

# Sentinel Cloud Connect Web Services Python Sample ReadMe

---

## Overview

---

The Python sample demonstrates how to use Sentinel Cloud Connect Web services. The available Web services are:

- **register**: Used to register an ISV client with Directory Services and retrieve Cloud Connect URL.
- **getInfo**: Used to return information about entitlements.
- **login**: Used to consume a feature.
- **refresh**: Used to refresh a concurrent session.
- **logout**: Used to release a feature.

## Files Included in the Sample

---

The Python sample package contains the following files:

File	Description
<i>ws_demo.py</i>	Main file containing the source code of sample.
<i>scc_objects.py</i>	Web service request and response python classes that correspond to the web service XML request and response schema.
<i>scc_props.py</i>	Python class for reading the properties file.
<i>scc_session.py</i>	Python class that abstracts a session login details.
<i>scc_server.py</i>	Python class that abstracts the connection with a Cloud Connect server.
<i>SentinelCloudWebServices.properties</i>	File containing properties that are used during the execution of the sample application.
ReadMe (This document)	Sample reference for using Cloud Connect web services in Python.

## Prerequisites for Using Sample

---

This section contains information on what is required for using the Python sample.

### Python 2.7

Download Python from <https://www.python.org/download/>, and follow installation instructions provided with the downloaded Python package.

### PyXB Package

To run the Python sample, you will also need to install the Python PyXB package. The steps are:

1. Download the Python PyXB package from <http://sourceforge.net/projects/pyxb/files/pyxb/1.1.4/>.
2. Install the PyXB package, as per installation instructions provided with the downloaded package.

### Configuration Related Items

You will need the following items while configuring sample properties. These items are provided to you in e-mails from SafeNet:

- **Vendor ID:** The unique ID assigned to each customer of Sentinel Cloud.
- **Secret Key:** The secret key received from SafeNet for authentication of the client requests.
- **Secret Key ID:** ID of the secret key.
- **YPSAddress:** Address of the Cloud Directory Services.
- **ClientAlias** (mentioned as **Alias** in SafeNet emails): This is usually the vendor name provided in the vendor registration request file.
- **CertificateFile:** Public CA certificate used for https SSL connection. You can download it from <http://curl.haxx.se/ca/cacert.pem>.

## Running the Sample

---

Perform the following tasks to run the Python sample.

### Set Configuration Properties

Place the *SentinelCloudWebServices.properties* file in the directory where the sample executable resides. Modify the following properties in the *SentinelCloudWebServices.properties* file:

- **YPSAddress**

Example: `<add key="YPSAddress" value="https://yps-trial.sentinelcloud.com/YPServer" />`

- **ClientAlias**

Example: `<add key="ClientAlias" value="isv" />`

- **VendorId**

Example: `<add key="VendorId" value="a8e06c3" />`

- **SecretKeyId**

Example: `<add key="SecretKeyId" value="SecretKeyId" />`

- **SecretKey**

Example: `<add key="SecretKey" value="SecretKey" />`

- **WsVersion**

Example: `<add key="WsVersion" value="1.0" />`

- **CertificateFile:** Set it to the location where you have stored the Public CA certificate (used for https SSL connection). It can be downloaded from <http://curl.haxx.se/ca/cacert.pem>.

Example: `<add key="CertificateFile" value="C:/cacert.pem" />`

It is optional to change the following properties:

- **VendorData**

Example: `<add key="VendorData" value="SCCPythonSample" />`

- **NodeDescription**

Example: `<add key="NodeDescription" value="Python Sample Node" />`

Following properties should not be changed:

- **Web Service Name**

Example:

`<add key="WsLoginUrl" value="login" />`

`<add key="WsLogoutUrl" value="logout" />`

`<add key="WsRefreshUrl" value="refresh" />`

```
<add key="WsGetInfoUrl" value="getInfo" />
<add key="WsRegisterUrl" value="register" />
```

### Modify ws\_Demo.py File

You need to modify *ws\_Demo.py* to specify values of the following parameters:

- **propertyFile**: Set it to the path of *SentinelCloudWebServices.properties* file.
- **machine**: It is an optional parameter. If not set, the sample uses the IP address of the client machine where the Python sample is being executed.

### Execute Sample Application

To run the Python sample, use the following command:

```
python ws_demo.py -c <customerId> -u <userId> -f <featureId>
```

where:

- **<customerId>**: ID of an existing EMS customer
- **<userId>**: ID of an existing EMS user
- **<featureId>**: ID of a feature that is available in the EMS entitlement deployed for the specified customer

## Viewing Usage Related Information

---

Users can login into Sentinel EMS (Customer Login) using their entitlement IDs (received in the e-mail), and can view the following information:

- Usage details of an entitlement (available only if the entitlement has been aggregated by Data Engine).
- Billing detail
- License state of the features
- Concurrent sessions for features having concurrent license model
- Usage count of features having pre-paid license model



For more information, please refer to *EMS User's Guide*.

## Error Code

---

Please refer *Cloud Connect Web Services Guide* for information about error codes.

## Obtaining Support

If you encounter a problem while installing, registering or operating this product, please make sure that you have read the documentation. If you cannot resolve the issue, contact your supplier or SafeNet Customer Support. SafeNet Customer Support operates 24 hours a day, 7 days a week. Your level of access to this service is governed by the support plan arrangements made between SafeNet and your organization. Please consult this support plan for further information about your entitlements, including the hours when telephone support is available to you.

Contact Method	Contact Information	
Address	SafeNet, Inc. 4690 Millennium Drive Belcamp, Maryland 21017, USA	
Phone	US	1-800-545-6608
	International	1-410-931-7520
Technical Support Customer Portal	<a href="https://serviceportal.safenet-inc.com">https://serviceportal.safenet-inc.com</a> Existing customers with a Technical Support Customer Portal account can log in to manage incidents, get the latest software upgrades, and access the SafeNet Knowledge Bas	

Copyright © 2015, SafeNet, Inc. All rights reserved.

<http://www.safenet-inc.com/>

We have attempted to make these documents complete, accurate, and useful, but we cannot guarantee them to be perfect. When we discover errors or omissions, or they are brought to our attention, we endeavor to correct them in succeeding releases of the product.

SafeNet<sup>®</sup> and Sentinel<sup>®</sup> are registered trademarks of SafeNet, Inc. All other product names referenced herein are trademarks or registered trademarks of their respective manufacturers.

Part Number 007-012185-001, Revision G

Software versions 3.6 and later

May 2015