

Strex Payment Platform REST API Implementation Guide

Version 0.91

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2 Revisions

Version	Description
0.9	First version
0.91	Added Strex registration widget information

3 Introduction

The Strex Payment REST API provides access to Strex Payment services available to Merchants. The services enable the Merchant to charge the End User and send the End user a SMS message. Also available are forwarding of SMS messages sent from the mobile terminal of the End User (MO) to 4-digit short numbers of the Merchant/Aggregator as well as Delivery Notifications of SMS messages (MT) sent from 4-digit short numbers of the Merchant/Aggregator.

The service is made available through a REST API for charging and send SMS, as well as an outgoing webservice API for forwarding SMS and Delivery Notifications. The outgoing API server side must be implemented on the Aggregators/Merchants end.

The implementation guide (this document) describes the necessary technical details to implement the functionality.

4 Overview

Strex payment service supports this functionality:

- Strex Direct Payment; Charge of end users (“Sell”)
- Strex SMS Payment; Charge of end users with SMS sent to end users (“Sell”)
- Sending mobile terminated SMS (MT) to end users
- Forwarding mobile originated SMS (MO) messages to the Strex Partner/merchant
- Reversal of transactions
- Delivery notifications to Strex Partner/merchant of all submitted MT messages (in sell and sendsms)
- Registration of End Users during Sell
- Preauthorization of Sell transactions
- API to get information about previously executed sell transactions
- API to get high-level information about End Users

Strex payment service supports a **total of 3 request pr second** pr Merchant (not including Forwarding mobile originated SMS and Delivery notifications). Capacity exceeding this threshold requires a specific agreement with Strex.

5 Getting started

Use of the service requires a Strex Merchant agreement and the technical information form must be filled in. Details on how to connect will be communicated when the agreement is in place.

6 Strex REST API Messages – Merchant to Strex

BaseUrl for all services (PROD environment): https://api.strex.no/services/rrtl

6.1 General Notes on APIs

'X-CorrelationID' parameter on the APIs is a unique identifier, allowing distinguishing duplicated requests.

Metadata is currently not in use.

Explanation on the tables: Table column "In*" contains the type, and if mandatory:

1. Location of the parameter in the HTTP request or response:
    a. H – header
    b. Q – query
    c. P – path
    d. B – body (json)
2. Mandatory, required (per OpenAPI terminology)
    a. M – mandatory, required
    b. O – optional (default)

6.1.1 POST Login

POST /v1/login

This command is used to authenticate the merchant and return an access token to be used in subsequent requests. The business functions require authentication to function.

Login using username/password and refresh token is supported.

6.1.1.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's unique CorrelationID	
clientId	B,M	string	Client Id (Merchant Reference), provided when an agreement is signed with Strex	mer_merchant
clientSecret	B,M	string	Client Secret (merchant password), provided when an agreement is signed with Strex	ASdgfg245aFGgty
grantType	B,M	string	'client_credentials' for normal login request or 'refresh_token' when login request contains refresh Token	client_credentials|refresh_token

6.1.1.2 Response Parameters

Name	In*	Type	Description	Example
accessToken	B,M	string	Access Token	Token, to be used as authorization for other APIs.
expiresIn	B	integer	Expiry duration	

Name	In*	Type	Description	Example
refreshExpiresIn	B	integer	Refresh Token Expiry duration	
refreshToken	B	string	refresh token	
tokenType	B	string	token type	
scope	B	string	scope	

6.1.1.3 Example

Request:
POST https://api.strex.no/services/rrtl/v1/login
POST /services/rrtl/v1/login HTTP/1.1
X-CorrelationID: 4a9161c6-085c-40ba-bbd0-ae811158d5e4
Content-Type: application/json; charset=UTF-8
Accept: application/json; charset=UTF-8
User-Agent: PostmanRuntime/7.47.1
Cache-Control: no-cache
Postman-Token: 5cf28d3f-bb02-4ff0-8d8a-9d99fc86a3ac
Host: ws.strex.no
Accept-Encoding: gzip, deflate, br
Connection: keep-alive
Content-Length: 103

{
"clientId": " mer_merchant ",
"clientSecret": " *********",
"grantType": "client_credentials"
}

Response:
HTTP/1.1 200 OK
Date: Wed, 24 Sep 2025 11:25:48 GMT
Content-Type: application/json;charset=UTF-8
Transfer-Encoding: chunked
Connection: keep-alive
X-CorrelationID: 4a9161c6-085c-40ba-bbd0-ae811158d5e4

{"accessToken":"eyJhbGciOi*********","expiresIn":18000,"refreshExpiresIn":21600,"refreshToken":"eyJhbGciOiJIUz********3MEHAU5rPjyOw","tokenType":"Bearer","scope":"login_info email profile"}

6.2 Financial Transactions

6.2.1 POST Sell

POST /transactions/v1/sell

The Sell function represents a payment for goods or services and allows a merchant (via merchant userid and a ShortNumber) to charge the end users mobile subscription bill or payment card as payment. Two options are available:

- Strex Direct Payment; Charge end users mobile subscription bill
- Strex SMS Payment; Charge End users mobile subscription bill and send an MT SMS to the End User in the same operation

Sell confirmation

Several End User confirmation options are currently available and can be set in sell request:

- No confirmation
- SMS Confirmation
- One Time Password
- BankID

6.2.1.1 Request Parameters

Name	In*	Type	Description	Example
Accept-Language	H	string	client's locale	
X-CorrelationID	H,M	string	client's CorrelationID. Must be unique for all requests	
amount	B,M	number	Amount, Sell amount in øre (1/100 NOK)	10025
currency	B,M	string	Currency, "NOK" for Norway	NOK
timeoutInSeconds	B	number	Timeout setting for sell transaction which triggers End User registration (licensed purchases). A value of 1-30 will put the sell on hold while registration is executed. Default value is set to 300 seconds (5 minutes) (subject to change). Possible values are: 0: prohibits triggering registration 1-1800: number of seconds sell transaction is put on hold. Whole numbers only	300
msisdn	B,M	string	End User MSISDN	4799999999
serviceCode	B,M	string	The Service Code identifies the type of goods or services being paid for. They are categories like Parking, Directory Service, etc. See appendix for a complete list of service codes.	01001
businessModel	B,M	string	Business model defines commercial agreed Strex payment fee for the item paid for. Please refer to the Merchant Agreement front page for the Business Model(s) that apply for your Merchant. Business Models apply for both test and prod environment.	BUSINESSMODEL

Name	In*	Type	Description	Example
confirmChannel	B	string	Selects the communication channel where End User confirms the purchase. Options SMS and USSD must be used in combination with merchant_sell_option = 2. Possible Values: • SMS: End User confirms purchase by replying “ok” or “yes” on a SMS. Only allowed for merchant_sell_option=2 • USSD: Not In use • OTP: End User confirms the purchase by OTP. OTP value must be provided in “one_time_pass” parameter and transid from generateOTP in otp_transid. Default setting if parameter is not provided or left blank is SMS. Also refer to short_code parameter description for information about the SMS confirm message sent to the end user.	SMS
otp	B	string	OTP generated in generateOTP flow. One Time Password entered by End User at merchant side.	1234
otpTransId	B	string	OTP Transaction Id, Strex transaction ID from the generateOTP request used to send the OTP to End User.	123456871234
age	B	integer	Age, The minimum age of the End User required for this payment.	18

Name	In*	Type	Description	Example
smsMessage	B	string	The SMS message to be sent if the transaction is successful. This may represent the content of a premium SMS to be sent to the End User when this payment is successfully completed. The parameter SMS_message decides if the transaction is charge or charge + SMS; • for Strex Direct Payment, do not enter a MT SMS message text; for Strex SMS Payment, enter a MT SMS message text	Text message sent to End User
invoiceText	B	string	The invoice text to be displayed to the end user on the Strex transaction report. (strex.no/minside)	BUS TICKET
deliveryNotify	B	string	A flag to indicate whether the Delivery Notification for the SMS Message above is required from the system that delivers the SMS. This shall not have any effect if SMS Message parameter is empty as no SMS message will be sent upon successful Charge. Defaults to True. If Delivery Notification is not required, set this parameter as false. Note: The Delivery Notification Flag only applies to the SMS delivery notification, in the case of a Sell trx that get's put on hold for Secure Web Registration, the Delivery Notification will be sent.	
validityPeriod	B	string	A period of time in seconds for which the responsible entity (e.g. SMSC) should keep trying to send the SMS Message to End User when the MSISDN is unreachable. Defaults to 36 hours (129600)(configurable).	129600
subNumber	B	string	Strex supports SubNumbers of 9 digits. Together with ShortNumber, they form Extended ShortNumber. Allowed length of the extended shortnumber is 14 digits.	123456789

Name	In*	Type	Description	Example
shortCode	B,M	string	Short code to be used as sender address of the SMS and/or MNO billing reference. If SMS confirm function is used, the following will apply to the **SMS confirm message only** to the end user: Full sender address will consist of short_code+10 digit sequential number which is used to match response from End User with request. Example sender address: “22221234567890”, where “2222” is the short_code and “1234567890” is the sequential number. If short_code parameter is in the direct payment short number range (4xxx) in the request, the default setting for sender address will be “2222+sequential number”.	2222
merchantSellOption	B	string	This parameter controls the use of the authorization method in terms of End User authorization is required. Possible values are: • 1 = «none» • 2 = «confirmation» • 3 = «pin» (not in use) • 4 = BankID confirmation The value 2 will trigger SMS confirm authorization on the mobile terminal of the End User depending on the settings in confirm_channel and/or End User settings. Merchant Sell Option overrides confirm_channel=OTP. Option 3 is currently not in use. Option 4 will trigger BankID if this is available for the End User.	2

Name	In*	Type	Description	Example
merchantRegSmsText	B	string	Merchant can change the text in the registration SMS using this parameter. The text will be prepended to strex registration link (example link: “strex.no/R/bYnN1j3-z5Jy0M/832/UM5”)	You need to register to purchase this
paymentSourceRestr	B	string	Some source of funds (e.g. payment cards and credit agreements) restricts payments for specific sectors, goods or services, as described in the Strex Merchant Agreement chapter 5.3. List of restricted sectors, goods or services is listed in **Feil! Fant ikke referansekilden.**. If any of the items in the list applies, set payment_source_restr=”true”	False
authorizationToken	B	string	Authorization token to be used when sell is preauthorized by the End User. Request settings for one_time_pass and confirm_channel will be overruled if authorization parameter is set.	283859283758696228375 6
changeDate	B	string	Used to validate if the MSISDN is associated to the same recipient on transaction date/time compared to the change_date. Format: YYYY-MM-DDTHH:MM:SS. Example: <urn:change_date>2023-05-01T00:00:00</urn:change_date>	2023-05-01 00:00:00
teletorgReq	B	object	Teletorg transactions	
teletorgReq.bNumber	B	number	The called teletorg number	82099999
teletorgReq.startTime	B	string	Start time of the charged teletorg voice call. Format: ‘YYYY-MM-DD’T’hh:mm:ss’	
teletorgReq.duration	B	integer	Charged voice call duration, in seconds	350
teletorgReq.startPrice	B	number	Start price for the charged voice call. Start price should be in 1/100 NOK (e.g. 1 NOK = 100 Øre).	2800
metadata	B	array		

6.2.1.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	string	Result Code	
resultDescription	B	string	Result Description	
transId	B,M	string	Unique Transaction Identifier	

Name	In*	Type	Description	Example
status	B	string	Transaction status	completed
msisdn	B,M	string	MSISDN	
postpaidOrPrepaid	B	string	Information about the End User's subscription type at the applicable MNO. Possible values are: • Postpaid • Prepaid	
handlingCompany	B	string	The Sell transaction has been handled by the Strex company indicated here, effective from 01.01.2023. Values: • "SxP" → Strex Payment AS • "SxMS" → Strex Mobile Services AS	
handlingCompDescr	B	string	Description of handling company, effective from 01.01.2023. Values: • "Strex Payment AS" • "Strex Mobile Services AS"	
messageType	B	string	Message Type	
metadata	B	array		

Example:

```
POST /services/rrtl/transactions/v1/sell HTTP/1.1
X-CorrelationID: 3c1c8e57-a8e5-489d-aec4-9c6b0fe350c8
Content-Type: application/json; charset=UTF-8
Accept: application/json; charset=UTF-8
Authorization: Bearer eyJhbGciOi*********
User-Agent: PostmanRuntime/7.47.1
Cache-Control: no-cache
Postman-Token: 3021c763-e488-43f6-988c-a4f23e7b84a3
Host: ws.strex.no
Accept-Encoding: gzip, deflate, br
Connection: keep-alive
Content-Length: 287

{
"amount": 100,
"businessModel": "STREX-PAYMENT",
"currency": "NOK",
```

```
"msisdn": "4799999999",
"serviceCode": "01001",
"shortCode": "2497",
"timeoutInSeconds": 300,
"age": 18,
"smsMessage": "Text message sent to End User",
"invoiceText": "BUS TICKET"
}
-----------------------------------
HTTP/1.1 201 Created
Date: Wed, 24 Sep 2025 11:35:39 GMT
Content-Type: application/json;charset=UTF-8
Transfer-Encoding: chunked
Connection: keep-alive
X-CorrelationID: 3c1c8e57-a8e5-489d-aec4-9c6b0fe350c8

{"resultCode":0,"resultDescription":"completed","transId":"a66b09609af9a1703576153f8dcc795b","status":"
completed","msisdn":"4799999999","postpaidOrPrepaid":"POSTPAID","handlingCompany":"SxP","handlingCo
mpDescr":"Strex Payment AS","messageType":"Sell Charge SMS","metadata":[]}
```


6.2.2 GET Sell

GET /transactions/v1/sell

6.2.2.1 Request Parameters

Name	In	Type	Description	Example
Accept-Language	H	string	client's locale	
X-CorrelationID	H,M	string	client's CorrelationID. Must be unique for all requests	
Id	P,M	string	Could be either a CorrelationID or Strex transactionId	
lookupBy	Q	string	Should be "correlationId" or "transactionId" only	correlationId

6.2.2.2 Response Parameters

Response body is the same for POST and GET.

Example request types:

GET https://api.strex.no/services/rrtl/transactions/v1/sell/**xxx**

GET https://api.strex.no/services/rrtl/transactions/v1/sell/**eee**?lookupBy=correlationId

Example

```
GET /services/rrtl/transactions/v1/sell/909af7b64249c8af2dd038084931718c HTTP/1.1
X-CorrelationID: 8e3a70b8-9c09-46c7-820e-53a8464ab25e
Accept: application/json; charset=UTF-8
Authorization: Bearer eyJhbGciOiJSUzI1NiIsInR5cCI**********
User-Agent: PostmanRuntime/7.47.1
Cache-Control: no-cache
Postman-Token: 638598b2-c9aa-4e6a-8ff4-fd8ff99a134f
Host: ws.strex.no
Accept-Encoding: gzip, deflate, br
Connection: keep-alive

HTTP/1.1 200 OK
Date: Wed, 24 Sep 2025 12:38:52 GMT
Content-Type: application/json;charset=UTF-8
Transfer-Encoding: chunked
Connection: keep-alive
X-CorrelationID: 8e3a70b8-9c09-46c7-820e-53a8464ab25e

{"resultCode":0,"resultDescription":"SUCCESS","transId":"909af7b64249c8af2dd038084931718c","status":"SUCCESS","msisdn":"4799314427","postpaidOrPrepaid":"POSTPAID","handlingCompany":"SxP","handlingCompDescr":"Strex Payment AS","messageType":"Sell Direct Charge","metadata":[]}
```

6.2.3 POST Reverse

POST /transactions/v1/reverse

This function is used to reverse a previous successful payment transaction. Only reversal of the full amount is supported.

If the transaction id of the original Sell transaction is needed in the response, use one of the parameters fields for external/merchant reference as reference since the original sell transaction reference is not returned in the response by default.

Reversal is available up to 6 months (180 days) after the Sell transaction is executed.

6.2.3.1 Request Parameters

Name	In*	Type	Description	Example
Accept-Language	H	string	client's locale	
X-CorrelationID	H,M	string	client's CorrelationID. Must be unique for all requests	
origCorrelationId	B	string	'correlationID' received from merchant in the sell request.	
origTransId	B	string	Strex sell transaction ID	
refundReason	B	string	Description of the refund	Purchase returned
metadata	B	array		

6.2.3.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	string	Result Code	
resultDescription	B	string	Result Description	

Name	In*	Type	Description	Example
transId	B,M	string	Unique Transaction Identifier	
metadata	B	array		

Example

```
POST /services/rrtl/transactions/v1/reverse HTTP/1.1
Accept-Language: elit Duis
X-CorrelationID: 9eb0b769-f603-4303-8c78-56096146595c
Content-Type: application/json; charset=UTF-8
Accept: application/json; charset=UTF-8
Authorization: Bearer 0THhhS3pjTkxwbUI1cEpMZ*********Vd4RHVkdGpBbjNsNjAwNTc5Q3RVIn0.
User-Agent: PostmanRuntime/7.48.0
Cache-Control: no-cache
Postman-Token: 2ae5d896-08f5-485e-8202-aaced62e2e14
Host: ws.strex.no
Accept-Encoding: gzip, deflate, br
Connection: keep-alive
Content-Length: 59

{
"origTransId": "c10c2268a80642de151a62f477fe80c2"
}

HTTP/1.1 201 Created
Date: Thu, 09 Oct 2025 11:29:14 GMT
Content-Type: application/json;charset=UTF-8
Transfer-Encoding: chunked
Connection: keep-alive
X-CorrelationID: 9eb0b769-f603-4303-8c78-56096146595c

{"resultCode":0,"resultDescription":"completed","transId":"35d82580c34b5bb6372959b1b0a08be9","metadata":[]}
```

6.2.4 GET Reverse

GET /transactions/v1/reverse

Used to get transaction status and result.

6.2.4.1 Request Parameters

Name	In	Type	Description	Example
Accept-Language	H	string	client's locale	
X-CorrelationID	H,M	string	client's CorrelationID. Must be unique for all requests	
Id	P,M	string	Could be either a CorrelationID or Strex transactionId	
lookupBy	Q	string	Should be "correlationId" or "transactionId" only	correlationId

6.2.4.2 Response Parameters

Response body is the same for POST and GET.

Example request types:

GET https://api.strex.no/services/rrtl/transactions/v1/reverse/**xxx**

GET https://api.strex.no/services/rrtl/transactions/v1/reverse/**eee**?lookupBy=correlationId

Example

```
GET /services/rrtl/transactions/v1/reverse/35d82580c34b5bb6372959b1b0a08be9 HTTP/1.1
X-CorrelationID: d4d06877-ac70-456a-bbff-f4e1ea05ebb9
Accept: application/json; charset=UTF-8
Authorization: Bearer eyJhbGciOiJSUzI1NiIsInR****kxR9rN27NVseqql0AtRBvTzu_
User-Agent: PostmanRuntime/7.48.0
Cache-Control: no-cache
Postman-Token: c3dfe7e1-2aed-44a7-bc11-39b4d29ece05
Host: ws.strex.no
Accept-Encoding: gzip, deflate, br
Connection: keep-alive

HTTP/1.1 200 OK
Date: Mon, 13 Oct 2025 13:24:54 GMT
Content-Type: application/json;charset=UTF-8
Transfer-Encoding: chunked
Connection: keep-alive
X-CorrelationID: d4d06877-ac70-456a-bbff-f4e1ea05ebb9

{"resultCode":0,"resultDescription":"SUCCESS","transId":"35d82580c34b5bb6372959b1b0a08be9","metadata":[]}
```

6.3 User Information Transactions

6.3.1 GET UserStatus (Get User information)

GET /services/v1/userStatus

The UserStatus function returns information about an End Users registration status on the Strex Payment Service and the latest registered terminal type (handset OS).

6.3.1.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID	
msisdn	Q,M	string	MSISDN of the End User 10 digits on format “4798654321”	

6.3.1.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	integer	Result Code	
resultDescription	B	string	Result Description	

Name	In*	Type	Description	Example
transId	B,M	string	Unique Transaction Identifier	
msisdn	B,M	string	MSISDN of the End User	
validity	B,M	string	Describes validity for licensed purchases as well as barring. 0 = not registered 1 = Registered, but not valid for licensed purchase. 2 = Valid for licensed purchase 3 = MNO billing barred 4 = Registered and BankID authenticated	
metadata	B	array		

Example request/response: Please refer to swagger

6.3.2 GET userSellEligibility (Get User information v2)

Known as getUserInfov2 in the SOAP api.

GET /services/v1/userSellEligibility

The userSellEligibility function runs an extensive "sell validation check". Based on the input parameters, the response will provide an **indicative** response on whether the subscriber can be charged with the given input parameters. The function checks:

- Subscriber blocked or suspended status
- MNO subscription status (active/inactive)
- MNO CPA (premium SMS billing) barring
- MNO agreement/integration with Strex
- Validation of PSD2 limits (single transactions and aggregated monthly amount)
- Validation of MNO and card billing limits (single transactions and aggregated monthly amount)
- Validity for licensed purchases
- Subscriber Age if present in request
- MNO prepaid balance (selected merchants)

6.3.2.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID	
msisdn	Q,M	string	MSISDN of the End User 10 digits on format "4798654321"	4799999999
age	Q	integer	Subscriber age. If provided, age of subscriber is checked to be above the input age.	18
amount	Q,M	number	The amount to charge the subscriber. Amount should be in 1/100 NOK (e.g. 1 NOK = 100 Øre).	10025
serviceCode	Q,M	string	serviceCode	01001
currency	Q,M	string	Currency, "NOK" for Norway	NOK

6.3.2.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	string	Result Code	
resultDescription	B	string	Result Description	
transId	B,M	string	Unique Transaction Identifier	
metadata	B	array		

Example request/response: Please refer to swagger

Valid Status Codes for userSellEligibility request:

Error code	Description	Explanation
3	AGENT_NOT_FOUND	The Agent attempting to access the system could not be found
4001	MNO_NOT_RESOLVED	The End Users MNO does not have an agreement with Strex/technical error, i.e. Strex could not identify which MNO the End User belongs to.
4070	MISSING_FIELD	Missing mandatory input parameter
4081	INVALID_REQUEST	INVALID_REQUEST
4116	SSN_BLACKLISTED	The End User is blacklisted
4120	Error during PSD2 validation	Error during PSD2 validation
4169	FAILED_BY_PAYMENT_RESTRICTION_MATRIX_VALIDATION	End User has no available Payment Source (i.e. CPA barred, and alternative payment source is not registered)
4170	PSD2_SERVICE_CODE_IS_LICENSED	End User is unregistered and Service_code is licensed
4171	PSD2_IN_BYPASS_GROUP_BUT_SUSPENDED	End User is suspended
4172	PSD2_AMOUNT_VIOLATE_LIMIT	amount over PSD purchase limit
4173	PSD2_SUBSCRIBER_SUSPENDED	End User is suspended
4174	PSD2_CAPSET_EXCEEDED	amount over PSD monthly purchase limit
4176	SUBSCRIBER_NOT_ACTIVE	Subscriber does not have an active subscription
4183	IMEI_IS_BLACKLISTED_ACCESS_DENIED	Handset (IMEI) is blacklisted.
4218	Amount exceeds the MNO subscriber balance.	Amount exceeds subscriber prepaid balance
4219	Amount exceeds the MNO payment restrictions.	Amount exceeds the subscriber max monthly amount defined at MNO

6.3.3 GET userSellLimits (Get User Information v3)

Known as getUserInfoV3 on the SOAP api

GET /services/v1/userSellLimits

The userSellLimits function retrieves the current (snapshot at the time of the request) transaction limits for an End User. The transaction limits depends on End User registration level, age and preferred payment method (MNO bill or card payment). The response will provide an **indicative** response, i.e. there is no guarantee that the sell will pass. MNO status (e.g. prepaid balance, CPA block etc.) can be checked for selected merchants and some MNOs only(depending on implementation by the MNOs). Payment Card balance is not checked.

6.3.3.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID	
msisdn	Q,M	string	msisdn	4799999999

6.3.3.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	integer	Result Code	
resultDescription	B	string	Result Description	
transId	B,M	string	Unique Transaction Identifier	
preferredSOF	B,M	string	subscriber's preferred source of funds (1=MNO bill, 2=invoice, 3=payment card)	
postpaidOrPrepaid	B	string	Subscriber MNO subscription type: - "prepaid" - "postpaid"	Postpaid
limitTrans	B,M	string	Maximum amount (In øre) which can be charged in a single sell transaction	
remainderMonth	B,M	string	Remaining monthly amount (in øre) which can be charged the subscriber before exceeding the monthly limit. "0" - limit already reached	
remainderYear	B,M	string	Remaining yearly amount (in øre) which can be charged the subscriber before exceeding the yearly limit. "0" - limit already reached "-1" - no limit applicable, subscriber valid for purchases above defined yearly limit	
currency	B	string	Currency	NOK
metadata	B	array		

Example request/response: Please refer to swagger

6.4 Messaging

6.4.1 POST confirmSMS

POST /transactions/v1/confirmSMS

End User confirmation by replying “ok” or “yes” on a SMS. The SMS is sent from a 13 digit sender address.

6.4.1.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID	
Accept-Language	H	string	client's locale	
msisdn	B,M	string	MSISDN of subscriber	4712345678
smsOriginator	B	string	The four digit SMS shortnumber used by the merchant. Together with subnumber, they form the Extended ShortNumber which will be the sender of the confirmation SMS received on the subscriber handset. If not supplied in the request, Strex default number “2222” will be used as the shortnumber. Example sender address: ”2222123456789” Please note that shortnumbers in the 4xxx series cannot be used for this request.	2222
message	B	string	Optional SMS message text supplied by the merchant. Max. 1024 characters. A default text “Bekreft ved å svare OK på denne meldingen” will be used if the message text is not supplied by the merchant.	Please confirm your purchase by replying this SMS with OK or Ja. To decline reply Nei
metadata	B	array		

6.4.1.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B	string	Result Code	0
resultDescription	B	string	Result Description	Success
transId	B,M	string	Unique Transaction Identifier	f76c0ee5ad0e8604abb3d5ce2e4ee682
status	B	string	Transaction status	completed
metadata	B	array		

Example request/response: Please refer to swagger

6.4.2 GET confirmSMS

GET /transactions/v1/confirmSMS

Used to get transaction status and result.

6.4.2.1 Request Parameters

Name	In	Type	Description	Example
Accept-Language	H	string	client's locale	
X-CorrelationID	H,M	string	client's CorrelationID. Must be unique for all requests	
Id	P,M	string	Could be either a CorrelationID or Strex transactionId	
lookupBy	Q	string	Should be "correlationId" or "transactionId" only	correlationId

6.4.2.2 Response Parameters

Response body is the same for POST and GET.

Example request/response: Please refer to swagger

6.4.3 POST sendSMS

POST /transactions/v1/sendSMS

This function allows the merchant to send an SMS to an End User.

Please note:

- the parameter sms_originator must be set for all SendSMS requests. Norwegian characters in sms_originator is not supported for messages sent via NetCom SMSC.
- Delivery Notification for SendSMS is supported for all MNOs.

6.4.3.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID. Must be unique for all requests	
Accept-Language	H	string	client's locale	
message	B,M	string	The SMS message. Max. 1024 characters	Here is your SMS message
msisdn	B,M	string	MSISDN, 10 digits. The End User who will receive the SMS. The end user is an End User with a MNO/service provider that have an agreement with Strex.	4712345678
smsOriginator	B,M	string	SMS Originator. The Address that the receiver will see this message has come from. Norwegian characters only supported for some MNOs.	2222
deliveryNotify	B	string	Delivery Notification flag, true/false	true
metadata	B	array		

6.4.3.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	string	Result Code	0
resultDescription	B	string	Result Description	Success
transId	B,M	string	Unique Transaction Identifier	f76c0ee5ad0e8604abb3d5ce2e4ee682
metadata	B	array		

Example request/response: Please refer to swagger

6.5 preAuthorization

6.5.1 POST preAuthorisation

POST /services/v1/preAuthorisation

Preauthorizated payments are recurring payments where the End User have confirmed that Sell transactions for a merchant can be executed without End User confirmation on each Sell.

Preauthorization request returns a token to the merchant to be used in subsequent sell transactions.

The token Issued by Strex does not expire after a given time period. Therefore, there is no time limit for Sell transactions referencing a pre-authorize token. However, the token may be made invalid by Strex in some situations. Please refer to the Code of Conduct document.

If required, please contact Strex Technical Support.

Please note that the End User needs to be a user on the Strex payment platform prior to preauthorize request to be successful, so the following process need to be followed:

Process using SMS confirm:

1. The End User purchase a service or good from the merchant by executing a sell request.
2. The merchant triggers a preauthorization request on Strex Payment Service
3. The End User confirms future payments in the SMS dialogue on the mobile handset
4. For each subsequent payment for the same End User, the merchant send the Sell request with «authorization» parameter and no SMS or authorization from End User is needed.

Preauthorization can also be confirmed by using an OTP, please refer to generateOTP chapter.

Preauthorization tokens can be shared between merchants, upon agreement with Strex.

6.5.1.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID	
msisdn	B,M	string	MSISDN of subscriber	4799999999

Name	In*	Type	Description	Example
confirmChannel	B	string	Selects the communication channel where End User confirms the purchase. Must be used in combination with security_level = 2. Possible Values: • SMS: End User confirms preAuth request by replying “ok” or “yes” on a SMS. Only allowed for security_level = 2. Timeout for end user response is 90 sec. • USSD: not In use • OTP: End User confirms the preAuth by OTP. OTP value must be provided in “one_time_pass” parameter and transid from generateOTP in otp_transid. Default setting if parameter is not provided or left blank is SMS.	SMS
otp	B	string	One Time Password entered by End User at merchant side.	1234
otpTransId	B	string	Strex transaction ID from the generateOTP request used to send the OTP to End User.	832823989832
shortCode	B	string	short_code to be used as sender address of the SMS Confirm message. Full sender address will consist of short_code+10 digit sequential number which is used to match response from End User with request. Example sender address: “22221234567890”, where “2222” is the short_code and “1234567890” is the sequential number. If parameter is missing or left blank or in the direct payment short number range (4xxx) in the request, the default setting for sender address will be “2222”.	2222
age	B	string	The minimum age of the End User required for this request. If not set or present in the request, there is no age limit.	18

Name	In*	Type	Description	Example
securityLevel	B	string	This is the required Confirmation type of the preAuth: 1 = “none” (use of this setting requires an agreement with Strex) 2 = “Confirmation” 3 = “PIN” (not in use) 4 will trigger BankID If this Is available for this End User. Security level overrides OTP setting in confirm_channel	2
messagePrefix	B	string	messagePrefix	Message prefix...
messageSuffix	B	string	messageSuffix	Message suffix...
tokenDescription	B	string	tokenDescription	Description of service.
metadata	B	array		

6.5.1.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	string	Result Code	
resultDescription	B	string	Result Description	
transId	B,M	string	Unique Transaction Identifier	
authorizationToken	B	string	authorizationToken	
status	B	string	Transaction status	completed
metadata	B	array		

Example request/response: Please refer to swagger

6.5.2 GET preAuthorization

GET /services/v1/preAuthorisation/{Id}

Is used to check if the status of a preAuth request.

6.5.2.1 Request Parameters

Name	In*	Type	Description	Example
Accept-Language	H	string	client's locale	
X-CorrelationID	H,M	string	client's CorrelationID. Must be unique for all requests	
Id	P,M	string	Could be either a CorrelationID or Strex transactionId	
lookupBy	Q	string	Should be "correlationId" or "transactionId" only	correlationId

6.5.2.2 Response Parameters

Same as POST response for the respective transaction.

Example request/response: Please refer to swagger

6.5.3 DELETE preAuthorisation

DELETE /services/v1/preAuthorisation

Used to delete a preAuth token.

6.5.3.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID	
msisdn	Q,M	string	msisdn	
authorizationToken	Q,M	string	authorization Token to delete	

6.5.3.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	string	Result Code	
resultDescription	B	string	Result Description	
transId	B,M	string	Unique Transaction Identifier	
metadata	B	array		

Example request/response: Please refer to swagger

6.5.4 POST generateOtp

POST /services/v1/generateOtp

generateOTP will send a One Time Password (4 digit PIN) to the End User which can be used for confirmation of a subsequent sell or preauthorize transaction. The OTP is generated by Strex platform when generateOTP request is received. End User will enter the OTP on a merchant interface (web-page, app etc.) and the merchant can initiate a Sell or preauthorization with the OTP and transid of the generateOTP request included. The OTP/transid will then be verified by Strex platform.

OTP is valid for one-time use only.

The process flow below describes the process of generating an OTP and using it in a subsequent sell or preauthorization transaction.

OTP SMS message format: <prefix_message><Strex text><Suffix message>

The total SMS message length must not exceed 1024 characters.

OTP SMS message example: «A prefix message here. 1234 er din engangskode for å inngå avtale om fremtidige belastninger til CompanyName. Suffix message here.»

6.5.4.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID	
recurring	B,M	boolean	True/false. Set as "false" for use in a sell transaction Set as "true" for use in preAuth transactions	
msisdn	B,M	string	MSISDN, The mobile subscriber (End User) who receives the OTP SMS	4799999999
smsOriginator	B	string	SMS Originator, The Address that the receiver will see this message has come from. Norwegian characters only supported for some MNOs. A default sms_originator (Currently "Engangskode") will be used if not set in request.	Strex
timeout	B	string	Timeout, Validity period for OTP. Defined in seconds. Minimum 1, max 86400 (24 hours). If not set in request, default value of 300 (5 min) will be used.	120
deliveryNotify	B	string	Delivery notify, True/false. If set to "true", a delivery notification request will be sent to the merchant.	true
messageSuffix	B	string	Text string which will be prepended to the standard Strex SMS message sent to the subscriber	Message suffix...
messagePrefix	B	string	Text string which will be appended to the standard Strex SMS message sent to the subscriber	Message prefix...
metadata	B	array		

6.5.4.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	string	Result Code	
resultDescription	B	string	Result Description	
transId	B,M	string	Unique Transaction Identifier	
metadata	B	array		

Example request/response: Please refer to swagger

6.6 User Registration

6.6.1 POST userRegistration

POST /services/v1/userRegistration

Known as selfRegisterv3 in the SOAP API.

Initiates a registration request for an End User

6.6.1.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID	
msisdn	B,M	string	MSISDN, The mobile subscriber (End User) who receives the registration SMS	4799999999
message	B,M	string	SMS text to be added in the registration SMS. Example: "please register here" "strex.no/R/rlE1pkY-5Gv598/832/" will be added by Strex. If supplied by merchant, the campaign code will be appended (here "SX1") Complete SMS example: "Please register here: strex.no/R/rlE1pkY-5Gv598/832/SX1"	Please register.
campaignCode	B	string	The campaign code will be stored on the user profile of the registered End User for statistical purposes. Example "SX1"	Camp01
metadata	B	array		

6.6.1.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	string	Result Code	
resultDescription	B	string	Result Description	
transId	B,M	string	Unique Transaction Identifier	
metadata	B	array		

Example request/response: Please refer to swagger

6.7 GET health

GET /v1/health

Used as a healthcheck for Strex services. Will respond with "UP"

6.7.1.1 Request Parameters

None

6.7.1.2 Response Parameters

Name	In	Type	Description	Example
status	B,M	string	Health status of the application	UP

Example request/response: Please refer to swagger

6.8 Strex notification REST API – Strex to Merchant

This chapter describes the requests and responses for the web services that must be implemented by the merchant (server-side).

6.8.1 SMSForward

The SMS forward function allows Merchants to receive SMS's sent to their shortnumber via Strex.

Please note that Strex supports subnumber of 9 digits also for MO SMS.

In case of network issues the merchant might receive duplicate smsforward requests (multiple forwardSMS requests with same messageRequestId), make sure these are filtered to avoid duplicate charging requests.

6.8.1.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID	
Type	B,M	string	Type of message	forwardSMS
timeStamp	B,M	Date-time	Timestamp of message when received from MNO in outgoing requests	2023-10-01T12:00:00Z
messageRequestId	B,M	string	Unique request Id for the Message	4b3e7a5d-659e-3585-1ea4-39c4faa1d476
shortCode	B,M	string	The shortcode the message was sent to	1234
msisdn	B,M	string	MSISDN, The mobile subscriber (End User) who receives the registration SMS	4799999999
mnoRef	B	string	Which MNO the message was received from	telenor
message	B,M	string	SMS text	Hello world!
metadata	B	array	Not in use	

6.8.1.2 Response Parameters - TODO

Name	In*	Type	Description	Example
resultCode	B,M	string	Result Code	

Example request/response: Please refer to swagger

6.8.2 Delivery Notification

Delivery Notification informs Merchants about the delivery status of MT-SMS messages (SMS Payment and SendSMS), and status of the Sell transaction in case Easy Web Registration has been triggered.

Note: The Delivery Notification Flag in the Sell request only applies to the SMS delivery notification, in the case of a Sell trx that get's put on hold for Easy web registration, the Delivery Notification will always be sent.

6.8.2.1 Request Parameters

Name	In*	Type	Description	Example
X-CorrelationID	H,M	string	client's CorrelationID	
type			Type of message	deliveryNotification

Name	In*	Type	Description	Example
timeStamp	B	Date-time	Timestamp of message when received from MNO in outgoing requests	2023-10-01T12:00:00Z
messageRequestId	B,M		Unique request Id for the Message	2023-10-01T12:00:00Z
origCorrelationId	B		Original 'correlationID' from Sell/sendSMS	9282f50277668f7c462cf83bef2a2e16
origTransId	B		Original 'transId' from Sell/sendSMS	3b4e7a5d-659e-3585-2ea4-29c4faa1d471
shortCode	B,M	string	The shortcode the message was sent to	1234
msisdn	B,M	string	MSISDN, The mobile subscriber (End User) who receives the registration SMS	4799999999
mnoRef	B	string	Which MNO the message was received from	telenor
statusCode	B,M		CPA Status Code for the message	0
statusDescription	B,M		Description for the Status Code	Message Sent Successfully
metadata	B	array	Not in use	

6.8.2.2 Response Parameters

Name	In*	Type	Description	Example
resultCode	B,M	string	Result Code	
resultDescription	B	string	Result Description	
metadata	B	array		

Example request/response: Please refer to swagger

6.8.3 Retry schedule

Strex platform will retry delivery of SMS forward and DN to the merchant if delivery is unsuccessful. The following retry schedule is implemented (subject to change):

Number of retries	Time since previous unsuccessful delivery	Retry number
1	15 sec	1
1	5 min	2

7 Strex registration widget

This is a JavaScript widget used for adding an iframe to your page where users can register at Strex to be able to pay for services that requires registration.

Documentation of this solution can be found here: https://knowledgebase.strex.no/strex-technical-documentation/strex-registration-widget

8 Appendixes

8.1 Appendix A Strex REST api response codes

8.1.1 Functional Response codes

Response Code	Response code constants	Response Message
0	SUCCESS_RESULT	
1	MENDATORY_PARAMETER_MISSING	Mandatory parameter is missing
1	BAD_FORMAT	Bad format
3	AGENT_NOT_FOUND	Initiator not found.
4	AGENT_NOT_REGISTERED	Subscriber not registered
5	AGENT_INACTIVE	Agent inactive
6	INITIATOR_SUSPENDED	Initiator is suspended
7	ACCESS_DENIED	Access Denied
13	TARGET_NOT_FOUND	Subscriber not found
15	TARGET_INACTIVE	
16	TARGET_SUSPENDED	target is suspended
17	INVALID_AMOUNT	Invalid amount: <= 0 Invalid amount: scale() > 2
18	ALREADY_REGISTERED	SSN in request matches with SSN in profile. Failing the txn
19	INITIATOR_BLOCKLISTED	Initiator is Blocklisted
20	TARGET_BLACKLISTED	Subscriber is blacklisted Subscriber is block listed, not proceeding further target is Blocklisted
23	AMOUNT_TOO_SMALL	Amount too small
24	AMOUNT_TOO_BIG	Amount too big
29	INVALID_PASSWORD	Registration failed due to invalid PIN try again
36	TRANSACTION_TOO_OLD	
38	INITIATOR_STOPPED	Initiator is stopped
39	TARGET_STOPPED	Target Stopped
46	AMOUNT_OUT_OF_RANGE	Amount out of range
66	CONNECTION_OFFLINE	Connection offline
75	REVERSAL_FAILED	
84	INVALID_MSISDN	invalid msisdn
404	TARGET_NOT_FOUND	Target not found
580	ONE_TIME_PASSWORD_EXPIRED	One time password expired
580	ONE_TIME_PASSWORD_EXPIRED	
581	ONE_TIME_PASSWORD_MISMATCH	Password Mismatch
582	OTP_ALREADY_VERIFIED	
841	SCA_RULE_UPDATE	roll back sca risk factor
1006	SYSTEM_ERROR	system error
1007	SYSTEM_ERROR	System Error Database Error

1008	OTP_BAD_REQUEST	Recipient is a mandatory Parameter cannot have null SMS Originator must be 4 or (11 to 14) digits
1011	INCORECT_CONFIRM_MESSAGE	Message is not correct
1026	MSISDN_MISMATCH	MSISDN must match the requester subscriber
1111	SSN_ALREADY_EXIST	Already exist partyId
2571	COMPANY_SPLIT_DATE_INVALID_FORMAT	
2572	HANDLING_COMPANY_DESCRIPTION_NOT_FOUND	
2573	DISABLE_HANDLING_COMPANY_FIELDS_GRP_QUERY_EXCEPTION	
2574	HANDLING_COMPANY_CODE_PROPERTY_MISSING_IN_PROPERTY_FILE	
4001	MNO_NOT_RESOLVED	MNO of subscriber not resolved
4002	MNO_CHANGED	mno changed
4003	MSISDN_NOT_RESOLVED	Unable to decrypt subscriber
4004	IP_ADDRESS_NOT_RESOLVED	Unable to decrypt IP address Unable to translate IP address
4005	REGISTRATION_REQUIRED	Self registration is required
4006	CONFIRMATION_REQUIRED	User requires Lower Security Level
4008	IDENTITY_NOT_RESOLVED	DSF Lookup Skipped due to insufficient params from MNO Unable to lookup subscriber on DSF Verify DSF failed
4009	AGENT_BARRED	Agent has been barred
4010	SUBSCRIBER_SSN_NOT_MATCHED	Subscriber SSN does not match with the provided SSN
4011	SUBSCRIBER_NOT_SELF_REGISTERED	Subscriber not self registered
4012	DOB_MISSING	Date of Birth Missing
4013	AGE_UNKNOWN	Age not allowed
4014	AGE_NOT_ALLOW	Age not allowed
4020	USER_CHANGED	User Changed
4030	DN_FAILED	Delivery Notification Failed
4039	DUP_BUSINESS_TRANS_ID	
4040	DUP_EXT_REF	Duplicate trans_ext_reference provided in request
4041	AGE_VALIDATION	Transaction not allowed for this amount
4042	MONTHLY_TRANSACTION_LIMIT_EXCEEDS	Monthly transaction limit exceeded
4043	SELL_REJECTED_BY_SUBSCRIBER	Rejected by subscriber
4044	SELL_REJECTED_DUE_TO_MAX_RETRY	Invalid user input
4047	SELL_REJECTED_DUE_TO_MAX_RETRY_PIN	Max number of PIN trials exceeded
4048	SELL_REJECTED_DUETO_BLANK_RESP	
4049		Invalid ShortCode
4050	USER_REQUIRE_LOWER_SECURITY_LEVEL	User requires Lower Security Level
4051	INVALID_CONSENT_LEVEL	Purchase with Insufficient Security Level
4051	PURCHASE_WITH_INSUFFICIENT_SECURITY_LEVEL	Purchase with Insufficient Security Level
4052	CONFIRMATION_DISABLED_FOR_ICE	USSD Confirmation is disabled for MNO ICE
4053	INSUFFICIENT_REGISTARTION_lEVEL	Insufficient registration level
4054	MINOR_NOT_ALLOWED	Minor not allowed to perform invoice/payment transaction
4055	STREX_INVOICE_DISABLED_FOR_ICE	Strex Invoice Disabled for ICE

4056	ARVATO_CONFIRM_REJECTED_DUE_TO_BLANK_RESP	Arvato confirm rejected due to blank response
4057	ARVATO_REJECTED_BY_SUBSCRIBER	ARVATO Rejected by Subscriber
4058	ARVATO_REJECTED_DUE_TO_MAX_RETRY_PIN	Arvato Rejected due to max retry pin
4059	INVALID_SOURCE_OF_FUND	Invalid source of fund
4060	CUSTOMER_DOES_NOT_EXISTS	Customer does not exists
4061	SIF_IS_ALREADY_TRUE	Sif flag is already true
4062	TRANSACTION_NOT_ALLOWED_BY_ARVATO	Enabling Strex invoice flag currently not supported
4063	ALREADY_PRE_AUTHORIZE_EXIST	Authorization Number Already Exist
4064	PRE_AUTHORIZE_NOT_MATCH_SELL	Token not found
4065	DELETE_PRE_AUTH_MISMATCH	Information Mismatch
4066	CREDIT_LIMIT_GREATOR_SELL_AMOUNT	Credit Limit Greater Than Sell Amount
4067	CREDIT_LIMIT_LESS_SELL_AMOUNT	Credit Limit Less Than Sell Amount
4068	SIF_UPDATE_DISABLED_FOR_ICE	SIF Update Disabled for ICE
4069	NO_ACCESS_TO_SERVICE	No Access To Service For Reverse Transaction
4070	MISSING_FIELD	Missing Field For Reverse Transaction
4071	MNO_UNABLE_TO_SEND_USSD_MESSAGE	Mno Unable To Send USSD Message
4072	USSD_TECHNICAL_ERROR_RECEIVED_FROM_MNO	USSD Technical Error Received From Mno
4073	USSD_BAD_REQUEST	USSD Bad Request
4074	USSD_ABSENT_SUBSCRIBER	USSD Absent Subscriber
4075	ACCOUNT_NOT_PURCHASABLE	Account Not Purchasable
4076	ACCOUNT_PROFILE_NUMBER_NOT_FOUND	Account Profile Number Not Found
4077	TRANSACTION_ALREADY_EXISTS	Transaction Already Exist
4079	CUSTOMER_IS_BELOW_MIN_AGE	
4080	TRANSACTION_NOT_PURCHASABLE	Transaction Not purchasable
4081	INVALID_REQUEST	Invalid recipient parameter Invalid message parameter max 1024 characters Invalid Sms Originator parameter
4088	REG_LEVEL_GREATER_THEN_NINE	Reg Level Greater than 9
4089	TRIGG_FULL_USSD	Trigger Full USSD Registration
4090	AGE_VALIDATION_FAILED	Age validation failed
4091	NEW_REG_FLOW_ROLLBACK	Merchant Belongs to Suppres Registration Group
4092	SELL_TRANS_IN_PROGRESS	Sell Transaction In Progress
4093	SELL_TIMEOUT_REGISTRATION_COMPLETED	Sell Transaction TimeOut but Registration completed
4094	SSN_MATCHED_SUBSCRIBER_REGISTRED	SSN of Self Regiter Request matches with nationalId of DB
4095	SSN_VALIDATION_FAILED	SSN validation is failed at DSF end
4096	TRANS_ALREADY_COMPLETED	Transaction already completed successfully
4097	INITIATOR_NOT_PARTNER	Initiator Not Partner
4098	DSF_NOT_VERIFIED	DSF not verified
4099	DSF_LOOKUP_FAILED	DSF Lookup no response
4100	SELL_TRANSACTION_IN_PROGRESS	
4101	SUBSCRIBER_AGE_AT_MNO_BELOW_AGE_REQUIREMENT	Subscriber age at MNO below age requirement
4102	SUBSCRIBER_AGE_AT_MNO_BELOW_IS_UNKNOWN	Subscriber age at MNO is unknown
4103	INVALID_CONFIRMATION_CHANNEL	Invalid Confirmation Channel
4104	INVALID_SECURITY_LEVEL	Security_level not allowed

4105	SELL_ALREADY_COMPLETED	Sell or Confirm Sms Transaction already completed
4106	INVALID_RESPONSE_FROM_SUBSCIBER	Invalid response or message
4107	INVALID_OTP_TRANSID	Invalid OTP transaction id
4108	RECURRING_SET_FALSE	Recurring set False
4109	INVALID_TIMEOUT	Invalid Timeout
4110	OTP_SUCCESS_RESULT	Success
4110	GENERATE_OTP_IN_PROGRESS	
4111	RECURRING_SET_TRUE	Recurring set true
4112	INITIATOR_SHOULD_BE_SAME_AS_OF_GENERATE_OTP	Initiator must be same of Generate OTP Initiator
4113	SSN_ALREADY_BLOCKLISTED	
4114	SSN_UNBLOCKLISTED	
4115	SSN_NOT_VALID	
4116	SSN_BLOCKLISTED	SSN is blocklisted in records
4117	SUPPRESS_USE_STREX_INVOICE	Merchant belongs to suppress use strex invoice group
4118	STREX_INVOICE_ACCEPTANCE_REQUIRED	Strex Invoice Acceptance Required
4119	DEFAULT_MARKER_DATE_MISSING	Default marker date not found
4120	UNKNOWN	User is unknown
4121	REG_LEVEL_NOT_ALLOWED	Registration Level Not Allowed
4122	INVALID_DATE	Invalid Date
4123	INVALID_TOKEN_DETAILS	Token/PanToken not present in system
4124	CARD_ALREADY_REGISTERED	Card already registered
4125	NO_CARD_FOUND	No card found
4126	STREX_INVOICE_REGISTRATION_REQUIRED	Strex invoice registration required
4127	PAYMENT_CARD_REGISTRATION_REQUIRED	
4128	MERCHANT_NOT_IN_GROUP_ALLOW_SET_SOF_IN_SELL	Merchant not in group allow set SOF in sell
4129	SUPPRESS_USE_PAYMENT_CARD	Merchant belongs to suppress use payment card group
4130	ALLOW_SET_PAYMENT_CARDID	Merchant not allowed to set payment cardid
4131	SERVICE_CODES_BARRED_FOR_CARD_PAYMENT	Service codes barred for card payments
4132	NO_TOKEN_WITH_PAYMENT_CARDID	No token with given payment card id
4133	NO_PREFERRED_CARD_LINKED_TO_SUBSCRIBER	No Preferred card linked to subscriber
4134	BAD_REQUEST_TO_SWEDBANK	
4135	SUBSCRIBER_REGISTRATION_REQUIRED	Subscriber Registration Required
4136	SWEDBANK_INPUT_ERROR	
4137	SWEDBANK_FORBIDDEN	
4138	SWEDBANK_NOT_FOUND	
4139	SWEDBANK_SYSTEM_ERROR	
4140	CARD_PAYMENT_CAPSET_EXCEED	Total amount is crossed for card payments
4141	YEARLY_PURCHASE_CAPSET_EXCEED	Total amount is crossed for yearly licensed product
4142	MINOR_NOT_ALLOWED_FOR_INVOICE_CARD_PAYMENT	Minor not allowed to perform invoice/payment transaction
4143	REGLEVEL_16_REQUIRED_FOR_SUBSCRIBER	Registration level 16 required for subscriber
4144	BANK_ID_CONFIRMATION_REQUIRED	Invalid consent level
4145	USSD_MATRIX	
4146	SMS_MATRIX	

4147	REJECTED_BY_ACQUIRER_INVALID_AMOUNT	REJECTED_BY_ACQUIRER_INVALID_AMOUNT
4148	REJECTED_BY_ACQUIRER_FORMAT_ERROR	REJECTED_BY_ACQUIRER_FORMAT_ERROR
4149	REJECTED_BY_ACQUIRER_POSSIBLE_FRAUD	REJECTED_BY_ACQUIRER_POSSIBLE_FRAUD
4150	REJECTED_BY_ACQUIRER_CARD_STOLEN	REJECTED_BY_ACQUIRER_CARD_STOLEN
4151	REJECTED_BY_ACQUIRER_CARD_EXPIRED	REJECTED_BY_ACQUIRER_CARD_EXPIRED
4152	REJECTED_BY_ACQUIRER_INSUFFICIENT_FUNDS	REJECTED_BY_ACQUIRER_INSUFFICIENT_FUNDS
4153	CARD_DECLINED	CARD_DECLINED
4154	REJECTED_BY_PAYEX_CARD_BLOCKLISTED	REJECTED_BY_PAYEX_CARD_BLOCKLISTED
4155	ACQUIRER_HOST_OFFLINE	ACQUIRER_HOST_OFFLINE
4156	PAYEX_CHARGE_FAILED	PAYEX_CHARGE_FAILED
4157	REVERSE_REJECTED_BY_ACQUIRER_INVALID_AMOUNT	REVERSE_REJECTED_BY_ACQUIRER_INVALID_AMOUNT
4158	REVERSE_REJECTED_BY_ACQUIRER_FORMAT_ERROR	REVERSE_REJECTED_BY_ACQUIRER_FORMAT_ERROR
4159	REVERSE_REJECTED_BY_ACQUIRER_POSSIBLE_FRAUD	REVERSE_REJECTED_BY_ACQUIRER_POSSIBLE_FRAUD
4160	REVERSE_REJECTED_BY_ACQUIRER_CARD_STOLEN	REVERSE_REJECTED_BY_ACQUIRER_CARD_STOLEN
4161	REVERSE_REJECTED_BY_ACQUIRER_CARD_EXPIRED	REVERSE_REJECTED_BY_ACQUIRER_CARD_EXPIRED
4162	REVERSE_REJECTED_BY_ACQUIRER_INSUFFICIENT_FUNDS	REVERSE_REJECTED_BY_ACQUIRER_INSUFFICIENT_FUNDS
4163	REVERSE_CARD_DECLINED	REVERSE_CARD_DECLINED
4164	REVERSE_REJECTED_BY_PAYEX_CARD_BLOCKLISTED	REVERSE_REJECTED_BY_PAYEX_CARD_BLOCKLISTED
4165	REVERSE_ACQUIRER_HOST_OFFLINE	REVERSE_ACQUIRER_HOST_OFFLINE
4166	PAYEX_REVERSE_FAILED	PAYEX_REVERSE_FAILED
4167	FAILED_BY_MORE_RECENT_REG_TRANS	Registration failed due to more recent SelfReg transaction
4168	FAILED_BY_PAYMENT_SOURCE_RESTRICTION_VALIDATION	Payment Source Restricted
4169	FAILED_BY_PAYMENT_RESTRICTION_MATRIX_VALIDATION	Failed By Payment Restriction Matrix
4170	PSD2_SERVICE_CODE_IS_LICENSED	Unregistered subscriber with licensed service code
4171	PSD2_IN_BYPASS_GROUP_BUT_SUSPENDED	Belongs to Psd2 Bypass group and is suspended
4172	PSD2_AMOUNT_VIOLATE_LIMIT	Amount violate PSD2 limit
4173	PSD2_SUBSCRIBER_SUSPENDED	Subscriber suspended subscriber status is suspended
4174	PSD2_CAPSET_EXCEEDED	Amount violate Monthly PSD2 limit
4176	SUBSCRIBER_NOT_ACTIVE	
4180	IMEI_FORMAT_NOT_VALID	IMEI Format Invalid
4182	IMEI_VALIDATION_UNKNOWN_ERROR	IMEI Validation Unknown Error
4183	IMEI_IS_BLACKLISTED_ACCESS_DENIED	IMEI is blacklisted, access denied
4184	SECURITY_LEVEL_NOT_ALLOWED	Security_level not allowed
4191	FAILED_CHECK	Failed CheckSameUser
4192	USER_CHANGED	User change detected since <date>
4193	RESTRICTED_REQUEST	User change request not allowed
4194	UNKNOWN_SHALL_REJECT	User change unknown
4205	AUTH_TIMEOUT_ERROR	End User hasn't confirmed on time.

4216	PRE_AUTH_SEND_SMS_FAILED	
4217	PRE_AUTH_MERCH_SMS_NOTIFICATION_IN_REQ_NOT_ALLOWED	Merchant is not in allow group but request contains SMS Notification.
4217	PRE_AUTH_MERCH_SMS_NOTIFICATION_IN_REQ_NOT_ALLOWED	
4218	AMOUNT_EXCEEDS_THE_MNO_PAYMENT_RESTRICTIONS	
4219	AMOUNT_EXCEEDS_THE_MNO_SUBSCRIBER_BALANCE	
4220	PREPAID_BALANCE_VALUE_FORMAT	
4221	PAYMENT_RESTRICTION_VALUE_FORMAT	
5000	INVALID_CONCENT_LEVEL	Invalid consent level
5000	INVALID_TOKEN	Invalid Token
5001	GETOK_CONFIRM_REJECTED_DUE_TO_BLANK_RESP	Get Ok Confirmation Rejected by Blank Response
5002	GETOK_REJECTED_BY_SUBSCRIBER	Get Ok Confirmation Rejected by Subscriber
5003	GETOK_REJECTED_DUE_TO_MAX_RETRY_PIN	Get Ok Confirmation Rejected by Max Retry Pin
5004	GET_OK_FULL_CONFIRM_REJECTED_DUE_TO_BLANK_RESP	Get Ok Full USSD Confirmation Rejected by Blank Response
5005	GET_OK_FULL_REJECTED_BY_SUBSCRIBER	Get Ok Full USSD Confirmation Rejected by Subscriber
5006	GET_OK_FULL_REJECTED_DUE_TO_MAX_RETRY_PIN	Get Ok Full USSD Confirmation Rejected by Max Retry Pin
5007	USSD_DISABLED	USSD Disabled
5008	GETSSN_REJECTED_DUE_TO_MAX_RETRY_PIN	Get SSN Confirmation Rejected by Max Retry Pin
5009	SELF_REGISTRATION_V3_SUCCESS_RESPONSE	Self Registration V2 Success Response
5010	SELL_TRANS_NOT_FOUND	Not a valid Sell Transaction
5011	SELL_INFO_INVALID_DATA	Not valid request data
5012	SC2_USER_INFO_INVALID_DATA	Not a valid user info
5013	INITIATOR_SHOULD_BE_SAME	
5014	DSF_SKIPPED	
5015	HAVE_TRANS_IN_PROGRESS	Transaction has other blocking transaction in progress
5016	SUBSCRIBER_IS_NOTREGISTERED	
5030	SUBSCRIBER_SSN_UNKNOWN	Subscriber SSN unknown
5031	SUPPRESS_USE_MNO_BILL	
5035	DEFAULT_BM_LIMIT_EXCEEDED	Exceeded default business model limit
5115	ACCOUNT_PROFILE_MNO_NOT_ALLOWED	
10002		User Doesn't Exist at MNO
10004		Subscriber reserved against charging at MNO
10005		MNO usage limit exceeded
10007		Insufficient credit at MNO
10050	LIMIT_REACHED	Limit Reached
10051	FULL_USSD_REG_INSUFFICIENT_DATA_FIRST_NAME	Full USSD Registration Fails Invalid First Name
10055	REQUIRED_FEILD_MISSING	Required Field Missing
10061	FULL_USSD_REG_INSUFFICIENT_DATA_LAST_NAME	Full USSD Registration Fails Invalid Last Name
10062	FULL_USSD_REG_INSUFFICIENT_DATA_SSN	Full USSD Registration Fails Invalid SSN
10063	FULL_USSD_REG_INSUFFICIENT_DATA_PIN	Full USSD Registration Fails Invalid Pin

70011	INVALID_DETAILS	Invalid otp or msisdn

8.1.2 Other Response Codes

The below values mentioned in the Response Code column will have a prefix attached to them when they are actually returned in the response. The prefix indicates the domain/MS from which the response has been returned. The meaning of the response code is the same for all prefixes.
Examples: Transaction-100012001, Common-100012001

Response Code	Response code constants	Response Message
4045	REVERSAL_FAILED_FIELD_MSG	Technical Error from MNO during reversal.
4046	CHARGE_FAILED_FIELD_MSG	Technical Error from MNO.
40001002	BAD_REQUEST_FIELD_MSG	Request failed with bad request field: {0}.
40500003	METHOD_NOT_ALLOWED_EXCEPTION	
50001002	SWEDBANK_ERROR_CODE	Internal Server Error : {0}
50001004	SYSTEM_EXCEPTION_FIELD_MSG	System Error: {0}
100012001	ILLEGAL_CHECKOUT_STATE_CHANGE	Illegal Checkout state change, oldState={0} to newState={1}
100012002	CANNOT_CHANGE_CHECKOUT	Cannot change Checkout ShoppingCart or ProductOrder references
100012003	BAD_REQUEST_EXCEPTION_MSG	Bad request
100012004	BAD_REQUEST_EXCEPTION_FIELD_MSG	Bad request field {0}
100012005	CHECKOUT_ALREADY_EXISTS	Checkout with checkoutId={0} already exists for shoppingCartId={1}
100012006	ENTITY_NOT_FOUND_EXCEPTION_MSG	Entity: {0} with key: {1} was not found.
100012007	AUTHENTICATION_EXCEPTION_MSG	Request failed authentication.
100012008	SYSTEM_NOT_AVAILABLE_EXCEPTION_MSG	System: {0} is not available.
100012009	ENTITY_KEY_ALREADY_EXISTS_EXCEPTION_MSG	Entity key: {0} already exists. {1}
100012010	OPTIMISTIC_LOCKING_EXCEPTION_MSG	Entity key: {0} has been updated.
100012011	UNKNOWN_EXCEPTION_MSG	Internal Server Error.
100012012	BAD_GATEWAY_EXCEPTION_MSG	Encountered a problem while accessing service {0}. {1}
100012013	ENTITY_CANNOT_BE_UPDATED_EXCEPTION_MSG	Entity: {0} with key: {1} cannot be updated.
100012014	CONFLICT_EXCEPTION_MSG	Conflict - {0}
100012015	FORBIDDEN_EXCEPTION_MSG	Forbidden - {0}
100012031	APPROVAL_TRANS_EXCEPTION_MSG	Approval transaction as rejected.
100012032	FINALIZE_TRANS_EXCEPTION_MSG	Finalize transaction as rolled back.
100012033	FINALIZE_AS_COMPLETED_TRANS_EXCEPTION_MSG	Unable to complete transaction, transaction id: {0}
100012034	DUPLICATE_BUS_TRANS_ID_EXCEPTION_MSG	Duplicate business transaction id: {0}
100012035	INVALID_TRANS_PIN_EXCEPTION_MSG	Invalid transaction pin.

100012036	INVALID_CONFIRMATION_POLICY_EXCEPTION_MSG	Transaction confirm policy mismatched.	
100012037	PARTY_NOT_FOUND_EXCEPTION_MSG	Party: {0} was not found.	
100012038	SERVICE_NOT_CONFIGURED_PROPERLY_EXCEPTION_MSG	Service: {0} is not configured properly.	
100012039	MMO_ID_NOT_UNIQUE_PREFIX		
100012040	INVALID_AMOUNT_EXCEPTION_MSG	Amount: {0}	
100012041	INVALID_AMOUNT_EXCEPTION_FIELD_MSG	Amount: {0}	
100012042	MMO_SUSPENDED_EXCEPTION_MSG		
100012043	MMO_SUSPENDED_EXCEPTION_FIELD_MSG	MMO initiator party Stopped or Blacklisted.	
100012044	MMO_NOT_FOUND_PREFIX	{0}	
100012045	DUPLICATE_CORRELATION_ID_EXCEPTION_MSG	CorrelationId: {0} must be unique	
100012046	CANCEL_MMO_FAILED_EXCEPTION_MSG	{0}	
100012050	COMMON_EXCEPTION_MSG	If error persist , please get in touch with a support officer.	
100013001	MNO_LOOKUP_FAILED_EXCEPTION_MSG	MNO Lookup has failed with the status code: {0}.	
100013011	LEASE_SESSION_RULE_ERROR	Lease session rule exception	
100013021	TRANS_CONFIRM_EXPIRED_MSG	Transaction confirmation expired	
100014001	CHARGE_DIRECT_FAILED_EXCEPTION_MSG	Telenor Charge Direct has failed with the status code: {0} and description: {1}.	
100015001	CHARGE_SMS_FAILED_EXCEPTION_MSG	Telenor Charge SMS has failed with the status code: {0} and description: {1}.	
100016004	CONNECTION_ERROR_ACCESSING_SERVICE	Connection error when accessing the service: {0}	
100016005	SMS_FORWARD_EXCEPTION_MSG_CODE	SMSForward has failed with status code: {0} and description: {1}	
100016006	DN_FORWARD_EXCEPTION_MSG_CODE	DNForward has failed with status code: {0} and description: {1}	
100031001	REFERENCE_DATA_EXCEPTION_MSG	Reference Data Error : {0}	
100031002	REFERENCE_DATA_EXCEPTION_FIELD_MSG	Reference Data Error : {0}	
100051001	SOCKET_TIMED_OUT_EXCEPTION_MSG	Timed out for service: {0}	
100051002	CONNECTION_ERROR_EXCEPTION_MSG	Connection error for service: {0}	
100092051	CONFIG_EXCEPTION_MSG	{0} charge MNO is failed.	
100012016	INTERNAL_SERVER_ERROR	An internal server error occurred.	
100016002	TDS_LOOKUP_FAILED_EXCEPTION_MSG		
100092052	CONFIG_EXCEPTION_FIELD		
100092053	CHARGE_MNO_EXCEPTION_MSG		

1000120010	MNO_NOT_SUPPORTED		

The below values mentioned in the Response Code column has the prefix(domain) attached to them and is returned as-is in the response. The prefix indicates the domain/MS from which the response has been returned. Each response code in this list has a unique meaning.

Response code with domain	Response Code Constants	Response Message
A-100012017	INVALID_CLIENT_ID_EXCEPTION_MSG	Invalid client - {0}
Party-100012017	UNPROCESSABLE_ENTITY_EXCEPTION_MSG	Unprocessable Entity
Counter-100012017	COUNTER_RULE_EXCEPTION_MSG	Error in Counter Rule
Transaction-100012017	SERVICE_NOT_CONFIGURED_EXCEPTION_MSG	Service is not configured for type: {0}, subType: {1}
A-100012018	INVALID_CLIENT_SECRET_EXCEPTION_MSG	Invalid client credentials.
Party-100012018	RESOURCE_MAP	{0}
Transaction-100012018	INVALID_SERVICE_CONFIGURED_EXCEPTION_MSG	Invalid service configuration,
Strex-Trans-100012018	SCA_RULE_ENGINE_EXCEPTION	{0}
Common-100012018	AUTHORIZATION_EXCEPTION_MSG	{0}
A-100012019	INVALID_GRANT_TYPE_EXCEPTION_MSG	Invalid grant type - {0}
Transaction-100012019	INVALID_SERVICE_CONFIGURED_EXCEPTION_FIELD	Invalid service configuration, {0}
Strex-Trans-100012019	BUSINESS_ID_NOT_PRESENT	
Common-100012019	INTERNAL_SERVER_EXCEPTION_CODE	
A-100012020	INVALID_SCOPE_EXCEPTION_MSG	Invalid Scope - {0}
Transaction-100012020	CONFIRM_TRANS_EXCEPTION_MSG	Confirm transaction as failed.
Strex-Trans-100012020	SHORTCODE_NOT_SIBLING	
Transaction-100012021	INVALID_INITIATOR_EXCEPTION_MSG	Invalid Initiator.
A-100012022	LOGIN_WITH_TEMPRORAY_PASSWORD_EXCEPTION_MSG	Login attempted with Temporary/Expired credential for user - {0}, Kindly set your credentials first.
Transaction-100012022	ACCESS_DENIED_EXCEPTION_MSG	Access denied. {0}
A-100012023	INVALID_TOKEN_EXCEPTION_MSG	Invalid Token - {0}
Account-100012023	INSUFFICIENT_FUNDS_EXCEPTION	{0} insufficient funds
Transaction-100012023	REVERSAL_AGE_EXPIRED_EXCEPTION_MSG	Reversal duration has expired.
Account-100012024	INVALID_ACCOUNT_TYPE	{0} invalid account type
Transaction-100012024	INVALID_TRANS_ID_EXCEPTION_MSG	Invalid transaction id: {0}

A-100012025	CREDENTIAL_POLICY_BREACH_EXCEPTION_MSG	Invalid {0}
Account-100012025	WALLET_LIMIT_EXCEEDS	{0} wallet limit exceeds
Transaction-100012025	TRANSACTION_FAIL	Failed to update transaction in DB.
Account-100012026	ACCOUNT_ALREADY_EXIST_EXCEPTION	Account with agent reference {0} is already exist.
Transaction-100012026	INVALID_CURRENCY_EXCEPTION_MSG	Invalid currency.
A-100012027	CREDENTIAL_LOCKED_EXCEPTION_MSG	{0}
Party-100012027	TRANSACTION_FAIL	Transaction Fail for please retry.
Account-100012027	TRANSACTION_FAIL	Transaction failed for transId: {0}
Transaction-100012027	WALLET_NOT_CONFIGURED_EXCEPTION_MSG	Wallet type: {0} is not configured.
A-100012028	LOGIN_WITH_TWOFA_REQUIRED_EXCEPTION_MSG	OTP for Two Factor Authentication has been sent to user.
Party-100012028	KEYCLOAK_EXCEPTION_MSG	{0}
Counter-100012028	TRANSACTION_FAIL	Transaction Fail for trans id {0}
Account-100012028	RESOURCE_MAP	{0}
Transaction-100012028	REVERSAL_FAILED_EXCEPTION_MSG	Reversal failed - {0}
Party-100012029	GROUP_ALREADY_EXIST_EXCEPTION_MSG	{0}
Account-100012029	UNPROCESSABLE_ENTITY_EXCEPTION_MSG	Account cannot be deleted as account balance is not zero.
Transaction-100012029	INVALID_PRICING_RULE_CONFIGURED_EXCEPTION_MSG	Invalid pricing rule configured ruleId: {0}
Party-100012030	REFERENCE_ALREADY_EXIST_EXCEPTION_MSG	{0}
Account-100012030	APD_NOT_FOUND_EXCEPTION_MSG	
Transaction-100012030	ACTIVITY_FAILED_EXCEPTION_MSG	Activity:{0} failed.
Strex-Telenor-100016001	REVERSE_FAILED_EXCEPTION_MSG	Reverse has failed with the status code: {0} and description: {1}.
Strex-connector-100016001	DSF_VERIFY_ERROR	DSF Verify has failed with the status code: {0} and description: {1}. External status code: {2}.
Strex-Erate-100016001	ERATE_CHARGE_DIRECT_EXCEPTION_MSG	eRate Charge Direct has failed with status code: {0} and description: {1}
Strex-Ice-100016001	ICE_CHARGE_DIRECT_EXCEPTION_MSG_CODE	ICE Charge Direct has failed with status code: {0} and description: {1}
Strex-NetworkNorway-100016001	NETWORKNORWAY_CHARGE_DIRECT_EXCEPTION_MSG_CODE	NetworkNorway Charge Direct has failed with status code: {0} and description: {1}
Strex-Telia-100016001	TELIA_CHARGE_DIRECT_EXCEPTION_MSG_CODE	Telia Charge Direct has failed with status code: {0} and description: {1}

8.1.3 DN result codes

Status Code	Description	Explanation
0	**Success**	**Successful delivery of MT-SMS message. This is the only success case for delivery of MT-SMS.**
10000	Charge Pending	Applies for Direct Payment and Telenor prepaid only. Not in use.
10001	Charge Pending, Message Sent	Applies for SMS Payment and Telenor prepaid only. Not in use.
10002	Charge Successful.	Applies for Direct Payment and Telenor prepaid only. Not in use.
10003	Charge Successful; Message Sent.	Applies for SMS Payment and Telenor prepaid only. Not in use.
10004	Message Sent Successfully.	Duplicate. Not in use
10005	Refund Pending.	Applies for reverse transactions and Telenor only
10006	Refund Successful.	Applies for reverse transactions and Telenor only
10007	Charge Successful, Partial Charging	Applies for Direct Payment and Telenor prepaid only. Not in use.
10008	Charge Successful, Full charge	Applies for Direct Payment and Telenor prepaid only. Not in use.
10009	Charge Uncertain, Message Sent	Applies for SMS Payment and Telenor prepaid only. Not in use.
10010	Charge Uncertain	Applies for Direct Payment and Telenor prepaid only. Not in use.
10020	Sell In Progress	Sent after secure web registration process is initiated during sell, and the End User have been registered.
10021	Sell Rolled Back	Sent after secure web registration process is initiated during sell, and Sell have failed (timeout).
10022	Sell Completed	Sent after secure web registration process is initiated during sell, and the End User have been registered, and the Sell transaction is successfully completed.
11000	InvalidDestinationAddress	MT-SMS not delivered to handset. Destination Address (receiver) set in request is invalid.
11001	InvalidOriginatingAddress	MT-SMS not delivered to handset. Originating Address (sender) set in request is invalid.
11002	InvalidLargeAccount	MT-SMS not delivered to handset. Large Account set in request is invalid.
11003	InvalidNumberSeries	MT-SMS not delivered to handset. The request failed because the number does not belong to a recognized number series as assigned by NPT (Norwegian Post and Telecom Authority).
11004	IllegalOperator	MT-SMS not delivered to handset. The request failed because the subscriber belongs to another MNO.
11005	InvalidPayload	MT-SMS not delivered to handset. Message is rejected by SMSC
11006	Unspecified error '[error description]'	MT-SMS not delivered to handset due to error in Description column. System error received from MNO
11007	Deleted	MT-SMS not delivered to handset due to error in Description column.
11008	Expired	MT-SMS not delivered to handset within validity time.

8.2 Appendix B Service Codes

Service Codes apply both for production and test environments.

Service Code	Strex registration required	Description	Example	Invoice Text
01001	No	Mobile Internet and media (not overcharged)		Mobilt internett og media
02001	No	SMS information services	Information service sent to or from the End User via SMS or other electronic information channel (including e-mail, web page or app).	Informasjonstjeneste
02002	No	MMS information services	Information services sent to or from the End User. For example a number directory service, traffic information, dentist appointment notification, weather information, information about cancelling of services	MMS
02003	No	Instant messaging		Mobil IM
02004	No	e-mail		Mobil epost
03001	No	Ringtone		Ringetone
03002	No	Audio download	For example music or audio book	Musikk
03003	No	Game for download or used in web browser		Spill
03004	No	Picture for download		Bilder
03005	No	Audio streaming - NOT IN USE		Lyd streaming
03006	No	Not in use		Lyd streaming
03007	No	Video for download		Video
03008	No	Video streaming - NOT IN USE		Video streaming
03009	No	Not in use		Video streaming
03010	No	Digital chat service		Chat
03011	No	Community		Community
03012	No	Competiton based on digital platforms	For example quiz services like IQ test.	Konkurranse
04001	No	Digital directory services	For example SMS number directory like 1881 or 1880.	Katalogtjenester
04002	No	Tv/radio interaction	For example voting in TV shows, interaction with radio host, Idol, påskenøtter and traffic tips sent in by listener.	TV/radio interaksjon
04003	No	Automatic number directory services - NOT IN USE		Automatisk nummeroppslag
05001	No	Theatre ticket distributed and		Teaterbillett

		available on digital device		
05002	No	Cinema ticket distributed and available on digital device		Kinobillett
05003	No	Concert ticket distributed and available on digital device		Konsertbillett
05004	Yes	Physical book		Bok
05005	Yes	Audio book on CD		Lydbok - CD
05006	Yes	Film dvd and blue ray disc		Film - DVD
05007	Yes	Music CD		Musikk - CD
05008	Yes	Newspaper on paper		Avis
05009	Yes	Magazine on paper		Magasin
05010	N	Event ticket distributed and available on digital device		Arrangementsbillett
06001	No	Ticket distributed and available on digital device		Billett
06002	No	Bus ticket distributed and available on digital device		Bussbillett
06003	No	Metro/tram/train ticket distributed and available on digital device		T-bane/ trikkebillett/ togbillett
06004	Case specific, contact Strex Partner Support	Taxi fare	Payment for personal taxi transport	Taxi
06005	No	Parking ticket distributed and available on digital device		Parkering
06006	No	Ferry ticket distributed and available on digital device		Fergebillett
06007	N	Public road charges ticket distributed and available on digital device	For example piggdekkavgift, toll road ticket	Veiavgift

06008	Yes	Car operation and maintenance services	For example car wash service, car maintenance service	Bil drift og vedlikehold
06009	N	Airplane ticket ticket distributed and available on digital device	For example Ryan Air ticket	Flybillett
07001	Yes	Healthservice, non-digital	For example physician, physical therapist service, chiropractor service, medical prescription service.	Helsetjeneste
07002	Yes	Medicines	For example paracetamol tablets.	Medisiner
07003	Yes	Public fees - medical treatment	For example patient charge.	Off. avgifter medisinsk behandling
08001	No	Classified ads published on digital platform	For example finn.no classified ad	Annonser
08002	Yes	Classified ads published on non-digital platform	Aftenposten on paper,	Annonser
09001	Yes	Gift certificate	For example Universal Presentkort	Gavekort
09002	Yes	Insurance	For example travel insurance.	Forsikringstjeneste
09003	Yes	Peer to peer payment		Betaling
10001	Yes	Food and drink	For example Coca cola bottle	Mat og drikke
10002	Yes	Food and drink - Physical goods - NOT IN USE		Mat og drikke
11001	Yes	Food and drink - restaurants	For example serving in restaurant	Servering
12001	Yes	Lodging	For example hotel room.	Overnatting
13001	N	Public fishing licence - "Fiskeravgift" distributed and available on digital device	Fiskeravgift service	Fiskeravgift
13002	N	Private fishing licence distributed and available on digital device	For example fishing licence paid to Lågen Grunneierlag	Fiskekort
13003	N	Facility area access fee distributed and available on digital device	For example airport lounge, tennis court rent, solarium, public toilet etc.	Tilgangsavgift
13004	No	Consulting/Coaching, digital or voice telephony based	For example consulting by lawyer, physician, IT support	Rådgiving

13005	No	Access fee television services - NOT IN USE		Tilgangsavgift TV
13006	Yes	Manual services	Hairdresser service, carpenter service, plumber service, nail service	Servicetjeneste
13007	Yes	No show manual services	No-show for Manual service	Ikke fremmøte
13008	Yes	Consulting/Coaching, non-digital	For example consulting by lawyer, physician, IT support	Rådgiving
14001	No	Membership Fee distributed and available on digital device, non-commercial	Fee for membership for non-commercial organisations, for example Røde Kors, Arbeiderpartiet, sports clubs under Norsk Idrettsforbund (NIF)	Medlemsavgift
14002	No	Donation - Donation	Payment to non-commercial organisations, no return service of significant value.	Givertjeneste
14003	No	Donation - NOT IN USE (use 14002)	NOT IN USE	Givertjeneste
14004	Yes	Membership Fee distributed and available on digital device, commercial	Fee for membership in commercial organisations, for example SATS, NAF.	Medlemsavgift
15001	Yes	Physical goods - non food		Fysiske varer
15002	Yes	Physical goods - non food - NOT IN USE		Fysiske varer
15003	Yes	E-commerce - STREX INTERNAL CODE		Netthandel
16001	No	Audio streaming distributed and available on digital device	For example Spotify service	Audio streaming
16002	No	Video streaming distributed and available on digital device	For example Netflix service	Video streaming
16003	No	e-book distributed and available on digital device	For example eReadz, Kindle	e-bok
16004	No	e-magazine distributed and available on digital device	For example flipp.no, vio.no	e-magasin
16005	No	e-newspaper distributed and		e-avis

		available on digital device		
16006	No	Internet music - NOT IN USE		Nett-musikk
16007	No	Digital education services distributed and available on digital device	For example Teoritentamen, prøve.no.	Digital undervisningstjeneste
16008	No	Automatic number directory services	Services that automatically looks up information (such as name) connected to the originating (A) number during an incoming telephone call on a mobile terminal.	Automatisk nummeroppslag
89001	No	Zero charged Information Message		Nulltaksert informasjonsmelding

8.3 Appendix C Business Models

Please refer to the Merchant Agreement front page for the Business Model(s) that apply for your Merchant.
Business Models apply for both test and prod environment.
Aggregators can find a list of business models in the Appendix 3 of the Strex partner Agreement.

8.4 Appendix D YAML

Available upon request

8.5 Appendix E Premium Rate Services (Teletorg)

Premium Rate Services can be charged with Strex, this chapter provides a brief description of the solution.

If a transaction for Premium Rate Services exceeds the permitted single transaction amount, a voice message must be presented in the call notifying the end user that the amount limit for a single transaction has been reached and that a new transaction will be started. The end user will receive a receipt from Strex on each transaction.

The voice message must be: "Du har nådd grensen for engangskjøp på kr. [amount*]. Ved å fortsette samtalen starter du et nytt engangskjøp. Du blir kun belastet for faktisk samtaletid."

* [Amount] from chart below («current amount limits»), depending on customer status

Strex recommended process:

1. Check end-user amount limits with userSellLimits.
2. Check if the amount can be charged the end user with userSellEligibility.
3. If there is a need for the end user to be registered (when selling licensed goods or higher amount) the registration level can be checked further with userStatus
    a. Registration can be started by using userRegistration
4. Perform Sell request

8.5.1 Brief description of the api requests

For details, see the respective chapters in the implementation guide.

UserSellLimits (GetUserInfov3)

- Retrieves the end user's amount limits from Strex at the time the request arrives. The amount limits depend on the customer's registration level with Strex and age (over / under 18 year)
    - Single transaction
    - Aggregated monthly
    - Aggregated annually
- Also provides information on whether the subscription is postpaid or prepaid and end user preferred payment method (MNO invoice or payment card)
- Prepaid balance and content amount limits with MNO are checked for selected merchants
- Balance on payment card is not checked

8.5.1.1 Current amount limits (subject to change).

All amounts in NOK:

	Unregistered end user		**Registered end user**		**Under 18 unregistered**		**15-18 year registered**	
	MNO invoice	Payment card	MNO invoice	Payment card	MNO invoice	Payment card	MNO invoice	Payment card
Single transaction	550	-	1000	5000	550	-	-	1000
Aggregated monthly amount	3300	-	5000	10000	1000	-	-	1000

userSellEligibility (GetUserInfov2)

- Checks whether a transaction can be charged to the end user based on input (amount, service code and age). NB! Gives only an **indication** of the result of sell with the same input. No charge is done against MNO.
- The response will be "OK" or an error message that provides information about why the customer cannot be charged (e.g. CPA block, customer registration required)

userInfo (GetUserInfo)

- Checks if an end user is registered with Strex. The end user must be registered to be able to make licensed purchases (physical goods or amounts above a certain amount)
- Only registered end users can add a payment card as a means of payment

userRegistration (SelfregisterV3)

- Sends an SMS to the end user with a link to Strex registration. The merchant can add an explanatory text in the message.

Sell

- Parameter invoice_text in the Sell request must contain the b-number at the beginning of the parameter value.
- Teletorg section must be filled in with b_number, start_time, duration and start_price

8.6 Appendix F Regulated services for card and credit agreement payments

If a payment card is used as payment method some sales are subject to restrictions set by the acquirer (bank). If your company belongs to an industry with such restrictions the parameter "payment_source_restr" in the Sell request must be set to value "true". The following service/product/industry is subject to restrictions as mentioned above, thus value must be set to "true":

Narcotic substances, guns, tobacco, "snus" etc.
Merchandise with regulated sales restrictions, e-commerce for Health preparations, medicines, alcohol etc.
Travel agencies
Airplane tickets
Gambling and lottery
Digital wallets
Discount/membership clubs with subscription models
Pornography
Pyramid scheme or multi-level marketing
Charity and help organisations which does not meet the requirements in «Forskrift om elektronisk kommunikasjonsnett og elektronisk kommunikasjonstjeneste $5a-4»