



Avangate Feature Guide

Avangate API 2.0

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API 2.0 New Orders

Use API 2.0 to enable new acquisition for your shoppers using VISA and MasterCard credit/debit cards and PayPal. SOAP requests need to be sent to: <https://api.avangate.com/order/2.0/soap/>. Full service description is available at <https://api.avangate.com/order/2.0/soap/?wsdl>. The Avangate API is currently available only for eStore orders.

1 login

Use this method for the authentication process in the Avangate system.

login (MerchantCode, Date, Hash)

Input		
MerchantCode	String	Your merchant identifier (received from Avangate).
Date	String	UTC ISO Date format (e.g. 2010-01-01 12:13:14)
Hash	String	Calculated HMAC_MD5 signature based on MerchantCode and Date, using your secret key (see example below).
Output		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect. The sessionID expires in 10 minutes.

Instantiation of the SOAP Client and authentication:

```
$client = new SoapClient(
    "https://secure.avangate.com/api/merchant/?wsdl"
);
$merchantCode = "CC1234"; //dummy code
$key = "SECRET_KEY"; //dummy key
$now = date('Y-m-d H:i:s');
$string = strlen($merchantCode) . $merchantCode . strlen($now) . $now;
$hash = hmac($key, $string);
try {
    $sessionID = $client->login($merchantCode, $now, $Hash);
} catch (SoapFault $e) {
    echo "Authentication error " . $e->getMessage();
}
```



login	
Error	Description
AUTHENTICATION_FAILED	Authentication failed
FORBIDDEN	Forbidden area

The HMAC_MD5 source string is built by adding in front of each value its own length in bytes (for UTF-8 characters the length in bytes might be longer than the string length).

Example:

MerchantCode AVANGATE

Date 2010-05-13 12:12:12 (UTC Date)

The secret key in this example is SECRET_KEY.

For the above data, the following HMAC source string is:

8AVANGATE192010-05-13 12:12:12

For this source string, the MD5 HASH value is:

bf763db7d333e9c3038698cf59ada3e6

2 addProduct

Use this method to add a product ID, price options, and quantity details to the Avangate Shopping Cart.

addProduct(sessionId, ProductId, Quantity, PriceOptions)

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
ProductId	Int	Avangate Product ID - the product ID from Avangate's database
Quantity	Int	Number of units
PriceOptions	String	Concatenated product price options
Output		
Result	boolean	True or false.

Add a product to the Avangate Cart:

```
//Add product to cart
try {
  $addprod = $client->addProduct($sessionId, $ProductId, $Quantity, $ PriceOptions);
} catch (SoapFault $e) {
  echo "addProduct: " . $e->getMessage() ;
}
```



```
}
var_dump ($addprod);
```

addProduct	
Error	Description
FORBIDDEN	Invalid sessionID provided
PRODUCT_ERROR	Trying to add to the session an invalid product ID.

3 deleteProduct

Use this method to modify the quantity (number of units) of products added to cart or to delete items from the shopping cart.

deleteProduct(sessionID, ProductId, Quantity)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
ProductId	Int	Avangate Product ID - the product ID from Avangate's database
Quantity	Int (can be null)	Number of units that gets deducted from the quantity of products added to cart, if it exists. If the value is missing or is larger than the already existent quantity, the product will be removed from cart.
Output		
Result	boolean	True or false

Remove a product completely from the Avangate cart:

```
$productID = the ID of the product;
try {
$client->deleteProduct($sessionID, $productID);
} catch (SoapFault $e) {
echo "Error: " . $e->getMessage();
}
```

Decrease the quantity of a product in the Avangate cart:

```
$productID = the ID of the product;
$quantity = 1;
```



```
try {
$client->deleteProduct($sessionID, $productID, $quantity);
} catch (SoapFault $e) {
echo "Error: " . $e->getMessage();
}
```

deleteProduct	
Error	Description
FORBIDDEN	Invalid sessionID provided
PRODUCT_ERROR	Trying to remove from session an inexistent product ID.

4 clearProducts

Use this method to remove all items from the shopping cart.

clearProducts(sessionID)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
Output		
Result	boolean	True or false

Clear products from cart

```
try {
$clearC=$client->clearProducts($sessionID);
} catch (SoapFault $e) {
echo "Error Clear Products: " . $e->getMessage();
}
var_dump ("Clear cart" , $clearC);
```

clearProducts	
Error	Description
FORBIDDEN	Invalid sessionID provided



5 setBillingDetails

Use this method to set the billing details of shoppers before placing an order.

setBillingDetails(sessionId, BillingDetails)

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
BillingDetails	Object	Billing details object with the structure described below.
Output		
Result	Boolean	True or false

BillingDetails Object Structure		
Address	String	Shopper address
City	String	Shopper city
Country	String	Shopper country
Email	String	Shopper email address
FirstName	String	Shopper name
LastName	String	Shopper surname
PostalCode	String	Postal code
State	String	The state in the shopper's country
Company	String	Company name. Can be null for end users. When present, FiscalCode must also be provided.
FiscalCode	String	Can be null for end users. For companies, it needs to be the VAT ID, which is validated by Avangate. An error will be thrown if the VAT ID is invalid/incorrect. When present, Company name must also be provided.

Setting Shopper Billing details:

```
$oBilling = new stdClass();
$oBilling->Address = 'Address details';
$oBilling->City = 'London';
$oBilling->State = 'London';
$oBilling->Country = 'GB';
$oBilling->Email = 'john.doe@example.com';
```



```
$oBilling->FirstName = 'John';
$oBilling->LastName = 'Doe';
$oBilling->PostalCode = 'WC1A1AH'; //dummy data
// necessary for billing to companies
$oBilling->FiscalCode = '666712';
try {
$status = $client->setBillingDetails($sessionID, $oBilling);
} catch (SoapFault $e) {
echo "Invalid Billing information: " . $e->getMessage();
}
```

setBillingDetails	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_COUNTRY	The country code provided is invalid.
INVALID_BILLING_EMAIL	The billing email cannot be empty.
INVALID_BILLING_EMAIL	The billing email [address] is not valid.

6 setDeliveryDetails

Use this method to set the delivery details for an order. This method is not mandatory, and if it's not used, the system will use the billing address as the delivery address.

setDeliveryDetails(sessionID, DeliveryDetails)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
DeliveryDetails	Object	Delivery details object with the structure described below.
Output		
Result	boolean	True or false

DeliveryDetails Object Structure		
Address	String	Shopper address
City	String	Shopper city



Country	String	Shopper country
Email	String	Shopper email address
FirstName	String	Shopper name
LastName	String	Shopper surname
Company	String	Company name. Can be null for end users.
PostalCode	String	Postal code
State	String	The state in the shopper's country

Set delivery details

```
$oDelivery = new stdClass();
$oDelivery->Address = 'Test Address';
$oDelivery->City = 'Test city';
$oDelivery->State = 'Test state';
$oDelivery->Country = 'GB';
$oDelivery->Email = 'avangate.customer@example.com';
$oDelivery->FirstName = 'Avangate';
$oDelivery->LastName = 'Customer';
$oDelivery->PostalCode = '12345';
$oDelivery->Company = 'Test company';
try {
    $delivery = $client->setDeliveryDetails($sessionID, $oDelivery);
} catch (SoapFault $e) {
    echo "Delivery details: " . $e->getMessage();
}
var_dump ("Delivery details" , $delivery) ;
```

setDeliveryDetails	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_COUNTRY	Delivery country code is not in the vendor's countries list.
INVALID_DELIVERY_DETAILS	Please set the delivery details The first name is not valid The last name is not valid The address is not valid The city is not valid The state is not valid



	The postal code is not valid
--	------------------------------

7 setCurrency

This method is used to set the currency used to retrieve information about prices by certain methods that don't receive a currency on their own.

setCurrency(sessionID, Currency)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
Currency	String	Avangate will verify that the currency set is also available among those enabled per vendor account, to validate it. The currency ISO code to be used for the payment - ISO 4217.
Output		
Result	boolean	True or false

Setting Shopper related information:

```
try {
    $status = $client->setLanguage($sessionID, 'en'); // language (ISO 639-1 two-letter code is case
    sensitive. For example, use 'en' and not 'EN'
    $status = $client->setCountry($sessionID, 'GB');
    $status = $client->setCurrency($sessionID, 'EUR');
    $status = $client->setClientIP($sessionID, $_SERVER['REMOTE_ADDR']);
} catch (SoapFault $e) {
    echo "Error: " . $e->getMessage();
}
```

setCurrency	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_CURRENCY	The currency is not supported by the vendor.
INVALID_LANGUAGE	Language is not supported by current vendor settings



8 setClientIP

Use this method to set the IP address of the shopper. setClientIP is used to get the customer's location using a Geo IP service and then set the Country accordingly. This happens only if the country was not explicitly set using the setCountry method.

setClientIP(sessionID, IP)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
IP	String	Shopper IP in dot notation that gets validated by Avangate.
Output		
Result	boolean	True or false

Setting Shopper related information:

```
try {
$status = $client->setLanguage($sessionID, 'en'); // language (ISO 639-1 two-letter code is case
sensitive. For example, use 'en' and not 'EN'
$status = $client->setCountry($sessionID, 'GB');
$status = $client->setCurrency($sessionID, 'EUR');
$status = $client->setClientIP($sessionID, $_SERVER['REMOTE_ADDR']);
} catch (SoapFault $e) {
echo "Error: " . $e->getMessage();
}
```

SetClientIP	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SHOPPER_IP	The Shopper IP is not valid.



9 setCountry

This method is used to set the shopper's Country. It also sets the Language and Currency if they weren't explicitly set using setLanguage, setCurrency or setClientIP.

setCountry(sessionId, IsoCountryCode)

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
IsoCountryCode	String	Client's country code(ISO 3166 two-letter code). Avangate will verify that the country set is also available among those enabled per vendor account, to validate it.
Output		
Result	boolean	True or false

Setting Shopper related information:

```
try {
$status = $client->setLanguage($sessionId, 'en'); // language (ISO 639-1 two-letter code is case sensitive. For example, use 'en' and not 'EN'
$status = $client->setCountry($sessionId, 'GB');
$status = $client->setCurrency($sessionId, 'EUR');
$status = $client->setClientIP($sessionId, $_SERVER['REMOTE_ADDR']);
} catch (SoapFault $e) {
echo "Error: " . $e->getMessage();
}
```

setCountry	
Error	Description
FORBIDDEN	Invalid sessionId provided
INVALID_COUNTRY	Country code not in the vendor's countries list.



10 setLanguage

Set the Language used to retrieve information about products by certain methods. (e.g. getProductById, searchProducts). In addition, the language setting is saved into the order information to be used for all future communications between Avangate and the shopper.

setLanguage(sessionId, IsoLang)

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
IsoLang	String	Client's language (ISO 639-1 two-letter code)
Output		
Result	boolean	True or false

Setting Shopper related information:

```
try {
    $status = $client->setLanguage($sessionId, 'en'); // language (ISO 639-1 two-letter code is case
    sensitive. For example, use 'en' and not 'EN'
    $status = $client->setCountry($sessionId, 'GB');
    $status = $client->setCurrency($sessionId, 'EUR');
    $status = $client->setClientIP($sessionId, $_SERVER['REMOTE_ADDR']);
} catch (SoapFault $e) {
    echo "Error: " . $e->getMessage();
}
```

setLanguage	
Error	Description
FORBIDDEN	Invalid sessionId provided
INVALID_LANGUAGE	Language code cannot be empty
INVALID_CURRENCY	The currency code cannot be empty



11 setSource

Use this method to add sales source information to new acquisitions placed through the Avangate API. setSource enables you to replicate the functionality of the SRC (separate link identifier) parameter when included into Buy Links. setSource must be used ahead of the placeOrder method.

setSource (sessionID, Source)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
Source	String	Cannot be null. Maximum length 255 characters.
Output		
Result	boolean	True or false.

setSource

```
try {
$client->setSource($sessionID, 'www.YourWebsite.com');
} catch (SoapFault $e) {
echo "Error: " . $e->getMessage();
}
```

setSource	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SOURCE	The provided source is empty



12 setExternRef

Use this method to set external reference identifiers for orders. setExternRef enables you to replicate the functionality of the REF parameter when included into Buy Links. setExternRef must be used ahead of the placeOrder method.

setExternRef (sessionID, ExternRef)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
ExternRef	String	Reference order code. Maximum 100 characters. If there is a need for longer references, a md5 hash can be applied for any string value, resulting a 32 characters string. This hash that can be verified after the order notification, on the client side.
Output		
Result	boolean	True or false.

setExternRef

```
try {
$client->setExternalRef($sessionID, '12345ReferenceValue');
} catch (SoapFault $e) {
echo "Error: " . $e->getMessage();
}
```

setExternRef	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SOURCE	The provided external reference is empty



13 isValidOrderReference

This method checks to see whether the reference of an order previously placed in the Avangate system can be used to place a new order.

isValidOrderReference (sessionId, RefNo)

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
RefNo	String	Order reference number of older order, which is already approved/paid. The status of said order returned by getOrderStatus method should be COMPLETE.
Output		
Result	boolean	True or false. If true, then the order reference can be used to place new orders.

Check to see whether a reference of a finished order can be used to place a new order

```
try {
$isValidOrderReference = $client->isValidOrderReference ($sessionId, $RefNo);
} catch (SoapFault $e) {
echo "isValidOrderReference: " . $e->getMessage() ;
}
var_dump ($isValidOrderReference );
```

isValidOrderReference	
Error	Description
FORBIDDEN	Invalid sessionId provided
INVALID_ORDER_REF	The reference number does not match any existing order
ORDER_REF_MISMATCH	The reference number does not belong to an order valid for use
ORDER_STATUS_ERROR	The reference number identifies an order which hasn't reached the COMPLETE status
PAYMENT_ERROR	The payment method used for the order referenced is not supported when placing new orders
REFERENCE_INVALID_01	The provided reference cannot be used
REFERENCE_INVALID_02	The provided reference cannot be used



14 setPaymentDetails

Use this method to set the payment details of shoppers.

setPaymentDetails(sessionID, PaymentDetails)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
PaymentDetails	Object	Payment details object with the structure described below.
Output		
Result	boolean	True or false

PaymentDetails Object Structure		
Type	String	The payment method: <ul style="list-style-type: none"> • CC (credit/debit card), • CCNOPCI (credit/debit card for non-PCI certified merchants), • TEST (for test orders), • PREVIOUS_ORDER (used to place new orders using the reference of a previous order)
Currency	String	The currency ISO code to be used for the payment - ISO 4217.
PaymentMethod	Object	Payment details object such as the CardPayment object with the structure detailed below.
CustomerIP	String	Shopper IP (mandatory)

CardPayment Object Structure		
CardNumber	String	The credit/debit card number
CardType	String	VISA, VISAELECTRON, MASTERCARD, MAESTRO, AMEX, DISCOVER
ExpirationYear	String	The year in which the card expires
ExpirationMonth	String	The month in which the card expires
HolderName	String	Card holder name
CCID	String	Credit Card Identification - an extra ID printed on the card, usually a 3-4 digit number, the CVC2/CW2.
RecurringEnabled	Boolean	True or false, depending on whether subscription (renewals) recurring billing is enabled or disabled for the product.



The API features support only for payments made with PayPal and with VISA and MasterCard credit/debit cards only for PCI compliant entities.

Setting Payment details for PCI Compliant Vendors:

```
$oMethod = new stdClass();
$oMethod->CardNumber = '4111111111111111';
$oMethod->CardType = 'VISA';
$oMethod->CCID = '123';
$oMethod->ExpirationMonth = '04';
$oMethod->ExpirationYear = '2014'; //dummy credit card data
$oMethod->HolderName = 'John Doe'; //cardholder name
$oPayment = new stdClass();
$oPayment->Type = 'CC';
$oPayment->Currency = 'EUR';
$oPayment->CustomerIP = $_SERVER['REMOTE_ADDR'];
$oPayment->PaymentMethod = $oMethod;
try {
$status = $client->setPaymentDetails($sessionId, $oPayment);
} catch (SoapFault $e) {
echo "Invalid Payment information: " . $e->getMessage();
}
```

Setting Payment details for test orders:

```
$oMethod = new stdClass();
$oMethod->CardNumber = '4111111111111111';
$oMethod->CardType = 'VISA';
$oMethod->CCID = '123';
$oMethod->ExpirationMonth = '04';
$oMethod->ExpirationYear = '2013';
$oMethod->HolderName = 'John Doe';
// $oMethod->RecurringEnabled = true; // this is disregarded
$oPayment = new stdClass();
$oPayment->Type = 'TEST';
$oPayment->Currency = 'EUR';
$oPayment->CustomerIP = $_SERVER['REMOTE_ADDR'];
$oPayment->PaymentMethod = $oMethod;
try {
$status = $client->setPaymentDetails($sessionId, $oPayment);
} catch (SoapFault $e) {
echo "Invalid Payment information: " . $e->getMessage();
}
```

Setting Credit Card payment details for non PCI certified vendors

As reseller of your products, Avangate must validate your compliance with the PCI requirements, making sure you meet Payment Card Industry (PCI) standards when using the New Purchase Avangate API. You



alone control the level of complexity of your PCI compliance. Depending on how sensitive shopper financial data is handled, you will have to become compliant with just a few or all 12 (twelve) compliance areas of the PCI-DSS, Payment Card Industry Data Security Standard. Three SAQ validations in particular impact ecommerce businesses: SAQ A, SAQ C and SAQ D, although you should take the time to analyze all of them and see which one fits your business best. The compliance process is less complex if it doesn't involve processing or storing cardholder data, and it's simpler still if your company doesn't even transmit sensitive payment details.

PCI compliance implies that your company meets at least a minimum of online security requirements. To achieve the most basic level of compliance, you will need to complete a Security Self-Assessment Questionnaire (SAQ), as well as the associated Attestations of Compliance and send it to Avangate for validation. The Attestation is essentially a certification associated with the SAQ you completed for your business, attesting PCI DSS compliance. For more advanced levels of compliance, you need to enroll with a [Visa and MasterCard-certified security vendor](#) for PCI certification services, consisting of Quarterly Security Scanning of your office and store Internet connections as well as of your website.

Details on some of the most frequent PCI compliance levels for ecommerce businesses and the associated steps you need to follow to obtain the compliance and be able to start using the New Purchase Avangate API are available here: [New Purchase Avangate API PCI DSS Requirements](#).

The following fields need to exist in the request in order for it to validate:	
sessionID	The session ID returned by the OrderAPI::login() method
method	CCNOPCI (This is the payment method to be used. Accepted values CCNOPCI, PAYPAL, TEST - default and relevant to the current help section is CCNOPCI).
recurringenabled	Set the recurring flag on the current order
currency	The currency ISO code to be used for the payment - ISO 4217
country	The country ISO code to be used for the payment - ISO 3166-1
card_type	The type of credit card. Supported MasterCard and VISA
card_number	The number of the credit/debit card
ccid	Credit Card Identification - an extra ID printed on the card, usually a 3-4 digit number.
date_year	The year in which the card expires
date_month	The month in which the card expires
holder_name	Card holder name
finish	If the script should perform also the OrderAPI::placeOrder() action
redir	The URL encoded string for the Vendor URL return page.



On completion the script will perform a GET request at the **redir** parameter with the following additional parameters to inform the vendor of the status of the request:

- **status** - The status of the performed operations. One of the following: all of the available Order statuses: COMPLETE, AUTHRECEIVED, PENDING, CANCELED, REVERSED, REFUND, TEST; as well as: **NOK** - generic error, **OK** - generic success.
- **refNo** - In the case of success the Avangate Reference Number.
- **message** - In the case of an error this variable will have an URL encoded error string.

```
<form method="post"
action="https://api.avangate.com/order/2.0/setpaymentdetails.php?finish=true&redir={*Current
URL*}">
<input type="hidden" value="{* Session ID *}" name="hash" />
<input type="hidden" name="method" value="CCNOPCI" /> <!-- TEST can also be used -->
<input type="text" value="" name="currency" />
<input type="text" value="" name="country" />
<input type="radio" name="card_type" value="VISA" checked="checked"/>
<input type="radio" name="card_type" value="VISAELECTRON" checked="checked"/>
<input type="radio" name="card_type" value="MC"/>
<input type="radio" name="card_type" value="MAESTRO"/>
<input type="radio" name="card_type" value="AMEX"/>
<input type="radio" name="card_type" value="DISCOVER"/>
<input type="text" name="card_number" value="" />
<input type="text" name="ccid" value="" />
<input type="text" name="date_year" />
<input type="text" name="date_month" />
<input type="text" name="holder_name"/>
<input type="radio" name="recurringenabled" value="true"/>
</form>
```

Setting PayPal payment details

To allow a shopper to place a PayPal payment with Avangate you need to use a similar but simpler method as for the non-PCI certified Credit Card payment. The example uses a HTML form to generate a POST request to an Avangate secure URL.

The following fields need to exist in the request in order for it to validate:

sessionID	The session ID returned by the CSOAP_OrderAPI::login() method
method	PAYPAL, TEST
recurringenabled	Set the recurring flag on the current Order
currency	The currency ISO code to be used for the payment - ISO 4217
email	The email address used for the Shopper's PayPal account
redir	The URL encoded string for the merchant URL return page.



Once the PayPal request has been completed, the Shopper will be returned to the `redir` URL parameter with the same additional parameters:

- **status** - The status of the performed operations. One of the following: all of the available Order statuses: `COMPLETE`, `AUTHRECEIVED`, `PENDING`, `CANCELED`, `REVERSED`, `REFUND`, `TEST`; as well as: **NOK** - generic error, **OK** - generic success.
- **refNo** - In the case of success the Avangate Reference Number.
- **message** - In the case of an error this variable will have an URL encoded error string.

```
<form method="post"
action="https://api.avangate.com/order/2.0/setpaymentdetails.php?redir={*Current URL*}">
input type="hidden" value="{* Session ID *}" name="hash" />
<input type="hidden" name="method" value="PAYPAL" /> <!-- TEST can also be used -->
<input type="email" name="email" value="" /> <!-- This can be hidden and pre-filled with the Billing
email address -->
<input type="radio" name="recurringenabled" value="true" />
<input type="hidden" name="currency" value="" />
</form>
```

setPaymentDetails	
Error	Description
FORBIDDEN	Invalid sessionId provided This feature is not available for your account
PAYMENT_ERROR	The payment method [%s] is not supported The payment method [%s] is not supported by your account. The order referenced has an unsupported payment method
INVALID_ORDER_REF	The reference number does not match any existing order
INVALID_PAYMENT	The payment details are incorrect
INVALID_CURRENCY	The currency is not supported by the vendor
INVALID_LANGUAGE	Language is not supported by current vendor settings
INVALID_BILLING_DETAILS	No billing details have been provided The first name is not valid The last name is not valid The address is not valid The city is not valid The state is not valid The postal code is not valid
INVALID_BILLING_EMAIL	The billing email can not be empty



	The billing email [%s] is not valid
INVALID_VENDOR_FISCALCODE	The Fiscal Code is not valid
INVALID_COMPANY_NAME	The company name can not be empty
INVALID_COUNTRY	The country code [XX] is not valid (For the billing details)
Payment Type : CC	
CURRENCY_ERROR	The provided currency is not supported with this card type.
CCID_ERROR	Invalid CVV2/CVC2 code.
CARD HOLDER_ERROR	Invalid name
CARD_ERROR	Syntactic validation errors on the Card data.
CARD_NUMBER_ERROR	Mismatch between the card number and card type.
CARD_DATE_ERROR	The expiration month is invalid The expiration year is invalid The card has expired
Payment Type : PREVIOUS_ORDER	
INVALID_ORDER_REF	The reference number does not match any existing order
ORDER_REF_MISMATCH	The reference number does not belong to a valid order
ORDER_STATUS_ERROR	The reference number identifies an order which is not yet completed
PAYMENT_ERROR	The order referenced has an unsupported payment method
ORDER_STATUS_ERROR	The reference number identifies an order which is not yet completed
REFERENCE_PAYMENT_ERROR	The billing email cannot be empty The billing email is different from the one of the reference order
REFERENCE_INVALID_01	The provided reference cannot be used.
REFERENCE_INVALID_02	The provided reference cannot be used.

Place new order using a previous order reference

You can use the Avangate API and a valid reference of previous orders to place new orders for:

- products with lifetime/non-recurring subscriptions;
- subscriptions with recurring billing and auto-renewal enabled.

Requirements:



Contact [Avangate directly](#) to have API functionality enabled if you'd like to use the API to place new orders using a valid reference of a previous order.

Only references of previous orders with the COMPLETE status can be used to place new orders. **Note:** Use the isValidOrderReference method to check whether COMPLETE orders are valid ahead of attempting to place new orders with their reference.

Supported payment methods:

The following credit and debit cards are supported: VISA, VISA Electron, MasterCard and American Express (AMEX).

Setting Payment details using a previous order reference as payment

The **setPaymentDetails** method enables you to place new order using valid previous order references. To check that references of previously placed orders are valid, use the **isValidOrderReference** method.

When setting billing details, you need to provide only the email address of the shopper, and ignore the rest of the information required for credit / debit card transactions for example.

Note: The email address you provide needs to be identical with the email address used as a part of the billing details of the initial order whose reference you're now using to place a new order. The Avangate system will check to see whether the email addresses are identical, and it will throw an error if they're not, blocking the order placement process.

```
$oMethod = new stdClass();
$oMethod->RefNo = '6545555'; // the Avangate Order Reference number
$oMethod->RecurringEnabled = true;
$oPayment = new stdClass();
$oPayment->Type = 'PREVIOUS_ORDER';
$oPayment->Currency = 'EUR';
$oPayment->CustomerIP = $_SERVER['REMOTE_ADDR'];
$oPayment->PaymentMethod = $oMethod;
try {
    $status = $client->setPaymentDetails($sessionId, $oPayment);
} catch (SoapFault $e) {
    echo "Invalid Payment information: " . $e->getMessage();
}
```

Once all information is provided you can place the order using the **placeOrder** method.



15 setCustomer

Use this method to set unique external customer IDs for shoppers placing orders. The setCustomer method is optional. setCustomer needs to be used ahead of placing the order via placeOrder. This method is the equivalent of using the [CUSTOMERID parameter in Buy Links](#) offered to your customers. When placing new orders, you'll be able to use either:

- a new identifier and have the Avangate system generate a fresh Customer account featuring the ID;
- an existing identifier already in use as the ExternalCustomerReference, and have all subscriptions generated for the new purchase be aggregated under the existing customer account.

setCustomer (sessionID, ExternalCustomerReference)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
ExternalCustomerReference	String	The custom customer ID which will be set for the subscriptions generated for the product or products purchased via an order.
Output		
Result	Boolean	True or false

Set an external customer ID when placing a new order

```
$customerID = '12345ABC'; // dummy data
try {
$ExtcustomerID = $client-> setCustomer ($sessionID, $customerID);
} catch (SoapFault $e) {
echo "ExternalCustomerID: " . $e->getMessage();
}
var_dump ("ExternalCustomerID" , $ExtcustomerID) ;
```

setCustomer	
Error	Description
FORBIDDEN	Invalid sessionID provided



16 setCoupon

This method enables you apply a promotion configured using the Control Panel to an order.

setCoupon (sessionID, Coupon)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
Coupon	String	The value of the Coupon code.
Output		
Result	boolean	True or false.

setCoupon

```
try {
$disc = $client-> setCoupon ($sessionID, $ Coupon);
} catch (SoapFault $e) {
echo "Disc: " . $e->getMessage();
}
var_dump ("Disc" , $disc );
```

setCoupon	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_COUPON_CODE	The coupon code is empty The provided coupon [%s] is invalid.



17 setStaticPrice

Use this method to set **On the fly pricing**, a custom price for products sold that you control, different than the items' pricing strategy. The currency used for **On the fly pricing** be set with any of the following methods: setPaymentDetails or setCurrency. When both are used, the currency set via setPayment Details takes precedence. If a currency hasn't been set using either of the two methods, the default settlement currency for your account will be used.

setStaticPrice(sessionId, ProductId, StaticPrice)

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
ProductId	Int	The product ID from Avangate's database
StaticPrice	Double	On the fly price
Output		
Result	boolean	True or false

Set on the fly pricing/static price

```
try {
    $sPrice = $client->setStaticPrice($sessionId, $ProductId, $StaticPrice);
} catch (SoapFault $e) {
    echo "Set Static price: " . $e->getMessage() . "</span>";
    exit;
}
var_dump ("static price" , $sPrice);
```

setStaticPrice	
Error	Description
FORBIDDEN	Invalid sessionId provided
PRICE_ERROR	Invalid price value. The price needs to be a decimal value.
PRODUCT_ERROR	The product ID doesn't exist in the session. You need to add the product to the order before setting the price. Invalid product ID.
CURRENCY_ERROR	No currency was set for the current session.



18 getContents

Use this method to get info on all the products added to cart by the shopper.

getContents(sessionId)

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
Output		
Contents	Array of Objects	Object detailing products added to cart - structure described below.

Contents Object Structure		
ContentsItem	Array of ContentsItem Objects	Object with the structure detailed below.
Promotion	Object	Order promotion object with the structure detailed below. Order promotion is applied to the shopping cart in use.

ContentsItem Object Structure		
ProductId	Int	Avangate Product ID - the product ID from Avangate's database
Product	SimpleProduct Object	Returns all active products available. SimpleProduct object structure described below.
Quantity	Int	Number of units
PriceOptions	Array of objects	Array of Price Options Group objects
Price	DiscountPrice Object	DiscountPrice pricing details object - structure detailed below.
Promotion	Object	Product promotion object with the structure detailed below.

SimpleProduct Object Structure		
Currency	String	The currency to be used for prices, set with setCurrency. The currency ISO code to be used for the payment - ISO 4217.



DefaultCurrency	String	The product's default currency which is set in the Control Panel. The currency ISO code to be used for the payment - ISO 4217.
GiftOption	boolean	True or false depending on whether the product can be gifted or not.
GroupName	String	The name of the Product Group
IdGroup	Int	Product Group ID number
Languages	anyType	Array of ISO language codes for the product - ISO 639-1
Price	Double	Product price. Can be null for flat pricing schemes. You need to call getPrice with Quantity, Currency and Price Options parameters to get a valid price.
PriceType	String	NET or GROSS
PriceSchema	String	FLAT (without Base Price) or DYNAMIC (with Base Price)
ProductCode	String	Product code
ProductId	Int	The product ID from Avangate's database
ProductImage	String	URLs to the product images uploaded into the Avangate platform.
ProductName	String	Product name
ProductEnabled	boolean	True/false, but it will be always Active, since only active products can be displayed to shoppers.
ProductType	String	REGULAR or BUNDLE
ProductVersion	String	The product version number
ShortDescription	String	The product's short description

Promotion Object Structure

Name	String	Promotion name
Description	String	Promotion description
StartDate	String	Starting date. The date when you set the promotion to start. Is NULL for promotions that start immediately after they're created.



EndDate	String	Ending date. The date when you set the promotion to end. Is NULL for promotions that you want active indefinitely.
MaximumOrdersNumber	Int	When the maximum number of orders is reached the promotion stops. Can be NULL if you want the promotion to apply to an unlimited number of orders.
MaximumQuantity	Int	Discount only applies to a specific number of product, smaller than the maximum quantity you defined. Can be NULL if you want the promotion to apply to an unlimited number units. Any extra quantity added to the cart will be sold at full price.
InstantDiscount	boolean	Selecting the instant discount option will auto-apply the discount for ALL the selected products for all shoppers, without the need to enter the discount coupon.
Coupon	String	Promotion coupon/voucher
DiscountLabel	String	Discounts can be set as a percentage from the product price or as a fixed amount in the chosen currency.

PriceOptionsGroupItem Object structure

Description	String	Pricing options groups description
Name	String	Pricing options groups name
Type	String	Pricing options groups description type: Pricing options group type: COMBO, CHECKBOX, RADIO, INTERVAL
Options	Array of objects	Price Options Group Item Options object with the structure detailed below.
Required	boolean	True or false, depending on whether shoppers should be required to select at least one of the pricing options available.

PriceOptionsGroupItemOptions Object structure

Name	String	The name of the option inside the Pricing options group
Value	String	The code of the option inside the Pricing options group
Default	Boolean	True or false
Description	String	The description of the option inside the Pricing options group



Price Object Structure		
Discount	Double	The value of the discount.
NetCurrency	String	Currency for the price without taxes. The currency ISO code to be used for the payment - ISO 4217.
FinalCurrency	String	Currency to be used for prices with taxes. The currency ISO code to be used for the payment - ISO 4217.
FinalPrice	Double	Price with taxes
NetPrice	Double	Price without taxes

Get information on cart contents

```
try {
    $getContents = $client->getContents($sessionId);
} catch (SoapFault $e) {
    echo "getContents: " . $e->getMessage() ;
}
var_dump ($getContents);
```

getContents	
Error	Description
FORBIDDEN	Invalid sessionId provided

19 getPromotion

getPromotion (sessionId, ProductId)

Returns promotion information impacting a product added to the shopping cart.

Use **getPromotion** ahead of placeOrder, but after setCoupon.

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
ProductId	Int	Avangate Product ID - the product ID from Avangate's database. The product needs match one of the products already added to cart.
Output		



Promotion	Object	Object structure described below.
-----------	--------	-----------------------------------

Access info on a promotion applying to a product added in the shopping cart

```
try {
  $Promotion = $client->getPromotion($sessionID, $ProductID);
} catch (SoapFault $e) {
  echo "Discount details: " . $e->getMessage();
}
var_dump ("Discount details" , $Promotion) ;
```

Promotion Object Structure		
Name	String	Promotion name
Description	String	Promotion description
StartDate	String	Starting date. The date when you set the promotion to start. Is NULL for promotions that start immediately after they're created.
EndDate	String	Ending date. The date when you set the promotion to end. Is NULL for promotions that you want active indefinitely.
MaximumOrdersNumber	Int	When the maximum number of orders is reached the promotion stops. Can be NULL if you want the promotion to apply to an unlimited number of orders.
MaximumQuantity	Int	Discount only applies to a specific number of product, smaller than the maximum quantity you defined. Can be NULL if you want the promotion to apply to an unlimited number units. Any extra quantity added to the cart will be sold at full price.
InstantDiscount	boolean	Selecting the instant discount option will auto-apply the discount for ALL the selected products for all shoppers, without the need to enter the discount coupon.
Coupon	String	Promotion coupon/voucher
DiscountLabel	String	Discounts can be set as a percentage from the product price or as a fixed amount in the chosen currency.



getPromotion	
Error	Description
FORBIDDEN	Invalid sessionID provided
PRODUCT_ERROR	Invalid product ID

20 placeOrder

Use this method to place an order.

placeOrder(sessionID)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
Output		
Order	Object	Order details object - structure described below.

Order Object Structure		
RefNo	String	Order reference number
Status	String	The status of the order: AUTHRECEIVED, PENDING, TEST (COMPLETE, CANCELED, REVERSED, REFUND statuses are only returned for the getOrder method).
RecurringEnabled	boolean	True or false, depending on whether subscriptions (renewals) are enabled or disabled for the product.
Error	String	Returned when there's a problem with the order.

placeOrder	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_LANGUAGE	Language code cannot be empty
INVALID_CURRENCY	The currency code cannot be empty
VALIDATE_PRODUCTS	The products are invalid.



ORDER_ERROR	Couldn't process the order.
BILLING_ERROR	No billing details have been provided.
PAYMENT_ERROR	No payment details have been provided. Requested payment method is not supported.
BANNED_SHOPPER_IP	Shopper's IP address is banned.
CARD_PAYMENT_ERROR	Couldn't complete the payment validation.

Placing a test order

```
// add a product to cart
try {
    $addprod = $client->addProduct($sessionID, $productID, $Quantity, $ProductOptions);
} catch (SoapFault $e) {
    echo "addProduct: " . $e->getMessage() ;
}
var_dump($addprod);
try {
    $status = $client->setLanguage($sessionID, 'en'); // language country code is case sensitive, use 'en'
    and not 'EN'
    $status = $client->setCountry($sessionID, 'GB');
    $status = $client->setCurrency($sessionID, 'EUR');
    $status = $client->setClientIP($sessionID, '10.10.10.10'); // dummy IP data used
} catch (SoapFault $e) {
    echo "Error: " . $e->getMessage();
}
$oBilling = new stdClass();
$oBilling->Address = 'Address details';
$oBilling->City = 'London';
$oBilling->State = 'London';
$oBilling->Country = 'GB';
$oBilling->Email = 'john.doe@example.com';
$oBilling->FirstName = 'John';
$oBilling->LastName = 'Doe';
$oBilling->PostalCode = 'WC1A1AH'; //dummy data
try {
    $status = $client->setBillingDetails($sessionID, $oBilling);
} catch (SoapFault $e) {
    echo "Invalid Billing information: " . $e->getMessage();
}
$oMethod = new stdClass();
$oMethod->CardNumber = '4111111111111111';
$oMethod->CardType = 'VISA';
```



```
$oMethod->CCID = '123';
$oMethod->ExpirationMonth = '04';
$oMethod->ExpirationYear = '2014';
$oMethod->HolderName = 'John Doe';
// $oMethod->RecurringEnabled = true; // this is disregarded
$oPayment = new stdClass();
$oPayment->Type = 'TEST';
$oPayment->Currency = 'eur';
$oPayment->CustomerIP = '10.10.10.10';
$oPayment->PaymentMethod = $oMethod;
try {
$status = $client->setPaymentDetails($sessionID, $oPayment);
} catch (SoapFault $e) {
echo "Invalid Payment information: " . $e->getMessage();
}
try {
$place = $client->placeOrder($sessionID);
} catch (SoapFault $e) {
echo "Place order: " . $e->getMessage();
}
exit;
}
var_dump ("Place order", $place);
```

21 getOrder

Get the details of an order including reference number, status, recurring billing and settings

getOrder(sessionID, RefNo)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
RefNo	String	Order reference number of older order, which is already approved/paid.
Output		
Order	Object	Order details object - structure described below.

Order Object Structure		
RefNo	String	Order reference number



Status	String	The status of the order: COMPLETE, AUTHRECEIVED, PENDING, CANCELED, REVERSED, REFUND, TEST
RecurringEnabled	boolean	True or false, depending on whether subscription (renewals) recurring billing is enabled or disabled for the product.
Error	String	Returned when there's a problem with the order payment.

Get information on an order

```
try {
    $getOrder = $client->getOrder($sessionID, $RefNo);
} catch (SoapFault $e) {
    echo "getOrder: " . $e->getMessage() ;
}
var_dump ($getOrder);
```

getOrder	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_REFERENCE	The order reference does not exist.

22 getProductByCode

Retrieve more information about a product using its Product Code and display it to shoppers. The Product Code can be set per-offering under the Information tab which can be accessed by editing items you configured using the Control Panel.

getProductByCode (sessionID, ProductCode)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
ProductCode	String	The product code that you can define for each of your offerings using the Control Panel.
Output		
ProductInfo	Object	Complete product information - object structure detailed below.



ProductInfo Object Structure		
Currency	String	The currency to be used for prices, set with setCurrency. The currency ISO code to be used for the payment - ISO 4217.
DefaultCurrency	String	The product's default currency which is set in the Control Panel. The currency ISO code to be used for the payment - ISO 4217.
Price	Double	Product price
PriceType	String	NET or GROSS
PriceSchema	String	FLAT (without Base Price) or DYNAMIC (with Base Price)
PriceIntervals	Array	Pricing intervals
GiftOption	boolean	True or false depending on whether the product can be gifted or not.
GroupName	String	The name of the Product Group
IdGroup	Int	Product Group ID number
Languages	anyType	Array of ISO language codes for the product - ISO 639-1
LongDescription	String	The product's long description
PriceOptions	array	Pricing options group object - structure detailed below.
ProductCode	String	Product code
ProductId	Int	The product ID from Avangate's database
ProductImage	String	URLs to the product images uploaded into the Avangate platform.
ProductName	String	Product name
ProductEnabled	boolean	True/false, but it will be always Active, since only active products can be displayed to shoppers.
ProductType	String	REGULAR or BUNDLE
ProductVersion	String	The product version number
ShortDescription	String	The product's short description
SystemRequirements	String	System requirements
TrialDescription	String	Descriptive text entered for trials.
TrialURL	String	The URL from where shoppers can download trial software.



Platforms	String Array	The platforms supported by the application.
-----------	--------------	---

PriceOptionsGroup Object Structure		
Description	String	The description of the Pricing options group
Name	String	Pricing options group name
Type	String	Pricing options group type: COMBO, CHECKBOX, RADIO, INTERVAL
Options	array	Pricing options object - structure detailed below.
Required	boolean	True or false, depending on whether shoppers should be required to select at least one of the pricing options available.

PriceOptions Object Structure		
Name	String	The name of the option inside the Pricing options group
Value	String	The code of the option inside the Pricing options group
Default	boolean	True or false
Description	String	The description of the option inside the Pricing options group

Load detailed information about a product:

```
$ProductCode = the Product Code of the product;
try {
$Pcode = $client->getProductByCode($sessionID, $ProductCode);
} catch (SoapFault $e) {
echo "Product code: " . $e->getMessage();
}
var_dump ("Product code" , $Pcode) ;
```

getProductByld	
Error	Description
FORBIDDEN	Invalid sessionID provided
PRODUCT_NOT_FOUND	There is no product with the provided ID.



23 getProductById

Retrieve more information about a product using its unique Avangate product ID and display it to shoppers.

getProductById(sessionId, ProductId)

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
ProductId	Int	The product ID from Avangate's database
Output		
ProductInfo	Object	Complete product information - object structure detailed below.

ProductInfo Object Structure		
AdditionalInfo	anyType/array	Additional details, such as the prices for quantity intervals in volume discounts scenarios
Currency	String	The currency to be used for prices, set with setCurrency. The currency ISO code to be used for the payment - ISO 4217.
DefaultCurrency	String	The product's default currency which is set in the Control Panel. The currency ISO code to be used for the payment - ISO 4217.
Price	Double	Product price
PriceType	String	NET or GROSS
PriceSchema	String	FLAT (without Base Price) or DYNAMIC (with Base Price)
PriceIntervals	Array	Pricing intervals
GiftOption	boolean	True or false depending on whether the product can be gifted or not.
GroupName	String	The name of the Product Group
IdGroup	Int	Product Group ID number
Languages	anyType	Array of ISO language codes for the product - ISO 639-1
LongDescription	String	The product's long description
PriceOptions	array	Pricing options group object - structure detailed below.
ProductCode	String	Product code



ProductId	Int	The product ID from Avangate's database
ProductImage	String	URLs to the product images uploaded into the Avangate platform.
ProductName	String	Product name
ProductEnabled	boolean	True/false, but it will be always Active, since only active products can be displayed to shoppers.
ProductType	String	REGULAR or BUNDLE
ProductVersion	String	The product version number
ShortDescription	String	The product's short description
SystemRequirements	String	System requirements
TrialDescription	String	Descriptive text entered for trials.
TrialURL	String	The URL from where shoppers can download trial software.
Platforms	anyType/Array	The platforms supported by the application.

PriceOptionsGroup Object Structure		
Description	String	The description of the Pricing options group
Name	String	Pricing options group name
Type	String	Pricing options group type: COMBO, CHECKBOX, RADIO, INTERVAL
Options	array	Pricing options object - structure detailed below.
Required	boolean	True or false, depending on whether shoppers should be required to select at least one of the pricing options available.

PriceOptions Object Structure		
Name	String	The name of the option inside the Pricing options group
Value	String	The code of the option inside the Pricing options group
Default	boolean	True or false
Description	String	The description of the option inside the Pricing options group



Load detailed information about a product:

```
$productID = the ID of the product;
try {
$ProdID = $client->getProductByCode($sessionID, $productID);
} catch (SoapFault $e) {
echo "Product ID: " . $e->getMessage();
}
var_dump ("Product ID" , $ProdID) ;
```

getProductById	
Error	Description
FORBIDDEN	Invalid sessionID provided
PRODUCT_NOT_FOUND	There is no product with the provided ID.

24 searchProducts

Search and retrieve products configured in the Avangate platform using a collection of query options.

searchProducts(sessionID, SearchOptions)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
SearchOptions	Array	Can be null. Search object structure is described below.
Output		
SimpleProduct	Array of objects	Returns all active products available. Object structure described below.

SearchOptions Object Structure		
Status	String	Possible values ENABLED, DISABLED - default ENABLED
Type	String	Possible values BUNDLE, REGULAR - default both
Category	String	The Product group
Gift	Boolean	Possible values YES, NO - default both



SimpleProduct Object Structure		
Currency	String	The currency to be used for prices, set with setCurrency. The currency ISO code to be used for the payment - ISO 4217.
DefaultCurrency	String	The product's default currency which is set in the Control Panel. The currency ISO code to be used for the payment - ISO 4217.
GiftOption	boolean	True or false depending on whether the product can be gifted or not.
GroupName	String	The name of the Product Group
IdGroup	Int	Product Group ID number
Languages	anyType	Array of ISO language codes for the product - ISO 639-1
Price	Double	Product price. Can be null for flat pricing schemes. You need to call getPrice with Quantity, Currency and Price Options parameters to get a valid price.
PriceType	String	NET or GROSS
PriceSchema	String	FLAT (without Base Price) or DYNAMIC (with Base Price)
ProductCode	String	Product code
ProductId	Int	The product ID from Avangate's database
ProductImage	String	URLs to the product images uploaded into the Avangate platform.
ProductName	String	Product name
ProductEnabled	boolean	True/false, but it will be always Active, since only active products can be displayed to shoppers.
ProductType	String	REGULAR or BUNDLE
ProductVersion	String	The product version number
ShortDescription	String	The product's short description

Loading the complete list of products:

```
$searchOptions = array (
'status' => 'ENABLED', // ENABLED or DISABLED
'page' => array (
'size' => 10, // 10 items in search
'number' => 3 // starting with the 3rd page
```



```

),
'type' => 'REGULAR', // REGULAR or BUNDLE
'category' => 'General',
'gift' => true
);
$searchOptions = array ();
try {
$search = $client->searchProducts($sessionID, $searchOptions);
} catch (SoapFault $e) {
echo "search: " . $e->getMessage();
}
var_dump ("Search" , $search) ;

```

searchProducts	
Error	Description
FORBIDDEN	Invalid sessionID provided
PRODUCT_NOT_FOUND	There are no products matching your search options.

25 getPrice

Use this method to retrieve the price of a product in accordance with a list of options. The price will be calculated for the pricing options and product quantity selected by the shopper.

getPrice(sessionID, ProductId, Quantity, PriceOptions, Currency, CouponCode)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
ProductId	Int	The product ID from Avangate's database
Quantity	Int	Number of units
PriceOptions	String	ProductDataTypePriceOptionsGroupItemArray
Currency	String	The currency to be used for prices, set with setCurrency. The currency ISO code to be used for the payment - ISO 4217.
CouponCode	String	The coupon code.
Output		



DiscountPrice	Object	Price details object - structure described below.
---------------	--------	---

Price Object Structure		
NetCurrency	String	Currency for the price without taxes. The currency ISO code to be used for the payment - ISO 4217.
FinalCurrency	String	Currency to be used for prices with taxes. The currency ISO code to be used for the payment - ISO 4217.
FinalPrice	Double	Price with taxes
NetPrice	Double	Price without taxes
Discount	Double	The discounted amount.

getPrice	
Error	Description
FORBIDDEN	Invalid sessionID provided
PRODUCT_ERROR	No products found The products are invalid Invalid parameters

26 getAvailableCountries

Get the list of countries enabled for your Avangate vendor account.

getAvailableCountries(sessionID)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
Output		
Countries list	Array	A list of ISO country codes (ISO 3166 two-letter code) of the available countries for the merchant.



27 getAvailableCurrencies

Get the list of currencies enabled for your Avangate vendor account.

getAvailableCurrencies(sessionID)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
Output		
Currencies list	Array	A list of ISO currency codes (ISO 4217) of the available currencies for the merchant.

28 getAvailableLanguages

Get the list of languages enabled for your Avangate vendor account.

getAvailableLanguages(sessionID)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
Output		
Languages list	Array	A list of ISO language codes (ISO 639-1) of the available languages for the merchant.



API 2.0 for Subscription Management, Renewals and Upgrades

Use API 2.0 for subscription management, renewals and upgrade. SOAP requests need to be sent to: <https://api.avangate.com/subscription/2.0/soap/>. Full service description is available at <https://api.avangate.com/subscription/2.0/soap/?wsdl>. The Avangate API is currently available only for eStore orders.

1 login

Use this method for the authentication process in the Avangate system.

login (MerchantCode, Date, Hash)

Input		
MerchantCode	String	Your merchant identifier (received from Avangate).
Date	String	UTC ISO Date format (e.g. 2010-01-01 12:13:14)
Hash	String	Calculated HMAC_MD5 signature based on MerchantCode and Date, using your secret key (see example below).
Output		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect. The sessionID expires in 10 minutes.

Instantiation of the SOAP Client and authentication:

```
$client = new SoapClient(
    "https://secure.avangate.com/api/merchant/?wsdl"
);
$merchantCode = "CC1234"; //dummy code
$key = "SECRET_KEY"; //dummy key
$now = date('Y-m-d H:i:s');
$string = strlen($merchantCode) . $merchantCode . strlen($now) . $now;
$hash = hmac($key, $string);
try {
    $sessionID = $client->login($merchantCode, $now, $Hash);
} catch (SoapFault $e) {
    echo "Authentication error " . $e->getMessage();
}
```



login	
Error	Description
AUTHENTICATION_FAILED	Authentication failed
FORBIDDEN	Forbidden area

The HMAC_MD5 source string is built by adding in front of each value its own length in bytes (for UTF-8 characters the length in bytes might be longer than the string length).

Example:

MerchantCode AVANGATE

Date 2010-05-13 12:12:12 (UTC Date)

The secret key in this example is SECRET_KEY.

For the above data, the following HMAC source string is:

8AVANGATE192010-05-13 12:12:12

For this source string, the MD5 HASH value is:

bf763db7d333e9c3038698cf59ada3e6

2 addSubscription

Save/import subscriptions in the Avangate system based on **Subscription Information** objects.

addSubscription (sessionID, Subscription, Payment)

Input		
sessionID	String	Session identifier, which is the output of the Login method. An exception will be thrown if the values are incorrect.
Subscription	Object	Subscription for Import object with the structure described below. An exception will be thrown if the values are incorrect.
Output		
SubscriptionReference	String	

SubscriptionForImport Object Structure		
	Type	Description
ExternalSubscriptionReference	String	Unique identifier for your subscription. Mandatory when importing subscription data.
StartDate	String	License start date(YYYY-MM-DD) – PurchaseDate is mandatory when importing license data. If you changed



		the time zone for the Avangate API by editing system settings under Account settings, then the StartDate you provide must be in accordance with your custom configuration.
ExpirationDate	String	License expiration date(YYYY-MM-DD) – ExpirationDate is mandatory when importing license data. If you changed the time zone for the Avangate API by editing system settings under Account settings, then the ExpirationDate you provide must be in accordance with your custom configuration.
Product	Object	Object with the structure detailed below.
EndUser	Object	Object with the structure detailed below.
DeliveryInfo	Object	Object with the structure detailed below.
PartnerCode	String	Possible values: · Empty = ecommerce order · Partner Code
ExternalCustomerReference	String	External customer reference

Product Object Structure		
	Type	Description
ProductCode	String	Unique Product Code
ProductId	Int	Avangate Product ID
ProductName	String	Product Name
ProductVersion	String	Product Version
ProductQuantity	Int	Ordered quantity
PriceOptionCodes	String	Product options codes separated by "/". Pricing options codes are case sensitive.

EndUser Object Structure		
	Type	Description
Address1	String	End user's first address line
Address2	String	End user's second address line



City	String	End user's city
Company	String	Company name
CountryCode	String	End user's country code(ISO 3166 two-letter code)
Email	String	End user's email
Fax	String	End user's fax number
FirstName	String	End user's first name
Language	String	End user's language (ISO 639-1 two-letter code)
LastName	String	End user's last name
Phone	String	End user's phone number
State	String	End user's state
Zip	String	Zip code

DeliveryInfo Object Structure

	Type	Description
Codes	Array of Activation Code objects	Object containing codes delivered to customers - structure detailed below.
Description	String	Delivery description

Activation Code Object Structure

	Type	Description
Code	String	Delivered code
Description	String	Code description
File	Object	See details below
ExtraInfo	Array of objects	See details below



File Object Structure		
	Type	Description
Filename	String	Name of the file
FileType	String	Content type of the file
Content	String	Content of the file (base64 encoded)
ContentLength	Int	File size

ExtraInfo Object Structure	
	Type
Label	String
Type	String
Value	String

3 createCustomer

Use this method to create a new customer account in the Avangate platform. The output of createCustomer is the internal Avangate customer reference generated by the system.

createCustomer(sessionID, Customer)

Input		
sessionID	String	Session identifier, which is the output of the Login method. An exception will be thrown if the values are incorrect. (mandatory)
Customer	Object	Customer object with the structure described below. (mandatory)
Output		
AvangateCustomerReference	Int	The internal Avangate customer reference for the newly created customer account.



Customer Object Structure		
	Type	Description
AvangateCustomerReference	Int	Default customer numerical (Int) IDs generated automatically by the Avangate system. (mandatory)
ExternalCustomerReference	String	Unique customer alphanumeric (string) identifiers that you control.
FirstName	String	Customer's first name (mandatory)
LastName	String	Customer's last name (mandatory)
CompanyName	String	Company name
FiscalCode	String	Can be null for end users. For companies, it needs to be the VAT ID, which is validated by Avangate. An error will be thrown if the VAT ID is invalid/incorrect. When present, Company name must also be provided.
Address1	String	Customer's first address line (mandatory)
Address2	String	Customer's second address line
City	String	Customer's city (mandatory)
State	String	Customer's state
Zip	String	Zip code (mandatory)
CountryCode	String	Customer's country code(ISO 3166 two-letter code) (mandatory)
Phone	String	Customer's phone number
Fax	String	Customer's fax number
Email	String	Customer's email (mandatory)
Status	String	Customer status. Value is ignored.

createCustomer

```
$CustomerDetails = new stdClass ();
$CustomerDetails-> FirstName = 'TestName';
$CustomerDetails-> LastName = 'TestName';
$CustomerDetails-> Address1 = 'TestAddress';
//$CustomerDetails-> Address2 = 'TestAddress';
```



```
$CustomerDetails-> City = 'TestCity';
$CustomerDetails-> Zip = '12345';
$CustomerDetails-> CountryCode = 'us';
$CustomerDetails-> Email = 'test@email.com';
try{
$CustomerAccount = $client->createCustomer($sessionID,$CustomerDetails);
} catch (SoapFault $e) {
echo "Customer : " . $e->getMessage();
}
var_dump ("Customer " , $CustomerAccount) ;
```

createCustomer	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_CUSTOMER	The Avangate customer reference is required
INVALID_FNAME	Invalid customer first name
INVALID_FNAME	Invalid customer last name
INVALID_FNAME	Invalid customer address
INVALID_FNAME	Invalid customer city
INVALID_FNAME	Invalid customer zip code
INVALID_FNAME	Invalid customer country code
INVALID_CUSTOMER_EMAIL	Invalid email provided
INVALID_CUSTOMER	The Avangate customer reference is invalid
INVALID_CUSTOMER_REFERENCE	The external customer reference is used by another customer



4 setSubscriptionCustomer

Use this method to move subscriptions from one customer account to another.

setSubscriptionCustomer(sessionID, SubscriptionReference, AvangateCustomerReference, ExternalCustomerReference)"

Input		
sessionID	String	Session identifier, which is the output of the Login method. An exception will be thrown if the values are incorrect. (mandatory)
SubscriptionReference	String	The Avangate Subscription Reference of the subscription you want moved under another customer account for which you need to provide the AvangateCustomerReference or the ExternalCustomerReference, or both. When both are provided, the customer IDs need to match.
AvangateCustomerReference	Int	Default customer numerical (Int) IDs generated automatically by the Avangate system. AvangateCustomerReference is mandatory, if ExternalCustomerReference is null.
ExternalCustomerReference	String	Unique customer alphanumeric (string) identifiers that you control. ExternalCustomerReference is mandatory, if AvangateCustomerReference is null.
Output		
Result	boolean	True or false

setSubscriptionCustomer

```
try{
$SubsCustomer = $client->setSubscriptionCustomer($sessionID, $SubscriptionRef,
$AvangateCustomerReference, $ ExternalCustomerReference);
} catch (SoapFault $e) {
echo "Subscription Customer: " . $e->getMessage();
}
var_dump ("Subscription Customer" , $SubsCustomer) ;
```



setSubscriptionCustomer	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SUBSCRIPTION	Invalid subscription
INVALID_CUSTOMER	Provide at least one of the customer references
INVALID_CUSTOMER	Cannot set the same Avangate or external customer reference on a subscription
INVALID_CUSTOMER	The Avangate customer reference provided does not exist
INVALID_CUSTOMER	The external customer reference provided does not exist
INVALID_CUSTOMER	Cannot set the same Avangate or external customer reference on a subscription
INVALID_CUSTOMER	The Avangate and external customer references do not match

5 setSubscriptionGracePeriod

Use this method to set the grace period for a specific subscription.

setSubscriptionGracePeriod(sessionID, SubscriptionCode, SubscriptionGracePeriod)

Input		
sessionID	String	Session identifier, which is the output of the Login method. An exception will be thrown if the values are incorrect. (mandatory)
SubscriptionReference	String	Avangate Subscription Reference
SubscriptionGracePeriod	Int	<p>The number of days for the grace period, during which time, customers can still renew/upgrade expired subscriptions. During the grace period, subscriptions feature the Past Due status.</p> <p>Can be NULL. When NULL, the grace period for a subscription will be the same as the per-product or per-account grace period settings. You can use this to reset the grace period for a subscription to match that of the product for which it was generated or to match grace period settings for all subscriptions of your account in scenarios in which you haven't configured specific per-product grace periods.</p> <p>Use 0 to remove the grace period of a subscription.</p>



Output		
Result	boolean	True or false

Set the grace period of a subscription

```
try{
$GracePeriod = $client->setSubscriptionGracePeriod($sessionID, $SubscriptionRef,
$SubscriptionGracePeriod);
} catch (SoapFault $e) {
echo "Grace period: " . $e->getMessage();
}
var_dump ("Grace period" , $GracePeriod) ;
```

setSubscriptionGracePeriod	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_GRACE_PERIOD	The subscription grace period must be a positive value!
INVALID_SUBSCRIPTION	Invalid subscription

6 getSubscription

Use this method to retrieve subscription information based on the Avangate Subscription Reference.

getSubscription (sessionID, SubscriptionReference)

Input		
sessionID	String	Session identifier, the output of the Login method.
SubscriptionReference	String	The Avangate Subscription Reference
Output		
Subscription	Object	Subscription information object with the structure described below.



Retrieve the details for a specific subscription:

```
$SubscriptionRef = 'ABC1ABC1CC'; //the 10 digit subscription code
//call the specific function
try {
$SubscriptionInfo = $client->getSubscription($sessionID, $SubscriptionRef);
} catch (SoapFault $e) {
echo "Subscription info: " . $e->getMessage();
}
var_dump ("Subscription info" , $SubscriptionInfo) ;
```

Subscription Object Structure

	Type	Description
DeliveryInfo	Object	Object with information about the delivery made to the customer - structure described below.
EndUser	Object	End user details (see below)
ExpirationDate	String	Subscription expiration date - If you changed the time zone for the Avangate API by editing system settings under Account settings, then the ExpirationDate will be calculated according to your custom configuration. Note: The default Avangate API time zone is GMT+02:00.
SubscriptionReference	String	Avangate Subscription Reference
SubscriptionEnabled	String	possible values: ENABLED/DISABLED
Product	Object	Associated product (see below)
RecurringEnabled	String	possible values: YES/NO
SKU	String	Product SKU
StartDate	String	Subscription start date - If you changed the time zone for the Avangate API by editing system settings under Account settings, then the StartDate will be calculated according to your custom configuration. Note: The default Avangate API time zone is GMT+02:00.
ReceiveNotifications	boolean	1 - Subscribe 0 - Unsubscribe
Lifetime	boolean	Possible values: <ul style="list-style-type: none"> • True • False



PartnerCode	String	Possible values: <ul style="list-style-type: none"> • Empty = ecommerce order • Partner Code
AvangateCustomerReference	Int	Default customer numerical (Int) IDs generated automatically by the Avangate system.
ExternalCustomerReference	String	Unique customer alphanumeric (string) identifiers that you control.

DeliveryInfo Object Structure		
	Type	Description
Codes	Array of Activation Code objects	Object containing codes delivered to customers - structure detailed below.
Description	String	Delivery description

Product Object Structure		
	Type	Description
ProductCode	String	Unique Product Code
ProductId	Int	Avangate Product ID
ProductName	String	Product Name
ProductVersion	String	Product Version
ProductQuantity	Int	Ordered quantity
PriceOptionCodes	String	Product options codes separated by "/". Pricing options codes are case sensitive.

EndUser Object Structure		
	Type	Description
Address1	String	End user's first address line
Address2	String	End user's second address line
City	String	End user's city



Company	String	Company name
CountryCode	String	End user's country code(ISO 3166 two-letter code)
Email	String	End user's email
Fax	String	End user's fax number
FirstName	String	End user's first name
Language	String	End user's language (ISO 639-1 two-letter code)
LastName	String	End user's last name
Phone	String	End user's phone number
State	String	End user's state
Zip	String	Zip code

Activation Code Object Structure		
	Type	Description
Code	String	Delivered code
Description	String	Code description
File	Object	See details below
ExtraInfo	Array of objects	See details below

File Object Structure		
	Type	Description
Filename	String	Name of the file
FileType	String	Content type of the file
Content	String	Content of the file (base64 encoded)
ContentLength	Int	File size



ExtraInfo Object Structure	
	Type
Label	String
Type	String
Value	String

getSubscription	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SUBSCRIPTION	Invalid subscription

7 getSubscriptionHistory

Use this method to retrieve information about a subscription.

getSubscriptionHistory (sessionID, SubscriptionReference)

Input		
sessionID	String	Session identifier, the output of the Login method.
SubscriptionReference	String	The Avangate Subscription Reference
Output		
HistoryItem	Array of objects	Array of objects with the structure described below.

HistoryItem Object Structure		
	Type	Description
DeliveryInfo	Object	Object with information about the delivery made to the customer - structure described below.
ExpirationDate	String	Subscription expiration date - If you changed the time zone for the Avangate API by editing system settings under Account settings, then the ExpirationDate will be calculated according to your custom configuration. Note: The default



		Avangate API time zone is GMT+02:00.
SubscriptionReference	String	The Avangate Subscription Reference
ReferenceNo	String	Order reference number
SKU	String	Stock keeping unit
StartDate	String	Subscription start date - If you changed the time zone for the Avangate API by editing system settings under Account settings, then the StartDate will be calculated according to your custom configuration. Note: The default Avangate API time zone is GMT+02:00.
Type	String	Change type: SALE/RENEWAL/UPGRADE
PartnerCode	String	Possible values: <ul style="list-style-type: none"> • Empty = ecommerce order • Partner Code

DeliveryInfo Object Structure

	Type	Description
Codes	Array of Activation Code objects	Object containing codes delivered to customers - structure detailed below.
Description	String	Delivery description

Activation Code Object Structure

	Type	Description
Code	String	Delivered code
Description	String	Code description
File	Object	See details below
Array of ExtraInfo	Array of objects	See details below



File Object Structure		
	Type	Description
Filename	String	Name of the file
FileType	String	Content type of the file
Content	String	Content of the file (base64 encoded)
ContentLength	Int	File size

ExtraInfo Object Structure	
	Type
Label	String
Type	String
Value	String

Get history information for a subscription

```
try {
  $SubscriptionHistory = $client->getSubscriptionHistory($sessionID, $SubscriptionRef);
} catch (SoapFault $e) {
  echo "Subscription history: " . $e->getMessage();
}
var_dump ("Subscription history" , $SubscriptionHistory) ;
```

getSubscriptionHistory	
Error	Description
FORBIDDEN	Invalid sessionID provided



8 getCustomerInformation

Use this method to access information on a customer account based on the Avangate customer reference, the External customer reference, or both. When used in tandem, the Avangate customer reference and the External customer reference need to match the identifiers of the same customer account.

getCustomerInformation(sessionId, AvangateCustomerReference, ExternalCustomerReference)

Input		
sessionId	String	Session identifier, which is the output of the Login method. An exception will be thrown if the values are incorrect. (mandatory)
AvangateCustomerReference	Int	Default customer numerical (Int) IDs generated automatically by the Avangate system. AvangateCustomerReference is mandatory, if ExternalCustomerReference is null.
ExternalCustomerReference	String	Unique customer alphanumeric (string) identifiers that you control. ExternalCustomerReference is mandatory, if AvangateCustomerReference is null.
Output		
Customer	Object	Object with the structure described below.

Customer Object Structure		
	Type	Description
AvangateCustomerReference	Int	Default customer numerical (Int) IDs generated automatically by the Avangate system. (mandatory)
ExternalCustomerReference	String	Unique customer alphanumeric (string) identifiers that you control.
FirstName	String	Customer's first name (mandatory)
LastName	String	Customer's last name (mandatory)
CompanyName	String	Company name
FiscalCode	String	Can be null for end users. For companies, it needs to be the VAT ID, which is validated by Avangate. An error will



		be thrown if the VAT ID is invalid/incorrect. When present, Company name must also be provided.
Address1	String	Customer's first address line (mandatory)
Address2	String	Customer's second address line
City	String	Customer's city (mandatory)
State	String	Customer's state
Zip	String	Zip code (mandatory)
CountryCode	String	Customer's country code(ISO 3166 two-letter code) (mandatory)
Phone	String	Customer's phone number
Fax	String	Customer's fax number
Email	String	Customer's email (mandatory)
Status	String	Customer status. Value is ignored.

getCustomerInformation

```
try{
$CustomerInfo = $client->getCustomerInformation($sessionID,$AvangateCustomerReference,
$ExternalCustomerReference);
} catch (SoapFault $e) {
echo "Customer Info: " . $e->getMessage();
}
var_dump ("Customer Info" , $CustomerInfo) ;
```

getCustomerInformation	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SUBSCRIPTION	Invalid subscription
INVALID_CUSTOMER	Provide at least one of the customer references
INVALID_CUSTOMER	The Avangate customer reference is invalid
INVALID_CUSTOMER	The external customer reference provided does not exist
INVALID_CUSTOMER	The Avangate and external customer references do not match



9 getCustomerSubscriptions

Returns all subscriptions aggregated under the customer account in accordance with the Avangate customer reference, External customer reference or both.

getCustomerSubscriptions(sessionId, AvangateCustomerReference, ExternalCustomerReference)

Input		
sessionId	String	Session identifier, which is the output of the Login method. An exception will be thrown if the values are incorrect. (mandatory)
AvangateCustomerReference	Int	Default customer numerical (Int) IDs generated automatically by the Avangate system. AvangateCustomerReference is mandatory, if ExternalCustomerReference is null.
ExternalCustomerReference	String	Unique customer alphanumeric (string) identifiers that you control. ExternalCustomerReference is mandatory, if AvangateCustomerReference is null.
Output		
Subscription	Array of Subscription Objects	Object with the structure described below.

getCustomerSubscriptions

```
try{
$CustomerSubscriptions = $client-
>getCustomerSubscriptions($sessionId,$AvangateCustomerReference, $ExternalCustomerReference);
} catch (SoapFault $e) {
echo "Customer subscriptions: " . $e->getMessage();
}
var_dump ("Customer subscriptions" , $CustomerSubscriptions) ;
```

Subscription Object Structure

	Type	Description
DeliveryInfo	Object	Object with information about the delivery made to the customer - structure described below.
EndUser	Object	End user details (see below)



ExpirationDate	String	Subscription expiration date - If you changed the time zone for the Avangate API by editing system settings under Account settings, then the ExpirationDate will be calculated according to your custom configuration. Note: The default Avangate API time zone is GMT+02:00.
SubscriptionReference	String	Avangate Subscription Reference
SubscriptionEnabled	String	possible values: ENABLED/DISABLED
Product	Object	Associated product (see below)
RecurringEnabled	String	possible values: YES/NO
SKU	String	Product SKU
StartDate	String	Subscription start date - If you changed the time zone for the Avangate API by editing system settings under Account settings, then the StartDate will be calculated according to your custom configuration. Note: The default Avangate API time zone is GMT+02:00.
ReceiveNotifications	boolean	1 - Subscribe 0 - Unsubscribe
Lifetime	boolean	Possible values: <ul style="list-style-type: none"> • True • False
PartnerCode	String	Possible values: <ul style="list-style-type: none"> • Empty = ecommerce order • Partner Code
AvangateCustomerReference	Int	Default customer numerical (Int) IDs generated automatically by the Avangate system.
ExternalCustomerReference	String	Unique customer alphanumeric (string) identifiers that you control.

DeliveryInfo Object Structure

	Type	Description
Codes	Array of Activation Code objects	Object containing codes delivered to customers - structure detailed below.
Description	String	Delivery description



Product Object Structure		
	Type	Description
ProductCode	String	Unique Product Code
ProductId	Int	Avangate Product ID
ProductName	String	Product Name
ProductVersion	String	Product Version
ProductQuantity	Int	Ordered quantity
PriceOptionCodes	String	Product options codes separated by "/". Pricing options codes are case sensitive.

EndUser Object Structure		
	Type	Description
Address1	String	End user's first address line
Address2	String	End user's second address line
City	String	End user's city
Company	String	Company name
CountryCode	String	End user's country code(ISO 3166 two-letter code)
Email	String	End user's email
Fax	String	End user's fax number
FirstName	String	End user's first name
Language	String	End user's language (ISO 639-1 two-letter code)
LastName	String	End user's last name
Phone	String	End user's phone number
State	String	End user's state
Zip	String	Zip code

Activation Code Object Structure



	Type	Description
Code	String	Delivered code
Description	String	Code description
File	Object	See details below
ExtraInfo	Array of objects	See details below

File Object Structure		
	Type	Description
Filename	String	Name of the file
FileType	String	Content type of the file
Content	String	Content of the file (base64 encoded)
ContentLength	Int	File size

ExtraInfo Object Structure	
	Type
Label	String
Type	String
Value	String

getCustomerSubscriptions	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_CUSTOMER	Provide at least one of the customer references
INVALID_CUSTOMER	The Avangate customer reference is invalid
INVALID_CUSTOMER	The provided external customer reference does not exist
INVALID_CUSTOMER	The Avangate and external customer references do not match



10 updateSubscription

Use this method to update subscription data.

AvangateCustomerReference and **ExternalCustomerReference** parameters are optional, but when they're used, the subscription whose details are being updated, will also be moved to the customer for which the Avangate customer reference or the External customer reference are provided. You can use **updateSubscription** not only to update subscription data, but also move a subscription to a new customer account.

To move a license from under one customer account to another:

- The Avangate customer reference or External customer reference provided need to differ than the ones belonging to the customer account associated to the subscription;
- Avangate customer reference must be valid and associated to the customer where the subscription will be transitioned
- External customer reference must be valid and associated to the customer where the subscription will be moved.
- If Avangate customer reference and External customer reference are both provided they need to coincide with the values of the Avangate and External identifiers of the customers where the subscription will be moved.

updateSubscription(sessionId, Subscription)

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
Subscription	Object	Subscription object with the structure described below.
Output		
Result	Boolean	True or false

Subscription Object Structure		
	Type	Description
DeliveryInfo	Object	Object with information about the delivery made to the customer - structure described below.
EndUser	Object	End user details (see below)
ExpirationDate	String	Subscription expiration date - If you changed the time zone for the Avangate API by editing system settings under Account settings, then the ExpirationDate will be calculated according to your custom configuration. Note: The default Avangate API time zone is GMT+02:00.
SubscriptionReference	String	Avangate Subscription Reference



SubscriptionEnabled	String	possible values: ENABLED/DISABLED
Product	Object	Associated product (see below)
RecurringEnabled	String	possible values: YES/NO
SKU	String	Product SKU
StartDate	String	Subscription start date - If you changed the time zone for the Avangate API by editing system settings under Account settings, then the StartDate will be calculated according to your custom configuration. Note: The default Avangate API time zone is GMT+02:00.
ReceiveNotifications	boolean	1 - Subscribe 0 - Unsubscribe
Lifetime	boolean	Possible values: <ul style="list-style-type: none"> • True • False
PartnerCode	String	Possible values: <ul style="list-style-type: none"> • Empty = ecommerce order • Partner Code
AvangateCustomerReference	Int	Default customer numerical (Int) IDs generated automatically by the Avangate system.
ExternalCustomerReference	String	Unique customer alphanumeric (string) identifiers that you control.

DeliveryInfo Object Structure

	Type	Description
Codes	Array of Activation Code objects	Object containing codes delivered to customers - structure detailed below.
Description	String	Delivery description

Product Object Structure

	Type	Description
ProductCode	String	Unique Product Code
ProductId	Int	Avangate Product ID



ProductName	String	Product Name
ProductVersion	String	Product Version
ProductQuantity	Int	Ordered quantity
PriceOptionCodes	String	Product options codes separated by "/". Pricing options codes are case sensitive.

EndUser Object Structure		
	Type	Description
Address1	String	End user's first address line
Address2	String	End user's second address line
City	String	End user's city
Company	String	Company name
CountryCode	String	End user's country code(ISO 3166 two-letter code)
Email	String	End user's email
Fax	String	End user's fax number
FirstName	String	End user's first name
Language	String	End user's language (ISO 639-1 two-letter code)
LastName	String	End user's last name
Phone	String	End user's phone number
State	String	End user's state
Zip	String	Zip code

Activation Code Object Structure		
	Type	Description
Code	String	Delivered code
Description	String	Code description
File	Object	See details below



ExtraInfo	Array of objects	See details below
-----------	------------------	-------------------

File Object Structure		
	Type	Description
Filename	String	Name of the file
FileType	String	Content type of the file
Content	String	Content of the file (base64 encoded)
ContentLength	Int	File size

ExtraInfo Object Structure	
	Type
Label	String
Type	String
Value	String

Update a subscription:

//the following example changes the recurring billing, the subscription status and the expiration deadline of a subscription

```
$UpdateSubscription = $client->getSubscription($sessionID, $SubscriptionRef);
```

```
$UpdateSubscription->RecurringEnabled = "NO";
```

```
$UpdateSubscription->SubscriptionEnabled = "ENABLED";
```

```
$UpdateSubscription->ExpirationDate = '2020-12-12';
```

```
try {
```

```
$subsc = $client->updateSubscription($sessionID, $UpdateSubscription);
```

```
}
```

```
// var_dump($updateLic);
```

```
// $subscription = $client->getSubscription($sessionID, $SubscriptionRef);
```

```
// var_dump($subscription);
```

```
catch (SoapFault $e) {
```

```
echo "Subscription Update: " . $e->getMessage();
```

```
}
```

```
var_dump ("Subscription Update" , $subsc) ;
```



updateSubscription	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SUBSCRIPTION	Invalid subscription
INVALID_EXPIRATION_DATE	Invalid expiration date provided
INVALID_STATUS_VALUE	Invalid SubscriptionEnabled property set (please use DISABLED/ENABLED)
INVALID_SUBSCRIPTION_OPERATION	<p>updateSubscription can return errors from the following methods: extendSubscription, disableSubscription, enableSubscription, updateSubscriptionCustomer, disableSubscriptionRecurring, enableSubscriptionRecurring:</p> <p>Cannot extend Subscription with 0 (zero) days (extendSubscription)</p> <p>Cannot extend Lifetime Subscription (extendSubscription)</p> <p>Cannot disable already disabled Subscription (disableSubscription)</p> <p>Cannot enable already enabled Subscription (enableSubscription)</p> <p>Invalid customer country code (updateSubscriptionCustomer)</p> <p>Invalid Email provided (updateSubscriptionCustomer)</p> <p>Cannot disable already disabled Subscription recurring (disableSubscriptionRecurring)</p> <p>Subscription is not auto-renewable because it is disabled (enableSubscriptionRecurring)</p> <p>Auto-renewal is already enabled on this subscription (enableSubscriptionRecurring)</p> <p>Subscription is not auto-renewable because it is life time (enableSubscriptionRecurring)</p> <p>Subscription is not auto-renewable because is expired (enableSubscriptionRecurring)</p> <p>Subscription is not auto-renewable (enableSubscriptionRecurring)</p>
INTERNAL_ERROR	Cannot save Subscription
INVALID_CUSTOMER	The Avangate customer reference provided does not exist
INVALID_CUSTOMER	The Avangate and external customer references do not match
INVALID_CUSTOMER	The external customer reference provided does not exist



11 updateSubscriptionEndUser

Use this method to change per-subscription end user data. **Note:** `updateSubscriptionEndUser` is designed to introduce changes to the end user information attached to subscriptions, and not to the customer data.

`updateSubscriptionEndUser` (sessionID, SubscriptionReference, EndUser)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
SubscriptionReference	String	Avangate Subscription Reference
EndUser	Object	End user object with the structure detailed below. All values can be modified, with the exception of language
Output		
Result	Boolean	TRUE if the update is successful, otherwise an exception will be thrown.

Update end user information for a subscription

```
$EndUser = $client->getSubscription($sessionID, $SubscriptionRef);
$EndUser->Address1 = 'Address';
$EndUser->Address2 = 'Address';
$EndUser->City = 'LA';
$EndUser->Company = 'TestCompany';
$EndUser->CountryCode = 'US';
$EndUser->Fax = '123';
$EndUser->FirstName = 'Avangate';
$EndUser->LastName = 'Customer';
$EndUser->Language = en;
$EndUser->State = CA;
$EndUser->Zip = '80910';
$EndUser->Email = 'avangate.customer@example.com';
$EndUser->Phone = '123456789000';
try {
$UpdateEndUser = $client->updateSubscriptionEndUser($sessionID, $SubscriptionRef, $EndUser);
} catch (SoapFault $e) {
echo "Updated End User info: " . $e->getMessage();
}
var_dump ("Updated End User info" , $UpdateEndUser) ;
```



EndUser Object Structure		
	Type	Description
Address1	String	End user's first address line
Address2	String	End user's second address line
City	String	End user's city
Company	String	Company name
CountryCode	String	End user's country code(ISO 3166 two-letter code)
Email	String	End user's email
Fax	String	End user's fax number
FirstName	String	End user's first name
Language	String	End user's language (ISO 639-1 two-letter code)
LastName	String	End user's last name
Phone	String	End user's phone number
State	String	End user's state
Zip	String	Zip code

updateSubscriptionEndUser	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SUBSCRIPTION	Invalid subscription
INVALID_COUNTRY	Invalid customer country code
INVALID_CUSTOMER_EMAIL	Invalid email provided
INTERNAL_ERROR	Cannot save subscription, null, Cannot disable subscription



12 updateCustomerInformation

Use this method to modify Customer data, including the **External customer reference**. If no external identifier exists for a specific customer, **updateCustomerInformation** can be used to set one, as long as the ID provided (string) is not already associated with an existing customer account. When the value of **External customer reference** is NULL, an existing identifier will be deleted from the customer account. **updateCustomerInformation**(sessionId, Customer)

Input		
sessionId	String	Session identifier, which is the output of the Login method. An exception will be thrown if the values are incorrect. (mandatory)
Customer	Object	Customer object with the structure described below. (mandatory)
Output		
Result	boolean	True or false

Customer Object Structure		
	Type	Description
AvangateCustomerReference	Int	Default customer numerical (Int) IDs generated automatically by the Avangate system. (mandatory)
ExternalCustomerReference	String	Unique customer alphanumeric (string) identifiers that you control.
FirstName	String	Customer's first name (mandatory)
LastName	String	Customer's last name (mandatory)
CompanyName	String	Company name
FiscalCode	String	Can be null for end users. For companies, it needs to be the VAT ID, which is validated by Avangate. An error will be thrown if the VAT ID is invalid/incorrect. When present, Company name must also be provided.
Address1	String	Customer's first address line (mandatory)
Address2	String	Customer's second address line



City	String	Customer's city (mandatory)
State	String	Customer's state
Zip	String	Zip code (mandatory)
CountryCode	String	Customer's country code(ISO 3166 two-letter code) (mandatory)
Phone	String	Customer's phone number
Fax	String	Customer's fax number
Email	String	Customer's email (mandatory)
Status	String	Customer status. Value is ignored.

updateCustomerInformation

```

$CustomerDetails = new stdClass ();
$CustomerDetails-> AvangateCustomerReference = 123456789; //dummy data
$CustomerDetails-> ExternalCustomerReference = 'TestCID123'; //dummy data
// use $CustomerDetails-> ExternalCustomerReference = ""; to delete the external customer ID
$CustomerDetails-> FirstName = 'TestName';
$CustomerDetails-> LastName = 'TestName';
$CustomerDetails-> Address1 = 'TestAddress';
$CustomerDetails-> Address2 = 'TestAddress';
$CustomerDetails-> City = 'TestCity';
$CustomerDetails-> Zip = '12345';
$CustomerDetails-> CountryCode = 'us';
$CustomerDetails-> Email = 'test@email.com';
try{
$CustomerInfo = $client->updateCustomerInformation($sessionID,$CustomerDetails);
} catch (SoapFault $e) {
echo "Customer Info: " . $e->getMessage();
}
var_dump ("Customer Info" , $CustomerInfo) ;

```

updateCustomerInformation	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_CUSTOMER	The Avangate customer reference is required
INVALID_FNAME	Invalid customer first name



INVALID_FNAME	Invalid customer last name
INVALID_FNAME	Invalid customer address
INVALID_FNAME	Invalid customer city
INVALID_FNAME	Invalid customer zip code
INVALID_FNAME	Invalid customer country code
INVALID_CUSTOMER_EMAIL	Invalid email provided
INVALID_CUSTOMER	The Avangate customer reference is invalid
INVALID_CUSTOMER_REFERENCE	The external customer reference is used by another customer

13 cancelSubscription

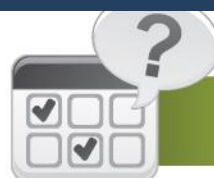
Use this method to cancel (disable) a subscription.

cancelSubscription (sessionId, SubscriptionRef)

Input		
sessionId	String	Session identifier, the output of the Login method.
SubscriptionReference	String	The Avangate Subscription Reference
Output		
Result	boolean	TRUE if the update is successful, otherwise an exception will be thrown.

Cancel a subscription

```
$client = new SoapClient(
" https://secure.avangate.com/api/merchant/?wsdl"
);
$merchantCode = "CC1234"; //dummy code
$key = "SECRET_KEY"; //dummy key
$now = date("Y-m-d H:i:s"); // date format YYYY-MM-DD HH:mm:ss
$string = strlen($merchantCode) . $merchantCode . strlen($now) . $now;
$hash = hmac($key, $string);
$sessionId = $client->login($merchantCode, $now, $SessionID);
try {
$cancelSubscription = $client->cancelSubscription($sessionId, $SubscriptionReference);
} catch (SoapFault $e) {
echo "Cancel subscription: " . $e->getMessage();
}
```



```
}
var_dump ("Cancel subscription" , $cancelSubscription) ;
```

cancelSubscription	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SUBSCRIPTION	Invalid subscription
INVALID_SUBSCRIPTION_OPERATION	Cannot disable already disabled subscription
INTERNAL_ERROR	Cannot save subscription, null, Cannot disable subscription

14 enableSubscription

Use this method to enable a cancelled (disabled) subscription.

enableSubscription(sessionID, SubscriptionReference)

Input		
sessionID	String	Session identifier, the output of the Login method.
SubscriptionReference	String	The Avangate Subscription Reference
Output		
Result	boolean	TRUE if the update is successful, otherwise an exception will be thrown.

Enable a cancelled (disabled) subscription
<pre>try { \$enableSubscription = \$client->enableSubscription(\$sessionID, \$SubscriptionRef); } catch (SoapFault \$e) { echo "Enable subscription: " . \$e->getMessage(); } var_dump ("Enable subscription" , \$enableSubscription) ;</pre>

enableSubscription	
Error	Description
FORBIDDEN	Invalid sessionID provided



INVALID_SUBSCRIPTION	Invalid subscription
INVALID_SUBSCRIPTION_OPERATION	Cannot enable already enabled subscription
INTERNAL_ERROR	Cannot save subscription, null, Cannot enable subscription

15 disableRecurringBilling

Use this method to disable recurring billing (the auto-renewal system) for a subscription. Once recurring billing is disabled, customers will need to manually renew the subscription, a process that requires they enter their payment details and opt to prolong the subscription.

disableRecurringBilling (sessionID, SubscriptionReference)

Input		
sessionID	String	Session identifier, the output of the Login method.
SubscriptionReference	String	The Avangate Subscription Reference
Output		
Result	boolean	TRUE if the update is successful, otherwise an exception will be thrown.

Disable recurring billing for a subscription

```
try {
$DisableRB = $client->disableRecurringBilling($sessionID, $SubscriptionRef);
} catch (SoapFault $e) {
echo "Disable Recurring Billing: " . $e->getMessage();
}
var_dump ("Disable Recurring Billing" , $DisableRB) ;
```

disableRecurringBilling	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SUBSCRIPTION	Invalid subscription
INVALID_SUBSCRIPTION_OPERATION	Cannot disable already disabled subscription
INTERNAL_ERROR	Cannot save subscription, null, Cannot disable subscription



16 enableRecurringBilling

Use this method to switch on the automatic renewal system for a subscription that's manually renewable. Recurring billing can be enabled only for active subscriptions that are set to be manually renewed, but not for lifetime (evergreen), disabled or expired items.

enableRecurringBilling(sessionID, SubscriptionReference)

Input		
sessionID	String	Session identifier, the output of the Login method.
SubscriptionReference	String	The Avangate Subscription Reference
Output		
Result	boolean	TRUE if the update is successful, otherwise an exception will be thrown.

Enable recurring billing for a subscription

```
try {
$EnableRB = $client->enableRecurringBilling($sessionID, $SubscriptionRef);
} catch (SoapFault $e) {
echo "Enable Recurring Billing: " . $e->getMessage();
}
var_dump ("Enable Recurring Billing" , $EnableRB) ;
```

enableRecurringBilling	
Error	Description
INVALID_SUBSCRIPTION_OPERATION	Subscription is not auto-renewable because it is disabled Auto-renewal is already enabled on this subscription Subscription is not auto-renewable because it is life time Subscription is not auto-renewable because is expired Subscription is not auto-renewable
INTERNAL_ERROR	Cannot save subscription



17 extendSubscription

Use this method to change the expiration date of a subscription, either prolonging or reducing its lifetime.

extendSubscription (sessionId, SubscriptionReference, Days)

Input		
sessionId	String	Session identifier, the output of the Login method.
SubscriptionReference	String	The Avangate Subscription Reference
Days	Int	The number of days by which the subscription lifetime will be prolonged. Use a negative number to reduce the lifetime of a subscription. Cannot be NULL.
Output		
Result	boolean	TRUE if the update is successful, otherwise an exception will be thrown.

Extend the lifetime of a subscription

```
try {
    $extendsubscription = $client->extendSubscription($sessionId, $SubscriptionRef, $Days);
} catch (SoapFault $e) {
    echo "Extend subscription: " . $e->getMessage();
}
var_dump ("Extend subscription" , $extendsubscription) ;
```

extendSubscription	
Error	Description
FORBIDDEN	Invalid sessionId provided
INVALID_SUBSCRIPTION	Invalid subscription
INVALID_SUBSCRIPTION_OPERATION	Cannot extend subscription with 0 (zero) days
INVALID_SUBSCRIPTION_OPERATION	Cannot extend Lifetime subscription
INTERNAL_ERROR	Cannot save subscription, null, Set expiration date failed



18 getNextRenewalPrice

Use this method to retrieve information on the costs customers will incur on the next renewal for a subscription, per the recurring billing configuration.

getNextRenewalPrice (SessionID, SubscriptionReference, Currency)

Input		
SessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
SubscriptionReference	String	Avangate Subscription Reference
Currency	String	The currency associated to the renewal price. The currency ISO code to be used for the payment - ISO 4217. Can be null.
Output		
Renewal Price	Object	Renewal Price details object - structure described below.

Renewal Price Object Structure		
NetCurrency	String	Currency for the price without taxes. The currency ISO code to be used for the payment - ISO 4217.
FinalCurrency	String	Currency to be used for prices with taxes. The currency ISO code to be used for the payment - ISO 4217.
FinalPrice	Double	Price with taxes
NetPrice	Double	Price without taxes

getNextRenewalPrice

```
try{
$NxtRenewalPrice = $client->getNextRenewalPrice($sessionID, $SubscriptionRef, $Currency);
} catch (SoapFault $e) {
echo "Next Renewal Price: " . $e->getMessage();
}
var_dump ("Next Renewal Price" , $NxtRenewalPrice) ;
```

getNextRenewalPrice	
Error	Description
FORBIDDEN	Invalid sessionID provided



INVALID_SUBSCRIPTION	Invalid subscription
INVALID_CURRENCY	The currency provided is not supported

19 setCustomRenewalPrice

Use this method to set custom renewal prices for subscriptions and control the number of recurring billing cycles the price will impact customers.

setCustomRenewalPrice (sessionId, SubscriptionReference, Price, Currency, Cycles, ReasonText)

Input		
sessionId	String	Session identifier string. An exception will be thrown if the values are incorrect.
SubscriptionReference	String	Avangate Subscription Reference
Price	Float	The price that will apply for the next "Cycles" renewals.
Currency	String	The currency associated to the custom price. The currency ISO code to be used for the payment - ISO 4217. Can be null.
Cycles	Int	Number of recurring billing cycles for which the price is the one set using setCustomRenewalPrice. (Can be null - Default value 1)
ReasonText	String	The parameter enables you to provide additional details related to the custom renewal price set. (Can be null)
Output		
Result	boolean	True or false.

setCustomRenewalPrice

```
try{
$CustomRenewalPrice = $client->setCustomRenewalPrice($sessionId, $SubscriptionRef, $Price,
$Currency, $Cycles, $ReasonText);
} catch (SoapFault $e) {
echo "Custom Renewal Price: " . $e->getMessage();
}
var_dump ("Custom Renewal Price" , $CustomRenewalPrice) ;
```



setCustomRenewalPrice	
Error	Description
FORBIDDEN	Invalid sessionID provided This feature is not available for your account
INVALID_SUBSCRIPTION	Invalid subscription Subscription is disabled
PRICE_ERROR	The price must be a positive number The renewal cycles number must be a positive Int
INVALID_CURRENCY	The currency provided is not supported

20 searchSubscription

Use this method search for subscriptions.

searchSubscription(sessionID, SearchBy, SearchString)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
SearchBy	String	EMAIL, DELIVERED_CODE, AVANGATE_CUSTOMER_REFERENCE, EXTERNAL_CUSTOMER_REFERENCE
SearchString	String	Either the end user email or the code
Output		
Subscription	Array of Subscription objects	Subscription object - structure described below.

Subscription Object Structure		
	Type	Description
DeliveryInfo	Object	Object with information about the delivery made to the customer - structure described below.
EndUser	Object	End user details (see below)
ExpirationDate	String	Subscription expiration date - If you changed the time



		zone for the Avangate API by editing system settings under Account settings, then the ExpirationDate will be calculated according to your custom configuration. Note: The default Avangate API time zone is GMT+02:00.
SubscriptionReference	String	Avangate Subscription Reference
SubscriptionEnabled	String	possible values: ENABLED/DISABLED
Product	Object	Associated product (see below)
RecurringEnabled	String	possible values: YES/NO
SKU	String	Product SKU
StartDate	String	Subscription start date - If you changed the time zone for the Avangate API by editing system settings under Account settings, then the StartDate will be calculated according to your custom configuration. Note: The default Avangate API time zone is GMT+02:00.
ReceiveNotifications	boolean	1 - Subscribe 0 - Unsubscribe
Lifetime	boolean	Possible values: <ul style="list-style-type: none"> • True • False
PartnerCode	String	Possible values: <ul style="list-style-type: none"> • Empty = ecommerce order • Partner Code
AvangateCustomerReference	Int	Default customer numerical (Int) IDs generated automatically by the Avangate system.
ExternalCustomerReference	String	Unique customer alphanumeric (string) identifiers that you control.

DeliveryInfo Object Structure

	Type	Description
Codes	Array of Activation Code objects	Object containing codes delivered to customers - structure detailed below.
Description	String	Delivery description



Product Object Structure		
	Type	Description
ProductCode	String	Unique Product Code
ProductId	Int	Avangate Product ID
ProductName	String	Product Name
ProductVersion	String	Product Version
ProductQuantity	Int	Ordered quantity
PriceOptionCodes	String	Product options codes separated by "/". Pricing options codes are case sensitive.

EndUser Object Structure		
	Type	Description
Address1	String	End user's first address line
Address2	String	End user's second address line
City	String	End user's city
Company	String	Company name
CountryCode	String	End user's country code(ISO 3166 two-letter code)
Email	String	End user's email
Fax	String	End user's fax number
FirstName	String	End user's first name
Language	String	End user's language (ISO 639-1 two-letter code)
LastName	String	End user's last name
Phone	String	End user's phone number
State	String	End user's state
Zip	String	Zip code



Activation Code Object Structure		
	Type	Description
Code	String	Delivered code
Description	String	Code description
File	Object	See details below
ExtraInfo	Array of objects	See details below

File Object Structure		
	Type	Description
Filename	String	Name of the file
FileType	String	Content type of the file
Content	String	Content of the file (base64 encoded)
ContentLength	Int	File size

ExtraInfo Object Structure	
	Type
Label	String
Type	String
Value	String

Search for a subscription:

```
$SearchBy = 'EMAIL'; // Can be: 'EMAIL', 'DELIVERED_CODE'
$SearchString = 'myEmailAddress@myCompany.com'; //The value of the email or delivery code
//call the specific function
$result = $client->searchSubscription($sessionID, $SearchBy, $SearchString);
print_r($result);
```



searchSubscription	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SEARCH	Invalid search field. Please use Please use EMAIL / DELIVERED_CODE / AVANGATE_CUSTOMER_REFERENCE / EXTERNAL_CUSTOMER_REFERENCE
INVALID_SEARCH	Invalid search value. Please enter a string for search
INVALID_SEARCH	Invalid email

21 getSingleSignOn

getSingleSignOn (sessionID, SubscriptionReference, Email, ValidityTime, AccessPage, ValidationIp)

Use this method to redirect and login shoppers automatically from your user portal into their Avangate myAccount based on subscription information. This method connects third-party user hubs with the Avangate myAccount, and allows your shoppers to seamlessly sign in to manage their information and perform tasks such as updating/changing credit card details.

Requirements:

getSingleSignOn usage is restricted to merchants with custom domains.

Input		
sessionID	String	Session identifier, which is the output of the Login method. An exception will be thrown if the values are incorrect. (mandatory)
SubscriptionReference	String	The Avangate Subscription Reference unique identifier (mandatory)
Email	String	Shopper email address used for the subscription (SubscriptionRef). (optional)
ValidityTime	Int	The time, in seconds, before the single sign-on URL returned by this method will expire. By default, the URL will expire after 10 seconds. (optional)
ValidationIp	String	The IP address of the shopper, necessary for security purposes. (mandatory)
AccessPage	String	The specific myAccount page you want the user to be redirected to. (optional) Possible values: view_order, my_license, change_card,



		my_products, user_data, order_lookup, faq - default: index page
Output		
Single sign-on URL	String	The string generated is the complete single sign-on URL pointing to Avangate myAccount, containing the unique URL. Shoppers are logged automatically into their Avangate myAccount.

```
// prepare authorization
$string = strlen(SETT_MERCHANT_CODE) . SETT_MERCHANT_CODE . strlen(date('Y-m-d H:i:s')) .
date('Y-m-d H:i:s');
$hash = hmac(SETT_AUTH_KEY, $string);
// create soap
$SOAP_sess_id = $client->login( SETT_MERCHANT_CODE, date('Y-m-d H:i:s'), $hash );
// try to make things
try {

// get the link
$linkToUse = $client->getSingleSignOn (
$SOAP_sess_id, // SOAP session id
$_REQUEST['SubscriptionRef'], // subscription code
$_SESSION['email'], // user email
20, // expiration of the token (in seconds)
$_REQUEST['goto'], // Access page [ view_order, my_license, change_card, my_products, user_data,
order_lookup, faq - default: index page ]
$_SERVER['REMOTE_ADDR'] // IP to check
);

} catch (SoapFault $e) {

// handle errors with a redirect OR
die( '<strong>' . $e->getMessage() . '</strong> <br />SOAP fault: <pre>' . print_r($e->getTrace(),
true) . '</pre>' );

}

// go to myaccount
if( $linkToUse ) {

header('Location: '.$linkToUse);

} else {

// redirect to myaccount login OR
die('Sorry! The server is not available.');
```



```

}
// hmac_md5 function
function hmac ($key, $data){
$b = 64; if (strlen($key) > $b) { $key = pack("H*", md5($key)); } $key = str_pad($key, $b,
chr(0x00)); $ipad = str_pad("", $b, chr(0x36));
$opad = str_pad("", $b, chr(0x5c)); $k_ipad = $key ^ $ipad ; $k_opad = $key ^ $opad; return
md5( $k_opad . pack("H*", md5($k_ipad . $data)) );
}

```

getSingleSignOn	
Error	Description
FORBIDDEN	Invalid sessionID provided.
FORBIDDEN	Required subscription code
FORBIDDEN	Invalid subscription code
FORBIDDEN	Invalid subscription for account
FORBIDDEN	Invalid email
FORBIDDEN	Invalid email or subscription
FORBIDDEN	Not a custom domain
INTERNAL_ERROR	Cannot save token

22 getInvoice

Use this method to access shopper invoices in the Avangate system based on unique order references. The method will return the binary code for invoices in the PDF file format, Base64 encoded (Base64 is used to represent binary data in the ASCII string format).

getInvoice works for COMPLETE orders for which an invoice was already issued. When a refund is provided, **getInvoice** generates two shopper invoices, one for the original order and the second for the refund, reflecting the repayment made.

In the case of cross-selling orders which contain products from different merchants, **getInvoice** enables you to re-issue only the invoices for your own offerings.

getInvoice (sessionID, RefNo)

Input		
sessionID	String	Session identifier, which is the output of the Login method.



		An exception will be thrown if the values are incorrect. (mandatory)
RefNo	String	Order reference number of older order, which is already approved/paid. The status of said order needs to be COMPLETE.
Output		
InvoiceData	Object	Object structure detailed below.

InvoiceData Object Structure		
Sales	Array	Base64 encoded PDF files containing invoices for Complete orders.
Refunds	Array	Base64 encoded PDF files containing invoices for Refunds.

getInvoice:

```
$RefNo = '1234567';
$invoice = $client-> getInvoice ($sessionId, $RefNo);
foreach ($invoice as $type => $files ){
    foreach ($files as $k => $v) {
        file_put_contents("invoice_{$k}.pdf", base64_decode($v));
    }
}
```

getInvoice	
Error	Description
FORBIDDEN	Invalid sessionId provided
FORBIDDEN	Invalid reference number.
INVOICE_ERROR	This Order reference does not have an invoice.



23 getTimezone

Use this method to get information on the time zone used by your account for the Avangate API.

getTimeZone(sessionID)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
Output		
VendorAPITimezone	String	The time zone you selected or the default GMT+02:00 time zone of the Avangate system.

getTimeZone

```
try {
  $client->getTimezone($sessionID);
} catch (SoapFault $e) {
  echo "Error: " . $e->getMessage();
}
```

getTimeZone	
Error	Description
FORBIDDEN	Invalid sessionID provided



Renew Subscriptions

24 getRenewalDetails

Use this method to retrieve information regarding renewal based on Avangate Subscription References. **getRenewalDetails** provides:

- Information on whether automatic renewal (recurring billing) is enabled for a subscription, or if it needs to be renewed manually by the customer;
- The link that customers can access to renew the subscription through a manual payment (entering the payment details).

getRenewalDetails (sessionId, SubscriptionReference)

Input		
sessionId	String	Session identifier, the output of the Login method.
SubscriptionReference	String	The Avangate Subscription Reference
Output		
SubscriptionPaymentDetails	Object	Object with the structure described below.

SubscriptionPaymentDetails Object Structure		
	Type	Description
CanAutoRenew	boolean	TRUE= automatic renewal (recurring billing) is enabled for the subscription. FALSE= automatic renewal (recurring billing) is not enabled for the subscription.
ManualRenewalLink	String	The follow up link is displayed regardless of whether automatic renewal is enabled or not.

getRenewalDetails

```
try{
$RenewalInfo = $client->getRenewalDetails($sessionId, $SubscriptionRef);
} catch (SoapFault $e) {
echo "Renewal info: " . $e->getMessage();
}
var_dump ("Renewal info" , $RenewalInfo);
```



getRenewalDetails	
Error	Description
FORBIDDEN	Invalid sessionID provided
FORBIDDEN	This feature is not available for your account
INVALID_SUBSCRIPTION	Invalid subscription

25 setRenewalNotificationStatus

Use this method to subscribe or unsubscribe shoppers from subscription renewal notifications.

setRenewalNotificationStatus(sessionID, SubscriptionReference, Status)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
SubscriptionReference	String	Avangate Subscription Reference
Status	boolean	1 - Subscribe 0 - Unsubscribe
Output		
Result	Boolean	True or false

Subscribe/ Unsubscribe from subscription renewal notifications:

```
$SubscriptionRef = 'ABC1ABC1CC'; //the 10 digit Subscription Code
$Status = 1; //1 - Subscribe 0 - Unsubscribe
//call the specific function
try{
$SubscriptionNotificationStatus = $client->setRenewalNotificationStatus($sessionID, $SubscriptionRef, 1);
} catch (SoapFault $e) {
echo "Subscription Notification Status: " . $e->getMessage();
}
var_dump ("Subscription Notification Status" , $SubscriptionNotificationStatus) ;
```



setRenewalNotificationStatus	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SUBSCRIPTION	Invalid subscription
INTERNAL_ERROR	Cannot save subscription, null, Cannot update subscription renewal notification setting

26 renewSubscription

Use this method to renew a subscription.

renewSubscription (sessionID, SubscriptionReference, Days, Price, Currency)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
SubscriptionReference	String	Avangate Subscription Reference
Days	Int	The number of days by which the subscription lifetime will be extended.
Price	Double	The price of the subscription renewal which the customers will be billed. This is the Net price provided in the getRenewalPrice method.
Currency	String	The currency associated to the renewal price - ISO 4217 code.
Output		
Result	boolean	True or false.

Extend a subscription a specific number of days with a specific price:

```
$ SubscriptionRef = 'ABC5DE08CC'; //the 10 digit Subscription Code
$Days = 30; //Number of days you want to extend subscription lifetime at renewal
$Price = 120; //The Desired amount you want to charge the renewal
$Currency = 'EUR'; //The desired Currency - see getRenewalPrice method!
//call the specific function
try{
$RenewSubscription = $client->renewSubscription($sessionID, $SubscriptionRef, $Days, $Price,
$Currency);
```




```
} catch (SoapFault $e) {  
echo "Renew Subscription: " . $e->getMessage();  
}  
var_dump ("Renew Subscription" , $RenewSubscription) ;
```

renewSubscription	
Error	Description
FORBIDDEN	Invalid sessionID provided
FORBIDDEN	This feature is not available for your account
INVALID_SUBSCRIPTION	Invalid subscription
INVALID_SUBSCRIPTION	Subscription cannot be renewed automatically
INVALID_SUBSCRIPTION_OPERATION	Invalid extension period
INVALID_SUBSCRIPTION_OPERATION	There is already a pending renewal for this subscription



Upgrade Subscriptions

27 getProductUpgradeOptions

This method is designed to retrieve the upgrade options available for a specific Avangate Subscription Reference.

getProductUpgradeOptions (sessionID, SubscriptionReference)

Input		
sessionID	String	Session identifier, the output of the Login method.
SubscriptionReference	String	The Avangate Subscription Reference
Output		
ProductForUpdate	Array of objects	The array of products with specific upgrade options associated. Object structure described below.

Product for update object structure		
	Type	Description
SimpleProduct	Object	Complete product information - object structure detailed below.
Quantity	Int	Number of units
Price Options	Array of objects	Price Options Group Item object with the structure detailed below.

SimpleProduct Object Structure		
Currency	String	The currency to be used for prices, set with setCurrency. The currency ISO code to be used for the payment - ISO 4217.
DefaultCurrency	String	The product's default currency which is set in the Control Panel. The currency ISO code to be used for the payment - ISO 4217.
GiftOption	boolean	True or false depending on whether the product can be gifted or not.
GroupName	String	The name of the Product Group



IdGroup	Int	Product Group ID number
Languages	anyType	Array of ISO language codes for the product - ISO 639-1
Price	Double	Product price. Can be null for flat pricing schemes. You need to call getPrice with Quantity, Currency and Price Options parameters to get a valid price.
PriceType	String	NET or GROSS
PriceSchema	String	FLAT or DYNAMIC
PriceIntervals	anyType	Pricing intervals
ProductCode	String	Product code
ProductId	Int	The product ID from Avangate's database
ProductImage	String	URLs to the product images uploaded into the Avangate platform.
ProductName	String	Product name
ProductStatus	boolean	True/false, but it will be always Active, since only active products can be displayed to shoppers.
ProductType	String	REGULAR or BUNDLE
ProductVersion	String	The product version number
ShortDescription	String	The product's short description

PriceOptionsGroupItem Object structure		
Description	String	
Name	String	
Type	String	
Options	Array of objects	Price Options Group Item Options object with the structure detailed below.
Required	boolean	

PriceOptionsGroupItemOptions Object structure		
Name	String	



Value	String	
Default	Boolean	
Description	String	

Get the upgrade options for a specific subscription:

```
try{
$UpgradeOptions = $client->getProductUpgradeOptions($sessionID, $SubscriptionRef);
} catch (SoapFault $e) {
echo "Upgrade Options: " . $e->getMessage();
}
var_dump ("Upgrade Options" , $UpgradeOptions) ;
```

getProductUpgradeOptions	
Error	Description
FORBIDDEN	Invalid sessionID provided
FORBIDDEN	This feature is not available for your account
FORBIDDEN	The Product-Upgrade feature is not available for your account
INVALID_SUBSCRIPTION	Invalid subscription

28 getProductUpgradeOptionsPrice

Use this method to retrieve the upgrade price for a subscription.

getProductUpgradeOptionsPrice (sessionID, SubscriptionReference, ProductId, Currency, Options)

Input		
sessionID	String	Session identifier, the output of the Login method.
SubscriptionReference	String	The Avangate Subscription Reference
ProductId	Int	Product ID
Currency	String	Requested price currency - ISO 4217 code.
Options	String	String - ';' separated list of 'OptionValue' returned by getProductUpgradeOptions function If the pricing options groups is "scale" (interval), the Options parameter should be sent like this: [option



		group unique code] + "=" + value e.g. Users=7
Output		
UpgradePrice	Array of objects	The array of products with specific upgrade options associated. Object structure described below.

UpgradePrice Object Structure		
	Type	Description
BillingPrice	Double	The price that the customer will be billed without taxes
BillingGrossPrice	Double	The price that the customer will be billed plus taxes
BillingCurrency	String	The currency used to place the order
Quantity	Int	The mandatory quantity for the upgrade (you cannot make partial upgrades)
DisplayPrice	Double	Display price
DisplayGrossPrice	Double	Display price before deductions
DisplayCurrency	String	Display currency

Get the price(s) for a upgrade - Product and Product Options in a specific currency

```
// $sessionID - //Session login object obtained from calling the login method
$SubscriptionRef = 'ABC1ABC1CC'; //the 10 digit Subscription Code
$ProductId = '1234567'; //The Product ID - usually obtained from
the getProductUpgradeOptions function
$Currency = 'EUR'; // The currency in which you want the price displayed - can be other than the
billing currency
$Options = '3UserOption;3GBOption'; // The option Value(s) selected - separated by ';' usually
obtained from the getProductUpgradeOptions function
//call the specific function
try{
$UpgradeOptionsPrice = $client->getProductUpgradeOptionsPrice($sessionID, $SubscriptionRef,
$ProductId, $Currency, $Options);
} catch (SoapFault $e) {
echo "Upgrade Options Price: " . $e->getMessage();
}
var_dump ("Upgrade Options Price" , $UpgradeOptionsPrice) ;
```



getProductUpgradeOptionsPrice	
Error	Description
FORBIDDEN	Invalid sessionID provided
FORBIDDEN	This feature is not available for your account
FORBIDDEN	The Product-Upgrade feature is not available for your account
INVALID_SUBSCRIPTION	Invalid subscription
INVALID_CURRENCY	The currency provided is not supported
INVALID_PRODUCT	Invalid Product to update to
INVALID_OPTIONS	Invalid Options for product
INVALID_OPTIONS	Invalid Options - Product has required option groups

29 setExternalRef

Use this API method to set external references for new acquisitions and upgrade orders. setExternalRef enables you to replicate the functionality of the REF parameter when included into Buy Links.

setExternalRef must be used ahead of the:

- placeOrder method for new acquisitions through API.
- setSubscriptionUpgrade method for upgrade orders through API.

setExternalRef (sessionID, ExternRef)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
ExternRef	String	Reference order code. Maximum 100 characters. If there is a need for longer references, a md5 hash can be applied for any string value, resulting a 32 characters string. This hash that can be verified after the order notification, on the client side.
Output		
Result	boolean	True or false.



Set an external reference

```
try{
$ExtRef = $client->setExternalRef($sessionID, $ExternalRef);
} catch (SoapFault $e) {
echo "External reference: " . $e->getMessage();
}
var_dump ("External reference" , $ExtRef) ;
```

Set an external reference for an upgrade order through API

```
try{
$ExtRef = $client->setExternalRef($sessionID, $ExternalRef);
} catch (SoapFault $e) {
echo "External reference: " . $e->getMessage();
}
var_dump ("External reference" , $ExtRef) ;
try{
$SubscriptionUpgrade = $client->setSubscriptionUpgrade($sessionID, $SubscriptionRef, $ProductId,
$Options, $customPrice);
} catch (SoapFault $e) {
echo "Subscription Upgrade: " . $e->getMessage();
}
var_dump ("Subscription Upgrade" , $SubscriptionUpgrade) ;
```

setExternalRef	
Error	Description
FORBIDDEN	Invalid sessionID provided
INVALID_SOURCE	The provided external reference is empty

30 setSubscriptionUpgrade

Use this method to upgrade a subscription.

setSubscriptionUpgrade (sessionID, SubscriptionReference, ProductId, Options, CustomPrice)

Input		
sessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
SubscriptionReference	String	Avangate Subscription Reference
ProductId	Int	The Avangate product ID for the product to which the



		subscription will be upgraded.
Options	String	Pricing options of the product to which the subscription will be upgraded. String - ';' separated list of 'OptionValue' returned by getProductUpgradeOptions function If the pricing options groups is "scale" (interval), the Options parameter should be sent like this: [option group unique code] + "=" + value e.g. Users=7
CustomPrice	Double	The price you want to charge customers for the upgrade. The currency used is the same as in the previous payment customers made.
Output		
Result	boolean	True or false.

Place an Upgrade request:

```
// $sessionID - //Session login object obtained from calling the login method
$subscriptionRef = 'ABC1ABC1CC'; //the 10 digit Subscription Code
$productId = '1234567'; //The Product ID - usually obtained from the getProductUpgradeOptions function
$options = '3UserOption;3GBOption'; // The option Value(s) selected - separated by ';' - usually obtained from the getProductUpgradeOptions function
$customPrice = '23.66'; // Optional parameter - specifies a custom price for the transaction
//call the specific function
```

```
try{
$SubscriptionUpgrade = $client->setSubscriptionUpgrade($sessionID, $SubscriptionRef, $productId,
$options, $customPrice);
} catch (SoapFault $e) {
echo "Subscription Upgrade: " . $e->getMessage();
}
var_dump ("Subscription Upgrade" , $SubscriptionUpgrade) ;
```

setSubscriptionUpgrade	
Error	Description
FORBIDDEN	Invalid sessionID provided
FORBIDDEN	This feature is not available for your account
FORBIDDEN	The Product-Upgrade feature is not available for your



	account
INVALID_SUBSCRIPTION	Invalid subscription: - Invalid subscription code; - The subscription is not associated to the account; - Subscription is disabled.
INVALID_CURRENCY	The currency provided is not a valid currency for the specific account.
INVALID_PRODUCT	Invalid Product to upgrade to. The product you chose to upgrade to is not valid.
INVALID_OPTIONS	Invalid Options for product. Options selected for product are not valid.
INVALID_OPTIONS	Invalid Options - Product has required option groups. Required groups must have selected options.
INVALID_CUSTOM_PRICE	CustomPrice parameter is invalid
INVALID_SUBSCRIPTION	This subscription cannot be upgraded through API. Terminal has no renewal option and/or not a recurring subscription.
INVALID_SUBSCRIPTION_OPERATION	There is already a pending update for this subscription and details or there's another update request processed in the last hour.

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