

Implementation Guide Web Services 3.1

Version 2.1

SMARTSMS Web Service 3.1

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SMARTSMS WEBSERVICES 3.1

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Implementation Guide SMARTSMS web services

1. SmartSMS Web service 3.1

1.1.1 Brief description

This document handles features in SMARTSMS 3.1 web services.
The general version for the SmartSMS (smartsms.nu) site is 3 even if the web services behind increases its versions.

With SMARTSMS 3.1 web services you can send SMS by calling a function on Internet.
There are several web services you can call depending on what you want to send.
To send SMS with SMARTSMS 3.1 web services you need to have a SMARTSMS 3 account (www.smartsms.nu).

Premium SMS service is closed for short number 72XXX, 2015-01-31.

1.1.2 New features in version 3.1

Parameter ContentCategory has changed name to ServiceCategory.
The ServiceCategory parameter works the same way as the old ContentCategory.

ServiceName is a new parameter for all premium SMS web services.

With the new ServiceName parameter, you are able to set a name on your premium SMS service that will be showed on your recipients operator invoice.

It's then easier for your premium recipients to see that they have bought.

If the ServiceName parameter is abused with bad language, your premium account will be closed down instantly.

All web service functions have lost the characters 30 in its name.

SendSimpleSMS30 is now called *SendSimpleSMS*.

The 3.1 web service has a new address:

`https://www.smartsms.nu/webservice31/smsservice.aspx`

Some other minor bugs are also fixed.

2. SMS user accounts

There are two different SMS accounts in SMARTSMS 3, prepaid or invoice account.

With the prepaid account you pay a pot that you use to send SMS.

With the invoice account you pay a monthly fee, you will then get an invoice with the amount

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of SMS you have send.

2.1.1 Prepaid SMS account

With the prepaid SMS account you need to prepay an amount to your SMS account before you can send any SMS.

You can make your payment with credit card or by a Swedish bankgiro.

For every SMS you send, the prepaid amount is reduced.
It works like a prepaid phone card.

You will receive an e-mail to your register e-mail address when your pot has reached a certain lower level.

You will also receive an e-mail to your register e-mail address when your pot is finish; your account cannot send anymore SMS before you have refilled your pot.

You can always login to your account on *smartsms.se* to check the current amount on your pot.

You have to be sure that your pot is not empty.

If your pot is empty you are not able to send any SMS from your account.

You have to use your prepaid account at least once a year, if not your account will be removed and your pot will be lost (send at least one SMS every 365 days).

You will get several warnings to your register e-mail address before your account is removed and your money pot is lost.

2.1.2 Invoice SMS account

With invoice SMS account you pay a monthly fee.

The invoice account is most suitable for company use.

You can send SMS without worrying about that your pot is empty.

You will then get an invoice with the amount of SMS you have send since last invoice.

There are also some extra functions in SMARTSMS 3 that's only included in the invoice account.

3. Web services

Web Services denotes the web-based computer programs that communicate and collaborate dynamically with other web services in the same way that a person can surf various web sites.

World Wide Web Consortium defines a Web service as follows:

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A Web service is a computer program that is identified by a URI, whose interfaces and bindings can be defined, described and discovered as XML objects. A Web service supports direct interactions with other software agents using XML-based messages exchanged via Internet-based protocols.

Web services today are frequently just Application Programming Interfaces (API) or web APIs that can be accessed over a network, such as the Internet, and executed on a remote system hosting the requested services.

3.1.1 SMARTSMS 3.1 web service URI

The web services API is described in the WSDL file.

The traffic to the web services are protected by a SSL certificate.

The web URI and the location of the WSDL file for SMARTSMS 3.1 web service is:

<https://www.smartsms.nu/webservice31/smsservice.asmx>

3.1.2 Web service description

At <https://www.smartsms.nu/webservice31/smsservice.asmx> you can see the operations that are supported.

3.1.3 *SendSimpleSMS*

Send simple SMS request.

The API call to `SendSimpleSMS` should contain the following parameters.

```
SendSimpleSMS xmlns="
https://www.smartsms.nu/webservice31/SmsService.asmx/"
OriginatingAddress as string
DestinationAddress as string
UserData as string
ConnectName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
Password as string
```

The API response from `SendSimpleSMS` contains the following parameters.

```
SendSimpleSMSResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendSimpleSMSResult
```

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```
UserReference as string
MessageId as string
GateWayId as string
ResponseCode as int
ReasonCode as int
ResponseMessage as string
TemporaryError as boolean
BillingStatus as int
VAT as double
SmsCost as double
```

3.1.4 SendSimpleFlashSMS

Send simple flash SMS request.

The API call to SendSimpleFlashSMS should contain the following parameters.

```
SendSimpleFlashSMS
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx"
OriginatingAddress as string
DestinationAddress as string
UserData as string
ConnectName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
PassWord as string
```

The API response from SendSimpleFlashSMS contains the following parameters.

```
SendSimpleFlashSMSResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendSimpleFlashSMSResult
UserReference as string
MessageId as string
GateWayId as string
ResponseCode as int
ReasonCode as int
ResponseMessage as string
TemporaryError as boolean
BillingStatus as int
VAT as double
SmsCost as double
```

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3.1.5 SendSimpleConcatenatedSMS

Send simple concatenated SMS request.

The API call to `SendSimpleConcatenatedSMS` should contain the following parameters.

```
SendSimpleConcatenatedSMS xmlns="
http://www.smartsms.nu/webservice31/smsservice.asmx/"
OriginatingAddress as string
DestinationAddress as string
UserData as string
UserDataHeader as string
ConnectName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
Password as string
```

The API response from `SendSimpleConcatenatedSMS` contains the following parameters.

```
SendSimpleConcatenatedSMSResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendSimpleConcatenatedSMSResult
UserReference as string
MessageId as string
GateWayId as string
ResponseCode as int
ReasonCode as int
ResponseMessage as string
TemporaryError as boolean
BillingStatus as int
VAT as double
SmsCost as double
```

3.1.6 SendAdvancedSMS

Send advanced SMS request.

The API call to `SendAdvancedSMS` should contain the following parameters.

```
SendAdvancedSMS
xmlns=" http://www.smartsms.nu/webservice31/smsservice.asmx/"
OriginatingAddress as string
DestinationAddress as string
```

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```
UserData as string
UserDataHeader as string
DCS as int
RelativeValidityTime as int
DeliveryTime as string
ConnectName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
PassWord as string
```

The API response from SendAdvancedSMS contains the following parameters.

```
SendAdvancedSMSResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendAdvancedSMSResult>
UserReference as string
MessageId as string
GateWayId as string
ResponseCode as int
ReasonCode as int
ResponseMessage as string
TemporaryError as boolean
BillingStatus as int
VAT as double
SmsCost as double
```

3.1.7 SendSimpleTimeScheduledSMS

Send simple time scheduled SMS request.

The API call to SendSimpleTimeScheduledSMS should contain the following parameters.

```
SendSimpleTimeScheduledSMS
xmlns="http://www.smartsms.nu/webservice31/SmsService.asmx/"
OriginatingAddress as string
DestinationAddress as string
UserData as string
ConnectName as string
ServiceCategory as string
Charge as string
UserReference as string
DeliveryTime as string
RelativeValidityTime as int
```

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```
UserName as string
PassWord as string
```

The API response from `SendSimpleTimeScheduledSMS` contains the following parameters.

```
SendSimpleTimeScheduledSMSResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendSimpleTimeScheduledSMSResult
UserReference as string
MessageId as string
GateWayId as string
ResponseCode as int
ReasonCode as int
ResponseMessage as string
TemporaryError as boolean
BillingStatus as int
VAT as double
SmsCost as double
```

3.1.8 `SendSimplePushSMS`

Send simple push SMS request.

The API call to `SendSimplePushSMS` should contain the following parameters.

```
SendSimplePushSMS
xmlns="http://www.smartsms.nu/webservice31/SmsService.asmx/"
OriginatingAddress as string
DestinationAddress as string
UrlTitle as string
URL as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
PassWord as string
```

The API response from `SendSimplePushSMS` contains the following parameters.

```
SendSimplePushSMSResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendSimplePushSMSResult
UserReference as string
MessageId as string
```

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```
GatewayId as string
ResponseCode as int
ReasonCode as int
ResponseMessage as string
TemporaryError as boolean
BillingStatus as int
VAT as double
SmsCost as double
```

3.1.9 SendAdvancedPushSMS

Send simple advanced push SMS request.

The API call to SendAdvancedPushSMS should contain the following parameters.

```
SendAdvancedPushSMS
xmlns="http://www.smartsms.nu/webservice31/SmsService.asmx/"
OriginatingAddress as string
DestinationAddress as string
UrlTitle as string
URL as string
RelativeValidityTime as int
DeliveryTime as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
Password as string
```

The API response from SendAdvancedPushSMS contains the following parameters.

```
SendAdvancedPushSMSResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/">
SendAdvancedPushSMSResult
UserReference as string
MessageId as string
GatewayId as string
ResponseCode as int
ReasonCode as int
ResponseMessage as string
TemporaryError as boolean
BillingStatus as int
VAT as double
SmsCost as double
```

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3.1.10 SendAdvancedPremiumPushSMS

Send simple advanced premium push SMS request.

The API call to `SendAdvancedPremiumPushSMS` should contain the following parameters.

```
SendAdvancedPremiumPushSMS
xmlns="http://www.smartsms.nu/webservice31/SmsService.asmx/"
OriginatingAddress as string
DestinationAddress as string
UrlTitle as string
URL as string
RelativeValidityTime as int
DeliveryTime as string
TariffClass as int
ReferenceId as string
ServiceName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
PassWord as string
```

The API response from `SendAdvancedPremiumPushSMS` contains the following parameters.

```
SendAdvancedPremiumPushSMSResponse
xmlns="http://www.smartsms.nu/webservice31/SmsService.asmx/"
SendAdvancedPremiumPushSMSResult
userReference as string
messageId as string
responseCode as int
reasonCode as int
responseMessage as string
temporaryError as boolean
billingStatus as int
VAT as double
smsCost as double
```

3.1.11 SendSimplePremiumSMS

Send simple premium SMS request.

The API call to `SendSimplePremiumSMS` should contain the following parameters.

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```
SendSimplePremiumSMS
xmlns="http://www.smartsms.nu/webservice31/SmsService.asmx/">
OriginatingAddress as string
DestinationAddress as string
UserData as string
TariffClass as int
ReferenceId as string
ServiceName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
PassWord as string
```

The API response from `SendSimplePremiumSMS` contains the following parameters.

```
SendSimplePremiumSMSResponse
xmlns="http://www.smartsms.nu/webservice31/SmsService.asmx/">
SendSimplePremiumSMSResult
userReference as string
messageId as string
responseCode as int
reasonCode as int
responseMessage as string
temporaryError as boolean
billingStatus as int
VAT as double
smsCost as double
```

3.1.12 *SendAdvancedPremiumSMS*

Send advanced premium SMS request.

The API call to `SendAdvancedPremiumSMS` should contain the following parameters.

```
SendAdvancedPremiumSMS
xmlns="http://www.smartsms.nu/webservice31/SmsService.asmx/">
OriginatingAddress as string
DestinationAddress as string
UserData as string
UserDataHeader as string
DCS as int
RelativeValidityTime as int
DeliveryTime as string
TariffClass as int
```

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```

ReferenceId as string
ServiceName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
PassWord as string

```

The API response from `SendAdvancedPremiumSMS` contains the following parameters.

```

SendAdvancedPremiumSMSResponse
xmlns="http://www.smartsms.nu/webservice31/SmsService.asmx/">
SendAdvancedPremiumSMSResult>
userReference as string
messageId as string
responseCode as int
reasonCode as int
responseMessage as string
temporaryError as boolean
billingStatus as int
VAT as double
smsCost as double

```

3.1.13 *SendAdvancedPremiumSMSASP*

Send advanced premium SMS request with a response parameter as single string.
The API call to `SendAdvancedPremiumSMSASP` should contain the following parameters.

```

SendAdvancedPremiumSMSASP
xmlns="http://www.smartsms.nu/webservice31/SmsService.asmx/">
OriginatingAddress as string
DestinationAddress as string
UserData as string
UserDataHeader as string
DCS as int
RelativeValidityTime as int
DeliveryTime as string
TariffClass as int
ReferenceId as string
ServiceName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string

```

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PassWord as **string**

The API response from `SendAdvancedPremiumSMSASP` contains the following parameters.

```
SendAdvancedPremiumSMSASPSResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendAdvancedPremiumSMSASPSResult as string
```

The `SendAdvancedPremiumSMSASPSResult` response string contains the following parameters in this order:

```
userReference
messageId
gatewayId
responseCode
reasonCode
responseMessage
temporaryError
billingStatus
VAT
smsCost
```

The response parameters are separated by a ; character.
Look at *Response parameter description* to find out more about each parameter.

3.1.14 `SendAdvancedPushSMSASP`

Send advanced push SMS request with a response parameter as single string.
The API call to `SendAdvancedPushSMSASP` should contain the following parameters.

```
SendAdvancedPushSMSASP
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
OriginatingAddress as string
DestinationAddress as string
UrlTitle as string
URL as string
RelativeValidityTime as int
DeliveryTime as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
PassWord as string
```

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The API response from SendAdvancedPushSMSASP contains the following parameters.

```
SendAdvancedPushSMSASPResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendAdvancedPushSMSASPResult as string
```

The SendAdvancedPremiumSMSASPResponse response string contains the following parameters in this order:

```
userReference
messageId
gatewayId
responseCode
reasonCode
responseMessage
temporaryError
billingStatus
VAT
smsCost
```

The response parameters are separated by a ; character.

Look at *Response parameter description* to find out more about each parameter.

3.1.15 SendAdvancedSMSASP

Send advanced SMS request with a response parameter as single string.

The API call to SendAdvancedSMSASP should contain the following parameters.

```
SendAdvancedSMSASP
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
OriginatingAddress as string
DestinationAddress as string
UserData as string
UserDataHeader as string
DCS as int
RelativeValidityTime as int
DeliveryTime as string
ConnectName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
Password as string
```

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The API response from `SendAdvancedSMSASP` contains the following parameters.

```
SendAdvancedSMSASPResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendAdvancedSMSASPSResult as string
```

The `SendAdvancedSMSASPResponse` response string contains the following parameters in this order:

```
userReference
messageId
gatewayId
responseCode
reasonCode
responseMessage
temporaryError
billingStatus
VAT
smsCost
```

The response parameters are separated by a ; character.

Look at *Response parameter description* to find out more about each parameter.

3.1.16 `SendSimpleConcatenatedSMSASP`

Send simple concatenated SMS request with a response parameter as single string. The API call to `SendSimpleConcatenatedSMSASP` should contain the following parameters.

```
SendSimpleConcatenatedSMSASP
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
OriginatingAddress as string
DestinationAddress as string
UserData as string
UserDataHeader as string
ConnectName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
PassWord as string
```

The API response from `SendSimpleConcatenatedSMSASP` contains the following parameters.

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Mottagare (avd nr, namn, geografisk placering)/Receiver (dept, name)				

```
SendSimpleConcatenatedSMSASPSResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendSimpleConcatenatedSMSASPSResult as string
```

The SendSimpleConcatenatedSMSASPSResponse response string contains the following parameters in this order:

```
userReference
messageId
gateWayId
responseCode
reasonCode
responseMessage
temporaryError
billingStatus
VAT
smsCost
```

The response parameters are separated by a ; character.

Look at *Response parameter description* to find out more about each parameter.

3.1.17 SendSimpleSMSASP

Send simple SMS request with a response parameter as single string.

The API call to SendSimpleSMSASP should contain the following parameters.

```
SendSimpleSMSASP
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
OriginatingAddress as string
DestinationAddress as string
UserData as string
ConnectName as string
ServiceCategory as string
Charge as string
UserReference as string
UserName as string
PassWord as string
```

The API response from SendSimpleSMSASP contains the following parameters.

```
SendSimpleSMSASPSResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
SendSimpleSMSASPSResult as string
```

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The SendSimpleSMSASPSResponse response string contains the following parameters in this order:

```
userReference
messageId
gateWayId
responseCode
reasonCode
responseMessage
temporaryError
billingStatus
VAT
smsCost
```

The response parameters are separated by a ; character.
Look at *Response parameter description* to find out more about each parameter.

3.1.18 HLRLookup

The HLR lookup is a number validation service that performs a check on a mobile number.

The API call to HLRLookup should contain the following parameters.

```
HLRLookup
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
MSISDN as string
ReturnType as string
ReturnAddress as string
UserName as string
PassWord as string
```

The API response from HLRLookup contains the following parameters.

```
HLRLookupResponse
xmlns="https://www.smartsms.nu/webservice31/SmsService.asmx/"
HLRLookupResult as string
```

3.1.19 Sent

This web service is only for internal use.

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4. Web service API parameters

Several parameters has to be stated when you call SMARTSMS 3.1 web services. Some are mandatory others are optional. Even if the parameter is optional, it must be included in the function call.

4.1.1 Request parameter description

Element	Type	M/O/I	Default Value	Max length	Description
userReference	string	O		150	User reference to keep track of SOAP requests and responses (WS-I recommendation). The server echoes whatever value is provided.
originatingAddress	string	O	No value set	16	The originating address for the outgoing SM. Type of originating address is defined by the originator TON parameter. Short number max length is 16. Alpha numeric sender is limited to GSM default Alphabet with max length 11 characters. MSISDN sender max length is 16
destinationAddress	string	M		40	The MSISDN that the SM should be sent to, starting with country code. Example: 46762050312. For some markets (where the Consumer MSISDN must be obfuscated) this value can also be an alphanumeric alias, prefixed with "#".
userData	string	O	Empty message	280	The message content, see (<i>A comment on short message contents</i>) for more info about userData.
userDataHeader	string	O	No user data header	280	User Data Header together with the User Data can contain up to 140 (i.e. 280 when hex-encoded) octets. This parameter is always hex-encoded.
urlTitle	string	M	No urlTitle	49	The URL title in a push SMS. The URL title and URL can contain max 98 characters together. Any character from the UTF-8 character set can be used.
URL	string	M	No URL	49	The URL in a push SMS. The URL title and URL can contain max 98 characters together.
DCS	integer	O	17	3	Data Coding Scheme. Behaviour may vary with Operator integrations.
relativeValidityTime	integer	O	Max 172800 (48 hours)	10	Relative validity time in seconds (relative to the time for the submission to smartsms). Behaviour may vary with Operator integrations. Not supported by all Operator.
deliveryTime	string	O	Immediately	25	The message can be delivered with delayed delivery time. Format: yyyy-MM-dd HH:mm:ss Z, example: 2000-01-01 01:01:01 -0000. Behaviour may vary with Operator integrations. Not supported by all Operator.

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connectName	string	O	According to connect configuration	50	This field allows smartsms to route messages in a flexible manner, which may or may not be content provider specific.
charge	string	O		50	Mark SMS with a customer name to charge.
tariffClass	string	M		40	Tariff class for the message, representing the price of a premium message.
referenceId	string	O	No value set	150	Referenced order of the premium message, normally a message ID from an MO Mobile Originating message (SMS or MMS) Mandatory for premium messages.
serviceName	string	O	No value set	20	Your service name that will be showed on receivers operator invoice. Keep this text short. If this parameter is abused, your account will be closed.
serviceCategory	string	O	No value set	40	The content category. Set to #NULL# if not used or not supported by the market. Mandatory for premium SMS. Market specific information.
contentMetaData	string	O	No value set	1000	The content meta data. Set to #NULL# if not used or not supported by the market. Market specific information.
username	string	M		64	The Content Providers username provided by WBS.
password	string	M		64	The Content Providers web service password provided by WBS.

4.1.2 Response parameter description

Element	Type	M/O/I	Default Value	Max length	Description
userReference	string	O		150	Echoed request user reference id
messageId	string	M		50	Smartsms unique message ID for successful transaction, empty string on failure.
gatewayId	string	M		50	Unique gateway ID for successful transaction, empty string on failure.
responseCode	integer	M		5	Smartsms response code, 0 indicates successful transaction. See separate table for complete list of response codes.
reasonCode	integer	O	0	5	The reason code may apply for specific response codes. The support for reason codes varies with operator integrations and is provided with best effort.
responseMessage	string	M		200	Response textual description (e.g. error text). Contains response codes when sending a distribution list and receiving partial success response code. The max length is not applicable for partial success response. See response codes table for more information.

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temporaryError	boolean	M		5	Indicates whether the reason for failure is temporary or permanent (i.e. if it is useful to make a retry attempt after waiting a few minutes). This is only an indication of the error type; error codes should be used in combination with billing status and this parameter when deciding whether or not a retry attempt is applicable.
billingStatus	integer	M		1	Billing status: 0 . Unknown 1 . Pending 2 . Not billed 3 . Billed Billing status Pending is only applicable on specific markets with premium SMS.
VAT	double	M	Market default value	5	The VAT is used only with premium SMS. Returns -1 when not applicable.
smsCost	double	M		5	The SMS const depending on connect, discount and euro rate. The SMS price could be change afterwards if an error occurred during the price calculation.

5. Response codes

The following response codes can be returned in the send response
All response codes might not be in use.

Code	Text	Description
-55	Other error	Other error
-25	Request error, do not retry	Request error, do not retry
-20	System error, please retry	System error, please retry
-15	Invalid destination or destination not covered	Invalid destination or destination not covered
-10	User account exception	Insufficient balance. Fail to send SMS, Unspecified error
0	Success	Success fully executed.
1	Invalid login or un-authorized API usage	Incorrect username or password or Service Provider is barred by SmartSMS.
2	Consumer is blocked by SmartSMS	The Consumer is blocked by SmartSMS, i.e. blocked for premium services or this specific service.
3	Operation is not provisioned by SmartSMS	The operation is blocked for the Service Provider.
4	The Consumer is unknown to SmartSMS	The Consumer is unknown to SmartSMS. Or if alias was used in the request; alias not found.
5	Consumer has blocked this service in SmartSMS	The Consumer has blocked this service in SmartSMS.
6	The originating address is not supported	The originating address is not supported by account, e.g. the Short code is not provisioned for the destination operator.
7	Alpha originating address not supported by account	The alpha originating address is not supported by account.
8	MSISDN originating address not supported by account	The MSISDN originating address not supported by account.
9	GSM extended not supported by account	GSM extended not supported by account.
10	Unicode not supported by account	Unicode not supported by account.
11	Status report not supported by	Status report not supported by account.

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	account	
12	Required capability not supported	The required capability (other than the above) for sending the message is not supported.
13	Could not route message	SmartSMS could not route the SMS message to an Operator.
14	The content provider max throttling rate is exceeded	The Service Provider is sending the SMS messages to SmartSMS too fast.
15	The account max throttling rate is exceeded	The Operator is currently receiving too many SMS messages.
16	Protocol ID not supported by account	Protocol ID not supported by account.
50	Partial success: (<1>;<2>;<n>)	Partial success when sending an SMS message to multiple recipients. The response message field contains a list of response codes where the position of the response code correlates to the position of the MSISDN in the request. The format is "Partial success:<space>(<response code #1>;< response code #1;Q;< response code #n>)". E.g. "Partial success: (0;12;0;0;0)".
99	Internal server error	Other SmartSMS error, contact SmartSMS support for more information.
100	Invalid destination address	The destination address (MSISDN, or alias) is invalid.
101	Invalid tariff class (price)	The tariff class is invalid, or not registered by SmartSMS.
102	Invalid referenced (linked) ID	The reference ID is invalid, maybe the reference ID is already used, too old or unknown.
103	Invalid account name	The account name is invalid.
104	Invalid service category	The service category is invalid.
105	Invalid service meta data	The service meta data is invalid.
106	Invalid originating address	The originating address (short code) is invalid.
107	Invalid alphanumeric originating address	The alphanumeric (including MSISDN) originating address is invalid.
108	Invalid validity time	The validity time is invalid.
109	Invalid delivery time	The delivery time is invalid.
110	Invalid message content/user data	The user data, i.e. the SMS message, is invalid.
111	Invalid message length	The SMS message length is invalid.
112	Invalid user data header	The user data header is invalid.
113	Invalid data coding scheme	The DCS is invalid.
114	Invalid protocol ID	The PID is invalid.
115	Invalid status report flags	The status report flags are in valid.
116	Invalid TON	The originator TON is invalid.
117	Invalid VAT	The VAT is invalid or not supported by the destination Operator.
118	Invalid campaign name	The campaign name is invalid.
119	Invalid service name	The service name is invalid.
200	Operator integration error	Operator integration error, reason code may apply.
201	Communication problems	Operation failed due to communication error with the Operator, The operation failed.
202	Read timeout	Operation failed due to communication error with the Operator, read timeout during operation request. The operation status unknown.
299	Integration error	Other Operator integration error.

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6. Reason codes

The following reason codes can be returned in the API responses.
All reason codes might not be in use.

Reason Code	Text	Description
0	Not applicable	Reason code is not applicable.
1000	The consumer is not recognized as a subscriber (from Operator)	Response from the Operator, the Operator does not recognize the Consumer.
1001	The subscriber is blocked (from Operator)	Response from the Operator, the Consumer is blocked (for these types of services).
1002	The subscriber has insufficient funds for the requested transaction (from Operator)	Response from the Operator, the Consumer cannot fulfill the purchase.
1003	The mobile subscribers message queue is full (from Operator)	Response from the Operator, the operation is rejected.
1005	Invalid service meta data	Response from the Operator, the operation is rejected.
1006	Charging error	The requested charging operation cannot be performed by SmartSMS.
1007	The subscriber has blocked this service (from Operator)	Response from the Operator, the subscriber is blocked for this service.
1008	The subscriber is not registered (from Operator)	Response from the Operator, the subscriber must register at the Operator to enable the service.
1009	Subscription terminated by operator	Response from the Operator, the subscription is terminated (applicable in case the reference ID refers to a subscription).
1010	The subscriber is parental blocked (from Operator)	Response from the Operator, the Consumer has been blocked by a parental block.
1011	Operator spending limit exceeded	Response from the Operator, the Consumer's accumulated amount spent has exceeded the Operator limit.
1012	Subscriber specific spending limit exceeded	Response from the Operator, the Consumer's accumulated amount spent has exceeded the Consumer specific limit.
1013	Alternate payment method failed	Response from the Operator, in case the Operator provides alternate payment methods for the Consumer (e.g. credit card), this alternate method failed.
1014	Charging frequency exceeded	Response from the Operator, the charging event was rejected by the Operator due to too frequent charging events.
1015	Operator constraint violated	Response from Operator, the charging event violates the operator constraints.
1016	The subscriber is temporary blocked for this service (from Operator)	Response from the Operator, the subscriber is temporary blocked for this service.

7. Send SMS via HTTP get or post

You can send SMS of different type by calling an URL with specific predefined parameters.
The call returns a string with the result from the SMS gateway.

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7.1.1 HTML URL Encoding

URLs can only be sent over the Internet using the ASCII character-set. Since URLs often contain characters outside the ASCII set, the URL has to be converted into a valid ASCII format. URL encoding replaces unsafe ASCII characters with a "%" followed by two hexadecimal digits. URLs cannot contain spaces. URL encoding normally replaces a space with a + sign.

See link below for more information about HTML URL Encoding.
http://www.w3schools.com/tags/ref_urlencode.asp

7.1.2 SendSimpleSMSASP - HTTP URL string

Replace parameter with your account values in the URL below.
Paste this URL in a web browser to test send an SMS.

```
https://www.smartsms.nu/webservice31/httpSMS/SendSimpleSMSASP?OriginatingAddress=smartsms&DestinationAddress=0733209918&UserData=TestSMS&ConnectName=CheapConnect&ServiceCategory=sport&Charge=WBSAB&UserReference=mytest&UserName=myusername&PassWord=mypass
```

7.1.3 SendSimpleConcatenatedSMSASP - HTTP URL string

Replace parameter with your account values in the URL below.
Paste this URL in a web browser to test send an SMS.

```
https://www.smartsms.nu/webservice31/httpSMS/SendSimpleConcatenatedSMSASP?OriginatingAddress=smartsms&DestinationAddress=0733209918&UserData=This is a very long SMS text with the first part&UserDataHeader=050003FF0201&ConnectName=BusinessConnect&ServiceCategory=sport&Charge=WBSAB&UserReference=mytest&UserName=myusername&PassWord=mypass
```

```
https://www.smartsms.nu/webservice31/httpSMS/SendSimpleConcatenatedSMSASP?OriginatingAddress=smartsms&DestinationAddress=0733209918&UserData=and this is the rest of the long SMS&UserDataHeader=050003FF0202&ConnectName=BusinessConnect&ServiceCategory=sport&Charge=WBSAB&UserReference=mytest&UserName=myusername&PassWord=mypass
```

7.1.4 SendAdvancedSMSASP - HTTP URL string

Replace parameter with your account values in the URL below.
Paste this URL in a web browser to test send an SMS.

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```
https://www.smartsms.nu/webservice31/httpSMS/SendAdvancedSMSASP?OriginatingAddress=smartsms&DestinationAddress=0733209918&UserData=This is my SMS text&UserDataHeader=&DCS=17&RelativeValidityTime=&DeliveryTime=&ConnectName=BusinessConnect&ServiceCategory=sport&Charge=WBSAB&UserReference=mytest&UserName=myusername&PassWord=myspass
```

7.1.5 SendAdvancedPushSMSASP - HTTP URL string

Replace parameter with your account values in the URL below.
Paste this URL in a web browser to test send an SMS.

```
https://www.smartsms.nu/webservice31/httpSMS/SendAdvancedPushSMSASP?OriginatingAddress=smartsms&DestinationAddress=0733209918&UrlTitle=My new site&URL=http://mynewsite.se&RelativeValidityTime=&DeliveryTime=&ServiceCategory=sport&Charge=WBSAB&UserReference=mytest&UserName=myusername&PassWord=myspass
```

7.1.6 SendAdvancedPremiumSMSASP- HTTP URL string

Replace parameter with your account values in the URL below.
Paste this URL in a web browser to test send an SMS.

```
https://www.smartsms.nu/webservice31/httpSMS/SendAdvancedPremiumSMSASP?OriginatingAddress=smartsms&DestinationAddress=0733209918&UserData=This is my SMS text&UserDataHeader=&DCS=17&RelativeValidityTime=&DeliveryTime=&TariffClass=SEK100&ReferenceId=xxxxxxx&ServiceName=MyApp&ServiceCategory=sport&Charge=WBSAB&UserReference=mytest&UserName=myusername&PassWord=myspass
```

7.1.7 HTTP URL return values

The URL returns parameters from the SMS gateway.
The parameters are:

```
userReference  
messageId  
gatewayId  
responseCode  
reasonCode  
responseMessage  
temporaryError  
billingStatus
```

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VAT
smsCost

Look at *Response parameter description* to find out more about each parameter.

8. SMS types

You can send several different types of SMS with the standards functions in web services 3.1.

- *Simple SMS*
- *Concatenated SMS*
- *Flash SMS*
- *Push SMS*
- *Time scheduled SMS*
- *Premium SMS*

With the functions *SendAdvancedxxxSMS* you can configure your own parameters to send several different types of SMS.

8.1.1 Simple SMS

A simple SMS contains a maximum of 160 chars.
No extra parameters are needed.

8.1.2 Concatenated SMS

There are no directly limitations on how many concatenated SMS you can use to build a large SMS. Theoretical it could be 255 concatenated SMS, but it should also be supported by the receiver's mobile phone.

To be sure to that the SMS reach the receiver, it's recommended not to concatenate more than four SMS at a time.

<i>Parameter</i>	<i>Description</i>
UD UserData	The message text (Max 153 characters each message). First message UDH=050003FF0201 UD="This is a very long SMS text....." Second message UDH=050003FF0202

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UD="and this is the second SMS text part."

UDH User Data Header

Where the UDH (User Data Header) is derived from:

05 = UDHL (no of octets to come)
 00 = IEI (concatenated message)
 03 = IEIL (octets used to describe the concatenation)
 FF = any random number (used to distinct different concatenated messages)
 02 = no of messages in the concatenation
 01 = current no in the concatenation

DCS

The Data Coding Scheme (8 bits), as defined in GSM 03.38. When sending concatenated messages DCS should be set to 17.
 DCS = 17

8.1.3 Flash SMS

Then a flash SMS is received in a mobile phone it pops up like pop up window on top of the screen. When you close a flash SMS the text is gone.
 A flash SMS must be saved manually in the mobile phone, if you want to show it again.

For example it can be used for passwords or other temporary information.

When you send a flash SMS without using the function `SendSimpleFlashSMS` the DCS parameter should be set to 16.
 DCS = 16
 Flash SMS might not be supported by iPhones.

8.1.4 Push SMS

With a push SMS you can send a web URL with an URL title to a mobile phone in a nice way. Instead of sending an MMS you can send a push SMS with a web link that points to a site or a file that contains information like an MMS.

The maximum length 49 (guaranteed delivery) is the sum of `urlTitle` and `url` elements. Which characters that are used in the `urlTitle` will affect the maximum theoretical length. E.g. if only ASCII characters in the text, the max length of the `urlTitle` and `url` elements may add up to 98 characters.

A push SMS can also be named WAP push SMS.
 Push SMS might not be supported by iPhones.

A push SMS can also be sent with the function `SendAdvancedSMS`.

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If you need to send a concatenated (premium) push SMS you need to send it with `SendAdvancedSMS` and add your own parameters.

8.1.4.1 Sample WAP push string

A WAP Push example which we will use here is as follows:

```
DC0601AE02056A0045C60C03 7777772e736d617274736d732e7365 001103
313233343536373839 000103 536d617274534d53 000101
```

URL title: *smartSMS*
URL: *www.smartsms.se*

UserDataHeader: 0605040b8423f0

UserData:

```
DC0601AE02056A0045C60C037777772e736d617274736d732e7365001103313233343
536373839000103536d617274534d53000101
```

The UDH or User Data Header explained : UserHeader=0605040b8423f0

In the string above, the UserHeader parameter can be explained as follows:

06 is the Length of the User Data Header

05 is the Information Element Identifier (IEI; application port addressing scheme, 16-bit port address)

04 is the Information Element Data Length (IEDL)

0B84 is the destination port no.

23F0 is the origin port no.

Data Wrapping, The rest in UserData: DC0601AE02056A0045C60C03

Next comes the data wrapping info that goes around the URL string itself:

DC is the Transaction ID (Push ID)

06 is the PDU type (Push PDU)

01 is the Header Length (just leave it at 01)

AE represents Content Type=application/vnd.wap.sic (0x80 | 0x2E)

02 represents <version>

05 represents <si>

6A represents <charset=utf-8>

00 represents <string>

45 represents <si>

C6 represents <indication>

0C represents http://

03 refers to "next is an ASCII string for the URL, to be terminated with 00"

The URL string 7777772e736d617274736d732e7365

Then comes the URL string in our example, this hexadecimal string is:

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7777772e736d617274736d732e7365 = "www.smartsms.se"

Ending Wrapper URL: 000103

Finally, we wrap up the string with some final pieces of information.

00 refers to terminate string with 00

01 represents <indication>

03 refers to "next is an ASCII string for title, terminate with 00"

The message identifier si-id 313233343536373839

You cannot send two WAP-pushes with the same si-id to the same cell phone, since the handset would discard the last one. If the end-user deletes the first WAP-push, and after that you send another WAP-push with the same id, then it will be shown in the phone. Therefore, you must configure this si-id randomly.

313233343536373839 = "123456789"

The title in our example is 536d617274534d53

Then comes the URL-title string in our example, this hexadecimal string is:

536d617274534d53 = "SmartSMS"

Ending Wrapper URL-title

00 we terminate the title string with 00

01 represents <indication>

01 represents <si>

The final complete hexadecimal WAP PUSH string is hence completed!

8.1.5 Time scheduled SMS

With the function `SendSimpleTimeScheduledSMS` you can send SMS that will reach the receiver in a future time.

The time scheduled SMS will wait at the SMS gateway to the future time is reached before it is send to receiver. All functions with the parameter `DeliveryTime` can be used to time schedule an SMS. Not all connects can be used to send time scheduled SMS.

Time scheduled SMS is not supported by all operators.

If not supported by operator, the SMS will be sent immediately to the receiver.

8.1.6 Premium SMS

With premium SMS you can charge the receiver a sum of 1 to 200 SEK including VAT.

To be able to send premium SMS to a receiver, the receiver must have order a service from the content provider.

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The order is made by an incoming SMS to a short number from the receiver. This incoming SMS has a reference id that must match the prior incoming SMS order then sending a premium SMS to receiver

Normally the content provider have an own prefix connected to a short number. When you send a premium SMS to a receiver the originating address must be a valid short number like 72777, 72401 or 72790. A zero charge number like 71160 cannot be used as originating address for premium MT SMS.

The Mobile Terminated, MT premium SMS must contain some information about the charger and the premium SMS tariff.

More information about the bearer MT premium SMS content and other rules that the content provider must follow are written in the "MORGAN, CODE OF CONDUCT" document. The MORGAN document can be downloaded from <http://www.morganforum.se/>.

When you send a premium MT SMS you will receive a response from the web services. In that response a billingStatus is included. If billingStatus is 3 it means that this receiver is charge with the tariff you have given.

9. Function parameters

Here are the parameters I our web services explained more accurate.

9.1.1 Originating Address

Who is sending the SMS?

This sender (originating address) will appear as sender in the receiver mobile phone.

If you use an alphanumeric sender (sender text that contains non numeric characters) the maximum length is 11 characters.

If you use a mobile number as sender (originating address) the maximum length is 16 numbers.

General standard for originating address might not be supported by iPhones.

9.1.2 Destination Address

To send an SMS to a Swedish mobile phone the destination address does not needed to contain the Swedish country code (+46) because its default.

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A mobile number to Sweden could in two ways format: 0733209918 or +46733209918.
The first zero should be removed in the mobile number and a + character must be added before the country code

To send SMS to any other countries except Sweden a country code must always be added.
Sample SMS number to Norway +474xxxxxxx

9.1.3 User Data

SMS body text.
Depending on the DCS parameter settings, user data could contain ASCII, HEX or binary characters.

9.1.4 User Data Header

Depending on the DCS parameter settings, user data header could contain HEX or binary characters.
UDH information is used to send concatenated, push SMS etc.

9.1.5 DCS

Data Coding Scheme, a value used in SMS to indicate the message class.

Sample:

DCS 5 = Push SMS
DCS 16 = Flash SMS
DCS 17 - Normal SMS
DCS 21 - Binary SMS
DCS 25 - Unicode SMS

See link below for a complete information about DCS.

http://www.3gpp.org/ftp/Specs/archive/03_series/03.38/0338-720.zip

9.1.6 Relative Validity Time

Relative validity time in seconds (relative to the time for the submission to SmartSMS).
Default value is 172800 seconds, (48 hours).
60sec x 60min x 48hour = 172800 seconds

If SMS is not received to mobile phone within the relative validity time, the SMS will be set to expire (Validity period expired) and will not be sent to receiver.
An SMS that is expired will still be charge.

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Sample:

If you send an SMS to a receiver at 17:00 and the receiver must have this information before 18:00 or else the information is useless or unwanted.

In this case you can set the relative validity time to 3600 sec (1 hour)

Relative validity time behavior may vary with Operator integrations.

9.1.7 Delivery Time

The message can be delivered with delayed delivery time. Format: yyyy-MM-dd HH:mm:ss - TimeZone,

example: 2000-01-01 01:01:01 +0100

The SMS gateway is always set on UTC time.

UTC time is not changed for winter and summertime.

When sending a time scheduled SMS to a country that's currently on summertime, the time zone factor must be changed.

Wintertime:

To send an SMS to a Swedish operator with delivery date 2010-04-01 and time 15:00, the parameter should look like this: 2010-04-01 15:00:00 +0100

Summertime:

To send an SMS to a Swedish operator with delivery date 2010-04-01 and time 15:00, the parameter should look like this: 2010-04-01 15:00:00 +0200

Relative validity time behavior may vary with Operator integrations.

9.1.7.1 Time zones

This is a sample of wintertime zones, this don't mean that it's possible to send SMS with SmartSMS to all countries included in this list.

TimeZone	Country
-12	BAKER ISLAND (0° 13 N, 176° 31 W)
-12	HOWLAND ISLAND (0° 48 N, 176° 38 W) (Earhart Light)
-11	AMERICAN SAMOA (Pago Pago)
-11	JARVIS ISLAND (0° 22 S, 160° 03 W) (Millersville)
-11	KINGMAN REEF (6° 24 N, 162° 24 W)
-11	MIDWAY ISLANDS (28° 13 N, 177° 22 W)
-11	NIUE (Alofi)
-11	PALMYRA ATOLL (5° 52 N, 162° 06 W)
-11	SAMOA (Apia)
-10	COOK ISLANDS (Rarotonga- Avarua)

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- 10 FRENCH POLYNESIA (TAHITI Papeete, TUAMOTU ARCHIPELAGO, TUBUAI ISLANDS)
- 10 JOHNSTON ATOLL (16° 45 N, 169° 31 W)
- 10 TOKELAU, New Zealand (Fakaofu, Nukunonu, Atafu)
- 10 UNITED STATES (HAWAII-Honolulu)
- 10 UNITED STATES (ALEUTIAN ISLANDS OF ALASKA- Adak dst)
- 9 FRENCH POLYNESIA (Gambier Islands)
- 9 UNITED STATES (Alaska- Anchorage dst, Fairbanks dst, Nome dst, Unalaska dst)
- 8 CANADA (British Columbia- Vancouver dst, Yukon- Whitehorse dst)
- 8 MEXICO (Baja California Norte- Tijuana dst, Ensenada dst, Mexicali dst)
- 8 PITCAIRN (Adamstown)
- 8 UNITED STATES (California- Los Angeles dst, San Francisco dst, San Diego dst, Nevada- Las Vegas dst, Oregon- Portland dst, Washington- Seattle dst, Tacoma dst, Idaho- northern dst)
- 7 CANADA (Alberta- Edmontondst, Calgarydst, Northwest Territories- Yellowknifedst)
- 7 MEXICO (Baja California Sur- La Pazdst, Chihuahua- Ciudad Juarezdst, Nayarit- Tepicdst, Sinaloa- Mazatlandst)
- 7 UNITED STATES (Arizona- Navajodst, Colorado- Denverdst, Idaho- southern- Boisedst, Montana- Helenadst, Nebraska- western-Scottsbluffdst, New Mexico- Albuquerquedst, North Dakota-westerndst, Oregon- Malheur Countydst, South Dakota- western- Rapid Citydst, Ut
- 7 UNITED STATES (Arizona- Phoenix, Tucson
- 6 BELIZE (Belmopan)
- 6 CANADA (Manitoba- Winnipeg dst)
- 6 CANADA (Saskatchewan- Regina)
- 6 EASTER ISLAND, Chile (Rapa Nui- Hanga Roa dst)
- 6 COSTA RICA (San Jose)
- 6 GALAPAGOS ISLANDS, Ecuador
- 6 EL SALVADOR (El Salvador)
- 6 GUATEMALA (Guatemala)
- 6 HONDURAS (Tegucigalpa)
- 6 MEXICO (Mexico City dst, Acapulco dst, Monterrey dst, Veracruz dst, Guadalajara dst, Cancun dst)
- 6 NICARAGUA (Managua)
- 6 UNITED STATES (Alabama- Birmingham dst, Arkansas- Little Rock dst, Illinois- Chicago dst, Indiana (northwest and southwest) dst, Iowa- Cedar Rapids dst, Kansas- Wichita dst, Kentucky (western) dst, Louisiana- New Orleans dst, Minnesota- Minneapolis/St. Pa
- 5 BAHAMAS (Nassau dst)
- 5 BRAZIL (Acre-Rio Branco)
- 5 CANADA (Quebec- Montreal dst, Quebec dst, Ontario- Ottawa dst, Toronto dst, Nunavut- Iqaluit dst)
- 5 CAYMAN ISLANDS (Georgetown)
- 5 COLOMBIA (Bogota)
- 5 CUBA (Havanadst)
- 5 ECUADOR (Quito, Guayaquil)

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-5 HAITI (Port-au-Prince)dst
-5 JAMAICA (Kingston)
-5 NAVASSA ISLAND (18° 25 N, 75° 02 W)
-5 PANAMA (Panama, Colon)
-5 PERU (Lima)
-5 TURKS and CAICOS ISLANDS (Grand Turk dst)
-5 UNITED STATES (New York- New York dst, District of Columbia- Washington D.C. dst, Florida- Miami dst, Massachusetts- Boston dst, Georgia- Atlanta dst, Michigan- Detroit dst), Connecticut- Hartford dst, Delaware- Dover dst, Indiana (most of state)- Indiana
-4 ANGUILLA (The Valley)
-4 ANTIGUA AND BARBUDA (Saint John's)
-4 ARUBA (Oranjestad)
-4 BARBADOS (Bridgetown)
-4 BERMUDA (Hamilton dst)
-4 BOLIVIA (La Paz)
-4 BRAZIL (Manaus)
-4 CANADA (NEW BRUNSWICK- Saint John dst, NOVA SCOTIA- Halifax dst, PRINCE EDWARD ISLAND- Charlottetown dst)
-4 CHILE (Santiago dst)
-4 DOMINICA (Roseau)
-4 DOMINICAN REPUBLIC (Santo Domingo)
-4 FALKLAND ISLANDS (Islas Malvinas- Stanley dst)
-4 GREENLAND (Thule=Qaanaaq dst)
-4 GRENADA (Saint George's)
-4 GUADELOUPE (Basse-Terre)
-4 GUYANA (Georgetown)
-4 MARTINIQUE (Fort-de-France)
-4 MONTSERRAT (Brades Estate, Plymouth)
-4 NETHERLANDS ANTILLES (Curacao- Willemstad)
-4 PARAGUAY (Asuncion dst)
-4 PUERTO RICO (San Juan)
-4 SAINT KITTS AND NEVIS (Basseterre)
-4 SAINT LUCIA (Castries)
-4 SAINT VINCENT AND THE GRENADINES (Kingstown)
-4 TRINIDAD AND TOBAGO (Port of Spain)
-4 VIRGIN ISLANDS (U.S.- Charlotte Amalie)
-4 BRITISH VIRGIN ISLANDS (Road Town)
-4 ANTARCTICA (O'Higgins Station - Chile dst)
-4 ANTARCTICA (Palmer Station - USA dst)
-3 ARGENTINA (Buenos Aires)
-3 BRAZIL (Rio de Janeiro dst, Sao Paulo dst, Brasilia dst)
-3 BRAZIL (Recife, Maceio, Salvador, Fortaleza)
-3 FRENCH GUIANA (Cayenne)
-3 GREENLAND (Nuuk=Godthab dst)
-3 SAINT PIERRE AND MIQUELON (Saint-Pierre dst)

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-3 SURINAME (Paramaribo)
 -3 URUGUAY (Montevideodst)
 -2 BRAZIL (Fernando de Noronha)
 -2 SOUTH GEORGIA and SOUTH SANDWICH ISLANDS(Grytviken)
 -1 CAPE VERDE (Praia)
 -1 GREENLAND (east- Scoresbysund/Ittoqqortoormiitdst)
 -1 PORTUGAL (AZORES- Hortadst, Praia da Vitoriadst, Ponta Delgadadst)
 0 BURKINA FASO (Ouagadougou)
 0 CANARY ISLANDS, Spain dst
 0 COTE D'IVOIRE (Yamoussoukro, Abidjan)
 0 FAROE ISLANDS (Torshavn dst)
 0 THE GAMBIA (Banjul)
 0 GHANA (Accra)
 0 GUINEA (Conakry)
 0 GUINEA-BISSAU (Bissau)
 0 ICELAND (Reykjavik)
 0 IRELAND (Dublin dst)
 0 LIBERIA (Monrovia)
 0 MALI (Bamako)
 0 MAURITANIA (Nouakchott)
 0 MOROCCO (Rabat, Casablanca)
 0 PORTUGAL (Lisbon dst)
 0 SAINT HELENA (Jamestown)
 0 SAO TOME AND PRINCIPE (Sao Tome)
 0 SENEGAL (Dakar)
 0 SIERRA LEONE (Freetown)
 0 TOGO (Lome)
 0 UNITED KINGDOM (London dst)
 0 WESTERN SAHARA, Laayoune (El Aaiun)
 1 ALBANIA (Tirana dst)
 1 ANDORRA (Andorra la Vella dst)
 1 ALGERIA (Algiers)
 1 ANGOLA (Luanda)
 1 AUSTRIA (Vienna dst)
 1 BELGIUM (Brussels dst)
 1 BENIN (Porto-Novo)
 1 BOSNIA-HERZEGOVINA (Sarajevo dst)
 1 CAMEROON (Yaounde)
 1 CENTRAL AFRICAN REPUBLIC (Bangui)
 1 CHAD (N'Djamena)
 1 CONGO, REPUBLIC of the (Brazzaville)
 1 CONGO, DEMOCRATIC REPUBLIC of the (Kinshasa)
 1 CROATIA (Zagreb dst)
 1 CZECH REPUBLIC (Prague dst)
 1 DENMARK (Copenhagen dst)
 1 EQUATORIAL GUINEA (Malabo)

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1 MACEDONIA (Skopje dst)
 1 FRANCE (Paris dst)
 1 GABON (Libreville)
 1 GERMANY (Berlin dst)
 1 GIBRALTAR (Gibraltar dst)
 1 HUNGARY (Budapest dst)
 1 ITALY (Rome dst)
 1 LIECHTENSTEIN (Vaduz dst)
 1 LUXEMBOURG (Luxembourg dst)
 1 MALTA (Valletta dst)
 1 MONACO (Monaco dst)
 1 NAMIBIA (Windhoek dst)
 1 NETHERLANDS (Amsterdam dst)
 1 NIGER (Niamey)
 1 NIGERIA (Abuja, Lagos)
 1 NORWAY (Oslo dst)
 1 POLAND (Warsaw dst)
 1 SAN MARINO (San Marino dst)
 1 SERBIA and MONTENEGRO (Belgrade dst)
 1 SLOVAKIA (Bratislava dst)
 1 SLOVENIA (Ljubljana dst)
 1 SPAIN (Madrid dst)
 1 SVALBARD (SPITZBERGEN) AND JAN MAYEN (Longyearbyen dst)
 1 SWEDEN (Stockholm dst)
 1 SWITZERLAND (Bern dst, Zurich dst)
 1 TUNISIA (Tunis dst)
 1 VATICAN (Vatican citydst)
 2 BELARUS (Minsk dst)
 2 BOTSWANA (Gaborone)
 2 BULGARIA (Sofia dst)
 2 BURUNDI (Bujumbura)
 2 CONGO, Democratic Republic of the (Lubumbashi)
 2 CYPRUS (Nicosia dst, Kyrenia dst)
 2 EGYPT (Cairo dst)
 2 ESTONIA (Tallinn dst)
 2 FINLAND (Helsinki dst)
 2 GAZA STRIP (Gaza dst)
 2 GREECE (Athens dst)
 2 ISRAEL (Jerusalem dst, Tel Aviv dst)
 2 JORDAN (Amman dst)
 2 LATVIA (Riga dst)
 2 LEBANON (Beirut dst)
 2 LESOTHO (Maseru)
 2 LIBYA (Tripoli)
 2 LITHUANIA (Vilnius dst)
 2 MALAWI (Lilongwe)

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- 2 MOLDOVA (Chisinau dst)
- 2 MOZAMBIQUE (Maputo)
- 2 ROMANIA (Bucharest dst)
- 2 RUSSIA (ZONE 1- Kaliningrad dst)
- 2 RWANDA (Kigali)
- 2 SOUTH AFRICA (South Africa / Pretoria, Johannesburg, Cape Town)
- 2 SWAZILAND (Mbabane)
- 2 SYRIA (Damascus dst)
- 2 TURKEY (Ankara, Istanbul dst)
- 2 UKRAINE (Kiev dst)
- 2 WEST BANK (Bethlehem dst)
- 2 ZAMBIA (Lusaka)
- 2 ZIMBABWE (Harare)
- 3 BAHRAIN (Al Manamah)
- 3 COMOROS (Moroni)
- 3 DJIBOUTI (Djibouti)
- 3 ETHIOPIA (Addis Ababa)
- 3 ERITREA (Asmera)
- 3 IRAQ (Baghdad)
- 3 KENYA (Nairobi)
- 3 KUWAIT (Kuwait)
- 3 MADAGASCAR (Antananarivo)
- 3 MAYOTTE (Mamoutzou)
- 3 QATAR (Doha)
- 3 RUSSIA (ZONE 2- Moscow dst, St. Petersburg dst, Arkhangelsk dst, Belgorod dst, Bryansk dst, Vladikavkaz dst, Vladimir dst, Vologda dst, Volgograd dst, Grozny dst, Ivanovo dst, Yoshkar Ola dst, Kaluga dst, Kostroma dst, Krasnodar dst, Kursk dst, Kazan' dst)
- 3 SAUDI ARABIA (Riyadh)
- 3 SOMALIA (Mogadishu)
- 3 SUDAN (Khartoum)
- 3 TANZANIA (Dar es Salaam, Zanzibar)
- 3 UGANDA (Kampala)
- 3 YEMEN (Sanaa, Aden)
- 4 ARMENIA (Yerevan dst)
- 4 AZERBAIJAN (Baku dst)
- 4 GEORGIA (Tbilisi)
- 4 MAURITIUS (Port Louis)
- 4 OMAN (Muscat)
- 4 REUNION (Saint-Denis)
- 4 RUSSIA (ZONE 3-Samara dst, Izhevsk dst)
- 4 SEYCHELLES (Mahe- Victoria)
- 4 UNITED ARAB EMIRATES (Abu Dhabi, Dubai)
- 5 KAZAKHSTAN (western-Aqtau)
- 5 MALDIVES (Male)
- 5 PAKISTAN (Islamabad, Karachi)

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5 RUSSIA (ZONE 4- Ekaterinburg dst, Perm dst, Orenburg dst, Ufa dst, Chelyabinsk
dst, Kurgan dst, Tyumen dst, Salekhard dst, Khanty-Mansiysk dst)

5 TAJIKISTAN (Dushanbe)

5 TURKMENISTAN (Ashkhabat)

5 UZBEKISTAN (Tashkent) TIME ZONE UTC+0530 IST

5 INDIA (New Delhi, Calcutta)

5 SRI LANKA (Colombo) TIME ZONE UTC+0545 NPT

5 NEPAL (Katmandu)

6 BANGLADESH (Dhaka) dst

6 BHUTAN (Thimphu)

6 BRITISH INDIAN OCEAN TERRITORY (Chagos- Diego Garcia)

6 KAZAKHSTAN (eastern- Almaty, Astana, Karaganda)

6 KYRGYZSTAN (Bishkek)

6 RUSSIA (ZONE 5- Novosibirsk dst, Omsk dst, Tomsk dst, Barnaul dst, Gorno-
Altayskdst) TIME ZONE UTC+0630 MMT CCT NST NSUT

6 COCOS (Keeling) ISLANDS (West Island)

6 BURMA (MYANMAR) (Rangoon / Yangon)

7 CAMBODIA (Phnom Penh)

7 CHRISTMAS ISLAND, AUSTRALIA (The Settlement)

7 INDONESIA (Western Indonesia/Java, Sumatra- Jakarta)

7 LAOS (Vientiane)

7 RUSSIA (ZONE 6- Krasnoyarsk dst, Kemerovo dst, Abakan dst, Dudinka dst, Kyzyl
dst, Tura dst)

7 THAILAND (Bangkok, Phuket)

7 VIETNAM (Ho Chi Minh (Saigon), Hanoi)

8 AUSTRALIA (Western Australia - Perth)

8 BRUNEI DARUSSALAM (Bandar Seri Begawan)

8 CHINA (Beijing, Shanghai)

8 HONG KONG (China)

8 INDONESIA (central- Bali, Borneo, Celebes/Ujung Pandang)

8 MACAU (Macao)

8 MALAYSIA (Kuala Lumpur)

8 MONGOLIA (Ulaanbaatar)

8 PHILIPPINES (Manila)

8 RUSSIA (ZONE 7- Irkutsk dst, Ulan-Ude dst, Bratsk dst, Ust'-Ordynsky dst)

8 SINGAPORE (Singapore)

8 TAIWAN (Taipei) TIME ZONE UTC+0845 WCT CWT

8 Eucla, Caiguna, Madura, Mundrabilla (Western Australia) and Border Village
(South Australia)

9 EAST TIMOR (Dili)

9 INDONESIA (EASTERN- Irian Jaya and the Moluccas / Jayapura)

9 JAPAN (Tokyo)

9 KOREA, NORTH (Pyongyang)

9 KOREA, Republic of (Seoul)

9 PALAU (Koror)

9 RUSSIA (ZONE 8- Chita dst, Yakutsk dst, Bladoveschensk dst, Aginskoe dst,

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Udachnyi dst, Mirnyi dst, Oymiakon dst, Baley dst, Krasnokamensk dst, Khapcheranga dst) TIME ZONE UTC+0930 ACST SAST CAST

9 AUSTRALIA (Northern Territory- Darwin)

9 AUSTRALIA (New South Wales- Broken Hill dst)

9 AUSTRALIA (South Australia- Adelaide dst)

10 AUSTRALIA (Capital Territory- Canberra dst, New South Wales- Sydney dst, Victoria- Melbourne dst)

10 AUSTRALIA (Tasmania- Hobart dst)

10 AUSTRALIA (Queensland- Brisbane)

10 GUAM (Hagatna) (Agana)

10 MICRONESIA, Federated States of (YAP, CHUUK/TRUK)

10 NORTHERN MARIANA ISLANDS (Saipan)

10 PAPUA NEW GUINEA (Port Moresby)

10 RUSSIA (ZONE 9- Vladivostok dst, Khabarovsk dst, Yuzhno-Sakhalinsk dst, Birobidzhan dst) TIME ZONE UTC+1030 LHST

10 AUSTRALIA (Lord Howe Islanddst=00:30)

11 MICRONESIA, Federated States of (Ponape- Palikir, Kolonia, Kosrea-Lelu)

11 NEW CALEDONIA (Noumea)

11 RUSSIA (ZONE 10- Magadan dst, Kolyma dst)

11 SOLOMON ISLANDS (Honiara, Guadalcanal)

11 VANUATU (Port-Vila) TIME ZONE UTC+1130 NFT

11 NORFOLK ISLAND, Australia (Kingston)

12 FIJI (Suva)

12 KIRIBATI (GILBERT ISLANDS- Tarawa)

12 MARSHALL ISLANDS (Majuro)

12 NAURU (Makwa)

12 NEW ZEALAND (Wellington dst)

12 RUSSIA (ZONE 11- Petropavlovsk-Kamchatskiydst, Anadyrdst, Pevekdst, Provideniyadst, Palanadst, Cherskiydst, Egvekinotdst, Kamchatkadst, Chukotka dst)

12 TUVALU (Funafuti)

12 WAKE ISLAND (19° 17 N, 166° 36 E)

12 WALLIS AND FUTUNA (Mata-Utu)

12 ANTARCTICA (Amundsen-Scott (South Pole) Station - USA dst)

12 ANTARCTICA (McMurdo Station - USA dst)

12 ANTARCTICA (Scott Station - N.Z. dst)

12 TIME ZONE UTC+1245 CHAST

12 CHATHAM ISLANDS dst, New Zealand

12 TIME ZONE UTC+13 PHOT TOT

12 KIRIBATI (PHOENIX ISLANDS- Enderbury)

12 TONGA (Nuku'alofa)

12 TIME ZONE UTC+14 LINT

12 KIRIBATI (Christmas Islands- LINE ISLANDS- Kiritimati)

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9.1.8 Tariff Class

The price of a premium message is representing by a tariff class.
Valid tariff class values are between 1 SEK to 200 SEK

The parameter value should be set without any decimals.

For non-premium messages, the market's zero tariff class must be supplied, SEK0 corresponding

Sweden is the only valid market for SmartSMS tariff classes.

9.1.8.1 Fraud limits

All operators have a fraud limit for a single user every month.
This means that a user be charge limited total sum every month.
That includes the sum for all content provider premium services to that special receiver

The limits in Sweden including VAT are:

Operator	Fraud limit	Currency
TELE2	2000	SEK
TELENOR	1200	SEK
TELIA	4000	SEK
TRE	1600	SEK

9.1.9 Reference Id

To be able to send premium SMS to a receiver, the receiver must have order a service from the content provider.

The order is made by an incoming SMS to a short number from the receiver.

This incoming SMS has a reference id that must match the prior incoming SMS order then sending a premium SMS to receiver.

9.1.10 Content categories

When you send a non-premium SMS you could add an optional service category like *carservice*.

The content category should contain information about the SMS content.
Servicecategory:carservice

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If you send a premium SMS your content category is locked to the categories below.

9.1.10.1 Premium SMS content category:

- adult
- advertisement
- business
- charity
- chat
- classified ads
- community
- coupon
- dating
- e-mail
- games
- general
- information
- location
- lottery
- messaging
- mobile portal
- music downloads
- music video
- news
- parking
- ringtone
- search
- security
- software
- sport
- subscription
- tickets
- wallpapers
- vending machine
- video
- voting

9.1.11 Connect names

There are several different connects to send SMS with.
Connects differ in price depending channel characteristics.

9.1.11.1 All connect names

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All connect except PremiumConnect can be used to send SMS outside of Sweden.
Premium SMS can only be sent to Swedish operators.

PrimeConnect

Our best connect, especially suited for time critical and sensitive information
Most suited for company use.

SwedishConnect

This connect only send SMS with Swedish operators.
Same connect that sends premium SMS within Sweden.
Most suited for company use.

BusinessConnect

A high end messaging product delivering network operator grade performance cost efficiently
Excellent quality to price ratio.
Our most used connect.
Most suited for company use.

PremiumConnect

This connect only send premium SMS with Swedish operators to Swedish mobile numbers.
PremiumConnect is for Company use only.
Not for SMSMAIL 3.

EconomyConnect

EconomyConnect is now outdated and is automatically switched to BusinessConnect when used. Use BusinessConnect as a replacement for EconomyConnect.

CheapConnect

Our cheapest connect that gives you even more value for your money.
Most suited for personal use.

10. HLR Lookup definition

The HTTP HLR interface allows you to quickly look up information about a mobile phone number from its Home Location Register (HLR) database.

A HLR report can show the network and country the MSISDN belongs to as well as information showing whether the number has been ported, if it is valid, and if it is available to receive SMS.

The 'Home Location Register' or HLR is a central database that contains details of each mobile phone subscriber that is authorized to use the GSM core network.

Each mobile network has one HLR, although there may be many HLR servers creating a single virtual HLR.

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More precisely, the HLR stores details of every SIM card issued by the mobile phone operator. Each SIM has a unique identifier called an IMSI which is one of the primary keys to each HLR record.

A HLR also stores the following data about a mobile subscriber:

- Current servicing MSC
- Status of subscriber
- Temporary handset error code if applicable

SmartSMS offers a HLR Lookup service which allows mobile numbers (MSISDN's) to be queried in order to learn:

- Whether they are valid
- If the subscriber is available to receive SMS
- If there is an error code preventing SMS delivery
- If the number has been ported to another mobile network

10.1.1 HLR web service call

The HLR web service is called with five parameters.

MSISDN: The mobile number you want to look up. The mobile number must contain a valid language prefix.
Sample, +467xxxxxxxx for Sweden.

ReturnType: Type of response for your HLR request
H = Http return address, E = Email address
Include `http://` in your address if you use parameter H.

ReturnAddress: An Http address or an email address, must match the ReturnType parameter

UserName: SmartSMS username

Password: SmartSMS web service password

10.1.2 HLR response parameter description

The HLRLookup response string can contain the following parameters:

OK mobil number
QueryId=216784363
MSISDN=46762412957

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```

WebResponse=OK 216784363
QueryId=216784363
Status=Success
NetworkCode=24007
Location=46707963173 SWE
CountryName=Sweden
CountryCode=SWE
Organisation=Tele 2 AB
NetworkName=Tele2Comviq
NetworkType=GSM 900
Ported=No
ErrorCode=
ErrorDescription=
PortedFrom=
PortedFrom2=
Cost=0,197865
    
```

```

Invalid mobile number or not activated cash card number
QueryId=216784520
MSISDN=46722084396
WebResponse=OK 216784520
QueryId=216784520
Status=Invalid
NetworkCode=
Location=
CountryName=
CountryCode=
Organisation=
NetworkName=
NetworkType=
Ported=No
ErrorCode=1
ErrorDescription=MAP_ERR_UNKNOWN_SUBSCRIBER
PortedFrom=TeliaSonera Mobile Networks AB Sweden
PortedFrom2=TeliaSonera Mobile Networks
Cost=0,197865
    
```

10.1.3 HLR http request response

```

http://www.yourdomain.com/HLRResponse.ashx
?QueryId=214971101&MSISDN=46733209918&WebResponse=OK
214971101&QueryId=214971101&Status=Success&NetworkCode=24008&Location
=46708000741
SWE&CountryName=Sweden&CountryCode=SWE&Organisation=Telenor Sverige
AB&NetworkName=Telenor&NetworkType=GSM
900&Ported=No&ErrorCode=&ErrorDescription=&PortedFrom=&PortedFrom=&Co
st=0,20408625
    
```

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Mottagare (avd nr, namn, geografisk placering)/Receiver (dept, name)				

10.1.4 HLR email request response

Mail subject:

HLR Query QueryID:214971123 MSISDN=46733209918

Mail body:

QueryId=214971123
MSISDN=46733209918
WebResponse=OK 214971123
QueryId=214971123
Status=Success
NetworkCode=24008
Location=46708000741 SWE
CountryName=Sweden
CountryCode=SWE
Organisation=Telenor Sverige AB
NetworkName=Telenor
NetworkType=GSM 900
Ported=No
ErrorCode=
ErrorDescription=
PortedFrom=
PortedFrom2=
Cost=0,20408625

11. SDR SMS Delivery Report

It's possible to get SDR SMS Delivery Reports send to you by a HTTP link set by you, or by an email given by you.

These settings can be done when you have logged in to your SmartSMS account.

SMS Delivery Reports signals the status on your sent SMS.

You can then determine if your SMS has arrived at your receiver's mobile phone.

You connect the incoming SDR to your sent SMS through the `GateWayId`.

11.1.1 SDR by HTTP

If you use the HTTP link solution you must have a site that will answer the SDR push from SmartSMS.

The address before the “?” mark must be set by you at SmartSMS.se.

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Sample on string pushed to your SDR receiver address:

```
http://www.mysiste.se/SDRReceiver.ashx?GatewayId=1-11843444839&DestinationAddress=46733209918&Operator=BusinessConnect&ReasonCode=0&ReasonCodeinfo=Delivered&ReasonCodeDescription=Message delivered to handset.&StatusCode=0&StatusText=&OperatorTimestamp=20110216 12:45:44&TimeStamp=20110216 12:45:44
```

11.1.2 SDR by email

You can also receive your SDR by email.
The receiving email address must be set by you at SmartSMS.se

Subject:
SmartSMS SDR: 1-11844586058

SDR email sample:
GatewayId=1-11844586058
DestinationAddress=46733209918
Operator=BusinessConnect
ReasonCode=0
ReasonCodeinfo=Delivered
ReasonCodeDescription=Message delivered to handset.
StatusCode=0
StatusText=
OperatorTimestamp=20110216 15:40:25
TimeStamp=20110216 15:40:25

12. Receiving SMS via short number

With your SmartSMS account you can receive SMS via short number through a prefix.

A prefix is a short code with a minimum of three characters that is used to receive SMS to your account.

You can order a new prefix in the SmartSMS GUI menu.
After the prefix is created you can connect incoming SMS to other applications.
You can connect to other applications in two ways either by email or by HTTP GET or POST request.

You can define these parameters in the settings menu in SmartSMS GUI.
Both of these forwarding parameters can be set.
Stop these forwarding parameters by empty the parameter text box.

SMS body Sample: myprefix My incoming SMS message

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Send to short number: 71160

12.1.1 Push incoming SMS via HTTP to external application

In the prefix settings you can set the parameter HTTP GET or POST address. When an incoming SMS is received by SmartSMS with your prefix, it's immediately pushed to the address given by you.

<http://www.mydomain.nu/myHandler.ashx?DestinationAdress=71160&OriginatorAdress=46762412957&GateWayId=1-12326796428&Message=myprefix My incoming SMS message&Operator=Tele2&UserDataHeader=&MessageAlphabet=&Prefix=myprefix ix&TimeStamp=20110426 17:04:02>

12.1.2 Forward incoming SMS via email to external application

In the prefix settings you can set the parameter forward incoming SMS to email address. When an incoming SMS is received by SmartSMS with your prefix, it's immediately forwarded to the email address given by you.

If you have set the prefix parameter auto response SMS in SmartSMS, you will see the response message in this email. If the auto response SMS was a premium SMS you will also see if the premium SMS was billed to the receiver. The auto response SMS will only be sent through your SmartSMS account and can only reply the message you have set up.

If you use our web services with your own website or application, you should take care of the auto reply SMS yourself. Then you can reply with different messages and different tariffs if you reply a premium SMS.

```
Received SMS to shortnumber: 71160
GateWayId:1-13603836645
SMSBody:myprefix My incoming SMS
OriginatorAddress:46733209918
```

```
*** SMS autoreply response info ***
SMSId:367919635510
ResponseCode:0
ReasonCode:0
ResponseStatus:Success
AutoReplyMessage:Tack för din beställning av test inkommande SMS, 2
kr
TemporaryError:False
SMSBearerCost:0,4
```

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Tariff: 2SEK
 BillingStatus: 3
 VAT: 0,25%

12.1.3 Receive SMS parameters

Parameter	Type	M/O/I	Default Value	Max length	Description
DestinationAddress	string	M		16	The short code which the SMS message was sent to. Example: 71160.
OriginatorAddress	string	M		40	The Consumer's MSISDN, starting with the country code (sender of the SMS message). Example: 46762050312. For some markets (where the Consumer MSISDN must be obfuscated) this value can also be an alphanumeric alias, prefixed with "#".
gateWayId	string	M		50	A unique gateway ID for the SMS message. This gateway ID should be used as reference ID when sending Premium MT message.
Message	string	M		160	The message content, see <i>(A comment on short message contents)</i> for more info about userData.
Operator	string	M		50	The name of the Operator sending the SMS message.
UserDataHeader	string	O		280	User Data Header together with the User Data can contain up to 140, i.e. 280 when hex-encoded, octets. This parameter is always hex-encoded, see <i>(A comment on short message contents)</i> . Behaviour may vary with Operator integrations.
MessageAlphabet	int	O		2	Indicates the message alphabet used in the SMS message: 0 – Default (GSM) 1 – 8 bit (binary) 2 – UCS2
Prefix	string	M		20	The short code connected to your account through a short number
TimeStamp	string	M		20	Time of arrival of the SMS message at the SMSC of the Operator. The time zone of the timestamp is CET or CEST (with summer time as defined for the EU). Format: yyyyMMdd HH:mm:ss.

Note: All parameters are always present, but may have a value with length 0.
 For an empty message, the following is sent: &Message=&...

13. Pricing policy

The SMS price is depending on several parameters.

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13.1.1 Pricing parameters

The pricing parameters are.

The Account name:

There are a big price different between the different connects.
Use the connect that suite your purpose best for the current SMS your about to send.
The account name can be change for every function call.

The euro rate:

The SMS price is depending on the euro rate.
The price could change slightly every day.

SMS discount:

Your potential SMS discount is automatically recalculated every day.
The discount is depending on the amount of SMS you have sent the last 30 days.
Check smartsms.se for the existing discount rate.
No discount is automatically recalculated for prepaid accounts.

14. A comment on short message contents

The message content (i.e. the userdata parameter) is represented in different alphabets depending on the DCS value. The basics are described in the table below. More information about SMS alphabets can be found in ETSI specifications for SMS. If you use DCS = 17 both the default and extended GSM alphabet characters can be used as is.

Alphabet	Applicable	Example (DCS/User data)	Max length	Description
GSM default alphabet	MO and MT	17 / abc@()/	160	Normal text message using the GSM default alphabet, see chapter 9.1.
GSM extended alphabet	MO and MT	17 / €{}[]\	<160	Text message using the GSM default alphabet and extension table, see chapter 9.2. Since every character from the extension table is represented by two characters the actual maximum length is dynamically calculated as: 160 k, where k is the number of extended characters used in the message.
UCS2	MO and MT	25 / ©%ä@	70	Unicode (16 bit), ISO/IEC 10646 character table.
Binary	MO and MT	21 / 42696e61727921	280	8-bit data binary message. Each byte is represented as a hex value using two characters per byte. The maximum message length is 140

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				bytes (i.e. 280 characters when hex encoded).
--	--	--	--	---

The maximum length of the message decreases as the header length increases when sending messages with user data header specified

Support for different alphabets may vary with operator integrations.

Note: due to a limitation in XML 1.0, some characters in the C0 range (control characters in the 0x0000-0x001F interval) cannot be supported. One of these unsupported characters is <PAGE BREAK>, which is included in the GSM alphabet extension table.

15. GSM character tables

The following table lists all characters and their decimal and hexadecimal codes as defined in the "GSM 7-bit default alphabet" text coding scheme. The corresponding character codes defined in ISO 8859 Latin 1 are also provided in the table for ease of reference. The GSM 7-bit default alphabet consists of 128 characters totally and each character is represented by 7 bits. 10 extra characters are defined in the GSM 7-bit default alphabet extension table and they have to be represented through an escape mechanism using the escape character (0x1B).

The extra characters are:

{ } [] ~ \ and the Euro symbol: €

Form feed
Caret / circumflex
Left curly bracket
Right curly bracket
Backslash
Left square bracket
Tilde
Right square bracket
Vertical bar
Euro sign

The codes of the 10 characters above begin with 0x1B (i.e. the escape character), which indicates they are escaped sequences. For example, the code of the Euro sign is 0x1B65. If the receiving entity (for example, a mobile phone) does not understand the escape mechanism, the escape character should be shown as the space character on the display device.

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Character		GSM 7-bit default alphabet (Decimal)	GSM 7-bit default alphabet (Hexadecimal)	ISO 8859 Latin 1 (Decimal)	ISO 8859 Latin 1 (Hexadecimal)
@	At sign	0	00	64	40
£	Pound sign	1	01	163	A3
\$	Dollar sign	2	02	36	24
¥	Yuan/Yen sign	3	03	165	A5
è	Small letter e with grave accent	4	04	232	E8
é	Small letter e with acute accent	5	05	233	E9
ù	Small letter u with grave accent	6	06	249	F9
ì	Small letter i with grave accent	7	07	236	EC
ò	Small letter o with grave accent	8	08	242	F2
Ç	Capital letter C with cedilla	9	09	199	C7
	Linefeed	10	0A	10	0A
Ø	Capital letter O with stroke	11	0B	216	D8
ø	Small letter o with stroke	12	0C	248	F8
	Carriage return	13	0D	13	0D
Å	Capital letter A with ring	14	0E	197	C5
å	Small letter a with ring	15	0F	229	E5
Δ	Capital letter Greek delta	16	10		
_	Underscore	17	11	95	5F
Φ	Capital letter Greek phi	18	12		
Γ	Capital letter Greek gamma	19	13		

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Character		GSM 7-bit default alphabet (Decimal)	GSM 7-bit default alphabet (Hexadecimal)	ISO 8859 Latin 1 (Decimal)	ISO 8859 Latin 1 (Hexadecimal)
Λ	Capital letter Greek lambda	20	14		
Ω	Capital letter Greek omega	21	15		
Π	Capital letter Greek pi	22	16		
Ψ	Capital letter Greek psi	23	17		
Σ	Capital letter Greek sigma	24	18		
Θ	Capital letter Greek theta	25	19		
Ξ	Capital letter Greek xi	26	1A		
	Escape	27	1B		
	Form feed	27 10	1B0A	12	0C
^	Caret / Circumflex	27 20	1B14	94	5E
{	Left curly bracket	27 40	1B28	123	7B
}	Right curly bracket	27 41	1B29	125	7D
\	Backslash	27 47	1B2F	92	5C
[	Left square bracket	27 60	1B3C	91	5B
~	Tilde	27 61	1B3D	126	7E
]	Right square bracket	27 62	1B3E	93	5D
|	Vertical bar	27 64	1B40	124	7C
€	Euro sign	27 101	1B65		
Æ	Capital letter AE	28	1C	198	C6
æ	Small letter ae	29	1D	230	E6
ß	Small letter German Eszett	30	1E	223	DF
É	Capital letter E with acute accent	31	1F	201	C9

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Character		GSM 7-bit default alphabet (Decimal)	GSM 7-bit default alphabet (Hexadecimal)	ISO 8859 Latin 1 (Decimal)	ISO 8859 Latin 1 (Hexadecimal)
	Space	32	20	32	20
!	Exclamation mark	33	21	33	21
"	Quotation mark	34	22	34	22
#	Number sign	35	23	35	23
¤	Currency sign	36	24	164	A4
%	Percent sign	37	25	37	25
&	Ampersand	38	26	38	26
'	Apostrophe	39	27	39	27
(	Left parenthesis	40	28	40	28
)	Right parenthesis	41	29	41	29
*	Asterisk	42	2A	42	2A
+	Plus sign	43	2B	43	2B
,	Comma	44	2C	44	2C
-	Minus sign / Hyphen	45	2D	45	2D
.	Full stop / Period	46	2E	46	2E
/	Slash	47	2F	47	2F
0	Digit zero	48	30	48	30
1	Digit one	49	31	49	31
2	Digit two	50	32	50	32
3	Digit three	51	33	51	33
4	Digit four	52	34	52	34
5	Digit five	53	35	53	35
6	Digit six	54	36	54	36
7	Digit seven	55	37	55	37
8	Digit eight	56	38	56	38
9	Digit nine	57	39	57	39

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Character		GSM 7-bit default alphabet (Decimal)	GSM 7-bit default alphabet (Hexadecimal)	ISO 8859 Latin 1 (Decimal)	ISO 8859 Latin 1 (Hexadecimal)
:	Colon	58	3A	58	3A
;	Semicolon	59	3B	59	3B
<	Less-than sign	60	3C	60	3C
=	Equals sign	61	3D	61	3D
>	Greater-than sign	62	3E	62	3E
?	Question mark	63	3F	63	3F
¡	Inverted exclamation mark	64	40	161	A1
A	Capital letter A	65	41	65	41
B	Capital letter B	66	42	66	42
C	Capital letter C	67	43	67	43
D	Capital letter D	68	44	68	44
E	Capital letter E	69	45	69	45
F	Capital letter F	70	46	70	46
G	Capital letter G	71	47	71	47
H	Capital letter H	72	48	72	48
I	Capital letter I	73	49	73	49
J	Capital letter J	74	4A	74	4A
K	Capital letter K	75	4B	75	4B
L	Capital letter L	76	4C	76	4C
M	Capital letter M	77	4D	77	4D
N	Capital letter N	78	4E	78	4E
O	Capital letter O	79	4F	79	4F
P	Capital letter P	80	50	80	50
Q	Capital letter Q	81	51	81	51
R	Capital letter R	82	52	82	52

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Character		GSM 7-bit default alphabet (Decimal)	GSM 7-bit default alphabet (Hexadecimal)	ISO 8859 Latin 1 (Decimal)	ISO 8859 Latin 1 (Hexadecimal)
S	Capital letter S	83	53	83	53
T	Capital letter T	84	54	84	54
U	Capital letter U	85	55	85	55
V	Capital letter V	86	56	86	56
W	Capital letter W	87	57	87	57
X	Capital letter X	88	58	88	58
Y	Capital letter Y	89	59	89	59
Z	Capital letter Z	90	5A	90	5A
Ä	Capital letter A with diaeresis	91	5B	196	C4
Ö	Capital letter O with diaeresis	92	5C	214	D6
Ñ	Capital letter N with tilde	93	5D	209	D1
Ü	Capital letter U with diaeresis	94	5E	220	DC
§	Section sign	95	5F	167	A7
¿	Inverted question mark	96	60	191	BF
a	Small letter a	97	61	97	61
b	Small letter b	98	62	98	62
c	Small letter c	99	63	99	63
d	Small letter d	100	64	100	64
e	Small letter e	101	65	101	65
f	Small letter f	102	66	102	66
g	Small letter g	103	67	103	67
h	Small letter h	104	68	104	68
i	Small letter i	105	69	105	69
j	Small letter j	106	6A	106	6A

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SMARTSMS WEBSERVICES 3.1

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Ärende/Subject SmartSMS			
Mottagare (avd nr, namn, geografisk placering)/Receiver (dept, name)			

Character		GSM 7-bit default alphabet (Decimal)	GSM 7-bit default alphabet (Hexadecimal)	ISO 8859 Latin 1 (Decimal)	ISO 8859 Latin 1 (Hexadecimal)
k	Small letter k	107	6B	107	6B
l	Small letter l	108	6C	108	6C
m	Small letter m	109	6D	109	6D
n	Small letter n	110	6E	110	6E
o	Small letter o	111	6F	111	6F
p	Small letter p	112	70	112	70
q	Small letter q	113	71	113	71
r	Small letter r	114	72	114	72
s	Small letter s	115	73	115	73
t	Small letter t	116	74	116	74
u	Small letter u	117	75	117	75
v	Small letter v	118	76	118	76
w	Small letter w	119	77	119	77
x	Small letter x	120	78	120	78
y	Small letter y	121	79	121	79
z	Small letter z	122	7A	122	7A
ä	Small letter a with diaeresis	123	7B	228	E4
ö	Small letter o with diaeresis	124	7C	246	F6
ñ	Small letter n with tilde	125	7D	241	F1
ü	Small letter u with diaeresis	126	7E	252	FC
à	Small letter a with grave accent	127	7F	224	E0

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16. Security

All SmartSMS web services use SSL (Secure Sockets Layer)

https://www.smartsms.nu/webservice31/SmsService.asmx

17. Exceptions

17.1.1 iPhone

Some of the features in SmartSMS 3.1 web service might not be used by iPhones.

Flash SMS might not be supported by iPhones.

Push SMS might not be supported by iPhones.

Alphanumeric originating address on iPhones must remain within 3 to 11 characters.

If you send an SMS with an alphanumeric originating address with 2 characters to an iPhone, the phone will response back that is has received the SMS, but the SMS cannot be showed by the iPhone.

17.1.2 deliveryTime

The parameter deliveryTime is not supported by all operators.

Some operators will send SMS immediately to the receiver even if the parameter deliveryTime is given. If you want to send time scheduled SMS and be safe, hold the SMS in your local system and send it to SmartSMS in just in time for deliverance. In that case do not set the deliveryTime parameter.

17.1.3 relativeValidityTime

The parameter relativeValidityTime is not supported by all operators.

If you have set the deliveryTime parameter to be sent in a future time and have set relativeValidityTime to a shorter non-default value, a problem can occur.

Some operators will use the local receive request time as a start time to count down the relativeValidityTime. The relativeValidityTime could then be passed before the operator sends the SMS. The SMS will directly get status expired.

If you want to send time scheduled SMS with the parameter relativeValidityTime and be safe, hold the SMS in your local system and send it to SmartSMS in just in time for deliverance. In that case do not set the deliveryTime parameter only the relativeValidityTime parameter.

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17.1.4 Operator integration error

If you get the `ResponseCode = 200` AND `ReasonCode = 0` in your gateway response, an *operator integration error* without reason code has occurred.

If you are using API web service 3.x to send SMS, you must try to send this SMS again.
If possible wait a few minutes before you try again.

If you using SmartSMS GUI (www.smartsms.nu) the SmartSMS gateway will try to send this SMS again within 10 to 60 minutes.

If the SmartSMS gateway fails to send current SMS within 60 minutes, it will not be sent and set to fail.

18. The use of SmartSMS

As in all other communications channels that include computers and software, errors can occur, due to computer, software or other infrastructure failure.

Any of SmartSMS functions must not be used for a life or material saving purpose in case of an emergency.

In these cases, SmartSMS can be used as complement to other channels as phone, mobile phone or e-mail communication.

WBS AB is trying our best to keep our systems as safe and reliable as possible.

WBS AB cannot be held responsible for any failures in the chain from sender to receiver when sending SMS.

19. Support

Support by phone

Open weekdays 9:00-12:00
 13:00-16:00

Phone: +46 (0)31 209919

Support by e-mail

E-mail address: support@smartsms.se

20. Wireless Business Solutions AB

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SmartSMS is owned by Wireless Business Solutions AB, WBS AB (556587-4731).
WBS AB was founded in 2000.

The first version of SmartSMS started in 2002 with SmartSMS 1.0.

WBS AB also owns sites like:

smartsms.se (ver.2 send SMS over Internet)
smartsms.nu (ver.3 send SMS over Internet)
domanregister.se (domain name registration)
inviso.se (webhotel)

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