7253</value></attr>
    </operationalAttributes>
  <attributes>
    <attr name="UserName"><value>WSu7253</value></attr>
    <attr name="Email"><value>user.email@hp.com</value></attr>
    <attr name="State"><value>KS</value></attr>
    <attr name="FirstName"><value>Carol</value></attr>
    <attr name="LastName"><value>Conners</value></attr>
    <attr name="Employee ID"><value>HP</value></attr>
    <attr name="Zip"><value>90210</value></attr>
  </attributes>
</addRequest>

<addRequest requestID="2"
  execution="urn:oasis:names:tc:SPML:1:0#asynchronous">
  <operationalAttributes>
    <attr name="urn:trulogica:conceroc:2.0#taUserName">
      <value>WSu7254</value></attr>
    <attr name="urn:trulogica:conceroc:2.0#taResourceKey">
      <value>WSu7254</value></attr>
    </operationalAttributes>
  <attributes>
    <attr name="UserName"><value>WSu7254</value></attr>
    <attr name="Email"><value>user.email@hp.com</value></attr>
    <attr name="State"><value>TX</value></attr>
    <attr name="FirstName"><value>Doug</value></attr>
    <attr name="LastName"><value>Dragg</value></attr>
    <attr name="Employee ID"><value>HP</value></attr>
    <attr name="Address 1"><value>22 Pearl Dr, Lisle</value></attr>
    <attr name="Zip"><value>60532</value></attr>
  </attributes>
</addRequest>

<addRequest requestID="2"
  execution="urn:oasis:names:tc:SPML:1:0#asynchronous">
  <operationalAttributes>
    <attr name="urn:trulogica:conceroc:2.0#taUserName">
      <value>WSu7255</value></attr>
    <attr name="urn:trulogica:conceroc:2.0#taResourceKey">
      <value>WSu7255</value></attr>
    </operationalAttributes>
  <attributes>
    <attr name="UserName"><value>WSu7255</value></attr>
    <attr name="Email"><value>user.email@hp.com</value></attr>

```

```
        <attr name="State"><value>TX</value></attr>
        <attr name="FirstName"><value>Eugene</value></attr>
        <attr name="LastName"><value>Ellis</value></attr>
        <attr name="Employee ID"><value>HP</value></attr>
    </attributes>
</addRequest>

</batchRequest>
</soap:Body>
</soap:Envelope>
```