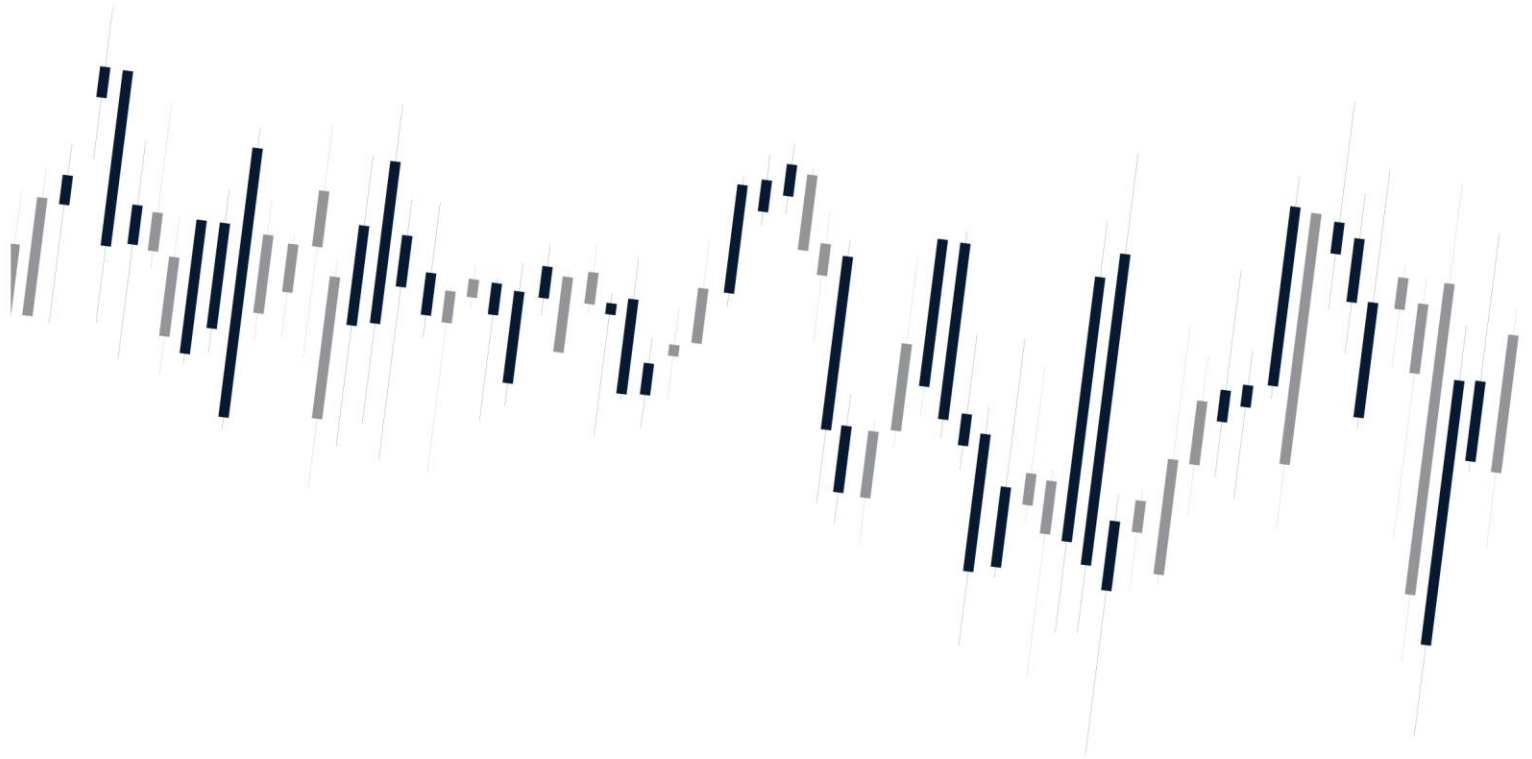




# CMS API

## FUNCTIONAL DESCRIPTION AND DOCUMENTATION



THE SPECIALIST IN  
TRADING & INVESTMENT

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# 1 DOCUMENT PROPERTIES

## 1.1 PURPOSE OF THIS DOCUMENT

The purpose of this document is to give an overview of the functionality of the Client Management Services API solution (CMS API) and enable the White Label to develop internal functionality and reports using the API.

The target audience of this document is the White Label developers who are involved in implementing functionality provided by the API.

## 1.2 REVISION HISTORY

DATE	VERSION	CHANGE
26-09-2011	1.0	Created first draft of CCM API User Guide
03-10-2013	1.1	Added Relief at Source functionality to CreateCounterpart request
12-11-2013	1.2	General review
01-03-2014	1.3	Added EMIR reporting Field
21-04-2014	1.4	Added Instruments input parameters on CreateAccount, CreateCounterpart. Added GetDataItems request.
30-10-2014	3.0	New document structure and template for alignment and general review. GetOpenOrdersByAccount and GetOpenOrdersByCounterpart added.
26-01-2015	4.0	Document re-written to new CMS interface.
02-02-2015	5.0	Revised
08-05-2015	6.0	Added new input parameters on CreateAccount, CreateCounterpart, Update Account, and UpdateCounterpart.
26-06-2015	7.0	Added Password Encryption and logout functionality.
11-09-2015	7.1	Typo corrections
11-09-2015	7.2	Revised
03-10-2015	7.3	Revised
10-19-2015	7.4	Added CFDFinanceProfileID to Account structure
22-03-2016	7.5	Added new input parameters on CreateAccount, CreateCounterpart, Update Account, Update User and UpdateCounterpart.
21-06-2016	7.6	Revised and added PositionNettingModelID to Counterpart structure
17-10-2016	7.7	New output field, GetAccountDate and GetCounterpartData
17-01-2018	8.0	Major Updates on existing functions

## 1.3 ABBREVIATIONS

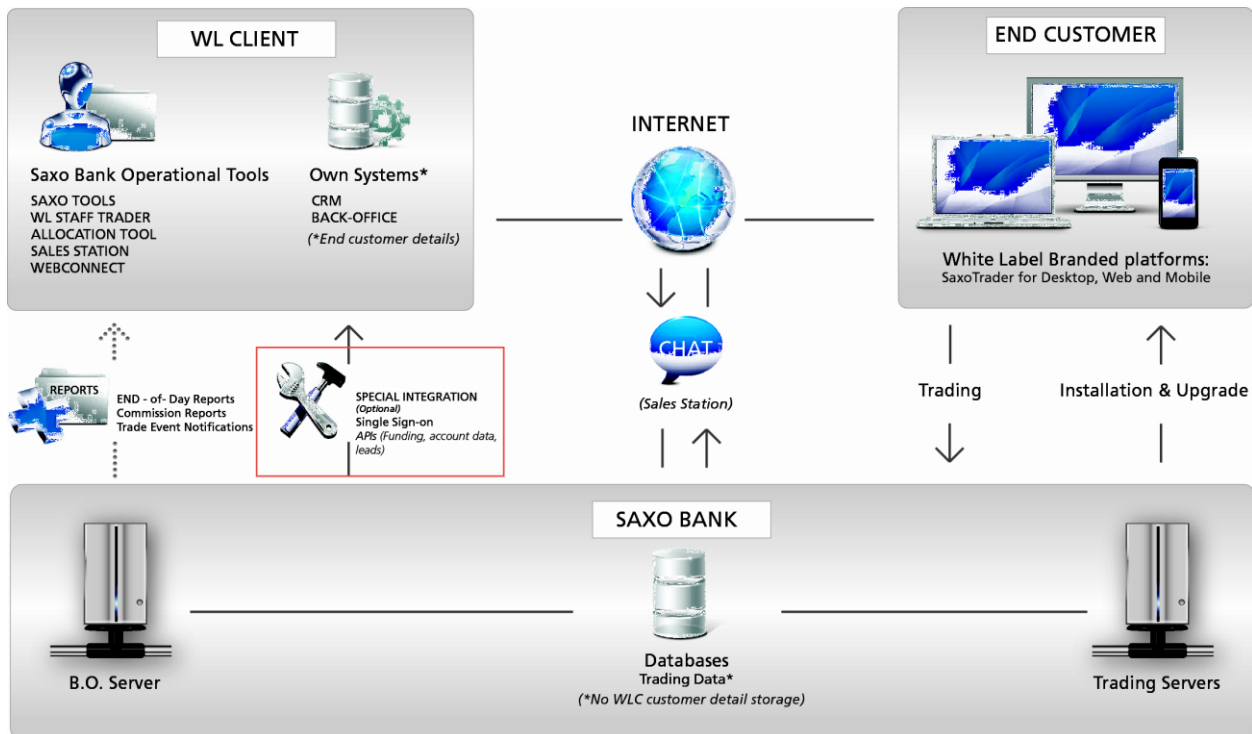
TERM	DESCRIPTION
CMS	Client Management Services
SSL	Secure Socket Layer
API	Application Programming Interface
WLC	White Label
SOAP	Simple Object Access Protocol
SSL	Secure Sockets Layer

## 2 PREFACE

### 2.1 OVERVIEW

Saxo Bank constantly strives to make its applications more accessible to our White Labels. With the CMS API, the White Label now has the opportunity to integrate functionality of Saxo Tools within the White Label's own systems and retrieve customer data for bespoke reports.

The CMS API allows the White Label to create and modify customers, perform cash transfers between the White Label's funding account and its customers' accounts and third, the API allows the White Label to retrieve a range of customer data which can for example be used to build reports or develop an account summary outside Online WebConnect.



### 2.2 PRE-REQUISITES

In order to implement functionality based on the communication with the CMS API it is important that the White Label organisation has the necessary knowledge and technical skills to develop using SOAP APIs.

The below list outlines the pre-requisites, which are required

- The White Label must possess knowledge in SOAP and in web service integration technology.
- White Label must cater for usability and performance on their side. For example make sure that longer response time do not timeout on his side, and at the same time, the WLC must avoid that an end client is stalled on a web page.

### 3 FUNCTIONALITY

#### 3.1 OVERVIEW

The API is built as a web service interface using Simple Object Access Protocol (SOAP) and uses Extensible Markup Language (XML) message formats for exchanging messages between the White Label and Saxo Bank.

The communication between the White Label and the CMS API is encrypted using Secure Socket Layer (SSL) An X509 client certificate (pfx) provided by Saxo Bank is used along with the server user's username and password to establish the identity of the White Label.

The White Label Account Structure is built as a tree-structure and the server user has access to all customers under the branch it is configured on.

Average response time varies, depending on the type of request, the amount of customers in the White Label's account structure and the amount of data requested. For example in a tree with 1000 counterparts, the average response time is;

- Create Counterpart – 15 seconds
- Retrieving account data information – 200ms

The CMS API is based on a synchronous request/response protocol.

The CMS API is divided into two services where each is in a test and live version. These are CMS Test Login Service, CMS Test Service, CMS Live Login Service and CMS Live Service as illustrated below.



**FIGURE 1 CMS API SERVICES**

The four CMS Web Services can be reached by the following URLs:

SERVICE	URL
CMS Test Service	<a href="https://enterprise.saxobank.com/test/cmslive/cmsservice.svc">https://enterprise.saxobank.com/test/cmslive/cmsservice.svc</a>
CMS Test Login Service	<a href="https://enterprise.saxobank.com/test/cmslive/cmsloginservice.svc">https://enterprise.saxobank.com/test/cmslive/cmsloginservice.svc</a>
CMS Live Login Service	<a href="https://enterprise.saxobank.com/cmslive/CmsLoginService.svc">https://enterprise.saxobank.com/cmslive/CmsLoginService.svc</a>
CMS Live Service	<a href="https://enterprise.saxobank.com/cmslive/CmsService.svc">https://enterprise.saxobank.com/cmslive/CmsService.svc</a>

The White Label will be configured with two users, one for the CMS Test Service and CMS Test Login Service and one for the CMS Live Service and CMS Live Login Service. One X509 client certificate will be issued for each user.

### 3.1.1 CMS TEST SERVICE AND CMS TEST LOGIN SERVICE

The CMS Test Service allows the White Label to test the same calls as available in the CMS Live Service, but without database commitment.

The White Label will receive a Test Server User, which can be used to call the Services in the CMS Test Service.

The CMS Test Service operates on the White Label's live account structure, and test results will validate the business logic of the requests as well as its technical syntax. However, it will not commit any changes to the database.

The CMS Test Service results that are presented to the White Label are identical to the results of requests in the CMS Live Service.

### 3.1.2 CMS LIVE SERVICE

The CMS Live Service is used by the White Label to create customers, transfer cash and to retrieve live customer data.

The White Label will receive a Live Server User, which can be used to call the Services in the CMS Live Service.

The CMS Live Service gives access to three areas of functionality;

- 1) Account Information
- 2) Customer Creation
- 3) Cash Transfers

### 3.1.3 CMS LIVE LOGIN SERVICE

The CMS Live Login Service is used for Authentication of the White Label, change of server password and exchange of session tickets.

The CMS Live Login Service gives access to

- 1) Login request
- 2) Change server user password.

The rest of the requests are not relevant for the White Label.

## 3.2 AUTHENTICATION

In order to access and communicate with the CMS API, the White Label must be authenticated via the following:

- X509 Client Certificate
- Username
- Password

The following sections describe the requirements for a successful authentication to the CMS API.

### 3.2.1 CERTIFICATE

An X509 client certificate must be installed on the server communicating with the CMS API. Saxo issues the certificate and sends the White Label two emails; one with the X509 client certificate and one with the password for the certificate. The certificate must be installed on the server communicating with the CMS API.

In case of a dual or multiple server setups, the White Label can install the certificate on all servers with the limitation that requests will only be accepted from one server at the time. If the White Label requires multiple servers to use the CMS API simultaneously, two or more users and certificates can be created, so each server has its own certificate and user.

The X509 client certificate is valid for one year and a replacement certificate will be provided by Saxo one month, before the expiry of the current certificate.

### 3.2.2 USERNAME AND PASSWORD

The White Label has chosen its username and a first time password for the CMS API via a request form and only the username will be communicated email to the White Label. These credentials do not only identify the White Label, but also grants access at the appropriate level of the White Label's account structure. Usual practise is that the server user is created at the top, so is has access to all branches and underlying customers, unless otherwise requested.

#### 3.2.2.1 HASH PASSWORD

For security reasons the API does not accept passwords in clear-text. Therefore the passwords must be hashed using the SHA265 algorithm. Saxo provides a Windows Console application, HashPassword.exe, which can be used for generating a hash for a password.

### 3.2.3 LOGIN

When the White Label logs on to the CMS API with a username and password using the CMS Live Login Service call (LoginRequest), information retrieved from the X509 client certificate is compared to what is stored in the CMS API database. If the login credentials match, the login is successful and the server returns a ticket (SessionID).

### 3.2.4 CHANGE PASSWORD

The server user is required to change the password at first login.

The password is valid for 3 months after which the White Label is required to renew the password. Hence the server user must be prepared to change the password at regular intervals in order to continue being able to use the CMS API. If the server user does a login with a password that has expired, an exception code will be returned informing the server user that the password has expired.

### 3.2.5 SESSION MANAGEMENT

The ticket returned in the response of a successful login must be passed along in the SOAP header in all subsequent web service calls. This ticket is valid for 8 hours and after that the server user needs to request a new ticket from CMS API using LoginRequest. If the server does a request with a ticket that has expired, an exception code will be returned informing the server user that the SessionID has expired.



The SessionID cannot be renewed within the valid 8 hours. A LoginRequest within the timeperiod, will return the same sessionID, The White Label is therefore required to handle the session expiry exception when it occurs.

If a request is sent at the same time as the ticket expires, then the same request has to be sent again after obtaining a new sessionID.

### 3.3 CMS LIVE SERVICE REQUESTS

The available Web Service Requests in CMS Live Service can be divided into three areas:

- 1) Account Information
- 2) Client Creation/Update
- 3) Cash Transfer

The below sections describe each available request available and the purpose of the functionality in each area.

#### 3.3.1 ACCOUNT INFORMATION MODULE

The Account Information module allows you to retrieve information related to a counterpart/account, be it trading data or account structure data.

Here are few examples, which are not exhaustive, for the final usage of the AI module:

- Aggregation of account information for institutions with multi-brokers in order to provide a centralized view to their customers
- Publish account information to White Label's customer in the White Label's web site environment
- Integration with White Label's risk management systems, at the global institution level or at individual customer level
- Alerts in near real time in case of specific events (exposure increase, large trades ...), albeit the usage of TENS, must be considered for this feature also.
- Integration with client CRM application, so it has account information in near real time.

Note: The AI module allows retrieving account information but it cannot be used to change the account's data.

The requests available within the Account Information module are:

REQUEST	DESCRIPTION
GetAccount	Request to retrieve static account data, such as account number.
GetAccountData	Request to retrieve account data, such as Cash Balanace.
GetAvailableDataItemTypes	Request to retrieve reference data, which can be used as inputs on the other requests.
GetAvailableAmountForSecuritiesTrading	Request to retrieve amount on account available for securities trading.
GetCounterpart	Request to retrieve PII data on a specific counterpart, such as name.
GetCounterpartData	Request to retrieve cash data on a specific counterpart, such as total equity.
GetCounterpartList	Request to retrieve a list of counterparts that belong to an owner.
GetCounterpartStructure	Request to retrieve the counterpart structure.
GetDataItemTypes	Request to retrieve data items, such as currencies, countries, etc.
GetNetExposures	Request to retrieve an accounts net exposure.
GetNetPositions	Request to retrieve an accounts net position.
GetNettingDetails	Request to retrieve netting details from intra-day netting
GetOpenOrders	Request to retrieve an account's or a counterpart's open orders
GetPositions	Request to retrieve an account's positions.
GetUser	Request to retrieve a user.
GetAccount	Request to retrieve static account data, such as account number.

### 3.3.2 CLIENT CREATION/UPDATE MODULE

The requests available within the Client Creation/Update module are all related to creating and updating customer/accounts within the White Label's account structure.

The requests available within the Client Creation module are:

REQUEST	DESCRIPTION
CreateAccount	Request to create an account under a specified counterpart.
CreateCounterpart	Request to create a counterpart under a specified owner as well as a number of accounts and users.
CreateUser	Request to create a user under a specified counterpart.
ValidateUserPassword	Request to validate a user's password (WLC's end client password)
ChangeUserPassword	Request to change a counterpart user's password (WLC's end client password).
UpdateAccount	Request to update information on an account.
UpdateCounterpart	Request to update information on a counterpart.
UpdateUser	Request to update information on a user.

In the update scenarios no explicit verification is given that the update succeeded. If a response is given, the update is a success. If an error occurs, an error is returned. See Section 5 for details.

### 3.3.3 CASH TRANSFER

The Cash Transfer requests enables the White Label to validate a cash withdrawal on a customer's account and transfer cash in or out of the client's trading account from and to the White Label's funding account.

REQUEST	DESCRIPTION
TransferCash	This request allows you to perform a cash transfer between a client account and a funding account within the same owner or sub owner's structures. It is only possible to send cash between a client account and a funding account of the same currency.
VerifyCashWithdrawal	Request to verify if a cash withdrawal is valid.
VerifyInterAccountTransferRequest	Request to verify if within the same counterpart cash can be moved between accounts. Mainly for internal Saxo usage.

## 4 IMPLEMENTATION

The following section provides details on the implementation of the CMS API with examples and manuals where possible.

### 4.1 PREPARATIONS

Before the White Label can use the CMS API, a service user must be created. In order to start the process, the White Label must;

- 1) Decide where, in the Account Structure, the service user should be placed
- 2) Fill in CMS API REQUEST form and have it signed by Authorized signatures.
- 3) Send the completed form to ServiceCenter@saxobank.com.

Saxo Bank will then configure the service user on the appropriate level and return with;

- 1) Username of the Service User
- 2) Username of the Test Service User
- 3) X509 Client Certificate
- 4) Password for the above certificate.

The White Label is now ready to install certificate and login to the CMS API.

### 4.2 AUTHENTICATION

When authenticating against the CMS API, the CMS Enterprise Service must be called on a server, where a valid X509 Client Certificate is installed.

#### 4.2.1 INSTALL CERTIFICATE

When Saxo Bank has processed the Authorised CMS User form, the White Label will receive two e-mails:

One with the X509 client certificate (pfx file) attached and the second with the certificate password.

The certificate is installed as follows:

- 1) Transfer the certificate to your web server.
- 2) Double click on certificate
- 3) Click "Next" in Welcome screen
- 4) Click "Next" in File Import screen
- 5) Type, in the screen, the password that was received in the second email.
- 6) Choose certificate store and click "Next" in certificate store screen
- 7) Click "Finish"

The certificate is now ready to use.

## 4.2.2 HASH PASSWORD

Saxo provides the Windows Console application, HashPassword.exe for hashing passwords with the SHA265 algorithm. The application can be retrieved as follows:

- 1) Click <https://enterprise.saxobank.com/enterprise/setup/HashPassword.zip>
- 2) Confirm certificate in confirm certificate pop-up box
- 3) Download and save HashPassword.zip file
- 4) Extract HashPassword.zip file

To hash the password, please do the following:

- 1) Open a Command Prompt
- 2) Browse to folder where HashPassword.exe is located
- 3) Hash the password using the following syntax: HashPassword password1 password2 etc

```
C:\HashPassword>HashPassword sAxOwhiteLabelpaSs
Now hashing 1 command line arguments:

Hashing sAxOwhiteLabelpaSs : 'n/eHSOq/5XSgUyDivdHVwAqxhBso2Vc0E6xCAFakiY='
```

### # CODE EXAMPLE 1: HOW TO HASH A PASSWORD

The hashed password can now be used for the login request.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Security.Cryptography;

namespace Hashpassword
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            rtfDisplay.Text = "";
            rtfDisplay.Text = HashPassword(txtPassword.Text);
        }

        public string HashPassword(string password)
        {
            byte[] bytes = Encoding.UTF8.GetBytes(password);
            HashAlgorithm algorithm = new SHA256Managed();
            return Convert.ToBase64String(algorithm.ComputeHash(bytes));
        }
    }
}
```

## 4.3 CMS LIVE LOGIN REQUESTS

The following sections describe in detail all the operations which the CMS Live Login Service and CMS Live Service expose. Each section has a table with parameters and an example request. The example request only contains the crucial part of the request and not the headers. When the example lists a parameter as *optional*, it means that it can be omitted and the message still be technical valid. It does not necessarily mean that the request is valid if that parameter is omitted. One of the reasons for this is, that a parameter might be optional on create, but mandatory on update or vice versa.

### 4.3.1 LOGIN

The CMS Live Login Service request Login allows the White Label to log into the CMS API and receive a response with a ticket.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsLoginService.svc?wsdl
End Point URL	https://enterprise.saxobank.com/cmslive/CmsLoginService.svc
Operation	Login

The request has the following parameters;

PARAMETER	DATA TYPE	MANDATORY	DESCRIPTION
username	String	Yes	Service Username
password	String	Yes	Hashcoded Password

#### 4.3.1.1 SOAP 1.2 DEFINITION

##### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:LoginRequest>
      <!--Optional:-->
      <ns:Password?></ns:Password>
      <!--Optional:-->
      <ns:UserName?></ns:UserName>
    </ns:LoginRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:LoginResponse/>
  </soapenv:Body>
</soapenv:Envelope>
```

### 4.3.1.2 CODE EXAMPLES

#### CODE EXAMPLE 2: LOGIN REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:LoginRequest>
      <ns:Password>BoiLZfF7MdaJdu/A54ts+kVNAEqjcG3qfSK7ApZgiqo=</ns:Password>
      <ns:UserName>UserWhite1</ns:UserName>
    </ns:LoginRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### CODE EXAMPLE 3: LOGIN RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:SessionId xmlns:h="http://www.saxobank.com/service/cms/2013/08">
tcIVanVACqdvpkWcdxHQmW33mX2PxBFHuJ4HZziA5bg=</h:SessionId>
    <ActivityId CorrelationId="c129b05a-85f1-48a4-bf61-0d4a39d24122" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">4bb73799-8b49-4486-84fb-4d34302d99ad</ActivityId>
  </s:Header>
  <s:Body>
    <LoginResponse xmlns="http://www.saxobank.com/service/cms/2013/08"/>
  </s:Body>
</s:Envelope>
```

#### Please Note:

If the White Label is executing the login, for the first time, a "Password Expired" (100005) error message will be returned. This is due to the fact that the user password, selected in the request form, is a first time password. The password must then be changed, as described below.

## 4.3.2 LOGOUT

The CMS Live Logout request allows the White Label to logout from the CMS API. This request will terminate the SessionId validity.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsLoginService.svc?wsdl
End Point URL	https://enterprise.saxobank.com/cmslive/CmsLoginService.svc
Operation	Logout

The request has the following parameter:

PARAMETER	DATA TYPE	MANDATORY	DESCRIPTION
SessionId	String	Yes	SessionId that is to be terminated

### 4.3.2.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:LogoutRequest/>
  </soapenv:Body>
</soapenv:Envelope>
```

#### RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:LogoutResponse>
      <!--Optional:-->
      <ns:LoggedOut?</ns:LoggedOut>
    </ns:LogoutResponse>
  </soapenv:Body>
</soapenv:Envelope>
```



### 4.3.2.2 CODE EXAMPLES

#### CODE EXAMPLE 4: LOGIN REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>EmtEOJc+z969HuaLQPz77oVrCF4Muf+TJ9N/pu7x+ow=</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:LogoutRequest/>
  </soapenv:Body>
</soapenv:Envelope>
```

#### CODE EXAMPLE 5: LOGIN RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <LogoutResponse xmlns="http://www.saxobank.com/service/cms/2013/08"/>
      <LoggedOut>true</LoggedOut>
    </LogoutResponse>
  </s:Body>
</s:Envelope>
```

### 4.3.3 CHANGE PASSWORD

The password must be changed whenever the “Password Expired” (100005) error occurs. This error happens when:

- After the first login using a newly Saxo created password.
- After the first login using a Saxo reseted password.
- After the current password has been expired (this occurs every 3 months).

The WLC’s code must be prepared to receive this (100005) error message and to handle it, with an appropriate ChangePassword request.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsLoginService.svc?wsdl
End Point URL	https://enterprise.saxobank.com/cmslive/CmsLoginService.svc
ChangePassword Operation	ChangePassword

The request has the following parameters;

PARAMETER	DATA TYPE	MANDATORY	DESCRIPTION
username	String	Yes	Service Username
password	String	Yes	Hashcoded Current Password
newpassword	String	Yes	Hashcoded New Password

#### 4.3.3.1 SOAP 1.2 DEFINITION

##### REQUEST

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:ChangePasswordRequest>
      <!--Optional:-->
      <ns:NewPassword?></ns:NewPassword>
      <!--Optional:-->
      <ns:Password?></ns:Password>
      <!--Optional:-->
      <ns:UserName?></ns:UserName>
    </ns:ChangePasswordRequest>
  </soapenv:Body>
</soapenv:Envelope>
    
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:ChangePasswordResponse>
      <!--Optional:-->
      <ns:PasswordChanged?></ns:PasswordChanged>
    </ns:ChangePasswordResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

### 4.3.3.2 CODE EXAMPLES

#### CODE EXAMPLE 6: CHANGEPASSWORD REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:ChangePasswordRequest>
      <ns:NewPassword>65sraD/dVWNP6Dv8Ybst9ta14ard33UjsK5nG7JnvwY=</ns:NewPassword>
      <ns:Password>BoiLZfF7MdaJdu/A54ts+kVNAEqjcG3qfSK7ApZgigo=</ns:Password>
      <ns:UserName>UserWhite1</ns:UserName>
    </ns:ChangePasswordRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### CODE EXAMPLE 7: CHANGEPASSWORD RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="71fee9c3-8bfd-4a28-a19e-141833f610c3" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">9c20d496-826a-42c5-9596-e03f5335338b</ActivityId>
  </s:Header>
  <s:Body>
    <ChangePasswordResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <PasswordChanged>true</PasswordChanged>
    </ChangePasswordResponse>
  </s:Body>
</s:Envelope>
```

## 4.4 CMS LIVE SERVICE REQUESTS

### 4.4.1 CHANGEUSERPASSWORD

Request to change a counterpart user's password (WLC's end client password).

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?wsdl
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	ChangeUserPassword

The following parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
userID	Y	Userid of the WLC's Client
userLogin	N	Username of the WLC's Client
newPassword	Y	New Password that for the user
expireImmediately	C	"true" = first time password, user will have to change password at first attempt to login into the platform. "false"= the user will not need to change password after first login.
NewPasswordsEncrypted	N	"true" = if the newPassword is being sent encrypted. "false"= if the new Password is not being sent encrypted. This field can be left out if the new Password is not encrypted. For more information on the password encryption process please consult Appendix 8.1
EncryptionInfo	C	If PasswordsEncrypted is true this section has to be filled, if the PasswordsEncrypted is "false", this section is not read by the system, and can be left out. See 4.4.1.1 . For more information on the password encryption process please consult Appendix 8.1

#### 4.4.1.1 ENCRYPTIONINFO OBJECT

PARAMETER	MANDATORY	DESCRIPTION
RSAKeySequenceNumber	Y	Id that Saxo will pass to the WLC and that will identify the WLC's RSA config inside Saxo's systems. It will be unique for the pair[WLC, PublicKey]
AESKey	N	The encryption key that the WLC uses to AES encrypt the password is also passed to Saxo, and is public-key encrypted. This field should only be used if the Password is AES Encrypted and not RSA encrypted. For more information on the password encryption process please consult Appendix 8.1

#### 4.4.1.2 SOAP 1.2 DEFINITION

##### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:ChangeUserPasswordRequest>
      <!--Optional:-->
      <ns:EncryptionInfo>
        <!--Optional:-->
        <ns:RSAKeySequenceNumber?></ns:RSAKeySequenceNumber>
        <!--Optional:-->
        <ns:AESKey?></ns:AESKey>
      </ns:EncryptionInfo>
      <!--Optional:-->
      <ns:ExpireImmediately?></ns:ExpireImmediately>
      <!--Optional:-->
      <ns:NewPassword?></ns:NewPassword>
      <!--Optional:-->
      <ns:NewPasswordIsEncrypted?></ns:NewPasswordIsEncrypted>
      <!--Optional:-->
      <ns:UserId?></ns:UserId>
      <!--Optional:-->
      <ns>UserLogin?</ns>UserLogin>
    </ns:ChangeUserPasswordRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

##### RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body/>
</soapenv:Envelope>
```

### 4.4.1.3 CODE EXAMPLES

#### CODE EXAMPLE 8: CHANGEUSERPASSWORD REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>J8XLVeW4DLT3TLowpYFGTh81V81/3Ufgs8c1S4i/eIo=</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:ChangeUserPasswordRequest>
      <ns:ExpireImmediately>true</ns:ExpireImmediately>
      <ns:NewPassword>Jil!490Gt</ns:NewPassword>
      <ns:UserId>6453030</ns:UserId>
      <ns:UserLogin>6453030</ns:UserLogin>
    </ns:ChangeUserPasswordRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### CODE EXAMPLE 9: CHANGEUSERPASSWORD RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="d2edfc98-8c0d-42ce-b96d-c1b83a0a2218" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">0327564c-ba3f-411d-95cb-29d57d2e2cdb</ActivityId>
  </s:Header>
  <s:Body/>
</s:Envelope>
```

## 4.4.2 CREATEACCOUNT

Request to create an account under a specified counterpart.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?wsdl
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	CreateAccount

The following parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
Account	Y	The Account object. See Section 4.4.2.1 for details.
TemplateId	Y	Id of the account template. Saxo Bank will create the account template. This template sets all default values of the account that are not included as in parameters.

## 4.4.2.1 ACCOUNT OBJECT

PARAMETER	MANDATORY	DESCRIPTION
CounterPartID	Create: Y Update: N	Id of the counterpart where the account will be created.
AccountNumber	Create: N Update: Y	Also known as the AttainKey. Must not be blank. Must start with <OmnibusAccountNumber>/ and contain max 16 characters. Only alpha numeric characters, '/' and '-' are allowed. The prefix (<OmnibusAccountNumber>/) is 6 characters. It means that the WLC can specify another 10 characters. All characters should be uppercase and will be converted to upper case characters on the server if not. This key must be unique in the system.
Description	N	Description.
Currency	N	Currency of the account.
InternalAccountNumber	N	Also known as the wplInternalAccountNumber. It's the WLC's internal account id.
CommissiopGroupld	N	Commission Id to apply to the account. Possible values, for this field, can be retrieved from the GetDataItemTypes request.
Iban	N	Iban number of account. Saxo Internal usage, do not fill it in please,
AccountRiskProfileld	N	The Account Risk Profile Ids. Possible values can be retrieved through the GetDataItemTypes request.
Active	N	By default active. Important to have the right checks before account is inactivated.
TradableInstrumentIds	N	The tradable instruments. Possible values can be retrieved through the GetDataItemTypes request. If not filled in default value taken from template.
VPAccount	N	The VP Account Object. To be used only by Nordic countries. See Section 4.4.2.2 for details
MaxCreditLine	N	The max credit line of the account.
WealthManagementEnabled	N	If wealth management is enabled for the account. If not filled in, default value taken from template.
MoneyManagerFeeProfileld	N	Money Manager Fee Profile. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from template.
CfdFinanceProfileld	N	CFD Finance Profile. Allowed values can be retrieved from GetDataItemTypes request. If not filled, in default value taken from template.
AccountGroupIds	N	Client Groups on an account level; this overrides the Counterpart client groups. If not filled in, default value taken from template.
FXForwardProfileld	N	FX Foward Profile. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from template.
FXSpotForwardProfileld	N	FX Spot Forward Profile Id. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from template.
CarryingCostProfileld	N	Carrying Cost Profile. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from template.
HoldingFeeProfileld	N	Holding Fee Profile. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from template.
VMinTransferAmount	N	Variation Margin Min Transfer Amount. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from template.
VMinTransferAmountCurrency	N	Variation Margin Min Transfer Amount Currency. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from template.



## 4.4.2.2 VP ACCOUNT OBJECT

PARAMETER	MANDATORY	DESCRIPTION
AccountNumber	Y	Specify if the account has a VP depot.
CdIdentNumber	N	The CD Ident Number for the account. Taken from Template
RegisterToName	N	Specify if account has a VP depot.
DividendTaxStatusId	N	The Dividend Tax Status Id of the account. Possible values can be retrieved through the GetDataItemTypes request.

## 4.4.2.3 SOAP 1.2 DEFINITION

## REQUEST

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:CreateAccountRequest>
      <!--Optional:-->
      <ns:Account>
        <!--Optional:-->
        <ns:CounterpartId?></ns:CounterpartId>
        <ns:AccountNumber?></ns:AccountNumber>
        <!--Optional:-->
        <ns:Description?></ns:Description>
        <!--Optional:-->
        <ns:Currency?></ns:Currency>
        <!--Optional:-->
        <ns:InternalAccountNumber?></ns:InternalAccountNumber>
        <!--Optional:-->
        <ns:CommissionGroupId?></ns:CommissionGroupId>
        <!--Optional:-->
        <ns:Iban?></ns:Iban>
        <!--Optional:-->
        <ns:AccountRiskProfileId?></ns:AccountRiskProfileId>
        <!--Optional:-->
        <ns:Active?></ns:Active>
        <!--Optional:-->
        <ns:TradableInstrumentIds>
          <!--Zero or more repetitions:-->
          <arr:int?></arr:int>
        </ns:TradableInstrumentIds>
        <!--Optional:-->
        <ns:VPAccount>

```

```

    <ns:AccountNumber>?</ns:AccountNumber>
    <!--Optional:-->
    <ns:CdIdentNumber>?</ns:CdIdentNumber>
    <!--Optional:-->
    <ns:RegisterToName>?</ns:RegisterToName>
    <!--Optional:-->
    <ns:DividendTaxStatusId>?</ns:DividendTaxStatusId>
</ns:VPAccount>
<!--Optional:-->
<ns:MaxCreditLine>?</ns:MaxCreditLine>
<!--Optional:-->
<ns>WealthManagementEnabled>?</ns>WealthManagementEnabled>
<!--Optional:-->
<ns:MoneyManagerFeeProfileId>?</ns:MoneyManagerFeeProfileId>
<!--Optional:-->
<ns:CfdFinanceProfileId>?</ns:CfdFinanceProfileId>
<!--Optional:-->
<ns:AccountGroupIds>
  <!--Zero or more repetitions:-->
  <arr:int>?</arr:int>
</ns:AccountGroupIds>
<!--Optional:-->
<ns:FXForwardProfileId>?</ns:FXForwardProfileId>
<!--Optional:-->
<ns:FXSpotForwardProfileId>?</ns:FXSpotForwardProfileId>
<!--Optional:-->
<ns:CarryingCostProfileId>?</ns:CarryingCostProfileId>
<!--Optional:-->
<ns:HoldingFeeProfileId>?</ns:HoldingFeeProfileId>
<!--Optional:-->
<ns:VMMinTransferAmount>?</ns:VMMinTransferAmount>
<!--Optional:-->
<ns:VMMinTransferAmountCurrency>?</ns:VMMinTransferAmountCurrency>
</ns:Account>
<!--Optional:-->
  <ns:TemplateId>?</ns:TemplateId>
</ns>CreateAccountRequest>
</soapenv:Body>
</soapenv:Envelope>

```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:CreateAccountResponse>
      <!--Optional:-->
      <ns:AccountNumber>?</ns:AccountNumber>
    </ns:CreateAccountResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 4.4.2.4 CODE EXAMPLES

**CODE EXAMPLE 10: CREATEACCOUNT REQUEST**

```

<soapenv:Envelope xmlns:i="http://www.w3.org/2001/XMLSchema-
instance" xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxob
ank.com/service/cms/2013/08" xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arra
ys">
  <soapenv:Header>
    <ns:SessionId>J8XLVeW4DLT3TLowpYFGTh81V81/3Ufgs8c1S4i/eIo=</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <req:CreateAccountRequest xmlns:req="http://www.saxobank.com/service/cms/2013/08">
      <Account xmlns="http://www.saxobank.com/service/cms/2013/08">
        <CounterpartId>3006888</CounterpartId>
        <AccountNumber>33930/7891123457</AccountNumber>
      </Account>
      <TemplateId xmlns="http://www.saxobank.com/service/cms/2013/08">41080</TemplateId>
    </req:CreateAccountRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

**CODE EXAMPLE 11: CREATEACCOUNT RESPONSE**

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="219f61b7-3077-4921-8d5f-
696ebd66dbdf" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">e394fd2c-
96ae-46ca-9f37-7c1b38d8bdd3</ActivityId>
  </s:Header>
  <s:Body>
    <CreateAccountResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <AccountNumber>33930/7891123457</AccountNumber>
    </CreateAccountResponse>
  </s:Body>
</s:Envelope>

```

### 4.4.3 CREATECOUNTERPART

Request to create a counterpart under a specified owner as well as a number of accounts and users.

SUBJECT	URL
WSDL	<a href="https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL">https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL</a>
End Point URL	<a href="https://enterprise.saxobank.com/cmslive/CmsService.svc">https://enterprise.saxobank.com/cmslive/CmsService.svc</a>
Operation	CreateCounterpart

The following parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
Accounts	Y	A list of AccountCreationInfo objects. See Section 4.4.3.1 for details.
Counterpart	Y	The Counterpart object. See Section 4.4.3.2 for details.
SimCounterpartId	N	CounterpartId of a lead that exists in simulation, under the WLC's Owner in the the Simulation environment. This field is to be used if the WLC wishes to create a Live client with the same id that the client had as a lead in the simulation environment. (This will allow the WLC to keep track of the conversions of leads to live clients.)
TemplateId	Y	Id of the counterpart template. Saxo Bank will create the Counterpart template. This template sets all default values of the Counterpart that are not included as in parameters.
Users	Y	A list of User objects See Section 0 for details
EncryptionInfo	N	See Section 4.4.1.1 for details

#### 4.4.3.1 ACCOUNTCREATIONINFO OBJECT

PARAMETER	MANDATORY	DESCRIPTION
Account	Y	The Account object. See Section 4.4.2.1
TemplateId	Y	Id of the account template. Saxo Bank will create the account template. This template sets all default values of the account that are not included as in parameters.

#### 4.4.3.2 COUNTERPART OBJECT

PARAMETER	MANDATORY	DESCRIPTION
OwnerId	Y	Owner Id of the Counterpart
CounterpartId	Create: N Update: Y	Counterpart Id (other word for Client Id), only specified for updates.
Name	N	Name given to the Counterpart. If not defined the value will be set to the same as the CounterpartID (automatically generated by Saxo)
BaseCurrency	N	Base currency for the counterpart. If not filled in, default value taken from Counterpart template.
IsProfessional	N	"false" = Not professional "true" = Is Professional
Language	Y	Language ISO (639-1) code of counterpart, e.g. DA. Possible values, for this field, can be retrieved from the GetDataItemTypes request.
CountryOfResidence	Y	Must be set by the WLC. Possible values, for this field, can be retrieved from the GetDataItemTypes request.
TaxCountry	Y	Must be set by the WLC. Possible values, for this field, can be retrieved from the

		GetDataItemTypes request.
Email	N	Should NOT be used! For internal usage only.
CompanyRegistrationNumber	N	Should not be supplied.
Active	N	Whether the Counterpart is active or not. Should not be created as inactive.
MarginProfileId	N	Should not be supplied during create.
MarginCallProfileId	N	Should not be supplied during create.
ProductClassifications	N	A list of Product Classification objects See Section 4.4.3.4 for details.
ReliefAtSource	N	A Relief at Source object. See Section 4.4.3.5 for details.
Vat	N	A Vat object. See Section 4.4.3.6 for details
SwissTax	N	A Swiss Tax object. Should not be supplied. See Section 4.4.3.7 for details.
CounterpartType	N	Private or Corporate
WealthManagementProfileId	N	The Id of the WealthManagementsProfile. Possible values for this field can be retrieved from the GetDataItemTypes
Emir	N	The Emir object. Trade Reporting functionality is an optional set of input parameters made up by 2 tags that can be added to the body of the CreateCounterpart request. See Section 4.4.3.10 for details
WlcEndClientName	N	Name of the WLC's Client. Information encrypted within Saxo systems. (Used for Relief at source functionality)
feeProfileIds	N	Fee profile Id. Possible values, for this field, can be retrieved from the GetDataItemTypes request. If not filled in, default value taken from Counterpart template.
CounterpartGroupIds	N	Client group Ids Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from Counterpart template.
WithholdingTaxProfileId	N	Withholding Tax Profile Id Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from Counterpart template.
PositionNettingModelId	N	Position Netting Model, ie; Intraday Netting or EOD Netting. Possible Id values, for this field, can be retrieved from the GetDataItemTypes request. If not filled in, default value taken from Counterpart template
StopoutModelId	N	Stopout Mode. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from Counterpart template.
CollateralProfile	N	Collateral Profile. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from Counterpart template.
ContractOptionsTradingProfile	N	Contract Options Trading Profile. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from Counterpart template.
EntityType	N	Entity Ttpe, possible values <ul style="list-style-type: none"> <li>• 0 - Unknown</li> <li>• 1 – Organisation</li> <li>• 2 – Individual</li> </ul> <p>If you chose a value diferent from “Unknown” you will not be able to update it afterwards.</p>
VMPProductScope	N	Variation Margin Product Scope. Allowed values can be retrieved from GetDataItemTypes request. If not filled in, default value taken from Counterpart template.
VariationMarginEligibility	N	Variation Margin Eligibility If not filled in, default value taken from Counterpart template
RegisteredAddress	N	Registered address of organization. Collection of Registered Address fields. This is considered PII data, Please consult Saxo in order to approve the usage of this field. See Section 4.4.3.11 or details.
Tin	N	Tax Id

---

		This is considered PII data, Please consult Saxo in order to approve the usage of this field.
OrganisationInfo	N	Collection of Organisation related fields. This is considered PII data, Please consult Saxo in order to approve the usage of this field. See Section 4.4.3.44.4.3.12 for details.
CustodyInfo	N	Not to be used.
UltimateParentInfo	N	Parent Entity Info See Section 0 4.4.3.4for details.

---

## 4.4.3.3 USER OBJECT

PARAMETER	MANDATORY	DESCRIPTION
CounterpartId	N	The Counterpart id – the id the User is to be created under. Not to be supplied when doing a Counterpart Create.
UserId	Create: N Update: Y	The User Id. Not to be supplied during creates.
Login	N	String length [4, 32] characters. This name must be unique in the system. This parameter can be set to empty string if the user login should be set to the same as the created counterpart id.
Name	N	The name of the WLC's client's name.
Tin	N	The Tin of the User.
Password	N	The Password
Active	N	Whether the User is active or not.
AccessProfile	N	Id of the Access profile to associate to the user. Possible values, for this field, can be retrieved from the GetDataItemTypes request.
LockedOut	N	For creation, will be set to true by template.
NationalTins	N	A list of National Tin objects. See Section 4.4.3.8 for details.
Nationality	N	Nationality of the user
PasswordIsEncrypted	N	"true" = if the Password is being sent encrypted. If the this fiels is set to true the encryption details are read from the EncryptionInfo object (more details on the EncryptionInfo Object at 4.4.1.1). "false"= if the Password is not being sent encrypted. This field can be left out if the Password is not encrypted. For more information on the password encryption process please consult Appendix 8.1
PasswordOnly	N	True = No User Key needs to be provided when logging into Client Station. False = User Key needs to be generated and approved, in order to login into Cleint Station
WlcEndClientName	N	End User PII Data Object This is considred PII data, Please consult Saxo in order to approve the usage of this field. For more details please consult 4.4.3.14
RegisteredAddress	N	User's Registered Address Collection of Registered Address fields. This is considred PII data, Please consult Saxo in order to approve the usage of this field. See Section 4.4.3.11 or details.
CityOfBirth	N	City of Birth. This is considred PII data, Please consult Saxo in order to approve the usage of this field.
CountryOfBirth	N	Country of Birth This is considred PII data, Please consult Saxo in order to approve the usage of this field.
DateOfBirth	N	Date of Birth This is considred PII data, Please consult Saxo in order to approve the usage of this field.
ResidentCertificateDate	N	Resident Certificate Date This is considred PII data, Please consult Saxo in order to approve the usage of this field.
Role	N	Role of user in the company This is considred PII data, Please consult Saxo in order to approve the usage of this field. For more details please consult 4.4.3.15
Email	N	User's Email This is considred PII data, Please consult Saxo in order to approve the usage of this field.
PersonalIdInfo	N	Personal Id Info This is considred PII data, Please consult Saxo in order to approve the usage of this field. For more details please consult 4.4.3.16



## 4.4.3.4 PRODUCT CLASSIFICATION OBJECT

PARAMETER	MANDATORY	DESCRIPTION
ProductAreald	Y	If MiFID classification is taken for a specific product, this field must be specified. Possible values, for this field, can be retrieved from the GetDataItemTypes request.
ProductClassificationId	Y	If MiFID classification is taken for a specific product, this field must be specified. Possible values, for this field, can be retrieved from the GetDataItemTypes request.
AppropriatenessTestPassedId	N	If MiFID classification is taken for a specific product, this field must be specified. Possible values, for this field, can be retrieved from the GetDataItemTypes request.

## 4.4.3.5 RELIEF AT SOURCE OBJECT

PARAMETER	MANDATORY	DESCRIPTION
Enabled	Y	Of type Boolean. If filled the expected values are: "true" or "false".
TypeId	Y	Type, e.g. "Danish companies reduced tax". Possible values, for this field, can be retrieved from the GetDataItemTypes request.
ExpiryDate	N	Date. If DocType = 13 then set value to 0001-01-01.
Nifid	N	WLC's Client Tax Identification. Length equals to 9.

## 4.4.3.6 VAT OBJECT

PARAMETER	MANDATORY	DESCRIPTION
Percentage	Y	Taken from template as standard.
Forced	Y	Set to false as standard.

## 4.4.3.7 SWISS TAX OBJECT

PARAMETER	MANDATORY	DESCRIPTION
BrokerIntroduced	N	Should not be supplied.
StampDutyExempt	N	Should not be supplied.
Residency	N	Should not be supplied.

## 4.4.3.8 NATIONAL TIN OBJECT

PARAMETER	MANDATORY	DESCRIPTION
Country	Y	The Country the National Tin is from.
Tin	Y	The National Tin (Tax Identification Number).

#### 4.4.3.9 RELIEF AT SOURCE

This section of parameters is optional, but if the White Label wishes to use the functionality, two items must be in place, before the White Label can use the reliefAtSourceInfo fields:

- 1) White Label must sign an additional addendum to the White Label agreement
- 2) Additional configuration of the White Label’s account structure is required

When requesting this functionality through the CreateCounterpart request the below information must be filled in for each client you would like to offer relief at source on Portuguese shares:

- **End client’s full name:** This value is to be presented in the wlcEndClientName parameter of the CreateCounterpart request.
- **Tax country:** This value is to be presented in the COUNTRY parameter of the CreateCounterpart request.
- **Relief at Source Section Parameters:** Please refer to the following chapter for more details on these fields.

Consequences of wrong information filled in these fields are:

- The client will not obtain reduced tax rate on dividends
- Other clients holding the same ISIN might not obtain reduced right either if the total positions for each tax bracket are wrong.
- The tax reporting to Portuguese authority will be rejected with wrong information,
- Potentially a cost of manual correction afterwards.

##### 4.4.3.9.1 Relief at Source Section Parameters

The Relief at Source functionality is an optional set of input parameters made up by the fields found in Section 4.4.3.5.

#### Section Parameter Rules:

1. The entire section is optional. However if it provided, the mandatory parts must be provided.
2. When it is there, the relief at source information will be used for creating the counterpart.
3. When it is provided the owner must be enabled for relief at source information, if not a validation message will be thrown.
4. When setting relief at source information a valid doc type for the owner must be specified.
5. When the selected document type is a Portuguese doc type a nif must be specified that follows the format rules for nif ids.

#### Valid Document Types for reduced tax:

SUBJECT	DOC ID	URL
Disc. local corp(PT)	13	Disclosed local corporate
Disc. foreign corp(PT)	16	Disclosed foreign corporate
Disc. local indiv(PT)	19	Disclosed local individual
Disc. foreign indiv(PT)	22	Disclosed foreign individual

## 4.4.3.10 EMIR OBJECT

PARAMETER	MANDATORY	DESCRIPTION
IsFinancial	Y	Boolean field indicating financial classification of client. If filled the expected values are: "true" or "false".
LeiCode	C	Legal Entity Identifier If IsFinancial is "false" then LEI can be empty or exactly 20 chars. If IsFinancial is "true" then LEI has to be exactly 20 char.

## 4.4.3.11 REGISTERED ADDRESS OBJECT

PARAMETER	MANDATORY IF ADDRESS OBJECT IS USED	DESCRIPTION
BuildingNumber	Y	Building Number
Country	Y	Country ISO code, two letters, e.g. "ES"
PostalCode	Y	Postal Code
StateOrProvince	Y	State or Province
StreetName	Y	Name of Street. See
StreetType	Y	Type of Street. Please consult Appendix 8.2 for allowed values
Town	Y	Town

## 4.4.3.12 ORGANISATION INFO OBJECT

PARAMETER	MANDATORY IF THIS OBJECT IS USED	DESCRIPTION
DGCICode	Y	DGCI Code. Please consult 8.3 for allowed values
DateOfIncorporation	Y	Date Of Incorporation
NaceCode	Y	Nace Code. Allowed values can be found at: <a href="http://ec.europa.eu/competition/mergers/cases/index/nace_all.html">http://ec.europa.eu/competition/mergers/cases/index/nace_all.html</a>
CollectiveInvestmentSchemeStatus	N	Collective Investment Scheme Status

## 4.4.3.13 ULTIMATE PARENT INFO OBJECT

PARAMETER	MANDATORY IF THIS OBJECT IS USED	DESCRIPTION
Email	Y	Parent Email
LeiCode	Y	Parent LEI Code

## 4.4.3.14 WLC END CLIENT NAME OBJECT

PARAMETER	MANDATORY IF THIS OBJECT IS USED	DESCRIPTION
FirstName	Y	User's First Name
LastName1	Y	User's First Surname
LastName2	N	Optional: User's Second Surname

4.4.3.15 ROLE OBJECT

PARAMETER	MANDATORY IF THIS OBJECT IS USED	DESCRIPTION
OwnershipPercentage	N	Percentage of ownership  OwnershipPercentage is only required for joint accounts if the contract is not owned with equally parts. If specified it must sum up 100% for all users under a contract/counterpart.
RoleType	Y	Type of Role within the company  <b>RoleType:</b> 1 - Owner 2 - Legal Representative 3 - BareOwner 4 - Usufruct 5 - Underage 6 - PoA  <b>Single account holder contract:</b> Contains only one individual person.  <b>Multiple account holders contract (joint account):</b> Contains more than one individual person.  OwnershipPercentage is only required for joint accounts if the contract is not owned with equally parts. If specified it must sum up 100% for all users under a contract/counterpart.  <b>Underage contract:</b> Must contain one individual of role Underage and one individual of role Legal Representative.

4.4.3.16 PERSONAL ID INFO OBJECT

PARAMETER	MANDATORY IF THIS OBJECT IS USED	DESCRIPTION
Id	Y	Identification number of document
Type	Y	Document Type Allowed values can be retrieved from GetDataItemsTypes request.

## 4.4.3.17 SOAP 1.2 DEFINITION

## REQUEST

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:CreateCounterpartRequest>
      <!--Optional:-->
      <ns:Accounts>
        <!--Zero or more repetitions :-->
        <ns:AccountCreateInfo>
          <ns:Account>
            <!--Optional:-->
            <ns:CounterpartId?></ns:CounterpartId>
            <ns:AccountNumber?></ns:AccountNumber>
            <!--Optional:-->
            <ns:Description?></ns:Description>
            <!--Optional:-->
            <ns:Currency?></ns:Currency>
            <!--Optional:-->
            <ns:InternalAccountNumber?></ns:InternalAccountNumber>
            <!--Optional:-->
            <ns:CommissionGroupId?></ns:CommissionGroupId>
            <!--Optional:-->
            <ns:Iban?></ns:Iban>
            <!--Optional:-->
            <ns:AccountRiskProfileId?></ns:AccountRiskProfileId>
            <!--Optional:-->
            <ns:Active?></ns:Active>
            <!--Optional:-->
            <ns:TradableInstrumentIds>
              <!--Zero or more repetitions:-->
              <arr:int?></arr:int>
            </ns:TradableInstrumentIds>
            <!--Optional:-->
            <ns:VPAccount>
              <ns:AccountNumber?></ns:AccountNumber>
              <!--Optional:-->
              <ns:CdIdentNumber?></ns:CdIdentNumber>
              <!--Optional:-->
              <ns:RegisterToName?></ns:RegisterToName>
            </ns:VPAccount>
          </ns:Account>
        </ns:AccountCreateInfo>
      </ns:Accounts>
    </ns:CreateCounterpartRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

```

        <!--Optional:-->
        <ns:DividendTaxStatusId?></ns:DividendTaxStatusId>
    </ns:VPAccount>
    <!--Optional:-->
    <ns:MaxCreditLine?></ns:MaxCreditLine>
    <!--Optional:-->
    <ns:WealthManagementEnabled?></ns:WealthManagementEnabled>
    <!--Optional:-->
    <ns:MoneyManagerFeeProfileId?></ns:MoneyManagerFeeProfileId>
    <!--Optional:-->
    <ns:CfdFinanceProfileId?></ns:CfdFinanceProfileId>
    <!--Optional:-->
    <ns:AccountGroupIds>
        <!--Zero or more repetitions:-->
        <arr:int?></arr:int>
    </ns:AccountGroupIds>
    <!--Optional:-->
    <ns:FXForwardProfileId?></ns:FXForwardProfileId>
    <!--Optional:-->
    <ns:FXSpotForwardProfileId?></ns:FXSpotForwardProfileId>
    <!--Optional:-->
    <ns:CarryingCostProfileId?></ns:CarryingCostProfileId>
    <!--Optional:-->
    <ns:HoldingFeeProfileId?></ns:HoldingFeeProfileId>
    <!--Optional:-->
    <ns:VMMinTransferAmount?></ns:VMMinTransferAmount>
    <!--Optional:-->
    <ns:VMMinTransferAmountCurrency?></ns:VMMinTransferAmountCurrency>
</ns:Account>
    <ns:TemplateId?></ns:TemplateId>
</ns:AccountCreateInfo>
</ns:Accounts>
<!--Optional:-->
<ns:Counterpart>
    <!--Optional:-->
    <ns:OwnerId?></ns:OwnerId>
    <!--Optional:-->
    <ns:CounterpartId?></ns:CounterpartId>
    <!--Optional:-->
    <ns:Name?></ns:Name>
    <!--Optional:-->
    <ns:BaseCurrency?></ns:BaseCurrency>
    <!--Optional:-->
    <ns:IsProfessional?></ns:IsProfessional>
    <!--Optional:-->

```

```
<ns:Language>?</ns:Language>
<!--Optional:-->
<ns:CountryOfResidence>?</ns:CountryOfResidence>
<!--Optional:-->
<ns:TaxCountry>?</ns:TaxCountry>
<!--Optional:-->
<ns:Email>?</ns:Email>
<!--Optional:-->
<ns:CompanyRegistrationNumber>?</ns:CompanyRegistrationNumber>
<!--Optional:-->
<ns:Active>?</ns:Active>
<!--Optional:-->
<ns:MarginProfileId>?</ns:MarginProfileId>
<!--Optional:-->
<ns:MarginCallProfileId>?</ns:MarginCallProfileId>
<!--Optional:-->
<ns:ProductClassifications>
  <!--Zero or more repetitions:-->
  <ns:ProductAreaClassification>
    <ns:ProductAreaId>?</ns:ProductAreaId>
    <ns:ProductClassificationId>?</ns:ProductClassificationId>
    <!--Optional:-->
    <ns:AppropriatenessTestPassedId>?</ns:AppropriatenessTestPassedId>
  </ns:ProductAreaClassification>
</ns:ProductClassifications>
<!--Optional:-->
<ns:ReliefAtSource>
  <ns:Enabled>?</ns:Enabled>
  <ns:TypeId>?</ns:TypeId>
  <!--Optional:-->
  <ns:ExpiryDate>?</ns:ExpiryDate>
  <!--Optional:-->
  <ns:NifId>?</ns:NifId>
</ns:ReliefAtSource>
<!--Optional:-->
<ns:Vat>
  <ns:Percentage>?</ns:Percentage>
  <ns:Forced>?</ns:Forced>
</ns:Vat>
<!--Optional:-->
<ns:SwissTax>
  <!--Optional:-->
  <ns:BrokerIntroduced>?</ns:BrokerIntroduced>
  <!--Optional:-->
  <ns:StampDutyExempt>?</ns:StampDutyExempt>
```

```

        <!--Optional:-->
        <ns:Residency>?</ns:Residency>
    </ns:SwissTax>
    <!--Optional:-->
    <ns:CounterpartType>?</ns:CounterpartType>
    <!--Optional:-->
    <ns:WealthManagementProfileId>?</ns:WealthManagementProfileId>
    <!--Optional:-->
    <ns:Emir>
        <!--Optional:-->
        <ns:IsFinancial>?</ns:IsFinancial>
        <!--Optional:-->
        <ns:LeiCode>?</ns:LeiCode>
    </ns:Emir>
    <!--Optional:-->
    <ns:WlcEndClientName>?</ns:WlcEndClientName>
    <!--Optional:-->
    <ns:FeeProfileIds>
        <!--Zero or more repetitions:-->
        <arr:int>?</arr:int>
    </ns:FeeProfileIds>
    <!--Optional:-->
    <ns:CounterpartGroupIds>
        <!--Zero or more repetitions:-->
        <arr:int>?</arr:int>
    </ns:CounterpartGroupIds>
    <!--Optional:-->
    <ns:WithholdingTaxProfileId>?</ns:WithholdingTaxProfileId>
    <!--Optional:-->
    <ns:PositionNettingModeId>?</ns:PositionNettingModeId>
    <!--Optional:-->
    <ns:StopoutModeId>?</ns:StopoutModeId>
    <!--Optional:-->
    <ns:CollateralProfile>?</ns:CollateralProfile>
    <!--Optional:-->
    <ns:ContractOptionsTradingProfile>?</ns:ContractOptionsTradingProfile>
    <!--Optional:-->
    <ns:EntityType>?</ns:EntityType>
    <!--Optional:-->
    <ns:VMProductScope>?</ns:VMProductScope>
    <!--Optional:-->
    <ns:VariationMarginEligibility>?</ns:VariationMarginEligibility>
    <!--Optional:-->
    <ns:CustodyInfo>
        <!--Optional:-->

```



```
<ns:SpanishCustodyInfo>
  <!--Optional:-->
  <ns:IndividualAccountMutualFunds>
    <!--Optional:-->
    <ns:CustodyAccountNumber?></ns:CustodyAccountNumber>
    <!--Optional:-->
    <ns:RequestStatus?></ns:RequestStatus>
    <!--Optional:-->
    <ns:RequestStatusReason?></ns:RequestStatusReason>
    <!--Optional:-->
    <ns:State?></ns:State>
  </ns:IndividualAccountMutualFunds>
  <!--Optional:-->
  <ns:IndividualAccountShares>
    <!--Optional:-->
    <ns:CustodyAccountNumber?></ns:CustodyAccountNumber>
    <!--Optional:-->
    <ns:RequestStatus?></ns:RequestStatus>
    <!--Optional:-->
    <ns:RequestStatusReason?></ns:RequestStatusReason>
    <!--Optional:-->
    <ns:State?></ns:State>
  </ns:IndividualAccountShares>
</ns:SpanishCustodyInfo>
</ns:CustodyInfo>
<!--Optional:-->
<ns:OrganisationInfo>
  <!--Optional:-->
  <ns:DGCIcode?></ns:DGCIcode>
  <!--Optional:-->
  <ns:DateOfIncorporation?></ns:DateOfIncorporation>
  <!--Optional:-->
  <ns:NaceCode?></ns:NaceCode>
  <!--Optional:-->
<ns:CollectiveInvestmentSchemeStatus?></ns:CollectiveInvestmentSchemeStatus>
</ns:OrganisationInfo>
<!--Optional:-->
<ns:RegisteredAddress>
  <!--Optional:-->
  <ns:BuildingNumber?></ns:BuildingNumber>
  <!--Optional:-->
  <ns:Country?></ns:Country>
  <!--Optional:-->
  <ns:PostalCode?></ns:PostalCode>
  <!--Optional:-->

```

```
<ns:StateOrProvince?></ns:StateOrProvince>
<!--Optional:-->
<ns:StreetName?></ns:StreetName>
<!--Optional:-->
<ns:StreetType?></ns:StreetType>
<!--Optional:-->
<ns:Town?></ns:Town>
</ns:RegisteredAddress>
<!--Optional:-->
<ns:Tin?></ns:Tin>
<!--Optional:-->
<ns:UltimateParentInfo>
  <!--Optional:-->
  <ns:Email?></ns:Email>
  <!--Optional:-->
  <ns:LeiCode?></ns:LeiCode>
</ns:UltimateParentInfo>
</ns:Counterpart>
<!--Optional:-->
<ns:EncryptionInfo>
  <!--Optional:-->
  <ns:RSAKeySequenceNumber?></ns:RSAKeySequenceNumber>
  <!--Optional:-->
  <ns:AESKey?></ns:AESKey>
</ns:EncryptionInfo>
<!--Optional:-->
<ns:SimCounterpartId?></ns:SimCounterpartId>
<!--Optional:-->
<ns:TemplateId?></ns:TemplateId>
<!--Optional:-->
<ns:Users>
  <!--Zero or more repetitions:-->
  <ns:User>
    <!--Optional:-->
    <ns:CounterpartId?></ns:CounterpartId>
    <!--Optional:-->
    <ns:UserId?></ns:UserId>
    <!--Optional:-->
    <ns>Login?</ns>Login>
    <!--Optional:-->
    <ns>Name?</ns>Name>
    <!--Optional:-->
    <ns>Tin?</ns>Tin>
    <!--Optional:-->
    <ns>Password?</ns>Password>
```

```
<!--Optional:-->
<ns:Active>?</ns:Active>
<!--Optional:-->
<ns:AccessProfile>?</ns:AccessProfile>
<!--Optional:-->
<ns:LockedOut>?</ns:LockedOut>
<!--Optional:-->
<ns:NationalTins>
  <!--Zero or more repetitions:-->
  <ns:NationalTin>
    <ns:Country>?</ns:Country>
    <ns:Tin>?</ns:Tin>
  </ns:NationalTin>
</ns:NationalTins>
<!--Optional:-->
<ns:Nationality>?</ns:Nationality>
<!--Optional:-->
<ns>PasswordIsEncrypted>?</ns>PasswordIsEncrypted>
<!--Optional:-->
<ns>PasswordOnly>?</ns>PasswordOnly>
<!--Optional:-->
<ns:WlcEndClientName>
  <!--Optional:-->
  <ns:FirstName>?</ns:FirstName>
  <!--Optional:-->
  <ns:LastName1>?</ns:LastName1>
  <!--Optional:-->
  <ns:LastName2>?</ns:LastName2>
</ns:WlcEndClientName>
<!--Optional:-->
<ns:RegisteredAddress>
  <!--Optional:-->
  <ns:BuildingNumber>?</ns:BuildingNumber>
  <!--Optional:-->
  <ns:Country>?</ns:Country>
  <!--Optional:-->
  <ns:PostalCode>?</ns:PostalCode>
  <!--Optional:-->
  <ns:StateOrProvince>?</ns:StateOrProvince>
  <!--Optional:-->
  <ns:StreetName>?</ns:StreetName>
  <!--Optional:-->
  <ns:StreetType>?</ns:StreetType>
  <!--Optional:-->
  <ns:Town>?</ns:Town>
```

```
</ns:RegisteredAddress>
<!--Optional:-->
<ns:CityOfBirth?></ns:CityOfBirth>
<!--Optional:-->
<ns:CountryOfBirth?></ns:CountryOfBirth>
<!--Optional:-->
<ns:DateOfBirth?></ns:DateOfBirth>
<!--Optional:-->
<ns:ResidentCertificateDate?></ns:ResidentCertificateDate>
<!--Optional:-->
<ns:Role>
  <!--Optional:-->
  <ns:OwnershipPercentage?></ns:OwnershipPercentage>
  <!--Optional:-->
  <ns:RoleType?></ns:RoleType>
</ns:Role>
<!--Optional:-->
<ns:Email?></ns:Email>
<!--Optional:-->
<ns:PersonalIdInfo>
  <!--Optional:-->
  <ns:Id?></ns:Id>
  <!--Optional:-->
  <ns:Type?></ns:Type>
</ns:PersonalIdInfo>
</ns:User>
</ns:Users>
</ns:CreateCounterpartRequest>
</soapenv:Body>
</soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:CreateCounterpartResponse>
      <!--Optional:-->
      <ns:AccountNumbers>
        <!--Zero or more repetitions:-->
        <arr:string?</arr:string>
      </ns:AccountNumbers>
      <!--Optional:-->
      <ns:CounterpartId?</ns:CounterpartId>
      <!--Optional:-->
      <ns:UserIds>
        <!--Zero or more repetitions:-->
        <arr:int?</arr:int>
      </ns:UserIds>
    </ns:CreateCounterpartResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 4.4.3.18 CODE EXAMPLES

## CODE EXAMPLE 12: CREATECOUNTERPART REQUEST

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08" xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId>J8XLVeW4DLT3TLowpYFGTh81V81/3Ufgs8clS4i/eIo=</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:CreateCounterpartRequest>
      <ns:Accounts>
        <ns:AccountCreateInfo>
          <ns:Account>
            <ns:AccountNumber>33930/Test125</ns:AccountNumber>
            <ns:Description>Test</ns:Description>
            <ns:Currency>USD</ns:Currency>
            <ns:InternalAccountNumber>test</ns:InternalAccountNumber>
            <ns:CommissionGroupId>19184</ns:CommissionGroupId>
            <ns:Iban>223456</ns:Iban>
            <ns:AccountRiskProfileId>0</ns:AccountRiskProfileId>
            <ns:Active>>true</ns:Active>
            <ns:TradableInstrumentIds>
              <arr:int>16384</arr:int>
            </ns:TradableInstrumentIds>
          </ns:Account>
          <ns:TemplateId>41080</ns:TemplateId>
        </ns:AccountCreateInfo>
      </ns:Accounts>
      <ns:Counterpart>
        <ns:OwnerId>3006888</ns:OwnerId>
        <ns:Language>EN</ns:Language>
        <ns:CountryOfResidence>DK</ns:CountryOfResidence>
        <ns:TaxCountry>DK</ns:TaxCountry>
        <ns:Email>mail@tst.dom</ns:Email>
        <ns:Active>>true</ns:Active>
      </ns:Counterpart>
      <ns:TemplateId>41079</ns:TemplateId>
      <ns:Users>
        <!--Zero or more repetitions:-->
        <ns>User>
          <ns:Tin>12345678</ns:Tin>
          <ns>Password>password123</ns>Password>
          <ns>NationalTins>
            <ns>NationalTin>
              <ns:Country>DK</ns:Country>
              <ns:Tin>12345678</ns:Tin>
            </ns>NationalTin>
          </ns>NationalTins>
        </ns>User>
      </ns:Users>
    </ns:CreateCounterpartRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

```

        </ns:NationalTin>
    </ns:NationalTins>
    <ns:Nationality>DK</ns:Nationality>
</ns:User>
</ns:Users>
</ns:CreateCounterpartRequest>
</soapenv:Body>
</soapenv:Envelope>

```

### CODE EXAMPLE 13: CREATECOUNTERPART RESPONSE

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="b113499f-8d82-4b71-944e-
a324c019cee4" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">a66eb02e-
dc3a-4d55-9fab-fdc81b978755</ActivityId>
  </s:Header>
  <s:Body>
    <CreateCounterpartResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <AccountNumbers xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays" xmlns
:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:string>33930/Test125</a:string>
      </AccountNumbers>
      <CounterpartId>6602953</CounterpartId>
      <UserIds xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays" xmlns:i="htt
p://www.w3.org/2001/XMLSchema-instance">
        <a:int>6602953</a:int>
      </UserIds>
    </CreateCounterpartResponse>
  </s:Body>
</s:Envelope>

```

## 4.4.4 CREATEUSER

Request to create a user under a specified counterpart.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	CreateUser

The following parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
User	Y	The User object. See Section 4.4.3.3 for details.
EncryptionInfo	N	See Section 4.4.1.1 for details

### 4.4.4.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:CreateUserRequest>
      <!--Optional:-->
      <ns:EncryptionInfo>
        <!--Optional:-->
        <ns:RSAKeySequenceNumber?></ns:RSAKeySequenceNumber>
        <!--Optional:-->
        <ns:AESKey?></ns:AESKey>
      </ns:EncryptionInfo>
      <!--Optional:-->
      <ns:User>
        <!--Optional:-->
        <ns:CounterpartId?></ns:CounterpartId>
        <!--Optional:-->
        <ns:UserId?></ns:UserId>
        <!--Optional:-->
        <ns>Login?</ns>Login>
        <!--Optional:-->
        <ns>Name?></ns>Name>
        <!--Optional:-->
        <ns:Tin?></ns:Tin>
        <!--Optional:-->
        <ns>Password?></ns>Password>
      </ns:User>
    </ns:CreateUserRequest>
  </soapenv:Body>
</soapenv:Envelope>
```



```
<!--Optional:-->
<ns:Active?></ns:Active>
<!--Optional:-->
<ns:AccessProfile?></ns:AccessProfile>
<!--Optional:-->
<ns:LockedOut?></ns:LockedOut>
<!--Optional:-->
<ns:NationalTins>
  <!--Zero or more repetitions:-->
  <ns:NationalTin>
    <ns:Country?></ns:Country>
    <ns:Tin?></ns:Tin>
  </ns:NationalTin>
</ns:NationalTins>
<!--Optional:-->
<ns:Nationality?></ns:Nationality>
<!--Optional:-->
<ns>PasswordIsEncrypted?></ns>PasswordIsEncrypted>
<!--Optional:-->
<ns>PasswordOnly?></ns>PasswordOnly>
<!--Optional:-->
<ns:WlcEndClientName>
  <!--Optional:-->
  <ns:FirstName?></ns:FirstName>
  <!--Optional:-->
  <ns:LastName1?></ns:LastName1>
  <!--Optional:-->
  <ns:LastName2?></ns:LastName2>
</ns:WlcEndClientName>
<!--Optional:-->
<ns:RegisteredAddress>
  <!--Optional:-->
  <ns:BuildingNumber?></ns:BuildingNumber>
  <!--Optional:-->
  <ns:Country?></ns:Country>
  <!--Optional:-->
  <ns:PostalCode?></ns:PostalCode>
  <!--Optional:-->
  <ns:StateOrProvince?></ns:StateOrProvince>
  <!--Optional:-->
  <ns:StreetName?></ns:StreetName>
  <!--Optional:-->
  <ns:StreetType?></ns:StreetType>
  <!--Optional:-->
  <ns:Town?></ns:Town>
```

```

</ns:RegisteredAddress>
<!--Optional:-->
<ns:CityOfBirth?></ns:CityOfBirth>
<!--Optional:-->
<ns:CountryOfBirth?></ns:CountryOfBirth>
<!--Optional:-->
<ns:DateOfBirth?></ns:DateOfBirth>
<!--Optional:-->
<ns:ResidentCertificateDate?></ns:ResidentCertificateDate>
<!--Optional:-->
<ns:Role>
  <!--Optional:-->
  <ns:OwnershipPercentage?></ns:OwnershipPercentage>
  <!--Optional:-->
  <ns:RoleType?></ns:RoleType>
</ns:Role>
<!--Optional:-->
<ns:Email?></ns:Email>
<!--Optional:-->
<ns:PersonalIdInfo>
  <!--Optional:-->
  <ns:Id?></ns:Id>
  <!--Optional:-->
  <ns:Type?></ns:Type>
</ns:PersonalIdInfo>
</ns:User>
</ns:CreateUserRequest>
</soapenv:Body>
</soapenv:Envelope>

```

**RESPONSE**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:CreateUserResponse>
      <!--Optional:-->
      <ns:UserId?></ns:UserId>
    </ns:CreateUserResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

## 4.4.4.2 CODE EXAMPLES

**CODE EXAMPLE 14: CREATEUSER REQUEST**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>kSBmg5PeS62euTScOQrwQNJ+P04uci2FUr0Tpef/eCY=</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:CreateUserRequest>
      <ns:User>
        <ns:CounterpartId>6602955</ns:CounterpartId>
        <ns:Login>UserLogin</ns:Login>
        <ns:Name>NameOfUser</ns:Name>
        <ns:Tin>123456789</ns:Tin>
        <ns>Password>Password123</ns>Password>
        <ns:Active>>true</ns:Active>
        <ns:AccessProfile>187</ns:AccessProfile>
        <ns:LockedOut>1</ns:LockedOut>
        <ns:NationalTins>
          <ns:NationalTin>
            <ns:Country>DK</ns:Country>
            <ns:Tin>147258369</ns:Tin>
          </ns:NationalTin>
        </ns:NationalTins>
        <ns:Nationality>DK</ns:Nationality>
      </ns:User>
    </ns:CreateUserRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

**CODE EXAMPLE 15: CREATEUSER RESPONSE**

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="dbcbbcf7-bda7-40d0-89c9-ab2d3914872d" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">b9e47851-6e68-4033-9881-ac71b6321cbc</ActivityId>
  </s:Header>
  <s:Body>
    <CreateUserResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <UserId>6602959</UserId>
    </CreateUserResponse>
  </s:Body>
</s:Envelope>

```

## 4.4.5 GETNETEXPOSURES

This request allows you to retrieve the net exposures of an account.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetNetExposures

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
AccountNumber	N	Id of the account from where to retrieve net exposure information. The AccountNumber OR the CounterpartId must be specified.
CounterpartId	N	Counterpart Id to retrieve Net Exposure information from. The AccountNumber OR the CounterpartId must be specified.

### 4.4.5.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetNetExposuresRequest>
      <!--Optional:-->
      <ns:AccountNumber?></ns:AccountNumber>
      <!--Optional:-->
      <ns:CounterpartId?></ns:CounterpartId>
    </ns:GetNetExposuresRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetNetExposuresResponse>
      <!--Optional:-->
      <ns:NetExposures>
        <!--Zero or more repetitions:-->
        <ns:NetExposure>
          <!--Optional:-->
          <ns:Instrument>?</ns:Instrument>
          <!--Optional:-->
          <ns:Amount>?</ns:Amount>
        </ns:NetExposure>
      </ns:NetExposures>
    </ns:GetNetExposuresResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 4.4.5.2 CODE EXAMPLES

**CODE EXAMPLE 16: GETACCOUNTBALANCE REQUEST**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>I593H9tCcXRdODJjMacayyCntVeb6SexjPC6IhxCvsE=</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetNetExposuresRequest>
      <ns:CounterpartId>3006888</ns:CounterpartId>
    </ns:GetNetExposuresRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

**CODE EXAMPLE 17: GETACCOUNTBALANCE RESPONSE**

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="6e074795-5959-4c1d-8ea6-85610dd1093d" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">0de254a2-92e2-41dc-a7bf-62687ad603d6</ActivityId>
  </s:Header>
  <s:Body>
    <GetNetExposuresResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <NetExposures xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <NetExposure>
          <Instrument>AUD</Instrument>
          <Amount>12584</Amount>
        </NetExposure>
        <NetExposure>
          <Instrument>CAD</Instrument>
          <Amount>-12391.84232</Amount>
        </NetExposure>
      </NetExposures>
    </GetNetExposuresResponse>
  </s:Body>
</s:Envelope>

```

## 4.4.6 GETACCOUNT

Request to retrieve information of an account.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetAccount

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
AccountNumber	Y	Id of the account from where to retrieve account data

### 4.4.6.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetAccountRequest>
      <!--Optional:-->
      <ns:AccountNumber?</ns:AccountNumber>
    </ns:GetAccountRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetAccountResponse>
      <!--Optional:-->
      <ns:Account>
        <!--Optional:-->
        <ns:CounterpartId?</ns:CounterpartId>
        <ns:AccountNumber?</ns:AccountNumber>
        <!--Optional:-->
      </ns:Account>
    </ns:GetAccountResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<ns:Description>?</ns:Description>
<!--Optional:-->
<ns:Currency>?</ns:Currency>
<!--Optional:-->
<ns:InternalAccountNumber>?</ns:InternalAccountNumber>
<!--Optional:-->
<ns:CommissionGroupId>?</ns:CommissionGroupId>
<!--Optional:-->
<ns:Iban>?</ns:Iban>
<!--Optional:-->
<ns:AccountRiskProfileId>?</ns:AccountRiskProfileId>
<!--Optional:-->
<ns:Active>?</ns:Active>
<!--Optional:-->
<ns:TradableInstrumentIds>
  <!--Zero or more repetitions:-->
  <arr:int>?</arr:int>
</ns:TradableInstrumentIds>
<!--Optional:-->
<ns:VPAccount>
  <ns:AccountNumber>?</ns:AccountNumber>
  <!--Optional:-->
  <ns:CdIdentNumber>?</ns:CdIdentNumber>
  <!--Optional:-->
  <ns:RegisterToName>?</ns:RegisterToName>
  <!--Optional:-->
  <ns:DividendTaxStatusId>?</ns:DividendTaxStatusId>
</ns:VPAccount>
<!--Optional:-->
<ns:MaxCreditLine>?</ns:MaxCreditLine>
<!--Optional:-->
<ns>WealthManagementEnabled>?</ns>WealthManagementEnabled>
<!--Optional:-->
<ns:MoneyManagerFeeProfileId>?</ns:MoneyManagerFeeProfileId>
<!--Optional:-->
<ns:CfdFinanceProfileId>?</ns:CfdFinanceProfileId>
<!--Optional:-->
<ns:AccountGroupIds>
  <!--Zero or more repetitions:-->
  <arr:int>?</arr:int>
</ns:AccountGroupIds>
```



```
<!--Optional:-->
<ns:FXForwardProfileId?></ns:FXForwardProfileId>
<!--Optional:-->
<ns:FXSpotForwardProfileId?></ns:FXSpotForwardProfileId>
<!--Optional:-->
<ns:CarryingCostProfileId?></ns:CarryingCostProfileId>
<!--Optional:-->
<ns:HoldingFeeProfileId?></ns:HoldingFeeProfileId>
<!--Optional:-->
<ns:VMMinTransferAmount?></ns:VMMinTransferAmount>
<!--Optional:-->
<ns:VMMinTransferAmountCurrency?></ns:VMMinTransferAmountCurrency>
</ns:Account>
</ns:GetAccountResponse>
</soapenv:Body>
</soapenv:Envelope>
```

## 4.4.6.2 CODE EXAMPLES

## CODE EXAMPLE 18: GETACCOUNT REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetAccountRequest>
      <ns:AccountNumber>33930/Test125</ns:AccountNumber>
    </ns:GetAccountRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

## CODE EXAMPLE 19: GETACCOUNT RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="e03db0b1-6080-4601-9c8f-e8a8bb1d522d" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">b8792ba8-8831-4df9-86ac-f8bd33a69ce7</ActivityId>
  </s:Header>
  <s:Body>
    <GetAccountResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <Account xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <CounterpartId>6602955</CounterpartId>
        <AccountNumber>33930/Test125</AccountNumber>
        <Description>Test</Description>
        <Currency>USD</Currency>
        <InternalAccountNumber>test</InternalAccountNumber>
        <CommissionGroupId>19184</CommissionGroupId>
        <Iban>223456</Iban>
        <AccountRiskProfileId>0</AccountRiskProfileId>
        <Active>true</Active>
        <InterestProfileId>1</InterestProfileId>
        <CfdInterestProfileId>1</CfdInterestProfileId>
        <TradableInstrumentIds xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
          <a:int>16384</a:int>
        </TradableInstrumentIds>
        <VPAccount i:nil="true"/>
        <MaxCreditLine>0</MaxCreditLine>
        <WealthManagementEnabled>false</WealthManagementEnabled>
      </Account>
    </GetAccountResponse>
  </s:Body>
</s:Envelope>
```

## 4.4.7 GETACCOUNTDATA

Request to retrieve account data.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetAccountData

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
AccountNumber	Y	Id of the account, under which the account data is to be retrieved.

### 4.4.7.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetAccountDataRequest>
      <!--Optional:-->
      <ns:AccountNumber?</ns:AccountNumber>
    </ns:GetAccountDataRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetAccountDataResponse>
      <!--Optional:-->
      <ns:AccountData>
        <!--Optional:-->
        <ns:CounterpartId?</ns:CounterpartId>
        <!--Optional:-->
        <ns:AccountNumber?</ns:AccountNumber>
      </ns:AccountData>
    </ns:GetAccountDataResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<!--Optional:-->
<ns:BaseCurrency>?</ns:BaseCurrency>
<!--Optional:-->
<ns:CashBalance>?</ns:CashBalance>
<!--Optional:-->
<ns:ClosingAmount>?</ns:ClosingAmount>
<!--Optional:-->
<ns:TotalEquity>?</ns:TotalEquity>
<!--Optional:-->
<ns:Securities>?</ns:Securities>
<!--Optional:-->
<ns:NetExposure>?</ns:NetExposure>
<!--Optional:-->
<ns:MarginRequired>?</ns:MarginRequired>
<!--Optional:-->
<ns:NetFreeBalance>?</ns:NetFreeBalance>
<!--Optional:-->
<ns:RealMarginPct>?</ns:RealMarginPct>
<!--Optional:-->
<ns:RealLinePct>?</ns:RealLinePct>
<!--Optional:-->
<ns:CostToClosePositions>?</ns:CostToClosePositions>
<!--Optional:-->
<ns:NetEquityForMargin>?</ns:NetEquityForMargin>
<!--Optional:-->
<ns:MarginProductsPL>?</ns:MarginProductsPL>
<!--Optional:-->
<ns:Active>?</ns:Active>
<!--Optional:-->
<ns:CollateralMarketValue>?</ns:CollateralMarketValue>
<!--Optional:-->
<ns:CollateralDeduction>?</ns:CollateralDeduction>
<!--Optional:-->
<ns:TransactionsNotBooked>?</ns:TransactionsNotBooked>
<!--Optional:-->
<ns:OptionPremiumsMarketValue>?</ns:OptionPremiumsMarketValue>
</ns:AccountData>
</ns:GetAccountDataResponse>
</soapenv:Body>
</soapenv:Envelope>
```

## 4.4.7.2 CODE EXAMPLES

**CODE EXAMPLE 20: GETACCOUNTDATA REQUEST**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetAccountDataRequest>
      <ns:AccountNumber>33930/Test125</ns:AccountNumber>
    </ns:GetAccountDataRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**CODE EXAMPLE 21: GETACCOUNTDATA RESPONSE**

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="c2bb118d-457a-4d76-8f76-24adda9a9adf" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">53038b15-510c-4e72-b4a5-df7ef24031e0</ActivityId>
  </s:Header>
  <s:Body>
    <GetAccountDataResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <AccountData xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <CounterpartId>6602955</CounterpartId>
        <AccountNumber>33930/Test125</AccountNumber>
        <BaseCurrency>USD</BaseCurrency>
        <CashBalance>0</CashBalance>
        <ClosingAmount>0</ClosingAmount>
        <TotalEquity>0</TotalEquity>
        <Securities>0</Securities>
        <NetExposure>0</NetExposure>
        <MarginRequired>0</MarginRequired>
        <NetFreeBalance>0</NetFreeBalance>
        <RealMarginPct>0</RealMarginPct>
        <RealLinePct>0</RealLinePct>
        <CostToClosePositions>0</CostToClosePositions>
        <NetEquityForMargin>0</NetEquityForMargin>
        <MarginProductsPL>0</MarginProductsPL>
        <Active>true</Active>
        <CollateralMarketValue>0</CollateralMarketValue>
        <CollateralDeduction>0</CollateralDeduction>
        <TransactionsNotBooked>0</TransactionsNotBooked>
      </AccountData>
    </GetAccountDataResponse>
  </s:Body>
</s:Envelope>
```

## 4.4.8 GETAVAILABLEDATAITEMTYPES

Request to retrieve reference data, which can be used as inputs on the other requests.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetAvailableDataItemTypes

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request

### 4.4.8.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetAvailableDataItemTypesRequest/>
  </soapenv:Body>
</soapenv:Envelope>
```

#### RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetAvailableDataItemTypesResponse>
      <!--Optional:-->
      <ns:Types>
        <!--Zero or more repetitions:-->
        <arr:string?</arr:string>
      </ns:Types>
    </ns:GetAvailableDataItemTypesResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 4.4.8.2 CODE EXAMPLES

**CODE EXAMPLE 22: GETAVAILABLEDATATIEMTYPES REQUEST**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22a2jbaSJfztgm</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetAvailableDataItemTypesRequest/>
  </soapenv:Body>
</soapenv:Envelope>
```

**CODE EXAMPLE 23: GETAVAILABLEDATAITEMTYPES RESPONSE**

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="7bd1492f-4a23-45b5-9d87-238be604dfc1" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">d738fb11-251a-442d-99e7-6aef6806cacd</ActivityId>
  </s:Header>
  <s:Body>
    <GetAvailableDataItemTypesResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <Types xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:string>ReliefAtSourceTypes</a:string>
        <a:string>ProductClassifications</a:string>
        <a:string>ProductAreas</a:string>
        <a:string>MarginProfiles</a:string>
        <a:string>MarginCallProfiles</a:string>
        <a:string>Languages</a:string>
        <a:string>InterestProfiles</a:string>
        <a:string>InstrumentTypes</a:string>
        <a:string>Currencies</a:string>
        <a:string>Countries</a:string>
        <a:string>CommissionGroups</a:string>
        <a:string>CounterpartTypes</a:string>
        <a:string>CfdInterestProfiles</a:string>
        <a:string>AppropriatenessTestPassed</a:string>
        <a:string>AccountRiskProfiles</a:string>
        <a:string>InstrumentAccountTypes</a:string>
        <a:string>AccessProfiles</a:string>
        <a:string>WealthManagerProfiles</a:string>
        <a:string>DividendTaxStatuses</a:string>
      </Types>
    </GetAvailableDataItemTypesResponse>
  </s:Body>
</s:Envelope>
```

## 4.4.9 GETAVAILABLEAMOUNTFORSECURITIES TRADING

Request to retrieve amount available for securities trading on an account.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetAvailableAmountForSecuritiesTrading

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
AccountNumber	Y	AccountNumber of the account to retrieve the information from.

### 4.4.9.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetAvailableAmountForSecuritiesTradingRequest>
      <!--Optional:-->
      <ns:AccountNumber?></ns:AccountNumber>
    </ns:GetAvailableAmountForSecuritiesTradingRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetAvailableAmountForSecuritiesTradingResponse>
      <!--Optional:-->
      <ns:Amount?></ns:Amount>
      <!--Optional:-->
      <ns:Currency?></ns:Currency>
    </ns:GetAvailableAmountForSecuritiesTradingResponse>
  </soapenv:Body>
</soapenv:Envelope>
```



#### 4.4.9.2 CODE EXAMPLES

##### CODE EXAMPLE 24: GETAVAILABLEAMOUNTFORSECURITIESTRADING REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetAvailableAmountForSecuritiesTradingRequest>
      <ns:AccountNumber>33930/Test125</ns:AccountNumber>
    </ns:GetAvailableAmountForSecuritiesTradingRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

##### CODE EXAMPLE 25: GETAVAILABLEAMOUNTFORSECURITIESTRADING RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="479f2be2-2b3c-4c95-8ba2-1e90833a3233" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">4a253af9-52a7-4117-8be3-21b2a6ac2848</ActivityId>
  </s:Header>
  <s:Body>
    <GetAvailableAmountForSecuritiesTradingResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <Amount>0</Amount>
      <Currency>USD</Currency>
    </GetAvailableAmountForSecuritiesTradingResponse>
  </s:Body>
</s:Envelope>
```

## 4.4.10 GETDATAITEMTYPES

Request to retrieve data items, such as currencies.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetDataItemTypes

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
OwnerId	N	The OwnerId to retrieve the data available for.
Types	Y	An array of strings. Lists which types to retrieve.

### 4.4.10.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetDataItemTypesRequest>
      <!--Optional:-->
      <ns:OwnerId?></ns:OwnerId>
      <!--Optional:-->
      <ns:Types>
        <!--Zero or more repetitions:-->
        <arr:string?></arr:string>
      </ns:Types>
    </ns:GetDataItemTypesRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetDataItemTypesResponse>
      <!--Optional:-->
      <ns:DataItemsTypes>
        <!--Zero or more repetitions:-->
        <ns:DataItemType>
          <!--Optional:-->
          <ns:DataItems>
            <!--Zero or more repetitions:-->
            <ns:DataItem>
              <!--Optional:-->
              <ns:Value>?</ns:Value>
              <!--Optional:-->
              <ns:Description>?</ns:Description>
              <!--Optional:-->
              <ns:ParentValue>?</ns:ParentValue>
              <!--Optional:-->
              <ns:ParentDescription>?</ns:ParentDescription>
            </ns:DataItem>
          </ns:DataItems>
          <!--Optional:-->
          <ns:Type>?</ns:Type>
        </ns:DataItemType>
      </ns:DataItemsTypes>
    </ns:GetDataItemTypesResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 4.4.10.2 CODE EXAMPLES

**CODE EXAMPLE 26: GETDATAITEMTYPES REQUEST**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08" xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetDataItemTypesRequest>
      <ns:Types>
        <arr:string>Currencies</arr:string>
      </ns:Types>
    </ns:GetDataItemTypesRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

**CODE EXAMPLE 27: GETDATAITEMTYPES RESPONSE**

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="9a821f08-df6d-49cb-85cb-298d7d335f02" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">2c1ec28a-73c5-4251-822a-7aa057f0bbbc</ActivityId>
  </s:Header>
  <s:Body>
    <GetDataItemTypesResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <DataItemsTypes xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <DataItemType>
          <DataItems>
            <DataItem>
              <Value>SGD</Value>
              <Description>SGD</Description>
            </DataItem>
            <DataItem>
              <Value>USD</Value>
              <Description>USD</Description>
            </DataItem>
          </DataItems>
          <Type>Currencies</Type>
        </DataItemType>
      </DataItemsTypes>
    </GetDataItemTypesResponse>
  </s:Body>
</s:Envelope>

```

## 4.4.11 GETCOUNTERPART

Request to retrieve the data on the specified Counterpart, specifically the PII data such as name.

SUBJECT	URL
WSDL	<a href="https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL">https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL</a>
End Point URL	<a href="https://enterprise.saxobank.com/cmslive/CmsService.svc">https://enterprise.saxobank.com/cmslive/CmsService.svc</a>
Operation	GetCounterpart

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
CounterpartId	Y	

### 4.4.11.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetCounterpartRequest>
      <!--Optional:-->
      <ns:CounterpartId?></ns:CounterpartId>
    </ns:GetCounterpartRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetCounterpartResponse>
      <!--Optional:-->
      <ns:Counterpart>
        <!--Optional:-->
        <ns:OwnerId?></ns:OwnerId>
        <!--Optional:-->
        <ns:CounterpartId?></ns:CounterpartId>
        <!--Optional:-->
        <ns:Name?></ns:Name>
      <!--Optional:-->
    </ns:Counterpart>
  </ns:GetCounterpartResponse>
</soapenv:Body>
</soapenv:Envelope>
```

```
<ns:BaseCurrency>?</ns:BaseCurrency>
<!--Optional:-->
<ns:IsProfessional>?</ns:IsProfessional>
<!--Optional:-->
<ns:Language>?</ns:Language>
<!--Optional:-->
<ns:CountryOfResidence>?</ns:CountryOfResidence>
<!--Optional:-->
<ns:TaxCountry>?</ns:TaxCountry>
<!--Optional:-->
<ns:Email>?</ns:Email>
<!--Optional:-->
<ns:CompanyRegistrationNumber>?</ns:CompanyRegistrationNumber>
<!--Optional:-->
<ns:Active>?</ns:Active>
<!--Optional:-->
<ns:MarginProfileId>?</ns:MarginProfileId>
<!--Optional:-->
<ns:MarginCallProfileId>?</ns:MarginCallProfileId>
<!--Optional:-->
<ns:ProductClassifications>
  <!--Zero or more repetitions:-->
  <ns:ProductAreaClassification>
    <ns:ProductAreaId>?</ns:ProductAreaId>
    <ns:ProductClassificationId>?</ns:ProductClassificationId>
    <!--Optional:-->
    <ns:AppropriatenessTestPassedId>?</ns:AppropriatenessTestPassedId>
  </ns:ProductAreaClassification>
</ns:ProductClassifications>
<!--Optional:-->
<ns:ReliefAtSource>
  <ns:Enabled>?</ns:Enabled>
  <ns:TypeId>?</ns:TypeId>
  <!--Optional:-->
  <ns:ExpiryDate>?</ns:ExpiryDate>
  <!--Optional:-->
  <ns:NifId>?</ns:NifId>
</ns:ReliefAtSource>
<!--Optional:-->
<ns:Vat>
  <ns:Percentage>?</ns:Percentage>
  <ns:Forced>?</ns:Forced>
</ns:Vat>
<!--Optional:-->
<ns:SwissTax>
```

```
<!--Optional:-->
<ns:BrokerIntroduced>?</ns:BrokerIntroduced>
<!--Optional:-->
<ns:StampDutyExempt>?</ns:StampDutyExempt>
<!--Optional:-->
<ns:Residency>?</ns:Residency>
</ns:SwissTax>
<!--Optional:-->
<ns:CounterpartType>?</ns:CounterpartType>
<!--Optional:-->
<ns:WealthManagementProfileId>?</ns:WealthManagementProfileId>
<!--Optional:-->
<ns:Emir>
  <!--Optional:-->
  <ns:IsFinancial>?</ns:IsFinancial>
  <!--Optional:-->
  <ns:LeiCode>?</ns:LeiCode>
</ns:Emir>
<!--Optional:-->
<ns:WlcEndClientName>?</ns:WlcEndClientName>
<!--Optional:-->
<ns:FeeProfileIds>
  <!--Zero or more repetitions:-->
  <arr:int>?</arr:int>
</ns:FeeProfileIds>
<!--Optional:-->
<ns:CounterpartGroupIds>
  <!--Zero or more repetitions:-->
  <arr:int>?</arr:int>
</ns:CounterpartGroupIds>
<!--Optional:-->
<ns:WithholdingTaxProfileId>?</ns:WithholdingTaxProfileId>
<!--Optional:-->
<ns:PositionNettingModeId>?</ns:PositionNettingModeId>
<!--Optional:-->
<ns:StopoutModeId>?</ns:StopoutModeId>
<!--Optional:-->
<ns:CollateralProfile>?</ns:CollateralProfile>
<!--Optional:-->
<ns:ContractOptionsTradingProfile>?</ns:ContractOptionsTradingProfile>
<!--Optional:-->
<ns:EntityType>?</ns:EntityType>
<!--Optional:-->
<ns:VMProductScope>?</ns:VMProductScope>
<!--Optional:-->
```

```
<ns:VariationMarginEligibility?></ns:VariationMarginEligibility>
<!--Optional:-->
<ns:CustodyInfo>
  <!--Optional:-->
  <ns:SpanishCustodyInfo>
    <!--Optional:-->
    <ns:IndividualAccountMutualFunds>
      <!--Optional:-->
      <ns:CustodyAccountNumber?></ns:CustodyAccountNumber>
      <!--Optional:-->
      <ns:RequestStatus?></ns:RequestStatus>
      <!--Optional:-->
      <ns:RequestStatusReason?></ns:RequestStatusReason>
      <!--Optional:-->
      <ns:State?></ns:State>
    </ns:IndividualAccountMutualFunds>
    <!--Optional:-->
    <ns:IndividualAccountShares>
      <!--Optional:-->
      <ns:CustodyAccountNumber?></ns:CustodyAccountNumber>
      <!--Optional:-->
      <ns:RequestStatus?></ns:RequestStatus>
      <!--Optional:-->
      <ns:RequestStatusReason?></ns:RequestStatusReason>
      <!--Optional:-->
      <ns:State?></ns:State>
    </ns:IndividualAccountShares>
  </ns:SpanishCustodyInfo>
</ns:CustodyInfo>
<!--Optional:-->
<ns:OrganisationInfo>
  <!--Optional:-->
  <ns:DGCIcode?></ns:DGCIcode>
  <!--Optional:-->
  <ns:DateOfIncorporation?></ns:DateOfIncorporation>
  <!--Optional:-->
  <ns:NaceCode?></ns:NaceCode>
  <!--Optional:-->
<ns:CollectiveInvestmentSchemeStatus?></ns:CollectiveInvestmentSchemeStatus>
</ns:OrganisationInfo>
<!--Optional:-->
<ns:RegisteredAddress>
  <!--Optional:-->
  <ns:BuildingNumber?></ns:BuildingNumber>
  <!--Optional:-->

```



```
<ns:Country?></ns:Country>
<!--Optional:-->
<ns:PostalCode?></ns:PostalCode>
<!--Optional:-->
<ns:StateOrProvince?></ns:StateOrProvince>
<!--Optional:-->
<ns:StreetName?></ns:StreetName>
<!--Optional:-->
<ns:StreetType?></ns:StreetType>
<!--Optional:-->
<ns:Town?></ns:Town>
</ns:RegisteredAddress>
<!--Optional:-->
<ns:Tin?></ns:Tin>
<!--Optional:-->
<ns:UltimateParentInfo>
  <!--Optional:-->
  <ns:Email?></ns:Email>
  <!--Optional:-->
  <ns:LeiCode?></ns:LeiCode>
</ns:UltimateParentInfo>
</ns:Counterpart>
</ns:GetCounterpartResponse>
</soapenv:Body>
</soapenv:Envelope>
```

## 4.4.11.2 CODE EXAMPLES

**CODE EXAMPLE 28: GETCOUNTERPART REQUEST**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetCounterpartRequest>
      <ns:CounterpartId>3006888</ns:CounterpartId>
    </ns:GetCounterpartRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**CODE EXAMPLE 29: GETCOUNTERPART RESPONSE**

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="1794cdc0-a428-4e84-8dd3-91b9a1a0e069" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">0fca49fb-0fe8-4af3-9162-6e8a9ed27e74</ActivityId>
  </s:Header>
  <s:Body>
    <GetCounterpartResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <Counterpart xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <OwnerId>961917</OwnerId>
        <CounterpartId>3006888</CounterpartId>
        <Name>A_Name_3006888</Name>
        <BaseCurrency>USD</BaseCurrency>
        <IsProfessional>false</IsProfessional>
        <Language>EN</Language>
        <CountryOfResidence>SG</CountryOfResidence>
        <TaxCountry>SG</TaxCountry>
        <Email>email@email.com</Email>
        <CompanyRegistrationNumber>1234</CompanyRegistrationNumber>
        <Active>true</Active>
        <MarginProfileId>969</MarginProfileId>
        <MarginCallProfileId>1047</MarginCallProfileId>
        <ProductClassifications>
          <ProductAreaClassification>
            <ProductAreaId>0</ProductAreaId>
            <ProductClassificationId>2</ProductClassificationId>
            <AppropriatenessTestPassedId i:nil="true"/>
          </ProductAreaClassification>
          <ProductAreaClassification>
```

```

        <ProductAreaId>1</ProductAreaId>
        <ProductClassificationId>0</ProductClassificationId>
        <AppropriatenessTestPassedId i:nil="true"/>
    </ProductAreaClassification>
    <ProductAreaClassification>
        <ProductAreaId>2</ProductAreaId>
        <ProductClassificationId>0</ProductClassificationId>
        <AppropriatenessTestPassedId i:nil="true"/>
    </ProductAreaClassification>
</ProductClassifications>
<ReliefAtSource>
    <Enabled>>false</Enabled>
    <TypeId>0</TypeId>
    <ExpiryDate i:nil="true"/>
    <NifId i:nil="true"/>
</ReliefAtSource>
<Vat i:nil="true"/>
<SwissTax>
    <BrokerIntroduced>>false</BrokerIntroduced>
    <StampDutyExempt>>false</StampDutyExempt>
    <Residency>>false</Residency>
</SwissTax>
    <CounterpartType i:nil="true"/>
    <WealthManagementProfileId>0</WealthManagementProfileId>
</Counterpart>
</GetCounterpartResponse>
</s:Body>
</s:Envelope>
    
```

### 4.4.12 GETCOUNTERPARTDATA

Request to retrieve cash data on a specific counterpart, such as total equity.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetCounterpartData

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
CounterpartId	Y	Counterpart Id of the counterpart to retrieve data from.

## 4.4.12.1 SOAP 1.2 DEFINITION

## REQUEST

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetCounterpartDataRequest>
      <!--Optional:-->
      <ns:CounterpartId?></ns:CounterpartId>
    </ns:GetCounterpartDataRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

## RESPONSE

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetCounterpartDataResponse>
      <!--Optional:-->
      <ns:CounterpartData>
        <!--Optional:-->
        <ns:CounterpartId?></ns:CounterpartId>
        <!--Optional:-->
        <ns:OwnerId?></ns:OwnerId>
        <!--Optional:-->
        <ns:BaseCurrency?></ns:BaseCurrency>
        <!--Optional:-->
        <ns:ClosingAmount?></ns:ClosingAmount>
        <!--Optional:-->
        <ns:TotalEquity?></ns:TotalEquity>
        <!--Optional:-->
        <ns:Securities?></ns:Securities>
        <!--Optional:-->
        <ns:NetExposure?></ns:NetExposure>
        <!--Optional:-->
        <ns:MarginRequired?></ns:MarginRequired>
        <!--Optional:-->
        <ns:NetFreeBalance?></ns:NetFreeBalance>
        <!--Optional:-->
        <ns:RealMarginPct?></ns:RealMarginPct>
        <!--Optional:-->

```

```
<ns:RealLinePct>?</ns:RealLinePct>
<!--Optional:-->
<ns:CostToClosePositions>?</ns:CostToClosePositions>
<!--Optional:-->
<ns:NetEquityForMargin>?</ns:NetEquityForMargin>
<!--Optional:-->
<ns:MarginProductsPL>?</ns:MarginProductsPL>
<!--Optional:-->
<ns:CurrentMarginCallLevel>?</ns:CurrentMarginCallLevel>
<!--Optional:-->
<ns:Active>?</ns:Active>
<!--Optional:-->
<ns:CollateralMarketValue>?</ns:CollateralMarketValue>
<!--Optional:-->
<ns:CollateralDeduction>?</ns:CollateralDeduction>
<!--Optional:-->
<ns:TransactionsNotBooked>?</ns:TransactionsNotBooked>
<!--Optional:-->
<ns:CashBalance>?</ns:CashBalance>
<!--Optional:-->
<ns:OptionPremiumsMarketValue>?</ns:OptionPremiumsMarketValue>
</ns:CounterpartData>
</ns:GetCounterpartDataResponse>
</soapenv:Body>
</soapenv:Envelope>
```

## 4.4.12.2 CODE EXAMPLES

**CODE EXAMPLE 30: GETCOUNTERPARTDATA REQUEST**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetCounterpartDataRequest>
      <ns:CounterpartId>3006888</ns:CounterpartId>
    </ns:GetCounterpartDataRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

**CODE EXAMPLE 31: GETCOUNTERPARTDATA RESPONSE**

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="74710d61-42a4-4b3f-9d7e-2c5a257ed2a9" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">017bb543-bb81-4aa6-bfeb-b5ece63fc9b9</ActivityId>
  </s:Header>
  <s:Body>
    <GetCounterpartDataResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <CounterpartData xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <CounterpartId>3006888</CounterpartId>
        <OwnerId>961917</OwnerId>
        <BaseCurrency>USD</BaseCurrency>
        <ClosingAmount>-200.22</ClosingAmount>
        <TotalEquity>-165.08</TotalEquity>
        <Securities>0</Securities>
        <NetExposure>9668.03552</NetExposure>
        <MarginRequired>96.6803552</MarginRequired>
        <NetFreeBalance>-261.7603552</NetFreeBalance>
        <RealMarginPct>-1.70748234900982</RealMarginPct>
        <RealLinePct>9999</RealLinePct>
        <CostToClosePositions>-2.86</CostToClosePositions>
        <NetEquityForMargin>-165.08</NetEquityForMargin>
        <MarginProductsPL>-200.22</MarginProductsPL>
        <CurrentMarginCallLevel>200</CurrentMarginCallLevel>
        <Active>>true</Active>
        <CollateralMarketValue>0</CollateralMarketValue>
        <CollateralDeduction>0</CollateralDeduction>
        <TransactionsNotBooked>21</TransactionsNotBooked>
      </CounterpartData>
    </GetCounterpartDataResponse>
  </s:Body>
</s:Envelope>

```

### 4.4.13 GETCOUNTERPARTLIST

Request to retrieve a list of Counterparts that belong to an owner.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetCounterpartList

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
IncludeSubOwners		Whether to include sub owners or not.
OwnerId		Owner id of the owner to retrieve underlying Counterparts from

#### 4.4.13.1 SOAP 1.2 DEFINITION

##### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetCounterpartListRequest>
      <!--Optional:-->
      <ns:IncludeSubOwners?></ns:IncludeSubOwners>
      <!--Optional:-->
      <ns:OwnerId?></ns:OwnerId>
    </ns:GetCounterpartListRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetCounterpartListResponse>
      <!--Optional:-->
      <ns:CounterpartList>
        <!--Zero or more repetitions:-->
        <ns:CounterpartListData>
          <!--Optional:-->
          <ns:CounterpartId?</ns:CounterpartId>
          <!--Optional:-->
          <ns:Name?</ns:Name>
          <!--Optional:-->
          <ns:OwnerId?</ns:OwnerId>
        </ns:CounterpartListData>
      </ns:CounterpartList>
    </ns:GetCounterpartListResponse>
  </soapenv:Body>
</soapenv:Envelope>
```



## 4.4.13.2 CODE EXAMPLES

**CODE EXAMPLE 32: GETCOUNTERPARTLIST REQUEST**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBASjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetCounterpartListRequest>
      <ns:IncludeSubOwners>>false</ns:IncludeSubOwners>
      <ns:OwnerId>3006888</ns:OwnerId>
    </ns:GetCounterpartListRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

**CODE EXAMPLE 33: GETCOUNTERPARTLIST RESPONSE**

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="97caa6f7-e29f-4eac-9806-a9cfdc336792" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">51037542-96a7-44ed-86d1-7d8742fbb075</ActivityId>
  </s:Header>
  <s:Body>
    <GetCounterpartListResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <CounterpartList xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <CounterpartListData>
          <CounterpartId>2586888</CounterpartId>
          <Name>Client 2586888</Name>
          <OwnerId>3006888</OwnerId>
        </CounterpartListData>
        <CounterpartListData>
          <CounterpartId>5291800</CounterpartId>
          <Name>Client 5291800</Name>
          <OwnerId>3006888</OwnerId>
        </CounterpartListData>
        <CounterpartListData>
          <CounterpartId>5423149</CounterpartId>
          <Name>Client 5423149</Name>
          <OwnerId>3006888</OwnerId>
        </CounterpartListData>
      </CounterpartList>
    </GetCounterpartListResponse>
  </s:Body>
</s:Envelope>

```

## 4.4.14 GETCOUNTERPARTSTRUCTURE

Request to retrieve the counterpart structure, including all users, accounts and owner hierarchy.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetCounterpartStructure

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
AccountNumber	N	The Account number of an account where to retrieve the structure from. Apart from the SessionID, only one parameter should be provided.
CounterpartId	N	The Counterpart id on a Counterpart where to retrieve the structure from. Apart from the SessionID, only one parameter should be provided.
UserId	N	The User id of a user where to retrieve the structure from. Apart from the SessionID, only one parameter should be provided.
UserLogin	N	The User login of a user where to retrieve the structure from. Apart from the SessionID, only one parameter should be provided.

### 4.4.14.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetCounterpartStructureRequest>
      <!--Optional:-->
      <ns:AccountNumber?</ns:AccountNumber>
      <!--Optional:-->
      <ns:CounterpartId?</ns:CounterpartId>
      <!--Optional:-->
      <ns:UserId?</ns:UserId>
      <!--Optional:-->
      <ns>UserLogin?</ns>UserLogin>
    </ns:GetCounterpartStructureRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetCounterpartStructureResponse>
      <!--Optional:-->
      <ns:CounterpartStructure>
        <!--Optional:-->
        <ns:Users>
          <!--Zero or more repetitions:-->
          <ns:UserInfo>
            <!--Optional:-->
            <ns:Id?</ns:Id>
            <!--Optional:-->
            <ns:CounterpartId?</ns:CounterpartId>
            <!--Optional:-->
            <ns:Name?</ns:Name>
            <!--Optional:-->
            <ns>Login?</ns>Login>
            <!--Optional:-->
            <ns:Active?</ns:Active>
          </ns:UserInfo>
        </ns:Users>
      <!--Optional:-->
      <ns:Counterpart>
        <!--Optional:-->
        <ns:Id?</ns:Id>
        <!--Optional:-->
        <ns:OwnerId?</ns:OwnerId>
        <!--Optional:-->
        <ns:Name?</ns:Name>
        <!--Optional:-->
        <ns:Active?</ns:Active>
      </ns:Counterpart>
      <!--Optional:-->
      <ns:Owners>
        <!--Zero or more repetitions:-->
        <ns:OwnerInfo>
          <!--Optional:-->
          <ns:Id?</ns:Id>
          <!--Optional:-->
          <ns:OwnerId?</ns:OwnerId>
          <!--Optional:-->
        </ns:OwnerInfo>
      </ns:Owners>
    </ns:GetCounterpartStructureResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```
        <ns:Active>?</ns:Active>
        <!--Optional:-->
        <ns:Name>?</ns:Name>
    </ns:OwnerInfo>
</ns:Owners>
<!--Optional:-->
<ns:Accounts>
    <!--Zero or more repetitions:-->
    <ns:AccountInfo>
        <!--Optional:-->
        <ns:AccountNumber>?</ns:AccountNumber>
        <!--Optional:-->
        <ns:CounterpartId>?</ns:CounterpartId>
        <!--Optional:-->
        <ns:Description>?</ns:Description>
        <!--Optional:-->
        <ns:InternalAccountNumber>?</ns:InternalAccountNumber>
        <!--Optional:-->
        <ns:Active>?</ns:Active>
    </ns:AccountInfo>
</ns:Accounts>
</ns:CounterpartStructure>
</ns:GetCounterpartStructureResponse>
</soapenv:Body>
</soapenv:Envelope>
```

## 4.4.14.2 CODE EXAMPLES

**CODE EXAMPLE 34: GETCOUNTERPARTSTRUCTURE REQUEST**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetCounterpartStructureRequest>
      <ns:CounterpartId>3006888</ns:CounterpartId>
    </ns:GetCounterpartStructureRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

**CODE EXAMPLE 35: GETCOUNTERPARTSTRUCTURE RESPONSE**

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="10f64e70-ec3d-4d4e-8470-c6b85a9d5dc5" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">d5f346ed-87ba-4f9b-b0fc-0e09f79348d7</ActivityId>
  </s:Header>
  <s:Body>
    <GetCounterpartStructureResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <CounterpartStructure xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Users>
          <UserInfo>
            <Id>3006888</Id>
            <CounterpartId>3006888</CounterpartId>
            <Name>User 3006888</Name>
            <Login>3006888</Login>
            <Active>>true</Active>
          </UserInfo>
          <UserInfo>
            <Id>5235422</Id>
            <CounterpartId>3006888</CounterpartId>
            <Name>User 5235422</Name>
            <Login>5235422</Login>
            <Active>>true</Active>
          </UserInfo>
        </Users>
        <Counterpart>
          <Id>3006888</Id>
          <OwnerId>3006888</OwnerId>
          <Name>Teravaco LLP</Name>
          <Active>>true</Active>
        </Counterpart>
      </CounterpartStructure>
    </GetCounterpartStructureResponse>
  </s:Body>
</s:Envelope>

```

```
<Owners>
  <OwnerInfo>
    <Id>3006888</Id>
    <OwnerId>961917</OwnerId>
    <Active>true</Active>
    <Name>Tara</Name>
  </OwnerInfo>
  <OwnerInfo>
    <Id>961917</Id>
    <OwnerId>1</OwnerId>
    <Active>true</Active>
    <Name>Hara</Name>
  </OwnerInfo>
</Owners>
<Accounts>
  <AccountInfo>
    <AccountNumber>33930</AccountNumber>
    <CounterpartId>3006888</CounterpartId>
    <Description>33930</Description>
    <InternalAccountNumber>LAK - 33930</InternalAccountNumber>
    <Active>true</Active>
  </AccountInfo>
  <AccountInfo>
    <AccountNumber>33930/7891123457</AccountNumber>
    <CounterpartId>3006888</CounterpartId>
    <Description/>
    <InternalAccountNumber/>
    <Active>true</Active>
  </AccountInfo>
</Accounts>
</CounterpartStructure>
</GetCounterpartStructureResponse>
</s:Body>
</s:Envelope>
```

## 4.4.15 GETNETPOSITIONS

Request to retrieve the net positions from an account.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetNetPositions

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
AccountNumber	N	The Account number to retrieve net positions from. The Account number OR the Counterpart id must be supplied.
CounterpartId	N	The Counterpart id to retrieve net positions from. The Account number OR the Counterpart id must be supplied.
InstrumentTypes	Y	The instruments to include An array of strings

### 4.4.15.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetNetPositionsRequest>
      <!--Optional:-->
      <ns:AccountNumber?></ns:AccountNumber>
      <!--Optional:-->
      <ns:CounterpartId?></ns:CounterpartId>
      <!--Optional:-->
      <ns:InstrumentTypes>
        <!--Zero or more repetitions:-->
        <arr:string?></arr:string>
      </ns:InstrumentTypes>
    </ns:GetNetPositionsRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetNetPositionsResponse>
      <!--Optional:-->
      <ns:NetPositions>
        <!--Zero or more repetitions:-->
        <ns:NetPosition>
          <!--Optional:-->
          <ns:Amount>?</ns:Amount>
          <!--Optional:-->
          <ns:PriceDecimals>?</ns:PriceDecimals>
          <!--Optional:-->
          <ns:ValueDate>?</ns:ValueDate>
          <!--Optional:-->
          <ns:ExpiryDate>?</ns:ExpiryDate>
          <!--Optional:-->
          <ns:LowerBarrier>?</ns:LowerBarrier>
          <!--Optional:-->
          <ns:UpperBarrier>?</ns:UpperBarrier>
          <!--Optional:-->
          <ns:ExpiryCut>?</ns:ExpiryCut>
          <!--Optional:-->
          <ns:BarrierEventTime>?</ns:BarrierEventTime>
          <!--Optional:-->
          <ns:StrikePrice>?</ns:StrikePrice>
          <!--Optional:-->
          <ns:Instrument>?</ns:Instrument>
          <!--Optional:-->
          <ns:InstrumentType>?</ns:InstrumentType>
        </ns:NetPosition>
      </ns:NetPositions>
    </ns:GetNetPositionsResponse>
  </soapenv:Body>
</soapenv:Envelope>
```



## 4.4.15.2 CODE EXAMPLES

**CODE EXAMPLE 36: GETNETPOSITIONS REQUEST**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08" xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetNetPositionsRequest>
      <ns:CounterpartId>3006888</ns:CounterpartId>
      <ns:InstrumentTypes>
        <arr:string>All</arr:string>
      </ns:InstrumentTypes>
    </ns:GetNetPositionsRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

**CODE EXAMPLE 37: GETNETPOSITIONS RESPONSE**

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="32883227-cea9-41ae-a6b6-2bb82814d494" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">374e2fa5-c5fb-4e1a-8771-f7c0ddcfce92</ActivityId>
  </s:Header>
  <s:Body>
    <GetNetPositionsResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <NetPositions xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <NetPosition>
          <Amount>12584</Amount>
          <PriceDecimals>5</PriceDecimals>
          <ValueDate>2015-02-05T00:00:00</ValueDate>
          <ExpiryDate>1899-12-30T00:00:00</ExpiryDate>
          <LowerBarrier>0</LowerBarrier>
          <UpperBarrier>0</UpperBarrier>
          <ExpiryCut></ExpiryCut>
          <BarrierEventTime>1899-12-30T00:00:00</BarrierEventTime>
          <StrikePrice>0</StrikePrice>
          <Instrument>AUDCAD</Instrument>
          <InstrumentType>FxSpot</InstrumentType>
        </NetPosition>
      </NetPositions>
    </GetNetPositionsResponse>
  </s:Body>
</s:Envelope>

```

## 4.4.16 GETPOSITIONS

Request to retrieve

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetPosition

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
AccountNumber	N	The Account number to retrieve positions from. The Account number OR the Counterpart id must be supplied.
CounterpartId	N	The Counterpart id to retrieve positions from. The Account number OR the Counterpart id must be supplied.
InstrumentTypes	Y	The instruments to include An array of strings

### 4.4.16.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetPositionsRequest>
      <!--Optional:-->
      <ns:AccountNumber?></ns:AccountNumber>
      <!--Optional:-->
      <ns:CounterpartId?></ns:CounterpartId>
      <!--Optional:-->
      <ns:InstrumentTypes>
        <!--Zero or more repetitions:-->
        <arr:string?></arr:string>
      </ns:InstrumentTypes>
    </ns:GetPositionsRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetPositionsResponse>
      <!--Optional:-->
      <ns:Positions>
        <!--Zero or more repetitions:-->
        <ns:Position>
          <!--Optional:-->
          <ns:CounterpartId?></ns:CounterpartId>
          <!--Optional:-->
          <ns:AccountNumber?></ns:AccountNumber>
          <!--Optional:-->
          <ns:OrderId?></ns:OrderId>
          <!--Optional:-->
          <ns:BackOfficeId?></ns:BackOfficeId>
          <!--Optional:-->
          <ns:BuySell?></ns:BuySell>
          <!--Optional:-->
          <ns:Instrument?></ns:Instrument>
          <!--Optional:-->
          <ns:CurrencyCode?></ns:CurrencyCode>
          <!--Optional:-->
          <ns:Amount?></ns:Amount>
          <!--Optional:-->
          <ns:OpenSwap?></ns:OpenSwap>
          <!--Optional:-->
          <ns:OpenPrice?></ns:OpenPrice>
          <!--Optional:-->
          <ns:ExecutionTime?></ns:ExecutionTime>
          <!--Optional:-->
          <ns:PriceDecimals?></ns:PriceDecimals>
          <!--Optional:-->
          <ns:SpotDate?></ns:SpotDate>
          <!--Optional:-->
          <ns:ValueDate?></ns:ValueDate>
          <!--Optional:-->
          <ns:ExpiryDate?></ns:ExpiryDate>
          <!--Optional:-->
          <ns:StrikePrice?></ns:StrikePrice>
          <!--Optional:-->
```

```
<ns:LowerBarrier>?</ns:LowerBarrier>
<!--Optional:-->
<ns:UpperBarrier>?</ns:UpperBarrier>
<!--Optional:-->
<ns:ExpiryCut>?</ns:ExpiryCut>
<!--Optional:-->
<ns:BarrierEventTime>?</ns:BarrierEventTime>
<!--Optional:-->
  <ns:InstrumentType>?</ns:InstrumentType>
</ns:Position>
</ns:Positions>
</ns:GetPositionsResponse>
</soapenv:Body>
</soapenv:Envelope>
```

## 4.4.16.2 CODE EXAMPLES

**CODE EXAMPLE 38: GETPOSITIONS REQUEST**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08" xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetPositionsRequest>
      <ns:CounterpartId>3006888</ns:CounterpartId>
      <ns:InstrumentTypes>
        <arr:string>All</arr:string>
      </ns:InstrumentTypes>
    </ns:GetPositionsRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

**CODE EXAMPLE 39: GETPOSITIONS RESPONSE**

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="05b91941-3642-4dd7-a33a-20ccec5153e7" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">e199f48c-d2ce-4f2a-afc7-c19c382cff92</ActivityId>
  </s:Header>
  <s:Body>
    <GetPositionsResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <Positions xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Position>
          <CounterpartId>3006888</CounterpartId>
          <AccountNumber>33930/FUSD</AccountNumber>
          <OrderId>1021821300</OrderId>
          <BackOfficeId>766085898</BackOfficeId>
          <BuySell>B</BuySell>
          <Instrument>CASHINTR</Instrument>
          <CurrencyCode>USD</CurrencyCode>
          <Amount>2</Amount>
          <OpenSwap>0</OpenSwap>
          <OpenPrice>1</OpenPrice>
          <ExecutionTime>2015-01-13T13:52:50.633</ExecutionTime>
          <PriceDecimals>4</PriceDecimals>
          <SpotDate>2015-01-13T00:00:00</SpotDate>
        </Position>
      </Positions>
    </GetPositionsResponse>
  </s:Body>
</s:Envelope>

```

```
<ValueDate>2015-01-13T00:00:00</ValueDate>
<ExpiryDate>1899-12-30T00:00:00</ExpiryDate>
<StrikePrice>0</StrikePrice>
<LowerBarrier>0</LowerBarrier>
<UpperBarrier>0</UpperBarrier>
<ExpiryCut></ExpiryCut>
<BarrierEventTime>1899-12-30T00:00:00</BarrierEventTime>
</Position>
<Position>
  <CounterpartId>3006888</CounterpartId>
  <AccountNumber>33930/FUSD</AccountNumber>
  <OrderId>1021833640</OrderId>
  <BackOfficeId>766088665</BackOfficeId>
  <BuySell>B</BuySell>
  <Instrument>CASHINTR</Instrument>
  <CurrencyCode>USD</CurrencyCode>
  <Amount>1</Amount>
  <OpenSwap>0</OpenSwap>
  <OpenPrice>1</OpenPrice>
  <ExecutionTime>2015-01-28T12:14:38.863</ExecutionTime>
  <PriceDecimals>4</PriceDecimals>
  <SpotDate>2015-01-28T00:00:00</SpotDate>
  <ValueDate>2015-01-28T00:00:00</ValueDate>
  <ExpiryDate>1899-12-30T00:00:00</ExpiryDate>
  <StrikePrice>0</StrikePrice>
  <LowerBarrier>0</LowerBarrier>
  <UpperBarrier>0</UpperBarrier>
  <ExpiryCut></ExpiryCut>
  <BarrierEventTime>1899-12-30T00:00:00</BarrierEventTime>
</Position>
</Positions>
</GetPositionResponse>
</s:Body>
</s:Envelope>
```

## 4.4.17 GETUSER

Request to retrieve a user.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	GetUser

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request.
UserId	Y	The UserId of the user to retrieve.

### 4.4.17.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetUserRequest>
      <!--Optional:-->
      <ns:UserId?></ns:UserId>
    </ns:GetUserRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetUserResponse>
      <!--Optional:-->
      <ns:User>
        <!--Optional:-->
        <ns:CounterpartId?></ns:CounterpartId>
        <!--Optional:-->
        <ns:UserId?></ns:UserId>
        <!--Optional:-->
        <ns:Login?></ns:Login>
        <!--Optional:-->
        <ns:Name?></ns:Name>
      </ns:User>
    </ns:GetUserResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<!--Optional:-->
<ns:Tin?></ns:Tin>
<!--Optional:-->
<ns>Password?></ns>Password>
<!--Optional:-->
<ns:Active?></ns:Active>
<!--Optional:-->
<ns:AccessProfile?></ns:AccessProfile>
<!--Optional:-->
<ns:LockedOut?></ns:LockedOut>
<!--Optional:-->
<ns:NationalTins>
  <!--Zero or more repetitions:-->
  <ns:NationalTin>
    <ns:Country?></ns:Country>
    <ns:Tin?></ns:Tin>
  </ns:NationalTin>
</ns:NationalTins>
<!--Optional:-->
<ns:Nationality?></ns:Nationality>
<!--Optional:-->
<ns>PasswordIsEncrypted?></ns>PasswordIsEncrypted>
<!--Optional:-->
<ns>PasswordOnly?></ns>PasswordOnly>
<!--Optional:-->
<ns:WlcEndClientName>
  <!--Optional:-->
  <ns:FirstName?></ns:FirstName>
  <!--Optional:-->
  <ns:LastName1?></ns:LastName1>
  <!--Optional:-->
  <ns:LastName2?></ns:LastName2>
</ns:WlcEndClientName>
<!--Optional:-->
<ns:RegisteredAddress>
  <!--Optional:-->
  <ns:BuildingNumber?></ns:BuildingNumber>
  <!--Optional:-->
  <ns:Country?></ns:Country>
  <!--Optional:-->
  <ns:PostalCode?></ns:PostalCode>
  <!--Optional:-->
  <ns:StateOrProvince?></ns:StateOrProvince>
  <!--Optional:-->
  <ns:StreetName?></ns:StreetName>
```



```
<!--Optional:-->
  <ns:StreetType?></ns:StreetType>
  <!--Optional:-->
  <ns:Town?></ns:Town>
</ns:RegisteredAddress>
<!--Optional:-->
<ns:CityOfBirth?></ns:CityOfBirth>
<!--Optional:-->
<ns:CountryOfBirth?></ns:CountryOfBirth>
<!--Optional:-->
<ns:DateOfBirth?></ns:DateOfBirth>
<!--Optional:-->
<ns:ResidentCertificateDate?></ns:ResidentCertificateDate>
<!--Optional:-->
<ns:Role>
  <!--Optional:-->
  <ns:OwnershipPercentage?></ns:OwnershipPercentage>
  <!--Optional:-->
  <ns:RoleType?></ns:RoleType>
</ns:Role>
<!--Optional:-->
<ns:Email?></ns:Email>
<!--Optional:-->
<ns:PersonalIdInfo>
  <!--Optional:-->
  <ns:Id?></ns:Id>
  <!--Optional:-->
  <ns:Type?></ns:Type>
</ns:PersonalIdInfo>
</ns:User>
</ns:GetUserResponse>
</soapenv:Body>
</soapenv:Envelope>
```

## 4.4.17.2 CODE EXAMPLES

### CODE EXAMPLE 40: GETUSER REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:GetUserRequest>
      <ns:UserId>6602952</ns:UserId>
    </ns:GetUserRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### CODE EXAMPLE 41: GETUSER RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="ddbdefe8-0479-425e-8606-48f386c74359" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">da734bec-03a7-4e02-9507-149aa4cfa043</ActivityId>
  </s:Header>
  <s:Body>
    <GetUserResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <User xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <CounterpartId>6602952</CounterpartId>
        <UserId>6602952</UserId>
        <Login>6602952</Login>
        <Name>6602952</Name>
        <Tin i:nil="true"/>
        <Password i:nil="true"/>
        <Active>true</Active>
        <AccessProfile>171</AccessProfile>
        <LockedOut>false</LockedOut>
        <NationalTins i:nil="true"/>
        <Nationality>DK</Nationality>
      </User>
    </GetUserResponse>
  </s:Body>
</s:Envelope>
```

### 4.4.18 TRANSFERCASH

This request allows you to perform a cash transfer between a WLC’s client trading account and a WLC’s funding account within the same owner or sub owner’s structures (and vice-versa, from trading account to funding account).

It is only possible to send cash between a client account and a funding account of the same currency.

This request does not place or redraw cash, into or from, Saxo Bank and the WLC’s external accounts.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	TransferCash

The following parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
Amount	Y	Value that will be transacted.
Comment	N	An optional comment to the transaction can be added. This comment will be seen in the EOD files.
Currency	Y	Currency in which the cash movement will be held in. Must be the same as the base currency for the funding and trading accounts.
ForceTransaction	N	<p>The ForceTransaction field is used to force a cash withdrawal; from a client trading account to the WLC’s funding account, bypassing any margin check or cash holding rules.</p> <p>So you can make the clients account go into negative.</p> <p>How it works:</p> <ul style="list-style-type: none"> <li>On a cash withdrawal operation if you set it to true, it will do no margin or funding checks. It will withdraw the cash amount that you specified on the request. You can ultimately, place the clients account into negative. If the client has open positions, it can cause a stop out.</li> <li>On a cash withdrawal operation, if you set this field to false or not even place it in the message, all margin and funding checks will be obeyed.</li> <li>If you place it in a cash transfer that goes from the WLC funding account to the client trading account it will give you an error, even if you place it as false. So do not even specify it on a cash transfer that goes from your top funding account to the client’s trading account.</li> </ul>
FromAccountNumber	Y	Account from where the cash is removed from. For funding transactions, this field will hold the funding account id. For a redraw transaction this field will hold the clients trading account id.
ToAccountNumber	Y	Account to where the cash is moved to. For funding transactions, this field will hold the trading account id. For a redraw transaction this field will hold the WLC’s funding account.
Value Date	Y	Value Date

## 4.4.18.1 SOAP 1.2 DEFINITION

## REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:TransferCashRequest>
      <!--Optional:-->
      <ns:Amount?></ns:Amount>
      <!--Optional:-->
      <ns:Comment?></ns:Comment>
      <!--Optional:-->
      <ns:Currency?></ns:Currency>
      <!--Optional:-->
      <ns:ForceTransaction?></ns:ForceTransaction>
      <!--Optional:-->
      <ns:FromAccountNumber?></ns:FromAccountNumber>
      <!--Optional:-->
      <ns:ToAccountNumber?></ns:ToAccountNumber>
      <!--Optional:-->
      <ns:ValueDate?></ns:ValueDate>
    </ns:TransferCashRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:TransferCashResponse>
      <!--Optional:-->
      <ns:Comission?></ns:Comission>
      <!--Optional:-->
      <ns:FromAccountAmount?></ns:FromAccountAmount>
      <!--Optional:-->
      <ns:FromAccountCurrency?></ns:FromAccountCurrency>
      <!--Optional:-->
      <ns:FromAccountPositionId?></ns:FromAccountPositionId>
      <!--Optional:-->
      <ns:ToAccountAmount?></ns:ToAccountAmount>
      <!--Optional:-->
      <ns:ToAccountCurrency?></ns:ToAccountCurrency>
      <!--Optional:-->
      <ns:ToAccountPositionId?></ns:ToAccountPositionId>
    </ns:TransferCashResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 4.4.18.2 CODE EXAMPLES

**CODE EXAMPLE 42: TRANSFERCASH REQUEST**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFzTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:TransferCashRequest>
      <!--Optional:-->
      <ns:Amount>1</ns:Amount>
      <!--Optional:-->
      <ns:Comment>InternalId:1234</ns:Comment>
      <!--Optional:-->
      <ns:Currency>USD</ns:Currency>
      <!--Optional:-->
      <ns:FromAccountNumber>33930/COMMUSD</ns:FromAccountNumber>
      <!--Optional:-->
      <ns:ToAccountNumber>33930/Test125</ns:ToAccountNumber>
      <!--Optional:-->
      <ns:ValueDate>2015-02-04T11:20:00</ns:ValueDate>
    </ns:TransferCashRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

**CODE EXAMPLE 43: TRANSFERCASH RESPONSE**

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="c4d8ef22-5c3d-4c4b-ab87-e86b862a0917" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">5ed4f102-3b8c-4752-a823-3eecd48a25</ActivityId>
  </s:Header>
  <s:Body>
    <TransferCashResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <Comission>0</Comission>
      <FromAccountAmount>1</FromAccountAmount>
      <FromAccountCurrency>USD</FromAccountCurrency>
      <ToAccountAmount>1</ToAccountAmount>
      <ToAccountCurrency>USD</ToAccountCurrency>
    </TransferCashResponse>
  </s:Body>
</s:Envelope>

```

## 4.4.19 VERIFYCASHWITHDRAWAL

Request to verify if a cash withdrawal is valid.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	VerifyCashWithdrawal

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
AccountNumber	Y	The AccountNumber of the account where the check must be done.
Amount	Y	The Amount which must be checked, if it can be withdrawn.
Currency	Y	The Currency which the withdrawal should be done in.

### 4.4.19.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:VerifyCashWithdrawalRequest>
      <!--Optional:-->
      <ns:AccountNumber?</ns:AccountNumber>
      <!--Optional:-->
      <ns:Amount?</ns:Amount>
      <!--Optional:-->
      <ns:Currency?</ns:Currency>
    </ns:VerifyCashWithdrawalRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:VerifyCashWithdrawalResponse>
      <!--Optional:-->
      <ns:Valid?</ns:Valid>
    </ns:VerifyCashWithdrawalResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

#### 4.4.19.2 CODE EXAMPLES

##### CODE EXAMPLE 44: VERIFYCASHWITHDRAWAL REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:VerifyCashWithdrawalRequest>
      <ns:AccountNumber>33930/Test125</ns:AccountNumber>
      <ns:Amount>0.6</ns:Amount>
      <ns:Currency>USD</ns:Currency>
    </ns:VerifyCashWithdrawalRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

##### CODE EXAMPLE 45: VERIFYCASHWITHDRAWAL RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="ffa092ac-e97b-48e6-b418-3f560a059950" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">2652c10a-681c-42f3-a412-37bc17573f64</ActivityId>
  </s:Header>
  <s:Body>
    <VerifyCashWithdrawalResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <Valid>true</Valid>
    </VerifyCashWithdrawalResponse>
  </s:Body>
</s:Envelope>
```



## 4.4.20 VERIFYINTERACCOUNTTRANSFERREQUEST

Request to validate if a cash transfer between accounts under the same counterpart is possible.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	VerifyInterAccountTransfer

The following parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
Amount	Y	Amount to transfer
Currency	Y	Currency of the amount to transfer
FromAccountNumber	Y	Account form where the cash withdrawn.
ToAccountNumber	Y	Account to where the cash is placed

### 4.4.20.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:VerifyInterAccountTransferRequest>
      <!--Optional:-->
      <ns:Amount?></ns:Amount>
      <!--Optional:-->
      <ns:Currency?></ns:Currency>
      <!--Optional:-->
      <ns:FromAccountNumber?></ns:FromAccountNumber>
      <!--Optional:-->
      <ns:ToAccountNumber?></ns:ToAccountNumber>
    </ns:VerifyInterAccountTransferRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:VerifyInterAccountTransferRequest>
      <!--Optional:-->
      <ns:Amount?</ns:Amount>
      <!--Optional:-->
      <ns:Currency?</ns:Currency>
      <!--Optional:-->
      <ns:FromAccountNumber?</ns:FromAccountNumber>
      <!--Optional:-->
      <ns:ToAccountNumber?</ns:ToAccountNumber>
    </ns:VerifyInterAccountTransferRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 4.4.21 VALIDATEUSERPASSWORD

Request to validate a user’s password (WLC’s end client password)

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	ValidateUserPassword

The following parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
Password	Y	Password to be validated.
PasswordIsEncrypted	N	“true” = if the Password is being sent encrypted. If the this fiels is set to true the encryption details are read from the EncryptionInfo object (more details on the EncryptionInfo Object at 4.4.1.1). “false”= if the Password is not being sent encrypted. This field can be left out if the Password is not encrypted.
UserId	N	UserId of the WLC’s Client . Either UserId OR UserLogin must be supplied.
UserLogin	N	Username of the WLC’s Client. Either UserId OR UserLogin must be supplied.
EncryptionInfo	N	See Section 4.4.1.1 for details

#### 4.4.21.1 SOAP 1.2 DEFINITION

##### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:ValidateUserPasswordRequest>
      <!--Optional:-->
      <ns:EncryptionInfo>
        <!--Optional:-->
        <ns:RSAKeySequenceNumber?></ns:RSAKeySequenceNumber>
        <!--Optional:-->
        <ns:AESKey?></ns:AESKey>
      </ns:EncryptionInfo>
      <!--Optional:-->
      <ns>Password?></ns>Password>
      <!--Optional:-->
      <ns>PasswordIsEncrypted?></ns>PasswordIsEncrypted>
      <!--Optional:-->
      <ns:UserId?></ns:UserId>
    </ns:ValidateUserPasswordRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<!--Optional:-->
  <ns:UserLogin?</ns:UserLogin>
</ns:ValidateUserPasswordRequest>
</soapenv:Body>
</soapenv:Envelope>
```

## RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:ValidateUserPasswordResponse>
      <!--Optional:-->
      <ns:IsValid?</ns:IsValid>
    </ns:ValidateUserPasswordResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

### 4.4.21.2 CODE EXAMPLES

#### CODE EXAMPLE 46: VALIDATEUSERPASSWORD REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:ValidateUserPasswordRequest>
      <ns:Password>GqdJKfJJfnldo</ns:Password>
      <ns:UserId>5235422</ns:UserId>
    </ns:ValidateUserPasswordRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### CODE EXAMPLE 47: VALIDATEUSERPASSWORD RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="2cf04ac6-3e5f-437a-ae86-935a803ed07a" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">4dfe2a07-ed42-4301-8a73-6fa99afcac50</ActivityId>
  </s:Header>
  <s:Body>
    <ValidateUserPasswordResponse xmlns="http://www.saxobank.com/service/cms/2013/08">
      <IsValid>>false</IsValid>
    </ValidateUserPasswordResponse>
  </s:Body>
</s:Envelope>
```

### 4.4.22 UPDATEACCOUNT

Request to update information on an account.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	UpdateAccount

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
Account	Y	See Section 4.4.2.1 for details. When updating, the AccountNumber must be specified. Apart from the AccountNumber, any parameter not to update can be left blank, so only updated values are provided.

## 4.4.22.1 SOAP 1.2 DEFINITION

## REQUEST

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId?</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:UpdateAccountRequest>
      <!--Optional:-->
      <ns:Account>
        <!--Optional:-->
        <ns:CounterpartId?</ns:CounterpartId>
        <ns:AccountNumber?</ns:AccountNumber>
        <!--Optional:-->
        <ns:Description?</ns:Description>
        <!--Optional:-->
        <ns:Currency?</ns:Currency>
        <!--Optional:-->
        <ns:InternalAccountNumber?</ns:InternalAccountNumber>
        <!--Optional:-->
        <ns:CommissionGroupId?</ns:CommissionGroupId>
        <!--Optional:-->
        <ns:Iban?</ns:Iban>
        <!--Optional:-->
        <ns:AccountRiskProfileId?</ns:AccountRiskProfileId>
        <!--Optional:-->
        <ns:Active?</ns:Active>
        <!--Optional:-->
        <ns:TradableInstrumentIds>
          <!--Zero or more repetitions:-->
          <arr:int?</arr:int>
        </ns:TradableInstrumentIds>
        <!--Optional:-->
        <ns:VPAccount>
          <ns:AccountNumber?</ns:AccountNumber>
          <!--Optional:-->
          <ns:CdIdentNumber?</ns:CdIdentNumber>
          <!--Optional:-->
          <ns:RegisterToName?</ns:RegisterToName>
          <!--Optional:-->
          <ns:DividendTaxStatusId?</ns:DividendTaxStatusId>
        </ns:VPAccount>
        <!--Optional:-->
      </ns:Account>
    </ns:UpdateAccountRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

```

<ns:MaxCreditLine>?</ns:MaxCreditLine>
<!--Optional:-->
<ns:WealthManagementEnabled>?</ns:WealthManagementEnabled>
<!--Optional:-->
<ns:MoneyManagerFeeProfileId>?</ns:MoneyManagerFeeProfileId>
<!--Optional:-->
<ns:CfdFinanceProfileId>?</ns:CfdFinanceProfileId>
<!--Optional:-->
<ns:AccountGroupIds>
  <!--Zero or more repetitions:-->
  <arr:int>?</arr:int>
</ns:AccountGroupIds>
<!--Optional:-->
<ns:FXForwardProfileId>?</ns:FXForwardProfileId>
<!--Optional:-->
<ns:FXSpotForwardProfileId>?</ns:FXSpotForwardProfileId>
<!--Optional:-->
<ns:CarryingCostProfileId>?</ns:CarryingCostProfileId>
<!--Optional:-->
<ns:HoldingFeeProfileId>?</ns:HoldingFeeProfileId>
<!--Optional:-->
<ns:VMMinTransferAmount>?</ns:VMMinTransferAmount>
<!--Optional:-->
<ns:VMMinTransferAmountCurrency>?</ns:VMMinTransferAmountCurrency>
</ns:Account>
</ns:UpdateAccountRequest>
</soapenv:Body>
</soapenv:Envelope>

```

**RESPONSE**

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body/>
</soapenv:Envelope>

```

### 4.4.22.2 CODE EXAMPLES

#### CODE EXAMPLE 48: UPDATEACCOUNT REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08" xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:UpdateAccountRequest>
      <ns:Account>
        <ns:AccountNumber>33930/7891123457</ns:AccountNumber>
        <ns:Description>An updated description</ns:Description>
      </ns:Account>
    </ns:UpdateAccountRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

#### CODE EXAMPLE 49: UPDAETACCOUNT RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="79b00861-7d42-4c64-83aa-5c001a6736df" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">7494d157-54ac-4d48-8797-816acda8b59d</ActivityId>
  </s:Header>
  <s:Body/>
</s:Envelope>
```

### 4.4.23 UPDATECOUNTERPART

Request to retrieve

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	UpdaetCounterpart

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
Counterpart	Y	The Counterpart object. See Section 4.4.3.2 for details. On update, the CounterpartId must be specified. Otherwise, only the fields which should be updated is to be provided.



## 4.4.23.1 SOAP 1.2 DEFINITION

## REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId?</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:UpdateCounterpartRequest>
      <!--Optional:-->
      <ns:Counterpart>
        <!--Optional:-->
        <ns:OwnerId?</ns:OwnerId>
        <!--Optional:-->
        <ns:CounterpartId?</ns:CounterpartId>
        <!--Optional:-->
        <ns:Name?</ns:Name>
        <!--Optional:-->
        <ns:BaseCurrency?</ns:BaseCurrency>
        <!--Optional:-->
        <ns:IsProfessional?</ns:IsProfessional>
        <!--Optional:-->
        <ns:Language?</ns:Language>
        <!--Optional:-->
        <ns:CountryOfResidence?</ns:CountryOfResidence>
        <!--Optional:-->
        <ns:TaxCountry?</ns:TaxCountry>
        <!--Optional:-->
        <ns:Email?</ns:Email>
        <!--Optional:-->
        <ns:CompanyRegistrationNumber?</ns:CompanyRegistrationNumber>
        <!--Optional:-->
        <ns:Active?</ns:Active>
        <!--Optional:-->
        <ns:MarginProfileId?</ns:MarginProfileId>
        <!--Optional:-->
        <ns:MarginCallProfileId?</ns:MarginCallProfileId>
        <!--Optional:-->
        <ns:ProductClassifications>
          <!--Zero or more repetitions:-->
          <ns:ProductAreaClassification>
            <ns:ProductAreaId?</ns:ProductAreaId>
            <ns:ProductClassificationId?</ns:ProductClassificationId>
```

```
<!--Optional:-->
  <ns:AppropriatenessTestPassedId?></ns:AppropriatenessTestPassedId>
</ns:ProductAreaClassification>
</ns:ProductClassifications>
<!--Optional:-->
<ns:ReliefAtSource>
  <ns:Enabled?></ns:Enabled>
  <ns:TypeId?></ns:TypeId>
  <!--Optional:-->
  <ns:ExpiryDate?></ns:ExpiryDate>
  <!--Optional:-->
  <ns:NifId?></ns:NifId>
</ns:ReliefAtSource>
<!--Optional:-->
<ns:Vat>
  <ns:Percentage?></ns:Percentage>
  <ns:Forced?></ns:Forced>
</ns:Vat>
<!--Optional:-->
<ns:SwissTax>
  <!--Optional:-->
  <ns:BrokerIntroduced?></ns:BrokerIntroduced>
  <!--Optional:-->
  <ns:StampDutyExempt?></ns:StampDutyExempt>
  <!--Optional:-->
  <ns:Residency?></ns:Residency>
</ns:SwissTax>
<!--Optional:-->
<ns:CounterpartType?></ns:CounterpartType>
<!--Optional:-->
<ns>WealthManagementProfileId?></ns>WealthManagementProfileId>
<!--Optional:-->
<ns:Emir>
  <!--Optional:-->
  <ns:IsFinancial?></ns:IsFinancial>
  <!--Optional:-->
  <ns:LeiCode?></ns:LeiCode>
</ns:Emir>
<!--Optional:-->
<ns:WlcEndClientName?></ns:WlcEndClientName>
<!--Optional:-->
<ns:FeeProfileIds>
  <!--Zero or more repetitions:-->
  <arr:int?></arr:int>
</ns:FeeProfileIds>
```

```

<!--Optional:-->
<ns:CounterpartGroupIds>
  <!--Zero or more repetitions:-->
  <arr:int>?</arr:int>
</ns:CounterpartGroupIds>
<!--Optional:-->
<ns:WithholdingTaxProfileId>?</ns:WithholdingTaxProfileId>
<!--Optional:-->
<ns:PositionNettingModeId>?</ns:PositionNettingModeId>
<!--Optional:-->
<ns:StopoutModeId>?</ns:StopoutModeId>
<!--Optional:-->
<ns:CollateralProfile>?</ns:CollateralProfile>
<!--Optional:-->
<ns:ContractOptionsTradingProfile>?</ns:ContractOptionsTradingProfile>
<!--Optional:-->
<ns:EntityType>?</ns:EntityType>
<!--Optional:-->
<ns:VMProductScope>?</ns:VMProductScope>
<!--Optional:-->
<ns:VariationMarginEligibility>?</ns:VariationMarginEligibility>
<!--Optional:-->
<ns:CustodyInfo>
  <!--Optional:-->
  <ns:SpanishCustodyInfo>
    <!--Optional:-->
    <ns:IndividualAccountMutualFunds>
      <!--Optional:-->
      <ns:CustodyAccountNumber>?</ns:CustodyAccountNumber>
      <!--Optional:-->
      <ns:RequestStatus>?</ns:RequestStatus>
      <!--Optional:-->
      <ns:RequestStatusReason>?</ns:RequestStatusReason>
      <!--Optional:-->
      <ns:State>?</ns:State>
    </ns:IndividualAccountMutualFunds>
    <!--Optional:-->
    <ns:IndividualAccountShares>
      <!--Optional:-->
      <ns:CustodyAccountNumber>?</ns:CustodyAccountNumber>
      <!--Optional:-->
      <ns:RequestStatus>?</ns:RequestStatus>
      <!--Optional:-->
      <ns:RequestStatusReason>?</ns:RequestStatusReason>
      <!--Optional:-->

```

```
        <ns:State>?</ns:State>
    </ns:IndividualAccountShares>
  </ns:SpanishCustodyInfo>
</ns:CustodyInfo>
<!--Optional:-->
<ns:OrganisationInfo>
  <!--Optional:-->
  <ns:DGCICode>?</ns:DGCICode>
  <!--Optional:-->
  <ns:DateOfIncorporation>?</ns:DateOfIncorporation>
  <!--Optional:-->
  <ns:NaceCode>?</ns:NaceCode>
  <!--Optional:-->
<ns:CollectiveInvestmentSchemeStatus>?</ns:CollectiveInvestmentSchemeStatus>
</ns:OrganisationInfo>
<!--Optional:-->
<ns:RegisteredAddress>
  <!--Optional:-->
  <ns:BuildingNumber>?</ns:BuildingNumber>
  <!--Optional:-->
  <ns:Country>?</ns:Country>
  <!--Optional:-->
  <ns:PostalCode>?</ns:PostalCode>
  <!--Optional:-->
  <ns:StateOrProvince>?</ns:StateOrProvince>
  <!--Optional:-->
  <ns:StreetName>?</ns:StreetName>
  <!--Optional:-->
  <ns:StreetType>?</ns:StreetType>
  <!--Optional:-->
  <ns:Town>?</ns:Town>
</ns:RegisteredAddress>
<!--Optional:-->
<ns:Tin>?</ns:Tin>
<!--Optional:-->
<ns:UltimateParentInfo>
  <!--Optional:-->
  <ns:Email>?</ns:Email>
  <!--Optional:-->
  <ns:LeiCode>?</ns:LeiCode>
</ns:UltimateParentInfo>
</ns:Counterpart>
</ns:UpdateCounterpartRequest>
</soapenv:Body></soapenv:Envelope>
```

**RESPONSE**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">  
  <soapenv:Header/>  
  <soapenv:Body/>  
</soapenv:Envelope>
```

#### 4.4.23.2 CODE EXAMPLES

##### CODE EXAMPLE 50: UPDATECOUNTERPART REQUEST

In this example, the Counterpart with CounterpartId 6602910 under Counterpart with CounterpartId 300688 has the name updated to “NewlyUpdatedName”.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:UpdateCounterpartRequest>
      <ns:Counterpart>
        <ns:OwnerId>3006888</ns:OwnerId>
        <ns:CounterpartId>6602910</ns:CounterpartId>
        <ns:Name>NewlyUpdatedName</ns:Name>
      </ns:Counterpart>
    </ns:UpdateCounterpartRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

##### CODE EXAMPLE 51: UPDATECOUNTERPART RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="71fee9c3-8bfd-4a28-a19e-141833f610c3" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">9c20d496-826a-42c5-9596-e03f5335338b</ActivityId>
  </s:Header>
  <s:Body/>
</s:Envelope>
```

## 4.4.24 UPDATEUSER

Request to update information on a user.

SUBJECT	URL
WSDL	https://enterprise.saxobank.com/cmslive/CmsService.svc?WSDL
End Point URL	https://enterprise.saxobank.com/cmslive/CmsService.svc
Operation	UpdateUser

The following input parameters are available in the request.

PARAMETER	MANDATORY	DESCRIPTION
SessionID	Y	SessionID returned by the Login Request
User	Y	The User object. See Section 4.4.3.3 for details.
EncryptionInfo	N	When updating, the See Section 4.4.1.1 for details

### 4.4.24.1 SOAP 1.2 DEFINITION

#### REQUEST

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId?></ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:UpdateUserRequest>
      <!--Optional:-->
      <ns:EncryptionInfo>
        <!--Optional:-->
        <ns:RSAKeySequenceNumber?></ns:RSAKeySequenceNumber>
        <!--Optional:-->
        <ns:AESKey?></ns:AESKey>
      </ns:EncryptionInfo>
      <!--Optional:-->
      <ns:User>
        <!--Optional:-->
        <ns:CounterpartId?></ns:CounterpartId>
        <!--Optional:-->
        <ns:UserId?></ns:UserId>
        <!--Optional:-->
        <ns:Login?></ns:Login>
        <!--Optional:-->
        <ns:Name?></ns:Name>
        <!--Optional:-->
      </ns:User>
    </ns:UpdateUserRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<ns:Tin>?</ns:Tin>
<!--Optional:-->
<ns>Password>?</ns>Password>
<!--Optional:-->
<ns:Active>?</ns:Active>
<!--Optional:-->
<ns:AccessProfile>?</ns:AccessProfile>
<!--Optional:-->
<ns:LockedOut>?</ns:LockedOut>
<!--Optional:-->
<ns:NationalTins>
  <!--Zero or more repetitions:-->
  <ns:NationalTin>
    <ns:Country>?</ns:Country>
    <ns:Tin>?</ns:Tin>
  </ns:NationalTin>
</ns:NationalTins>
<!--Optional:-->
<ns:Nationality>?</ns:Nationality>
<!--Optional:-->
<ns>PasswordIsEncrypted>?</ns>PasswordIsEncrypted>
<!--Optional:-->
<ns>PasswordOnly>?</ns>PasswordOnly>
<!--Optional:-->
<ns:WlcEndClientName>
  <!--Optional:-->
  <ns:FirstName>?</ns:FirstName>
  <!--Optional:-->
  <ns:LastName1>?</ns:LastName1>
  <!--Optional:-->
  <ns:LastName2>?</ns:LastName2>
</ns:WlcEndClientName>
<!--Optional:-->
<ns:RegisteredAddress>
  <!--Optional:-->
  <ns:BuildingNumber>?</ns:BuildingNumber>
  <!--Optional:-->
  <ns:Country>?</ns:Country>
  <!--Optional:-->
  <ns:PostalCode>?</ns:PostalCode>
  <!--Optional:-->
  <ns:StateOrProvince>?</ns:StateOrProvince>
  <!--Optional:-->
  <ns:StreetName>?</ns:StreetName>
  <!--Optional:-->
```



```
    <ns:StreetType>?</ns:StreetType>
    <!--Optional:-->
    <ns:Town>?</ns:Town>
  </ns:RegisteredAddress>
  <!--Optional:-->
  <ns:CityOfBirth>?</ns:CityOfBirth>
  <!--Optional:-->
  <ns:CountryOfBirth>?</ns:CountryOfBirth>
  <!--Optional:-->
  <ns:DateOfBirth>?</ns:DateOfBirth>
  <!--Optional:-->
  <ns:ResidentCertificateDate>?</ns:ResidentCertificateDate>
  <!--Optional:-->
  <ns:Role>
    <!--Optional:-->
    <ns:OwnershipPercentage>?</ns:OwnershipPercentage>
    <!--Optional:-->
    <ns:RoleType>?</ns:RoleType>
  </ns:Role>
  <!--Optional:-->
  <ns:Email>?</ns:Email>
  <!--Optional:-->
  <ns:PersonalIdInfo>
    <!--Optional:-->
    <ns:Id>?</ns:Id>
    <!--Optional:-->
    <ns:Type>?</ns:Type>
  </ns:PersonalIdInfo>
</ns:User>
</ns:UpdateUserRequest>
</soapenv:Body>
</soapenv:Envelope>
```

## RESPONSE

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body/>
</soapenv:Envelope>
```

#### 4.4.24.2 CODE EXAMPLES

##### CODE EXAMPLE 52: UPDATEUSER REQUEST

In this example the User with UserId 5791128 has the name updated to “JustUpdatedName”.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://www.saxobank.com/service/cms/2013/08">
  <soapenv:Header>
    <ns:SessionId>QAs01NW22ajBAsjFZTGM</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:UpdateUserRequest>
      <ns:User>
        <ns:UserId>5791128</ns:UserId>
        <ns:Name>JustUpdatedName</ns:Name>
      </ns:User>
    </ns:UpdateUserRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

##### CODE EXAMPLE 53:UPDATEUSER RESPONSE

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <ActivityId CorrelationId="1ca54e0e-6147-4d8c-9fff-fe6c73db9481" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">e09a993a-10f5-4b35-a029-86d9eeb1f93c</ActivityId>
  </s:Header>
  <s:Body/>
</s:Envelope>
```

## 5 ERROR HANDLING

Saxo Group monitors the CMS API and has failover procedures and backup systems. Internal failures are therefore handled immediately through Saxo Group's incident management process and are normally not noticeable to the White Label.

### 5.1 FAULTS

CMS uses Faults to communicate possible error scenarios back to its clients.

#### 5.1.1 FAULT TYPES

There are two types of *declared faults* (SOAP faults that are defined in the service contract), ValidationFault and ServiceFault. See Section 5.3 for more details.

### 5.2 ERROR CODES FOR SERVICEFAULTS

#### 5.2.1 LOGIN AND SECURITY

Id	Code	Description
Name	Code	Description
Unknown/NotSet	100000	Is unknown, and should be handled as a system error. Please contact technical support at Saxo Bank if this exception is returned.
AccessDenied	100001	Is returned when the login fails or a request is done towards a web service interface that the user does not have access to.
AccountLockedOut	100002	Is returned when the server user has failed to logon five times. Saxo Bank must reactivate it.
InvalidSessionId	100003	The session id that is attached in the web service request is not known by the server.
SessionIdExpired	100004	The session id expires 8 hours after login is called and needs to be renewed.
PasswordExpired	100005	The password expires every third month and needs to be changed by the ChangePassword request.
InvalidIPAddress	100006	All requests must be done from the same IP address as the login request.
UnknownUser	100007	The certificate used on the client does not match with a known User.

The Fault names marked with gray can be solved by renewing the ticket, i.e. call Login again and receive a new ticket.

## 5.2.2 USER PASSWORD

Id	Code	Description	
UserPwLockedOut	420009	User is locked out. Too many validate password attempts.	C
UserPwExpired	420010	Password is expired.	C
ClientNotActive	420011	Counterpart owning the user is not active.	C
UserNotActive	420012	User is not active.	C
UserNotAuthorizedFor Platform	420013	User is not authorized for platform.	N/A
UserPwAnotherChallengeNeeded	420014	Another challenge is needed.	N/A
UserPwChallengeResponseWrong	420015	Challenge response wrong.	N/A
UserPwComplexity	410016	The password does not meet the security complexity requirements.	U
UserPwRecentlyChanged	410017	The password has recently been changed.	U
UserPwReuse	410018	This password has already been used. Please select another password.	U
UserPwUnknown	410021	Unknown error in change password functionality.	U

## 5.2.3 CASH TRANSFER

Id	Code	Description	
CounterpartFundingAccount	410009	When issuing cash transfers, one counterpart account and one funding account must be supplied.	U
CounterpartFundingAccountRelation	410010	The provided counterpart account is accessible by the owner of the funding account. The counterpart account is on a higher level than the funding account.	U
InvalidCashCurrency	410012	The currency must be the same as the currency of the counterpart account and the funding account.	U
ValueDateNotValid	410015	The provided value date is not valid. The value date cannot be more that 6 months ahead of current time.	U
InsufficientCash	420005	From Account has insufficient cash.	U
AccountNotCash	420006	Account is not valid for cash transfers. This often indicates that the Account is missing required products.	U

CashInactiveAccount	420007	From or to Account is inactive.	U
UnknownCash	430501	Cash Transfer failed. This indicates that an internal cash transfer error has occurred. Please contact technical support at Saxo Bank.	

## 5.2.4 RELIEF AT SOURCE

Id	Code	Description	
ReliefAtSourceNotEnabledForOwner	430101	ReliefAtSource information provided, but is not enabled for owner.	C
ReliefAtSourceTypeNotAllowedForOwner	430102	ReliefAtSourceType is not allowed for the current owner.	C
ReliefAtSourceNifIdInvalid	430103	Provided NifId is not valid.	U
ReliefAtSourceNifIdMustBeSpecifiedForPortuguese	430104	NifId must be specified for Portuguese relief at source types.	U
ReliefAtSourceNifIdMustNotBeSpecifiedForPortuguese	430105	NifId must not be specified for non-Portuguese relief at source types.	U
ReliefAtSourceNifIdExpiryDateMustNotBeSpecified	430106	Expiry date must not be specified for non us Portuguese relief at source types.	U

## 5.2.5 COUNTERPART, ACCOUNT AND USER RELATED ERRORS

Id	Code	Description	
TemplateNotEnabled	310003	Template is not enabled.	C
TemplateAccessDenied	310004	Template does not belong to current Owner.	U
TemplateWrongType	310005	Template is of wrong type.	U
AccountNumberInvalidPrefix	410004	The Account number does not have a valid prefix.	U
AccountNumberNotUnique	410007	Account number for account is not unique.	U
UserLoginNotUnique	410008	User login name is not unique.	U
OmnibusAccountMissing	420003	No Omnibus Account found belonging to the current Owner.	C

VatNotEnabledForOwner	430000	Vat information is provided, but is not enabled for owner.	C
MissingChildTemplateAccounts	430201	Account Templates supplied, do not correspond with the Child Account Templates belonging to the Counterpart TemplateId.	U
MissingMasterAccount	430202	One Account should have the same currency as the base currency on the counterpart.	U
MissingAccounts	430203	No Accounts supplied when creating counterpart.	U
MissingVPAccountInformation	430204	CdIdentNumber needs to be specified, if it is not present on the Account Template used.	U
AccountContainsOpenPositions	430205	Account contains open positions and cannot be moved to another counterpart.	U
AccountInvalidCashBalance	430206	Account has a cash balance that is not zero and cannot be moved to another counterpart.	U
NotAllowedToUpdateCurrency	430301	It is not allowed to update Currency on existing Account	U
NotAllowedToUpdateCounterpartType	430302	It is not allowed to change the CounterpartType of an existing Counterpart.	U
NotAllowedToChangeOwner	430303	It is not allowed to change the OwnerId of an existing Counterpart.	U
NotAllowedToChangeInterestProfile	430304	It is not allowed to update the InterestProfileId on an existing Account	U
NotAllowedToChangeCounterpart	430305	It is not allowed to change Counterpart Owner on an existing Account	U
NotAllowedToChangeAccountProfile	430306	It is not allowed to update AccountRiskProfileId on an existing Account	U
NotAllowedToChangeCfdInterestProfile	430307	It is not allowed to update CfdInterestProfileId on an existing Account	U
NotAllowedToChangeMarginProfile	430309	It is not allowed to change the MarginProfile of an existing Counterpart.	U
NotAllowedToChangeMarginCallProfile	430310	It is not allowed to change the MarginCallProfile of an existing Counterpart	U
InvalidInstruments	430311	Provided Instruments are not allowed for the current Owner.	C
NotAllowedToProvideTinForCorporateCounterparts	430312	It is not allowed to provide Tin number on the Primary User when creating a Corporate Counterpart.	U
CrnShouldNotBeIncludedForNoneCorporate	430401	CompanyRegistrationNumber should not be supplied for none Corporate Counterpart Types	U

### 5.2.6 OTHER

Id	Code	Description	
Unknown	300000 400000	Is unknown and should be handled as a system Fault. Please contact technical support at Saxo Bank.	
ValueNotAllowed	310001	The provided value is not allowed. Please contact Saxo Bank if value should be allowed.	C
NotOwner	310002	The Owner does not have access to the entity.	U

### 5.3 FAULT TYPE EXAMPLES

Fault	Overall Description	Example
<b>Validation Fault</b>	Used to give clients field level validation feedback. And about common business rules. Examples could be validation like Required, StringLength, DataType, Account Number etc.	<pre> &lt;s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"&gt;   &lt;s:Body&gt;     &lt;s:Fault&gt;       &lt;faultcode&gt;s:Client&lt;/faultcode&gt;       &lt;faultstring xml:lang="da-DK"&gt;Validation failed on some Service Parameter provided to Operation CreateCounterpart. See the Detail property for more info&lt;/faultstring&gt;       &lt;detail&gt;         &lt;ValidationFault xmlns="http://www.saxobank.com/service/cms/2013/08" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"&gt;           &lt;TrackingCode i:nil="true"/&gt;           &lt;ErrorCode&gt;100&lt;/ErrorCode&gt; --Validation Error           &lt;Details xmlns:a="http://schemas.datacontract.org/2004/07/lit.Sem.Cms.Contract.DataContracts"&gt;             &lt;ValidationDetail&gt;               &lt;a:Key&gt;Counterpart.Language&lt;/a:Key&gt;               &lt;a:Message&gt;Property Language must contain a 2 letter alphanumeric code according to the ISO 639-1 standard&lt;/a:Message&gt;             &lt;/ValidationDetail&gt;           &lt;/Details&gt;         &lt;/ValidationFault&gt;       &lt;/detail&gt;     &lt;/s:Fault&gt;   &lt;/s:Body&gt; &lt;/s:Envelope&gt; </pre>

**ServiceFault**

Used for all other possible types of faults. An error code will be used, so the client can identify the specific error reason and act upon it.

```
<s:Envelope
xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <s:Fault>
      <faultcode>s:Client </faultcode>
      <faultstring>ReliefAtSource information provided, but is
not enabled for owner 3086666</faultstring>
      <detail>
        <ServiceFault
xmlns="http://www.saxobank.com/service/cms/2013/08"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <TrackingCode i:nil="true"/>
          <ErrorCode>320001</ErrorCode> --100000-999999
        </ServiceFault>
      </detail>
    </s:Fault>
  </s:Body>
</s:Envelope>
```



## 6 IMPLEMENTATION ASSISTANCE

During the implementation phase, Saxo Bank will allocate an expert to support and assist the White Label. The most common support tasks are;

- Understanding the CMS API, its capabilities and limitations, required actions under certain scenarios
- Installation of certificate
- Executing the Login
- Changing the first time password

### 6.1.1 TESTING TOOL

Saxo Bank recommends the White Label to use a testing tool called SoapUI. Information about the tool can be found here: <http://www.soapui.org/About-SoapUI/what-is-soapui.html>. The free open source version is sufficient for the testing of the CMS API.

### 6.1.2 CODE SAMPLE

You can request a sample of how you can use the API to your onboarding support contact.

**Note:** *The code is not supported by Saxo Group. You can refer to this code but cannot use it for live applications. This code is written in C#.*

## 7 GLOSSARY

### 7.1 CMS API

NAME	DESCRIPTION
Client	A white labeling Client (WLC) of Saxo Group. A client is also called Owner.
Counterpart	A counterpart is the same as a client in this document, i.e. logical unit with at least one account and one user. A counterpart always belongs to a client.
Account	All trades/transactions are registered on an account. An account always belongs to a counterpart.
User	The person who is trading. A user always belongs to a counterpart.
Service user	The user that should be used by the client to logon to the Saxo Group business system via the API.
Service user owner	The service user belongs to a client in SEM called the service user owner.
SEM	The Saxo Enterprise Manager system, one of Saxo Group business system which, among other, controls access to the CCM API.

## 7.2 WEB CONNECT FIELDS

WEB CONNECT	FIELDS FROM API
Non-Margin Positions	CollateralMarketValue
Unrealised margin profit/loss	MarginProductPL
Cost to Close	CostToClosePositions
Unrealised Value of positions	MarginProductsPL + CollateralMarketValue + CostToClosePosition
Cash Balance	CashBalance
Transactions not booked	AmountsNotBooked
Account Value	Total Equity
Other collateral	Securities
Not available for margin collateral	CollateralDeduction
Used for Margin requirements	MarginRequired
Available for Margin Trading	NetFreeBalance
Margin Utilisation	RealLinePct
Instrument type	InstrumentType
Instrument	Instrument
Long/Short	BuySell
Amount	Amount
Open Price	OpenPrice
Non-Margin Positions	CollateralMarketValue

## 8 APPENDIX

### 8.1 PASSWORD ENCRYPTION FUNCTIONALITY

The password encryption functionality is based on the RSA public-key cryptosystem, and optionally an additional AES protocol Encryption layer.

The encrypted password may be presented to Saxo either by one of two manners:

a. **RSA Public Key Encryption Only**

Using this method, the password presented (in base64) is encrypted using a public key. This public key will be generated by Saxo, and passed on to the WLC together with a KeySequence.

b. **RSA Public Key and AES Encryption**

In this method, the password (in base64) is AES encrypted, using an encryption key. The encryption key (in base64) that the WLC uses to AES encrypt the password is also passed to Saxo, and is public-key encrypted.

*Suggestion:* The encryption key should be randomly generated on every password encryption.

#### **Methods impacted by Password Encryption**

- ChangeUserPassword
- CreateUser
- UpdateUser
- CreateCounterpart
- ValidateUserPassword

All of the above methods will have the following new input items:

- EncryptionInfo [Object]:
  - RSAKeySequenceNumber[Int]
  - AESKey[String]
- PasswordIsEncrypted [Boolean]

#### 8.1.1 HOW IT WORKS

##### **RSA Public Key Generation:**

Saxo Bank will generate a RSA public/private key pair. Saxo will keep the private key, and send the public key to the WLC, together with a RSAKeySequenceNumber (this id will be used by Saxo to identify the WLC setup within the Saxo system, it will be unique for the pair[WLC, PublicKey]).

Encrypting password:

When an encrypted password is going to be passed, via one of the methods above (a. or b.), the PasswordIsEncrypted field has to be set to "true" and the EncryptionInfo object needs to be filled in with the relevant encryption input (dependent on the methods of encryption chosen).

If you choose method a) **RSA Public Key Encryption Only:**

- PasswordIsEncrypted = "true"
- RSAKeySequenceNumber is always passed: this is the id that Saxo will pass to the WLC and that will identify the WLC's RSA config inside Saxo's systems.
- Password is base64 RSA encrypted

If you choose method b) **RSA Public Key and AES Encryption**

- PasswordIsEncrypted = "true"
- RSAKeySequenceNumber is always passed: this is the id that Saxo will pass to the WLC and that will identify the WLC's RSA config inside Saxo's systems.
- AESKey: this parameter has to be filled in with the RSA Encrypted value, of the base64 keyword, used to AES encrypt the password
- Password is base64 AES encrypted

## 8.1.2 CODE SAMPLES

**The below code is not prepared for live usage as is. The purpose of this code is to suggest and inspire implementations.**

### 8.1.2.1 SAMPLE CODE FOR AESKEY GENERATION

(AESKey has to be transformed into it a base64 format string before it is RSA encrypted and placed into the CMS request.)

```
private void CreateAES256Key_Click(object sender, EventArgs e)
{
    try
    {
        RijndaelManaged rjnd1 = new RijndaelManaged();
        rjnd1.KeySize = 256;
        rjnd1.BlockSize = 256;
        rjnd1.Mode = CipherMode.CBC;
        rjnd1.Padding = PaddingMode.PKCS7;
        byte[] keyBytes = rjnd1.Key;
        string key = Convert.ToBase64String(keyBytes);

        AES256NewKeyTextBox.Text = key;
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
    }
}
```

### 8.1.2.2 SAMPLE CODE FOR ENCRYPTING PASSWORD WITH AESKEY.

```
private void AES256EncryptButton_Click(object sender, EventArgs e)
{
    try
    {
        byte[] initializationVector = new byte[] { 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0 };

        AesManaged encryptor = new AesManaged();
        encryptor.Mode = CipherMode.CBC;
        encryptor.Key = Convert.FromBase64String(AES256KeyTextBox.Text);
        encryptor.IV = initializationVector;
```

```

        encryptor.Padding = PaddingMode.PKCS7;

        using (MemoryStream cipherTextStream = new MemoryStream())
        using (CryptoStream cryptoStream = new CryptoStream(cipherTextStream,
encryptor.CreateEncryptor(), CryptoStreamMode.Write))
        {
            byte[] plainTextBytes = null;
            if (AES256Base64CheckBox.Checked) plainTextBytes =
Convert.FromBase64String(AES256InputTextBox.Text);
            else plainTextBytes = (new UTF8Encoding(false)).GetBytes(AES256InputTextBox.Text);
            cryptoStream.Write(plainTextBytes, 0, plainTextBytes.Length);
            cryptoStream.FlushFinalBlock();
            cryptoStream.Close();
            AES256OutputTextBox.Text = Convert.ToBase64String(cipherTextStream.ToArray());
            AESOutputUTF8TextBox.Text = String.Empty;
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
    }
}

```

### 8.1.2.3 ENCRYPTING WITH RSA KEY

```

private string RSAEncrypt(string rsaKeyXml, string inputStr, bool base64)
{
    string outputBase64Str = null;

    try
    {
        RSACryptoServiceProvider rsa = new RSACryptoServiceProvider();
        rsa.FromXmlString(rsaKeyXml);
        byte[] inputBytes = null;
        if (base64) inputBytes = Convert.FromBase64String(inputStr);
        else inputBytes = (new UTF8Encoding(false)).GetBytes(inputStr);
        byte[] outputBytes = rsa.Encrypt(inputBytes, false);
        outputBase64Str = Convert.ToBase64String(outputBytes);
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
    }
    return outputBase64Str;
}

```

## 8.2 STREET TYPE

Street type must be set when providing a registered address:

Code	Description
AL	Village
AP	Apartment
AV	Avenue
BL	Housing Block
BO	District
CH	Villa
CL	Street
CM	Way
CO	Housing Estate
CR	Road
CS	Farmhouse
CT	Hill
ED	Building
GL	Roundabout
GR	Group
LG	Place
MC	Market
MN	Municipality
MZ	Block
PB	Town
PG	Industrial Zone

PJ	Passage
PQ	Park
PR	Annex
PS	Promenade
PZ	Square
RB	Boulevard
RD	Beltway
TR	Alley
UR	Neighborhood
ZZ	Unknown

### 8.3 CODES DGTE / DGCI

Code	Description
00	Credit financial intermediary
08	Non-credit financial intermediary
20	Investment funds
21	Pension funds
40	Insurance companies
60	Private non-financial companies
70	Physical persons
75	Other investors

### 8.4 HOW TO OBTAIN REFERENCE DATA TO CREATE AND/OR UPDATE

The Create\* and Update\* functions of the CMS API, accept field Id's in order to set or update respectively a certain attribute value. In order to know what id's are available and what do they stand for, the CMS API provides the function **GetDataItemTypes**.

This function receives the following input parameters:

- **OwnerId:** Id of the Owner under where your Counterpart\Account\User is (or will be) located.
- **Types:** Type of parameter that is being retrieved. Name of the field whose possible values are being queried upon. For instance "CommissionGroups", "CounterpartTemplates".
- In order to know, what are the possible values for the field "Types", the function **GetAvailableDataItemTypes** should be executed.



## 8.5 COUNTERPART TEMPLATE AND ACCOUNT TEMPLATES

When creating a Counterpart or an Account a Template Id has to be provided. Templates are set of default values that will be used by the system when creating an account or a counterpart, for instance Commission group, Account Instruments, Client Groups.

Templates are mandatory to use in the CreateAccount and CreateCounterpart requests.

There are 2 types of templates:

- The CounterpartTemplates: Set of default values for the Counterpart
- The AccountTemplate: Set of values for the Account

Rules:

- Both Counterpart and Account Template have to be included on the CreateCounterpart request.
- When using the CreateCounterpart request at least one AccountTemplate must be associated to the CounterpartTemplate.
  - The associated Account Template can be known by calling the **GetDataItemTypes** with **AccountTemplates** as the input for the parameter "Types", and in the response you can pick the AccountTemplate that has your intended CounterpartTemplate as its parent.
- The AccountCreate request only needs an AccountTemplate.
- Specifying a value for a field in the CreateCounterpart and CreateAccount requests, will override the value specified in the template. So for instance if in the AccountTemplate the commission group is set to "Retail Cleints Comm" and your request is setting the commission group field to "Institutional Clients Comm" the latter will override the value of the template.
- Only Saxo can create or change Templates.

## 8.6 THE SIMPLE CREATECOUNTERPART REQUEST – ALL VALUES FROM TEMPLATES

The below SOAP message demonstrates a simple way of calling a CreateCounterpart request, where the variables are taken from the Templates and hence no variable input is done, except the mandatory fields.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://www.saxobank.com/service/cms/2013/08"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header>
    <ns:SessionId>r4JJJeGgbcetZ/KwGO05Y</ns:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <ns:CreateCounterpartRequest>
      <!--Optional:-->
      <ns:Accounts>
        <!--Zero or more repetitions:-->
        <ns:AccountCreateInfo>
          <ns:Account>
            <ns:AccountNumber>63301/2345HZEUR</ns:AccountNumber>
            <!--Optional:-->
            <ns:Description>MyTest</ns:Description>
            <!--Optional:-->
            <ns:Currency>EUR</ns:Currency>
            <!--Optional:-->
            <ns:Active>true</ns:Active>
            <!--Optional:-->
            <ns:TradableInstrumentIds>
              <!--Zero or more repetitions:-->
              <arr:int>8192</arr:int>
            </ns:TradableInstrumentIds>
            <!--Optional:-->
          </ns:Account>
          <ns:TemplateId>56601</ns:TemplateId>
        </ns:AccountCreateInfo>
      </ns:Accounts>
      <!--Optional:-->
      <ns:Counterpart>
        <!--Optional:-->
        <ns:OwnerId>4030089</ns:OwnerId>
      </ns:Counterpart>
    </ns:CreateCounterpartRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<!--Optional:-->
<ns:Name>TstPPM</ns:Name>
<!--Optional:-->
<ns:BaseCurrency>EUR</ns:BaseCurrency>
<!--Optional:-->
<ns:IsProfessional>true</ns:IsProfessional>
<!--Optional:-->
<ns:Language>EN</ns:Language>
<!--Optional:-->
<ns:CountryOfResidence>PT</ns:CountryOfResidence>
<!--Optional:-->
<ns:TaxCountry>PT</ns:TaxCountry>
<ns:Active>true</ns:Active>
</ns:Counterpart>
<!--Optional:-->
<!--Optional:-->
<ns:TemplateId>56600</ns:TemplateId>
<!--Optional:-->
<ns:Users>
  <!--Zero or more repetitions:-->
  <ns:User>
    <ns:Password>2345EEr35</ns:Password>
    <ns:Active>true</ns:Active>
  </ns:User>
</ns:Users>
</ns:CreateCounterpartRequest>
</soapenv:Body>
</soapenv:Envelope>
```