

Extended Avangate API SOAP

**License Management,
New Orders,
Renewals, Upgrades**

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v. 1.1

Version History:

Version	Comments
1.0 / 17-05-2012	Initial Release
1.1 / 23-05-2012	Extended and detailed the error messages for the setLicenseUpgrade method. Added extra details for the getContents method.

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License Management SOAP

The License Management SOAP gives you the possibility to manage the licenses by sending SOAP requests to <https://secure.avangate.com/api/merchant/>. Full service description is available at <https://secure.avangate.com/api/merchant/?wsdl>.

The Avangate API is currently available only for eStore orders.

1 login method

login(MerchantCode, Date, Hash)

Input	
MerchantCode	Your merchant identifier (received from Avangate).
Date	UTC ISO Date format (e.g. 2010-01-01 12:13:14)
Hash	Calculated HMAC_MD5 signature based on MerchantCode and Date, using your secret key (see example below).
Output	
SessionID	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:

```
$orderClient = 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 = $orderClient->login($merchantCode, $now, $SessionID);
} 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 getLicense method

Use this method to get the license information based on the Avangate License Reference. **getLicense** (SessionID, LicenseRef)

Input	
SessionID	Session identifier, which is the output of the Login method. Session identifier string. An exception will be thrown if the values are incorrect.
LicenseRef	Avangate License Reference
Output	
License Object	An object with the following structure. An exception will be thrown if the values are incorrect.

Get the details for a specific license:

```
$licenseRef = 'ABC1ABC1CC'; //the 10 digit License Code
```

```
//call the specific function
```

```
$result = $client->getLicense($SessionID, $licenseRef);
```

```
print_r($result);
```

License Object Structure

	Type	Description
LicenseCode	String	Avangate License Reference
StartDate	String	License start date
ExpirationDate	String	License expiration date
RecurringEnabled	String	possible values: YES/NO
SKU	String	Product SKU
LicenseStatus	String	possible values: ENABLED/DISABLED
Product	Object	Associated product (see below)
Customer	Object	Customer details (see below)
Array of LicenseHistory	Array of objects	See details below
ActivationInfo	Object	See details below
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

Product Object Structure

	Type	Description
ProductCode	String	Unique Product Code
ProductId	String	Avangate Product ID
ProductName	String	Product Name
ProductVersion	String	Product Version
ProductQuantity	String	Ordered quantity

Customer Object Structure

	Type	Description
FirstName	String (40)	Client's first name
LastName	String(40)	Client's last name
Email	String (40)	Client's email

Company	String(50)	Company name
Phone	String(40)	Client's phone number
Fax	String(40)	Client's fax number
Address1	String(100)	Client's address line1
Address2	String(100)	Client's address line2
Zip	String(20)	Zip code
City	String(30)	Client's city
State	String(30)	Client's state
CountryCode	String(2)	Client's country code(ISO 3166 two-letter code)
Language	String	Client's language (ISO 639-1 two-letter code)

LicenseHistory Object Structure

	Type	Description
ReferenceNo	String	Reference number of associated order
Type	String	Change type: SALE/RENEWAL/UPGRADE
LicenseCode	String	Avangate License Reference
StartDate	String	Date(YYYY-MM-DD)
ProductSKU	String	Product SKU
ExpirationDate	String	Date(YYYY-MM-DD)

ActivationInfo Object Structure

	Type	Description
Array of Codes	Array of objects	See below
Description	String	Delivery description

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	Integer	File size

ExtraInfo Object Structure		
	Type	Description
Label	String	
Type	String	
Value	String	

getLicense	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_LICENCE	Invalid license

3 updateLicense method

Use this method to update license data.

updateLicense(SessionID, License)

Fields that can be modified:

ExpirationDate	String	Date(YYYY-MM-DD)
RecurringEnabled	String	possible values: NO
LicenseStatus	String	possible values: ENABLED/DISABLED
Customer	Object	All values can be modified
Input		
SessionID	Session identifier string. An exception will be thrown if the values are incorrect.	
License	Modified License Object	
Output		
Result(boolean)	TRUE if the update is successful, otherwise an exception will be thrown.	

updateLicense	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_LICENCE	Invalid license
INVALID_EXPIRATION_DATE	Invalid expiration date provided
INVALID_STATUS_VALUE	Invalid LicenseStatus property set (please use DISABLED/ENABLED)

4 disableLicense method

Use this method to disable a license.

disableLicense(SessionID, LicenseRef)

Input	
SessionID	Session identifier string. An exception will be thrown if the values are incorrect.
LicenseRef	String
Output	
Result(boolean)	TRUE if the update is successful, otherwise an exception will be thrown.

Disable license:

```
$orderClient = 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 = $orderClient->login($merchantCode, $now, $SessionID);

try {
    $result = $client->disableLicense($SessionID, "1234567"); //enter the Avangate
    license reference number
    print_r($result);
} catch (SoapFault $e) {
    echo "error: " . $e->getMessage();
}
```

disableLicense	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_LICENCE	Invalid license
INVALID_LICENCE_OPERATION	Cannot disable already disabled license
INTERNAL_ERROR	Cannot save license, null, Cannot disable license

5 enableLicense method

Use this method to enable one license.

enableLicense(SessionID, LicenseRef)

Input	
SessionID	Session identifier string. An exception will be thrown if the values are incorrect.
LicenseRef	String
Output	
Result (boolean)	TRUE if the update is successful, otherwise an exception will be thrown.

enableLicense	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_LICENCE	Invalid license
INVALID_LICENCE_OPERATION	Cannot disable already disabled license
INTERNAL_ERROR	Cannot save license, null, Cannot disable license

6 disableLicenseRecurring method

Use this method to disable subscriptions recurring licenses.

disableLicenseRecurring(SessionID, LicenseRef)

Input	
SessionID	Session identifier string. An exception will be thrown if the values are incorrect.
LicenseRef	String
Output	
Result (boolean)	TRUE if the update is successful, otherwise an exception will be thrown.

disableLicenseRecurring	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_LICENCE	Invalid license
INVALID_LICENCE_OPERATION	Cannot disable already disabled license
INTERNAL_ERROR	Cannot save license, null, Cannot disable license

7 extendLicense method

Use this method to change license expiration date.

extendLicense(SessionID, LicenseRef, Days)

Input	
SessionID	Session identifier string. An exception will be thrown if the values are incorrect.
LicenseRef	String
Days	Integer
Output	
Result (boolean)	TRUE if the update is successful, otherwise an exception will be thrown.

extendLicense	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_LICENCE	Invalid license
INVALID_LICENCE_OPERATION	Cannot extend license with 0 (zero) days
INVALID_LICENCE_OPERATION	Cannot extend Lifetime license
INTERNAL_ERROR	Cannot save license, null, Set expiration date failed

8 updateLicenseCustomer method

Use this method to change customer data.

updateLicenseCustomer(SessionID, LicenseRef)

Input	
SessionID	Session identifier string. An exception will be thrown if the values are

	incorrect.
LicenseRef	String
Customer	Object
Output	
Result (boolean)	TRUE if the update is successful, otherwise an exception will be thrown.

updateLicenseCustomer	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_LICENCE	Invalid license
INVALID_COUNTRY	Invalid customer country code
INVALID_CUSTOMER_EMAIL	Invalid email provided
INTERNAL_ERROR	Cannot save license, null, Cannot disable license

9 searchLicense method

Use this method search for licenses.

searchLicense(SessionID, SearchBy, SearchString)

Input	
SessionID	Session identifier string. An exception will be thrown if the values are incorrect.
SearchBy	String(EMAIL / DELIVERED_CODE)
SearchString	String
Output	
Array of License Objects	

Search for a license:

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

searchLicense	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_SEARCH	Invalid search field. Please use EMAIL / DELIVERED_CODE
INVALID_SEARCH	Invalid search value. Please enter a string for search
INVALID_SEARCH	Invalid email

Place a new order through API

Use the API to enable shoppers to place new orders using VISA and MasterCard credit/debit cards and PayPal.

1 login method

login(MerchantCode, Date, Hash)

Input	
MerchantCode	Your merchant identifier (received from Avangate).
Date	UTC ISO Date format (e.g. 2010-01-01 12:13:14)
Hash	Calculated HMAC_MD5 signature based on MerchantCode and Date, using your secret key (see example below).
Output	
SessionID	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:

```
$orderClient = 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 = $orderClient->login($merchantCode, $now, $SessionID);
} 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 to add a product ID, price options, and quantity details to the [Avangate Shopping Cart](#).

addProduct(Hash, ProductId, Quantity, PriceOptions, Currency)

Input		
SessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
ProductId	Integer	Avangate Product ID – the product ID from Avangate’s database
Quantity	Integer	Number of units
PriceOptions	String	Concatenated product price options
Currency	String	Currency used for the prices of products added to cart. The currency ISO code to be used for the payment – ISO 4217.
Output		
Result	boolean	True or false

Add a product to the Avangate Cart:

```
$productId = the ID of the product;
$quantity = 2;
$priceOptions = '3yrs,gold';
try {
    $orderClient->addProduct($sessionId, $productId, $quantity, $priceOptions);
} catch (SoapFault $e) {
    echo "Error: " . $e->getMessage();
}
```

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) added to cart or to delete products 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	Integer	Avangate Product ID – the product ID from Avangate's database
Quantity	Integer (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 from the Avangate Cart:

```
$productId = the ID of the product;
```



```
try {
    $orderClient->deleteProduct($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 {
    $orderClient->deleteProduct($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 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
--------	---------	---------------

clearProducts

Error	Description
FORBIDDEN	Invalid SessionID provided

5 setBillingDetails

Use this method to set the billing details for 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	String	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
Company	String	Company name. Can be null for end users. When present, FiscalCode must also be provided.
PostalCode	String	Postal code
State	String	The state in the shopper's country
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 = $orderClient->setBillingDetails($sessionID, $oBilling);
} catch (SoapFault $e) {
    echo "Invalid Billing information: " . $e->getMessage();
}
```

setBillingDetails

Error	Description
FORBIDDEN	Invalid SessionID provided
VAT_COUNTRY_MISMATCH	The billing country doesn't match the VAT country.

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

setDeliveryDetails	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_COUNTRY	The delivery country code is not in the list of the vendor's countries list.

7 setCurrency

This method will set up the display currency for product prices presented in the cart. setCurrency defines the currency displayed by the shopping cart for product listings.

Methods such as setClientIP which is mandatory and setCurrency, setLangauge, setCountry, which are recommended since they involve shopper details, will be checked by Avangate. An exception will be thrown if the values are incorrect, and the ordering process will be interrupted. When exceptions are thrown, the methods will return an error message instead of their specific output. In such scenarios it's necessary for the method to be re-invoked.

setCurrency(SessionID, Currency)

Input		
SessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
Currency	String	Preselected display currency to be used for the

		prices presented in the cart. 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 = $orderClient->setLanguage($sessionID, 'EN');
    $status = $orderClient->setCountry($sessionID, 'GB');
    $status = $orderClient->setCurrency($sessionID, 'EUR');
    $status = $orderClient->setClientIP($sessionID, $_SERVER['REMOTE_ADDR']);
} catch (SoapFault $e) {
    echo "Error: " . $e->getMessage();
}
```

setCurrency	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_CURRENCY	The currency code is not in the list of the vendor's currencies list.

8 setClientIP – mandatory

Use this method to set the IP address of the shopper. **setClientIP** is mandatory because it's used in the Avangate anti-fraud process.

setClientIP(SessionID, IP)

Methods such as setClientIP which is mandatory and setCurrency, setLangauge, setCountry, which are recommended since they involve shopper details, will be checked by Avangate. An exception will be thrown if the values are incorrect, and the ordering process will be interrupted. When exceptions are thrown, the methods will return an error message instead of their specific output. In such scenarios it's necessary for the method to be re-invoked.

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 example is available [here](#).

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

9 setCountry

This method configures the country details of the cart in accordance with the location of the shopper. It's the equivalent of the country drop down menu from the Avangate cart and used only for localization purposes.

setCountry(SessionID, IsoCountryCode)

Methods such as setClientIP which is mandatory and setCurrency, setLangauge, setCountry, which are recommended since they involve shopper details, will be checked by Avangate. An exception will be thrown if the values are incorrect, and the ordering process will be interrupted. When exceptions are thrown, the methods will return an error message instead of their specific output. In such scenarios it's necessary for the method to be re-invoked.

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). Preselected display country to be used for the shopping cart. 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 example is available [here](#).

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

10 setLanguage

This method will set up the language to be used for returned texts. setLanguage defines the localization of the shopping cart.

setLanguage(SessionID, IsoLang)

Methods such as setClientIP which is mandatory and setCurrency, setLangauge, setCountry, which are recommended since they involve shopper details, will be checked by Avangate. An exception will be thrown if the values are incorrect, and the ordering process will be interrupted. When exceptions are thrown, the methods will return an error message instead of their specific output. In such scenarios it's necessary for the method to be re-invoked.

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 example is available [here](#).

setLanguage	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_LANGUAGE	The language code is not in the list of the vendor's languages list.

11 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 – CC (credit/debit card), CCNOPCI (credit/debit card for non-PCI certified merchants), PAYPAL
Currency	String	The currency ISO code to be used for the payment – ISO 4217.
CardPayment		Cardholder details object with the structure defined below.
CustomerIP	String	Shopper IP

CardPayment Object Structure		
CardNumber	String	The credit/debit card number
CardType	String	VISA, MASTERCARD, MAESTRO
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/CWV2.
--	--	--

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 = '1234';
$oMethod->ExpirationMonth = '04';
$oMethod->ExpirationYear = '14'; //dummy credit card data
$oMethod->HolderName = 'John Doe'; //cardholder name

$oPayment = new stdClass();
$oPayment->Type = 'CCVISAMC';
$oPayment->Currency = 'EUR';
$oPayment->CustomerIP = $_SERVER['REMOTE_ADDR'];
$oPayment->PaymentMethod = $oMethod;

try {
    $status = $orderClient->setPaymentDetails($sessionId, $oPayment);
} catch (SoapFault $e) {
    echo "Invalid Payment information: " . $e->getMessage();
}
```

setPaymentDetails	
Error	Description
FORBIDDEN	Invalid SessionID provided
PAYMENT_ERROR	The payment method is not supported. 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.
ORDER_REF_MISMATCH	The reference number does not belong to a valid order.
CCID_ERROR	Invalid CVV2/CVC2 code
CARD_NUMBER_ERROR	The card type does not match the card number or the number is invalid.

CARD_DATE_ERROR	The card date is invalid or has expired.
CARD_HOLDER_ERROR	Invalid card holder name

12 setStaticPrice

Use this method to set **On the fly** pricing.

setStaticPrice(SessionID, ProductId, StaticPrice)

Input		
SessionID	String	Session identifier string. SessionID will not expire, but an exception will be thrown if the values are incorrect.
ProductId	String	The product ID from Avangate's database
StaticPrice	Decimal	On the fly price
Output		
Result	boolean	True or false

setStaticPrice	
Error	Description
FORBIDDEN	Invalid SessionID provided
PRICE_ERROR	Invalid price value
PRODUCT_ERROR	The product ID doesn't exist in the session.

13 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. SessionID will not expire, but an exception will be thrown if the values are incorrect.

Output		
Contents	Object	Object detailing products added to cart – structure described below.

Contents Object Structure		
NetCurrency	String	Currency for the total value of the order, taxes not included. The currency ISO code to be used for the payment – ISO 4217.
FinalCurrency	String	Currency to be used for total value of the order, including taxes. The currency ISO code to be used for the payment – ISO 4217.
FinalPrice	Decimal	The total value of the order, including taxes.
NetPrice	Decimal	The total value of the order, taxes not included.
Products	Array	Contains a list of CartItem objects – structure detailed below.

CartItem Object Structure		
ProductId	Integer	Avangate Product ID – the product ID from Avangate's database
ProductList	Object	Returns all active products available. Object structure described below.
Quantity	Integer	Number of units
PriceOptions	Array	Array of Price Options objects
Price	Object	Pricing details object – structure detailed below.

ProductsList 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	Decimal	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.
GiftOption	boolean	True or false depending on whether the product can be gifted or not.
GroupName	String	The name of the Product Group
IdGroup	Integer	Product Group ID number
Languages	anyType	Array of ISO language codes for the product – ISO 639-1
ProductCode	String	Product code
ProductId	Integer	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

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	Decimal	Price with taxes
NetPrice	Decimal	Price without taxes

getContents

Error	Description
FORBIDDEN	Invalid SessionID provided

14 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: COMPLETE, AUTHRECEIVED, PENDING, CANCELED, REVERSED, REFUND, DELIVERED, FINISHED
AutoRenewal	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 payment.

Placing an order:

```
$order = $orderClient->placeOrder($sessionID);
```

At this moment in time, the Avangate API does not offer a method designed to support the cancelling of auto-renewals.

placeOrder	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_LANGUAGE	No default language has been provided.
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.

1.5 getOrder

Use this method to get additional details of an order including reference number, status, autorenewal and settings.

getOrder(SessionID, RefNo)

Input		
SessionID	String	Session identifier string. SessionID will not expire, but 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, DELIVERED, FINISHED
AutoRenewal	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 payment.

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 - default and relevant to the current help section is CCNOPCI).
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, DELIVERED, FINISHED; 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://secure.avangate.com/api/order/setpaymentdetails.php?finish=true&redir={*Current
URL*}">
<input type="hidden" value="{* Session ID *}" name="hash" />
<input type="hidden" name="method" value="CCNOPCI" />
<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="MC"/>
<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"/>
</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
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, DELIVERED, FINISHED; 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://secure.avangate.com/api/order/setpaymentdetails.php?redir={*Current
URL*}">
<input type="hidden" value="{* Session ID *}" name="hash" />
<input type="hidden" name="method" value="PAYPAL" />
<input type="email" name="email" value="" /> <!-- This can be hidden and pre-filled with
the Billing email address -->
<input type="hidden" name="currency" value="" />
</form>
```

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

16 getOrderStatus

Use this method only after **placeOrder**, to get the order status.

getOrderStatus(SessionID, RefNo)

Input		
SessionID	String	Session identifier string. An exception will be thrown if the values are incorrect.
RefNo	String	Order reference number
Output		
Result	String	Order status: COMPLETE, AUTHRECEIVED, PENDING, CANCELED, REVERSED, REFUND, DELIVERED, FINISHED

getOrderStatus	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_REFERENCE	The order reference does not exist.

17 getProductById

Use this method to retrieve more information in accordance with the 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	Integer	The product ID from Avangate's database
Output		
ProductCompleteInfo	Object	Complete product information – object structure detailed below.

ProductCompleteInfo 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	Decimal	Product price
GiftOption	boolean	True or false depending on whether the product can be gifted or not.
GroupName	String	The name of the Product Group
IdGroup	Integer	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	Integer	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
SystemRequirements	String	System requirements
TrialDescription	String	Descriptive text entered for trials.
TrialURL	String	The URL from where shoppers can download trial software.

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 {
    $orderClient->getProductById($sessionID, $productID);
} catch (SoapFault $e) {
    echo "Error: " . $e->getMessage();
}
```

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

18 searchProducts

Use this method to retrieve products, by searching the items which match a list of filters.

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		
ProductsList	Array	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

ProductsList 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	Decimal	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.
GiftOption	boolean	True or false depending on whether the product can be gifted or not.
GroupName	String	The name of the Product Group
IdGroup	Integer	Product Group ID number
Languages	anyType	Array of ISO language codes for the product – ISO 639-1
ProductCode	String	Product code
ProductId	Integer	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

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 {
    $orderClient->searchProducts($sessionID, $searchOptions);
} catch (SoapFault $e) {
    echo "Error: " . $e->getMessage();
}
```

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

19 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(MerchantCode, ProductId, Quantity, PriceOptions, Currency)

Input		
MerchantCode	String	The merchant identifier received from Avangate.
ProductId	Integer	The product ID from Avangate's database
Quantity	Integer	Number of units
PriceOptions	String	ProductDataTypePriceOptionsGroupItemArray
Output		
Price	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	Decimal	Price with taxes
NetPrice	Decimal	Price without taxes

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

20 getAvailableCountries

Use this method to get a list of countries enabled in GAP for their specific account.

getAvailableCountries(SessionID)

Input		
SessionID	String	Session identifier string. SessionID will not expire, but 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.

21 getAvailableCurrencies

Use this method to get a list of currencies enabled in GAP for their specific account.

getAvailableCurrencies(SessionID)

Input		
SessionID	String	Session identifier string. SessionID will not expire, but 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.

22 getAvailableLanguages

Use this method to get a list of languages enabled in GAP for their specific account.

getAvailableLanguages(SessionID)

Input		
SessionID	String	Session identifier string. SessionID will not expire, but 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.

Extend a subscription license through API

1 login method

login(MerchantCode, Date, Hash)

Input	
MerchantCode	Your merchant identifier (received from Avangate).
Date	UTC ISO Date format (e.g. 2010-01-01 12:13:14)
Hash	Calculated HMAC_MD5 signature based on MerchantCode and Date, using your secret key (see example below).
Output	
SessionID	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:

```
$orderClient = 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 = $orderClient->login($merchantCode, $now, $SessionID);
} 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 getLicensePaymentDetails method

Use this method to retrieve information regarding renewals based on Avangate License Reference.

getLicensePaymentDetails(SessionID, LicenseRef)

Input	
SessionID	Session identifier string. SessionID will not expire, but an exception will be thrown if the values are incorrect.
LicenseRef	String, the Avangate License Reference unique identifier
Output	
CanAutoRenew	YES = automatic renewal is enabled for the product. NO = automatic renewal is not enabled for the product.
ManualRenewalLink	The follow up link is displayed if automatic renewal is not enabled.

getLicensePaymentDetails	
Error	Description
FORBIDDEN	Invalid SessionID provided
FORBIDDEN	This feature is not available for your account
INVALID_LICENCE	Invalid license

3 getRenewalPrice method

Use this method to obtain and validate the purchase price.

getRenewalPrice(SessionID, LicenseRef, Price, Currency)

Input	
SessionID	Session identifier string. SessionID will not expire, but an exception will be thrown if the values are incorrect.
LicenseRef	String, the Avangate License Reference unique identifier
Price	Requested price. - float -
Currency	Requested price currency. - string -
Output	
FinalPrice	Total price with taxes included - float -
FinalCurrency	Original order currency will be used.
NetPrice	Net price (without taxes). – float -
NetCurrency	Original order currency

Get the Renewal price for a License:

```

$licenseRef = 'ABC1ABC1CC'; //the 10 digit License Code
$CustomPrice = 100; //The Desired amount you want to charge the renewal
$Currency = 'EUR'; //The desired Currency

//call the specific function
$result = $client->getRenewalPrice($SessionID, $licenseRef, $CustomPrice,
$Currency);
//print the result array
print_r($result);
/*
 * stdClass Object
 * (
 *     [NetCurrency] => EUR
 *     [FinalCurrency] => EUR
 *     [FinalPrice] => 119
 *     [NetPrice] => 100
 * )
 * FinalCurrency = The currency in which the transaction will happen

```

* FinalPrice - The \$CustomPrice converted to the transaction currency
*/

getRenewalPrice	
Error	Description
FORBIDDEN	Invalid SessionID provided
FORBIDDEN	This feature is not available for your account
INVALID_LICENCE	Invalid license
INVALID_LICENCE	License cannot be renewed automatically
INVALID_PRICE	Price has to be numeric
INVALID_CURRENCY	The currency provided is not supported

4 renewLicense method

Use this method to renew a license.

renewLicense(SessionID, LicenseRef, Days, Price, Currency)

Input	
SessionID	Session identifier string. SessionID will not expire, but an exception will be thrown if the values are incorrect.
LicenseRef	String.
Days	Request license extension.
Price	Requested price. - float -. This is the Net price provided in the getRenewalPrice method
Currency	Requested price currency. - string -
Output	
Result (boolean)	TRUE if the license interrogation is successful, otherwise an exception will be thrown.

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

```
$licenseRef = 'ABC5DE08CC'; //the 10 digit License Code
$Days = 30; //Number of days you want to extend license duration at renewal
$CustomPrice = 120; //The Desired amount you want to charge the renewal
$Currency = 'EUR'; //The desired Currency - see getRenewalPrice method!
//call the specific function
```

```
$result = $client->renewLicense($SessionID, $licenseRef, $Days, $CustomPrice,
$Currency);
//result TRUE if successful
```

renewLicense	
Error	Description
FORBIDDEN	Invalid SessionID provided
FORBIDDEN	This feature is not available for your account
INVALID_LICENCE	Invalid license
INVALID_LICENCE	License cannot be renewed automatically
INVALID_LICENCE_OPERATION	Invalid extension period
INVALID_LICENCE_OPERATION	There is already a pending renewal for this license

5 setLicenseEmailSubscription

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

setLicenseEmailSubscription(SessionID, LicenseCode, Status)

Input	
SessionID	Session identifier string. SessionID will not expire, but an exception will be thrown if the values are incorrect.
LicenseCode	String - Avangate License Reference
Status	Boolean
Output	
Result	Boolean - TRUE or FALSE.

Suscribe/ Unsubscribe from license renewal notifications:

```
$licenseRef = 'ABC1ABC1CC'; //the 10 digit License Code
$Status = 1; //1 - Subscribe 0 - Unsubscribe
//call the specific function
$result = $client->setLicenseEmailSubscription($SessionID, $LicenseCode,
$Status);
//result TRUE if successful.
```

setLicenseEmailSubscription	
Error	Description
FORBIDDEN	Invalid SessionID provided
INVALID_LICENCE	Invalid license
INTERNAL_ERROR	Cannot save license, null, Cannot update license renewal notification setting

Upgrade a license through API

1 login method

login(MerchantCode, Date, Hash)

Input	
MerchantCode	Your merchant identifier (received from Avangate).
Date	UTC ISO Date format (e.g. 2010-01-01 12:13:14)
Hash	Calculated HMAC_MD5 signature based on MerchantCode and Date, using your secret key (see example below).
Output	
SessionID	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:

```
$orderClient = 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 = $orderClient->login($merchantCode, $now, $SessionID);
} 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 getLicenseProductUpgradeOptions

Use this method to retrieve upgrade options for a specific Avangate License Reference.

getLicenseProductUpgradeOptions(SessionID, LicenseRef)

Field Name	Description
SessionID	Session identifier string. SessionID will not expire, but an exception will be thrown if the values are incorrect.
LicenseRef	String - Avangate License Reference
Result (Array)	The array of products with specific upgrade options associated

Get the Upgrade Options for a specific License:

```
$licenseRef = 'ABC1ABC1CC'; //the 10 digit License Code
```

```
//call the specific function
```

```
$result = $client->getLicenseProductUpgradeOptions($SessionID, $licenseRef);
```

```
//print the result array
```

```
var_dump($result);
```


getLicenseProductUpgradeOptions	
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_LICENCE	Invalid license

3 getLicenseProductUpgradeOptionsPrice

getProductUpgradeOptionsPrice(SessionID, LicenseRef, ProductId, Currency, Options)

Input	
SessionID	Session identifier string. SessionID will not expire, but an exception will be thrown if the values are incorrect.
LicenseRef	String - Avangate License Reference.
ProductId	Integer - The product ID
Currency	Requested price currency. - string -
Options	String – ‘;’ separated list of ‘OptionValue’ returned by getLicenseProductUpgradeOptions 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	
BillingPrice	Float
BillingGrossPrice	Float
BillingCurrencyQuantity	String – The currency in which the order will be placed
Quantity	Integer – the mandatory quantity for the upgrade (you cannot make partial upgrades)
DisplayPrice	Float
DisplayGrossPrice	Float
DisplayCurrency	The display currency = Input Currency

Example of output:

[BillingPrice] => 496.64

```
[BillingGrossPrice] => 591
[BillingCurrency] => EUR
[Quantity] => 5
[DisplayPrice] => 2.115,68
[DisplayGrossPrice] => 2.517
[DisplayCurrency] => USD
```

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
$licenseRef = 'ABC1ABC1CC'; //the 10 digit License Code
$IdProduct = '1234567'; //The Product ID - usually obtained from the
getLicenseProductUpgradeOptions function
$options = '3UserOption;3GBOption'; // The option Value(s) selected -
separated by ';' - usually obtained from the getLicenseProductUpgradeOptions
function
$Currency = 'EUR'; // The currency in which you want the price displayed - can be
other than the billing currency

//call the specific function
$result = $client->getProductUpgradeOptionsPrice($SessionID, $licenseRef,
$IdProduct, $Currency, $Options);
//print the result array
var_dump($result);
```

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_LICENCE	Invalid license
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

4 setLicenseUpgrade

setLicenseUpgrade(SessionID, LicenseRef, ProductId, Options, CustomPrice)

Input	
SessionID	Session identifier string. SessionID will not expire, but an exception will be thrown if the values are incorrect.
LicenseRef	String - Avangate License Reference.
ProductId	Integer - The product ID
Options	String - ';' separated list of 'OptionValue' returned by getLicenseProductUpgradeOptions 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	Float – Currency is implied – the billing currency
Output	
Result(boolean)	True if order placement was successful

Place an Upgrade request:

```
// $SessionID - //Session login object obtained from calling the login method
$licenseRef = 'ABC1ABC1CC'; //the 10 digit License Code
$IdProduct = '1234567'; //The Product ID - usually obtained from the
getLicenseProductUpgradeOptions function
$options = '3UserOption;3GBOption'; // The option Value(s) selected -
separated by ';' - usually obtained from the getLicenseProductUpgradeOptions
function
$Currency = 'EUR'; // The currency in which you want the price displayed - can be
other than the billing currency
$CustomPrice = '23.66'; // Optional parameter - specifies a custom price for the
transaction
//call the specific function
$result = $client->setLicenseUpgrade($SessionID, $LicenseCode, $IdProduct,
$options, $CustomPrice);
//print the result array
//TRUE if successful
```

setLicenseUpgrade	
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_LICENCE	Invalid license: <ul style="list-style-type: none"> - Invalid license code; - The license is not associated to the account; - License 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_LICENCE	This license cannot be upgraded through API. Terminal has no renewal option and/or not a recurring license.
INVALID_LICENCE_OPERATION	There is already a pending update for this license and details or there's another update request processed in the last hour.

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