

LINE 5.0 API GUIDE

V. 5

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B3.COM.BR

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1 INTRODUCTION

The LINE 5.0 pre-trade risk control system is designed to evaluate all forms of access to B3's electronic trading platform in accordance with preset limits. The

LINE 5.0 API provides web endpoints built in the Representational State Transfer (REST) architectural style that can be used to query, register, update and remove limit settings.

2 Glossary

Field	Description
server	API server address for LiNe
port	LiNe API server port
token	Token generated by the LiNe API
pcptCd	Participant code
alertEnabledIndicator	Enables or disables the indicator
alertType	Event type, example 6 - spci
limitPercentageValue	Limit percentage
participantCode	Participant code
alertSeq	Sequence number
ownerBrokerCode	Participant code
ownerCategoryType	Participant category
entityType	Entity type
angularItemsPerPage	Number of items per page
docId	Document ID
isProtected	Protected mode or not
isBlocked	Blocked mode or not
sfd	SFD metric value
sdp	SDP metric value
rmkt	RMKT metric value
rmktn	RMKTN metric value
irmkt	IRMKT metric value
spvd	SPVD metric value
sfdCap	SFD exchange metric value
stdCap	STD exchange metric value
rmktCap	RMKT exchange metric value
rmktnCap	RMKTN exchange metric value
spvdCap	SPVD exchange metric value
sfdCarrying	SFD carrying metric value
sdpCarrying	SDP carrying metric value
rmktCarrying	RMKT carrying metric value
rmktnCarrying	RMKTN carrying metric value
spvdCarrying	SPVD carrying metric value
sfdProfile	SFD profile metric value
sdpProfile	SDP profile metric value
rmktProfile	RMKT profile metric value
irmktProfile	IRMKT profile metric value
spvdProfile	SPVD profile metric value
sfdCapAggregated	Aggregated SFD CAP metric value
sdpCapAggregated	Aggregated SDP CAP metric value
rmktCapAggregated	Aggregated RMKT CAP metric value
rmktnCapAggregated	Aggregated RMKTN CAP metric value
spvdCapAggregated	Aggregated SPVD CAP metric value
rma	RMA metric value
rmaBrk	Broker RMA metric value
rmaCap	RMA CAP metric value
rmaProfile	RMA profile metric value

rmaBrkProfile	Broker RMA profile metric value
rmaCapAggregated	Aggregated RMA CAP metric value
instrumentId	Instrument ID
symbol	Instrument
spci	SPCI metric value
spvi	SPVI metric value
isRemoved	Indicates limit removal
instrumentSymbol	Instrument
stdBroker	STD broker metric value
authorized	Buy, sell, or buy and sell
groupId	Authorized market group
tmoc	TMOC metric value
tmov	TMOV metric value
brpc	BRPC metric value
brpv	BRPV metric value
spci	SPCI metric value
spvi	SPVI metric value
acclId	Account ID
profileId	Profile ID
operatorCode	Operator ID
brokerCode	Broker ID
code	Participant ID
pnpCode	Participant Code
category	Participant category
name	Participant name
segment	Participant segment: 1 – EQT, 2 – DRV, 3 – Both
entityCode	Entity code
metricCodes	List of metric types
periodStart	Search start date
periodEnd	Search end date
entCode	Entity code

3 OVERVIEW OF API

3.1 Filter

The standard used to filter endpoints in queries via the LINE 5.0 API is the query string, with parameters from the URL. Example of filter using two parameters (param1 and param2):

```
https:// {line5.0-domain}/api/vi/{resource}?param1=valor1&param2=valor2
```

3.2 Nomenclature

Nomenclature follows the provisions of the document B3's APIs – Overview.

3.3 Suporte GZIP

Visando reduzir o consumo de banda de rede, a API LINE 5.0 disponibiliza suporte a compactação de dados via GZIP. O uso de requisições com compactação está disponível no capítulo “padrões de uso” do documento APIs B3 - Visão Geral.

3.4 Functionalities not supported

Version 1 of the LINE 5.0 API does not support the following functionalities:

- Pagination
- Sorting
- Field Selection

4 SECURITY

The LINE 5.0 API uses OAuth2 to guarantee the authentication and authorization of its web endpoints, based on the use of tokens, with access solely via HTTPS. The security architecture, implemented using OAuth2, is standard for B3's APIs and detailed in the section on Security of the document B3's APIs - Overview.

4.2 Authentication – token renewal

Renewal of tokens for the LINE 5.0 API, like obtaining new tokens, requires two steps, although login with username and password is not necessary:

- 1) Obtain Basic Authorization (HTTP GET)

Request:

```
curl -X GET https://{line5.0-domain}/api/v1.0/token/authorization
```

Response:

```
{"header": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXX"}
```


4.3 Access to endpoints – using tokens

To access the endpoints of the LINE 5.0 API, the solution developed by the participant must send the value of the access_token as Bearer Authorization in the header of its HTTP requests:

Request:

Header Parameters

Authorization: Bearer yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

Exemplo utilizando curl:

```
curl \
-X GET https://{line5.0-domain}/api/v1.0/accounts?brokerId=<CÓDIGO
DA CORRETORA> \
-H 'Authorization: Bearer yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy'
```

Response:

```
[{"id":999,"code":999999999,"document":{"id":9999,"code":"123.456.7
89-10","name":"Fulano","broker":{"id":999,"category":"PNP"}},{"isPro
tected":false,"isBlocked":true,"name":"Fulano","isDisable":false},{
"id":999,"code":000000000,"document":{"id":0000,"code":"123.456.789
-11","name":"Ciclano","broker":{"id":999,"category":"PNP"}},{"isProt
ected":true,"isBlocked":false,"name":"Ciclano","isDisable":true}]
```

4.4 More information about Bearer Authorization:

<https://tools.ietf.org/html/rfc6750>

4.5 Authorization

The endpoints of the LINE 5.0 API have validations that use access rules. In authentication, the user consisting of login + password + trading participant code + category code is validated, and the token generated reflects this information. If the user tries to access an endpoint that requires a rule not contained in the token, the user will receive a response with an error code.

5 APIS LINE

The technical information required for the implementation of integrations is available in the LINE API catalogue at <https://line.trd.cert.bvmfnet.com.br/#/endpoints>

5.1 Alert

Ser Service for listing or updating alerts:

Method	Description
GET alert	Obtains the system alerts
GET alert/lastalerts	Obtains the system alerts
GET alert/listalerts	Retrieves alerts starting from a given sequence number
GET alert/status	Obtains the system alerts
GET alert/detail/{alertseq}	Retrieves the details of a specific alert
GET alert/fulldetail/{alertseq}	Retrieves all details of a specific alert
POST	Updates alert generation parameters

Exemples:

GET - alert:

```
curl --location --request GET
'<server>:<port>/api/v1.0/alert?alertSeq=<alertSeq>' \
--header 'Authorization: Bearer <token>'
```

GET - alert/lastalerts:

```
curl --location --request GET
'<server>:<port>/api/v1.0/alert/lastalerts' \
--header 'Authorization: Bearer <token>'
```

GET - alert/listalerts:

```
curl --location --request GET
'<server>:<port>/api/v1.0/alert/alertlist?alertSeq=<alertSeq>' \
--header 'Authorization: Bearer <token>'
```

GET - alert/status:

```
curl --location --request GET
'<server>:<port>/api/v1.0/alert/status?alertSeq=<alertSeq> \
--header 'Authorization: Bearer <token>'
```

GET - alert/detail/{alertseq}:

```
curl --location --request GET
'<server>:<port>/api/v1.0/alert/detail?alertSeq=<alertSeq> \
--header 'Authorization: Bearer <token>'
```

GET - alert/fulldetail/{alertseq}:

```
curl --location --request GET
'<server>:<port>/api/v1.0/alert/fullDetail?alertSeq=<alertSeq> \
--header 'Authorization: Bearer <token>'
```

5.2 Document

Service for listing or updating information on pre-trade risk configurations for customers and specific limits that supersede those defined by the profile with which the customer is associated:

Method	Description
GET /v1.0/document?participantCode={participantCode}	Retrieves the documents data by broker.
POST /v1.0/document/{docId}	Updates the trading model of a customer identified by a document number
DELETE /v1.0/document/{docId}/lmt	Deletes the limits of a document identified by a document number
GET /v1.0/document/{docId}/lmt	Obtains limit data for a customer identified by a document number
POST /v1.0/document/{docId}/lmt	Registers limit data for a customer identified by a document number

GET /v1.0/document/{docId}/lmt/mkta	Obtains limits in authorized markets for a customer identified by a document number
POST /v1.0/document/{docId}/lmt/mkta	Registers authorized markets for a customer identified by a document number
GET /v1.0/document/{docId}/lmt/spxi	Retrieves the SPXI limits of a document identified by a document number
POST /v1.0/document/{docId}/lmt/spxi	Registers the SPXI limits of a document identified by a document number
GET /v1.0/document/{docId}/lmt/std	Obtains balance of forwards in limits for a customer identified by a document number
POST /v1.0/document/{docId}/lmt/std	Registers balance of forwards in limits for a customer identified by a document number
GET /v1.0/document/{docId}/lmt/tmx	Retrieves the TMOX limits of a document identified by a document number
POST /v1.0/document/{docId}/lmt/tmx	Registers the TMOX limits of a document identified by a document number
GET /v1.0/document/{docId}/lmt/brpx	Retrieves the BRPX limits of a document identified by a document number
POST /v1.0/document/{docId}/lmt/brpx	Registers the BRPX limits of a document identified by a document number
GET /v2.0/document	Retrieves the document information
POST /v2.0/document/{docId}/lmt	Registers the document global limits
DELETE /v2.0/document/{docId}/lmt	Deletes the document global limits
GET /v2.0/document/{docId}/lmt/spxiExchDoc	Retrieves the exchange SPXI limits of the document
GET /v2.0/document/{docId}/lmt/capB3	Retrieves the SFD, SDP, RMKT, RKMTN, and SPVD limits of the document

GET /v2.0/document/download	Downloads the documents according to the filter
GET /v2.0/document/{docId}/executors	Retrieves the list of executor documents by carrying ID
GET /v2.0/document/{docId}/lmt/tmoxExchDoc	Retrieves the exchange TMOX limit

Exemples:

GET - /v1.0/document?participantCode=<participantCode>:

```
curl --location --request GET
'<server>:<port>/api/v1.0/document?participantCode=<participantCode>' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/document/{docId}:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' --location --
request POST \
--location '<server>:<port>/api/v1.0/document/<docId>' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{"isProtected": <isProtected>,"isBlocked": <isBlocked>' }
```

GET - /v1.0/document/{docId}/lmt:

```
curl --location --request GET
'<server>:<port>/api/v1.0/document/<docId>/lmt' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/document/{docId}/lmt:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST '<server>:<port>/api/v1.0/document/<docId>/lmt' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer 77af6bef-6325-42bb-8e4a-a06289d75832' \
--data-raw
'{"sfd":<sfd>,"sdp":<sdp>,"rmkt":<rmkt>,"rmktn":<rmktn>,"irmkt":<irmkt>,"s
pvd":<spvd>,"sfdCap":<sfdCap>,"sdpCap":<sdpCap>,"rmktCap":<rmktCap>,"rmktn
Cap":<rmktnCap>,"spvdCap":<spvdCap>,"sfdCarrying":<sfdCarrying>,"sdpCarryi
ng":<sdpCarrying>,"rmktCarrying":<rmktCarrying>,"rmktnCarrying":<rmktnCarryi
ng>,"spvdCarrying":<spvdCarrying>,"sfdProfile":<sfdProfile>,"sdpProfile":
<sdpProfile>,"rmktProfile":<rmktProfile>,"rmktnProfile":<rmktnProfile>,"ir
mktProfile":<irmktProfile>,"spvdProfile":<spvdProfile>,"sfdCapAggregated":
<sfdCapAggregated>,"sdpCapAggregated":<sdpCapAggregated>,"rmktCapAggregate
d":<rmktCapAggregated>,"rmktnCapAggregated":<rmktnCapAggregated>,"spvdCapA
ggregated":<spvdCapAggregated>,"rma":<rma>,"rmaBrk":<rmaBrk>,"rmaCap":<rma
Cap>,"rmaProfile":<rmaProfile>,"rmaBrkProfile":<rmaBrkProfile>,"rmaCapAggr
egated":<rmaCapAggregated>' }
```

DELETE - /v1.0/document/{docId}/lmt:

```
curl --location --request DELETE
'<server>:<port>/api/v1.0/document/<docId>/lmt' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/document/{docId}/lmt/spxi:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/document/<docId>/lmt/spxi' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '["instrumentId": <instrumentId>, "symbol": <symbol>,
"spci": <spci>, "spvi": <spvi>, "isRemoved": <isRemoved>]'
```

GET - /v1.0/document/{docId}/lmt/spxi:

```
curl --location --request GET
'<server>:<port>/api/v1.0/document/<docId>/lmt/spxi' \
--header 'Authorization: Bearer <token>'
```

DELETE - /v1.0/document/{docId}/lmt/spxi:

```
curl --location --request DELETE
'<server>:<port>/api/v1.0/document/<docId>/lmt/spxi' \
--header 'Authorization: Bearer <token>'
```

GET - /v1.0/document/{docId}/lmt/std:

```
curl --location --request GET
'<server>:<port>/api/v1.0/document/<docId>/lmt/std' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/document/{docId}/lmt/std:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/document/<docId>/lmt/std' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '["instrumentId": <instrumentId>, "instrumentSymbol":
<instrumentSymbol>, "stdBroker": <stdBroker>, "isRemoved":
<isRemoved>]'
```

GET - /v1.0/document/{docId}/lmt/std/carrying:

```
curl --location --request GET
'<server>:<port>/api/v1.0/document/<docId>/lmt/std/carrying' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/document/{docId}/lmt/mkta:


```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST '<server>:<port>/api/v1.0/document/<docId>/lmt/mkta' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw ' [{"authorized": <authorized>, "groupId": <groupId>, "tmoc": <tmoc>, "tmov": <tmov>, "brpc": <brpc>, "brpv": <brpv>, "spci": <spci>, "spvi": <spvi>}] '
```

GET - /v1.0/document/{docId}/lmt/mkta:

```
curl --location --request GET
'<server>:<port>/api/v1.0/document/<docId>/lmt/mkta' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/document/{docId}/lmt/tmox:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/document/<docId>/lmt/tmox' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw ' [{"instrumentId": <instrumentId>, "symbol": <symbol>, "tmoc": <tmoc>, "tmov": <tmov>, "isRemoved": <isRemoved>}] '
```

GET - /v1.0/document/{docId}/lmt/tmox

```
curl --location --request GET '<server>:<port>/api/v1.0/document/<docId>/lmt/tmox' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/document/{docId}/lmt/brpx:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/document/<docId>/lmt/brpx' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw ' [{"instrumentId": <instrumentId>, "symbol": <symbol>, "brpc": <brpc>, "brpv": <brpv>, "isRemoved": <isRemoved>}] '
```

GET - /v1.0/document/{docId}/lmt/brpx:

```
curl --location --request GET
'<server>:<port>/api/v1.0/document/<docId>/lmt/brpx' \
--header 'Authorization: Bearer <token>'
```

GET - /v2.0/document:

```
curl --location --request GET
'<server>:<port>/api/v2.0/document?participantCode=<participantCode>' \
--header 'Authorization: Bearer <token>'
```

POST - /v2.0/document/{docId}/lmt:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v2.0/document/<docId>/lmt' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw
'{ "sfd":<sfd>,"sdp":<sdp>,"rmkt":<rmkt>,"rmktn":<rmktn>,"irmkt":<irmkt>
,"spvd":<spvd>,"sfdCap":<sfdCap>,"sdpCap":<sdpCap>,"rmktCap":<rmktCap>
,"rmktnCap":<rmktnCap>,"spvdCap":<spvdCap>,"sfdCarrying":<sfdCarrying>,"
sdpCarrying":<sdpCarrying>,"rmktCarrying":<rmktCarrying>,"rmktnCarrying
":<rmktnCarrying>,"spvdCarrying":<spvdCarrying>,"sfdProfile":<sfdProfile
>,"sdpProfile":<sdpProfile>,"rmktProfile":<rmktProfile>,"rmktnProfile":
<rmktnProfile>,"irmktProfile":<irmktProfile>,"spvdProfile":<spvdProfile
>,"sfdCapAggregated":<sfdCapAggregated>,"sdpCapAggregated":<sdpCapAggre
gated>,"rmktCapAggregated":<rmktCapAggregated>,"rmktnCapAggregated":<rm
ktnCapAggregated>,"spvdCapAggregated":<spvdCapAggregated>,"rma":<rma>,"
rmaBrk":<rmaBrk>,"rmaCap":<rmaCap>,"rmaProfile":<rmaProfile>,"rmaBrkPro
file":<rmaBrkProfile>,"rmaCapAggregated":<rmaCapAggregated>}'
```

DELETE - /v2.0/document/{docId}/lmt:

```
curl --location --request DELETE
'<server>:<port>/api/v2.0/document/<docId>/lmt' \
--header 'Authorization: Bearer <token>'
```

GET - /v2.0/document/{docId}/lmt/spxiExchDoc:

```
curl --location --request GET
'<server>:<port>/api/v2.0/document/152/lmt/spxiExchDoc' \
--header 'Authorization: Bearer <token>'
```

GET - /v2.0/document/{docId}/lmt/capB3:

```
curl --location --request GET
'<server>:<port>/api/v2.0/document/152/lmt/capB3' \
--header 'Authorization: Bearer <token>'
```

GET - /v2.0/document/download:

```
curl --location --request GET
'<server>:<port>/api/v2.0/document/download' \
--header 'Authorization: Bearer <token>'
```

GET - /v2.0/document/{docId}/executors:

```
curl --location --request GET
'<server>:<port>/api/v2.0/document/<docId>/executors' \
--header 'Authorization: Bearer <token>'
```

GET - /v2.0/document/{docId}/lmt/tmoxExchDoc

```
curl --location --request GET
'<server>:<port>/api/v2.0/document/152/lmt/tmoxExchDoc' \
--header 'Authorization: Bearer <token>'
```

Payloads:

/v1.0/document/{docId}:

```
{
  "isProtected": false,
  "isBlocked": false
}
```

/v1.0/document/{docId}/lmt:

```
{
  "sfd":0,
  "sdp":0,
  "rmkt":0,
  "rmktn":0,
  "irmkt":0,
  "spvd":0,
  "sfdCap":0,
  "sdpCap":0,
  "rmktCap":0,
  "rmktnCap":0,
  "spvdCap":0,
  "sfdCarrying":0,
  "sdpCarrying":0,
  "rmktCarrying":0,
  "rmktnCarrying":0,
  "spvdCarrying":0,
  "sfdProfile":0,
  "sdpProfile":0,
  "rmktProfile":0,
  "rmktnProfile":0,
  "irmktProfile":0,
  "spvdProfile":0,
  "sfdCapAggregated":0,
  "sdpCapAggregated":0,
  "rmktCapAggregated":0,
  "rmktnCapAggregated":0,
  "spvdCapAggregated":0,
  "rma":0,
  "rmaBrk":0,
  "rmaCap":0,
  "rmaProfile":0,
  "rmaBrkProfile":0,
  "rmaCapAggregated":0
}
```

/v1.0/document/{docId}/lmt/spxi:

```
[{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "spci": 20,
  "spvi": 20,
  "isRemoved": false
}]
```

/v1.0/document/{docId}/lmt/std:

```
{
  "instrumentId": 2877,
  "instrumentSymbol": "XXXX",
  "stdBroker": 20,
  "isRemoved": false
}
```

/v1.0/document/{docId}/lmt/mkta:

```
{
  "authorized": 3,
  "groupId": 70,
  "tmoc": 20,
  "tmov": 20,
  "brpc": 20,
  "brpv": 20,
  "spci": 20,
  "spvi": 20
}
```

/v1.0/document/{docId}/lmt/tmox:

```
{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "tmoc": 20,
  "tmov": 20,
  "isRemoved": false
}
```

/v1.0/document/{docId}/lmt/brpx:

```
{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "brpc": 30,
  "brpv": 30,
  "isRemoved": false
}
```

/v2.0/document/{docId}/lmt:

```
{
  "sfd":0,
  "sdp":0,
  "rmkt":0,
  "rmktn":0,
  "irmkt":0,
  "spvd":0,
  "sfdCap":0,
  "sdpCap":0,
  "rmktCap":0,
  "rmktnCap":0,
  "spvdCap":0,
  "sfdCarrying":0,
  "sdpCarrying":0,
  "rmktCarrying":0,
}
```

```

"rmktnCarrying":0,
"spvdCarrying":0,
"sfdProfile":0,
"sdpProfile":0,
"rmktProfile":0,
"rmktnProfile":0,
"irmktProfile":0,
"spvdProfile":0,
"sfdCapAggregated":0,
"sdpCapAggregated":0,
"rmktCapAggregated":0,
"rmktnCapAggregated":0,
"spvdCapAggregated":0,
"rma":0,
"rmaBrk":0,
"rmaCap":0,
"rmaProfile":0,
"rmaBrkProfile":0,
"rmaCapAggregated":0
}

```

5.3 AlertCfgtn

Service for listing, updating or deleting alert settings:

Method	Description
GET /v1.0/alertCfgtn	Obtains alert settings
GET /v1.0/ alertCfgtn?pcpCd=<participantCode>	Retrieves the alert parameters by broker
POST /v1.0/ alertCfgtn?pcpCd=<participantCode>	Registers the alert parameters by broker

Examples:

GET – /v1.0/alertCfgtn:

```

curl --location '<server>:<port>/api/v1.0/alertCfgtn' \
--header 'Authorization: Bearer <token>'

```

GET - /api/v1.0/alertCfgtn?pcptCd=<participantCode>

```

curl --location
'apstrd45l1d.internalenv.corp:9282/api/v1.0/alertCfgtn?pcptCd=<particip
antCode>' \
--header 'Authorization: Bearer <token>'

```

POST - /v1.0/alertCfgtn?pcptCd=<participantCode>:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' --location --
request POST
'<server>:<port>/api/v1.0/alertCfgtn?pcptCd=<participantCode>'
--header 'Content-Type: application/json'
--header 'Authorization: Bearer <token>'
--data-raw '{"alertEnabledIndicator":
<alertEnabledIndicator>,"alertType": <alertType>,"entityType":
<entityType>,"limitPercentageValue": <limit>,"participantCode":
<participantCode>"}'
```

5.4 Account

Service for listing or updating limit settings and properties associated with accounts and specific limits that supersede those defined by the profile with which the account is associated:

Method	Description
GET /v1.0/account	Obtains account data
POST /v1.0/account/{acctId}	Obtains data for an account identified by a code
DELETE /v1.0/account/{acctId}/lmt	Registers data for an account identified by a code
GET /v1.0/account/{acctId}/lmt	Obtains limit data for an account identified by a code
POST /v1.0/account/{acctId}/lmt	Registers limit data for an account identified by a code
GET /v1.0/account/{acctId}/lmt/mkta	Obtains authorized markets for an account identified by a code
POST /v1.0/account/{acctId}/lmt/mkta	Registers authorized markets for an account identified by a code
GET /v1.0/account/{acctId}/lmt/spxi	Obtains limit SPXI for an account identified by a code

POST /v1.0/account/{acctId}/lmt/spxi	Registers limit SPXI for an account identified by a code
GET /v1.0/account/{acctId}/lmt/tmox	Obtains limit TMOX for an account identified by a code
POST /v1.0/account/{acctId}/lmt/tmox	Registers limit TMOX for an account identified by a code
GET /v1.0/account/{acctId}/lmt/brpx	Obtains limit BRPX for an account identified by a code
POST /v1.0/account/{acctId}/lmt/brpx	Registers limit BRPX for an account identified by a code

Example:

GET - /v1.0/account?participantCode=<participantCode>:

```
curl --location --request GET
'<server>:<port>/api/v1.0/account?participantCode=<participantCode>' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/account/{acctId}:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST '<server>:<port>/api/v1.0/account/<accId>' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{"isProtected": <isProtected>,"isBlocked": <isBlocked>}'
```

GET - /v1.0/account/{acctId}/lmt:

```
curl --location --request GET
'<server>:<port>/api/v1.0/account/<accId>/lmt' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/account/{acclId}/lmt:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST '<server>:<port>/api/v1.0/account/<accId>/lmt' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{
  "sfd":<sfd>,"sdp":<sdp>,"rmkt":<rmkt>,"rmktn":<rmktn>,"irmkt":<irmkt>,"
  spvd":<spvd>,"sfdCap":<sfdCap>,"sdpCap":<sdpCap>,"rmktCap":<rmktCap>,"rmk
  tnCap":<rmktnCap>,"spvdCap":<spvdCap>,"sfdCarrying":<sfdCarrying>,"sdpCar
  rying":<sdpCarrying>,"rmktCarrying":<rmktCarrying>,"rmktnCarrying":<rmktnC
  arrying>,"spvdCarrying":<spvdCarrying>,"sfdProfile":<sfdProfile>,"sdpProf
  ile":<sdpProfile>,"rmktProfile":<rmktProfile>,"rmktnProfile":<rmktnProfil
  e>,"irmktProfile":<irmktProfile>,"spvdProfile":<spvdProfile>,"sfdCapAggre
  gated":<sfdCapAggregated>,"sdpCapAggregated":<sdpCapAggregated>,"rmktCapA
  ggregated":<rmktCapAggregated>,"rmktnCapAggregated":<rmktnCapAggregated>,"
  spvdCapAggregated":<spvdCapAggregated>,"rma":<rma>,"rmaBrk":<rmaBrk>,"rma
  Cap":<rmaCap>,"rmaProfile":<rmaProfile>,"rmaBrkProfile":<rmaBrkProfile>,"
  rmaCapAggregated":<rmaCapAggregated>}'
```

DELETE - /v1.0/account/{acclId}/lmt:

```
curl --location --request DELETE
'<server>:<port>/api/v1.0/account/<accId>/lmt' \
--header 'Authorization: Bearer <token>'
```

POST /v1.0/account/{acclId}/lmt/mkta:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/account/<accId>/lmt/mkta' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '["authorized": <authorized>, "groupId": <groupId>, "tmoc":
<tmoc>, "tmov": <tmov>, "brpc": <brpc>, "brpv": <brpv>, "spci": <spci>,
"spvi": <spvi>]'
```

GET - /v1.0/account/{acclId}/lmt/mkta:

```
curl --location --request GET
'<server>:<port>/api/v1.0/account/<accId>/lmt/mkta' \
--header 'Authorization: Bearer <token>'
```

POST- /v1.0/account/{acclId}/lmt/spxi:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/account/<accId>/lmt/spxi' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '["instrumentId": <instrumentId>, "symbol": <symbol>, "spci":
<spci>, "spvi": <spvi>, "isRemoved": <isRemoved>]'
```

GET - /v1.0/account/{acclId}/lmt/spxi:

```
curl --location --request GET
'<server>:<port>/api/v1.0/account/<accId>/lmt/spxi' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/account/{acclId}/lmt/tmox:


```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST '<server>:<port>/api/v1.0/account/195/lmt/tmox' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '["instrumentId": <instrumentId>, "symbol": <symbol>, "tmoc": <tmoc>, "tmov": <tmov>, "isRemoved": <isRemoved>]'
```

GET - /v1.0/account/{accId}/lmt/tmox:

```
curl --location --request GET
'<server>:<port>/api/v1.0/account/<accId>/lmt/tmox' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/account/{accId}/lmt/brpx:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/account/<accId>/lmt/brpx' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '["instrumentId": <instrumentId>, "symbol": <symbol>, "brpc": <brpc>, "brpv": <brpv>, "isRemoved": <isRemoved>]'
```

GET- /v1.0/account/{accId}/lmt/brpx:

```
curl --location --request GET
'<server>:<port>/api/v1.0/account/<accId>/lmt/brpx' \
--header 'Authorization: Bearer <server>'
```

Payloads:

/v1.0/account/{accId}:

```
{
  "isProtected": false,
  "isBlocked": false
}
```

/v1.0/account/{accId}/lmt:

```
{
  "sfd":0,
  "sdp":0,
  "rmkt":0,
  "rmktn":0,
  "irmkt":0,
  "spvd":0,
  "sfdCap":0,
  "sdpCap":0,
  "rmktCap":0,
  "rmktnCap":0,
  "spvdCap":0,
  "sfdCarrying":0,
  "sdpCarrying":0,
  "rmktCarrying":0,
  "rmktnCarrying":0,
  "spvdCarrying":0,
}
```

```

"sfdProfile":0,
"sdpProfile":0,
"rmktProfile":0,
"rmktnProfile":0,
"irmktProfile":0,
"spvdProfile":0,
"sfdCapAggregated":0,
"sdpCapAggregated":0,
"rmktCapAggregated":0,
"rmktnCapAggregated":0,
"spvdCapAggregated":0,
"rma":0,
"rmaBrk":0,
"rmaCap":0,
"rmaProfile":0,
"rmaBrkProfile":0,
"rmaCapAggregated":0
}

```

/v1.0/account/{acclId}/lmt/mkta:

```

[{
  "authorized": 3,
  "groupId": 70,
  "tmoc": 20,
  "tmov": 20,
  "brpc": 20,
  "brpv": 20,
  "spci": 20,
  "spvi": 20
}]

```

/v1.0/account/{acclId}/lmt/spxi:

```

[{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "spci": 20,
  "spvi": 20,
  "isRemoved": false
}]

```

/v1.0/account/{acclId}/lmt/tmox:

```

[{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "tmoc": 20,
  "tmov": 20,
  "isRemoved": false
}]

```

/v1.0/account/{acclId}/lmt/brpx:

```

[{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "brpc": 30,

```

```
    "brpv": 30,  
    "isRemoved": false  
  }  
}
```

5.5 OperationsProfessionalParticipant

Service for querying or updating pre-trade limit settings associated with traders:

Method	Description
GET /v1.0/operationsProfessionalParticipant	Obtains information about traders
POST /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}	Registers data for a trader identified by a code
DELETE /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt	Deletes limit data for a trader identified by a code
GET /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt	Obtains limits for a trader identified by a code
POST /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt	Registers limits for a trader identified by a code
GET /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt/mkta	Obtains authorized markets for a trader identified by a code

POST /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt/mkta	Registers authorized markets for a trader identified by a code
GET /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt/spxi	Obtains limits SPXI for a trader identified by a code
POST /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt/spxi	Registers limits SPXI for a trader identified by a code
GET /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt/tmox	Obtains limits TMOX for a trader identified by a code
POST /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt/tmox	Registers limits TMOX for a trader identified by a code
GET /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt/brpx	Obtains limits BRPX for a trader identified by a code
POST /v1.0/operationsProfessionalParticipant/ {oprn sPrfalPtcptld}/lmt/brpx	Registers limits BRPX for a trader identified by a code

Exemple:

GET - /v1.0/operationsProfessionalParticipant:

```
curl --location --request GET
'<server>:<port>/api/v1.0/operationsProfessionalParticipant?traderId=<traderId>' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/operationsProfessionalParticipant/{operatorCode}:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/<operatorCode>' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{"isBlocked": <isBlocked>, "isProtected": <isProtected>}'
```

GET - /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt:

```
curl --location --request GET
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/<operatorCode>/lmt' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/<operatorCode>/lmt' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw
'{"sfd":<sfd>,"sdp":<sdp>,"rmkt":<rmkt>,"rmktn":<rmktn>,"irmkt":<irmkt>,"spvd":<spvd>,"sfdCap":<sfdCap>,"sdpCap":<sdpCap>,"rmktCap":<rmktCap>,"rmktnCap":<rmktnCap>,"spvdCap":<spvdCap>,"sfdCarrying":<sfdCarrying>,"sdpCarrying":<sdpCarrying>,"rmktCarrying":<rmktCarrying>,"rmktnCarrying":<rmktnCarrying>,"spvdCarrying":<spvdCarrying>,"sfdProfile":<sfdProfile>,"sdpProfile":<sdpProfile>,"rmktProfile":<rmktProfile>,"rmktnProfile":<rmktnProfile>,"irmktProfile":<irmktProfile>,"spvdProfile":<spvdProfile>,"sfdCapAggregated":<sfdCapAggregated>,"sdpCapAggregated":<sdpCapAggregated>,"rmktCapAggregated":<rmktCapAggregated>,"rmktnCapAggregated":<rmktnCapAggregated>,"spvdCapAggregated":<spvdCapAggregated>,"rma":<rma>,"rmaBrk":<rmaBrk>,"rmaCap":<rmaCap>,"rmaProfile":<rmaProfile>,"rmaBrkProfile":<rmaBrkProfile>,"rmaCapAggregated":<rmaCapAggregated>}'
```

DELETE - /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt:

```
curl --location --request DELETE
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/<operatorCode>/lmt' \
--header 'Authorization: Bearer <token>'
```

GET - /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt/mkta:

```
curl --location --request GET
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/<operatorCode>/lmt/mkta' \
--header 'Authorization: Bearer <token>'
```

POST /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt/mkta:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'apstrd45l1d.internalenv.corp:9282/api/v1.0/operationsProfessionalParticipant/85/lmt/mkta' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer 05abd157-d564-4e5d-9250-7ca7653d5343' \
--data-raw '[{"authorized": <authorized>, "groupId": <groupId>, "tmoc": <tmoc>, "tmov": <tmov>, "brpc": <brpc>, "brpv": <brpv>, "spci": <spci>, "spvi": <spvi>}]'
```

GET /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt/spxi:

```
curl --location --request GET
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/<operatorCode>/lmt/spxi' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt/spxi:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/85/lmt/spxi' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '["instrumentId": <instrumentId>, "symbol": <symbol>, "spci":
<spci>, "spvi": <spvi>, "isRemoved": <isRemoved>]'
```

GET - /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt/tmox:

```
curl --location --request GET
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/<operatorCode>
>/lmt/tmox' \
--header 'Authorization: Bearer <token>'
```

POST - /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt/tmox:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/<operatorCode>
>/lmt/tmox' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '["instrumentId": <instrumentId>, "symbol": <symbol>, "tmoc":
<tmoc>, "tmov": <tmov>, "isRemoved": <isRemoved>]'
```

GET - /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt/brpx:

```
curl --location --request GET
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/<operatorCode>
>/lmt/brpx' \
--header 'Authorization: Bearer <token>'
```

POST /v1.0/operationsProfessionalParticipant/{operatorCode}/lmt/brpx:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/<operatorCode>
>/lmt/brpx' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '["instrumentId": <instrumentId>, "symbol": <symbol>, "brpc":
<brpc>, "brpv": <brpv>, "isRemoved": <isRemoved>]'
```

GET -
/v1.0/operationsProfessionalParticipant/code?participantCode=<participant
Code>&traderCode=<traderCode>:

```
curl --location --request GET
'<server>:<port>/api/v1.0/operationsProfessionalParticipant/code?particip
antCode=<participantCode>&traderCode=<traderCode>' \
--header 'Authorization: Bearer <token>'
```

Payload:

/v1.0/operationsProfessionalParticipant/{oprnsPrfalPtcptId}:

```
{
  "isProtected": false,
  "isBlocked": false
}
```

/v1.0/operationsProfessionalParticipant/{oprnsPrfalPtcptId}/lmt:

```
{
  "sfd":0,
  "sdp":0,
  "rmkt":0,
  "rmktn":0,
  "irmkt":0,
  "spvd":0,
  "sfdCap":0,
  "sdpCap":0,
  "rmktCap":0,
  "rmktnCap":0,
  "spvdCap":0,
  "sfdCarrying":0,
  "sdpCarrying":0,
  "rmktCarrying":0,
  "rmktnCarrying":0,
  "spvdCarrying":0,
  "sfdProfile":0,
  "sdpProfile":0,
  "rmktProfile":0,
  "rmktnProfile":0,
  "irmktProfile":0,
  "spvdProfile":0,
  "sfdCapAggregated":0,
  "sdpCapAggregated":0,
  "rmktCapAggregated":0,
  "rmktnCapAggregated":0,
  "spvdCapAggregated":0,
  "rma":0,
  "rmaBrk":0,
  "rmaCap":0,
  "rmaProfile":0,
  "rmaBrkProfile":0,
  "rmaCapAggregated":0
}
```

/v1.0/operationsProfessionalParticipant/{oprnsPrfalPtcptId}/lmt/mkta:

```
[{
  "authorized": 3,
  "groupId": 70,
  "tmoc": 20,
  "tmov": 20,
  "brpc": 20,
  "brpv": 20,
  "spci": 20,
```



```
    "spvi": 20
  }
}
```

/v1.0/operationsProfessionalParticipant/{oprnsPrfalPtcptId}/lmt/spxi:

```
{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "spci": 20,
  "spvi": 20,
  "isRemoved": false
}
```

/v1.0/operationsProfessionalParticipant/{oprnsPrfalPtcptId}/lmt/tmox:

```
{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "tmoc": 20,
  "tmov": 20,
  "isRemoved": false
}
```

/v1.0/operationsProfessionalParticipant/{oprnsPrfalPtcptId}/lmt/brpx:

```
{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "brpc": 30,
  "brpv": 30,
  "isRemoved": false
}
```

5.6 Participant

Service for listing or updating a participant's limit settings and properties at the pre-trade risk level:

Method	Description
GET /v1.0/participant	Retrieves the participants list.
GET /v1.0/participant/{ptcptId}	Obtains data for a participant identified by a code
GET /v1.0/participant/base	Retrieves supplementary participant information
GET /v1.0/participant/pco	Lists PCO participants,
GET /v1.0/participant/link	Lists the PN/PNP participant parameters with CAP limit configured by PNP.
GET /v2.0/participant/{brokerCode}/lmt/capB3	Obtains the participant's exchange limits.

Exemple:

GET - /v1.0/participant:

```
curl --location --request GET
'<server>:<port>/api/v1.0/participant?code=<participantCode>' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/participant/base

```
curl --location --request GET '<server>:<port>/api/v1.0/participant/base' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/participant/pco

```
curl --location --request GET
'<server>:<port>/api/v1.0/participant/pco?code=<participantCode>' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/participant/link

```
curl --location --request GET
'<server>:<port>/api/v1.0/participant/link?pnpcCode=<participantCode>' \
--header 'Authorization: Bearer <token>'
```

GET /v2.0/participant/{brokerCode}/lmt/capB3

```
curl --location --request GET
'<server>:<port>/api/v2.0/participant/<participantCode>/lmt/capB3' \
--header 'Authorization: Bearer <token>'
```

5.7 RiskProfile

Profiles are common definitions of types of account, customer or trader, concentrating limit settings. For example, if there are accounts that will be configured with the same limit values, it is possible to create a profile with these limit values and later associate the accounts with this profile (the same applies to customers and traders). The purpose of a profile is to minimize the work participants need to do to set limits:

Method	Description
GET /v1.0/riskProfile	Obtains data for risk profiles
POST /v1.0/riskProfile	Registers risk profiles
GET /v1.0/riskProfile/{prflId}	Obtains data for a specific risk profile
POST /v1.0/riskProfile/{prflId}	Registers information for a risk profile identified by a code
DELETE /v1.0/riskProfile/{prflId}	Deletes a specific risk profile
GET /v1.0/riskProfile/enty	Obtains a specific risk profile for a specific participant. Note: when the entity type is document, the response is paginated.
GET /v1.0/riskProfile/{prflId}/enty	Obtains a specific risk profile for an entity
POST /v1.0/riskProfile/{prflId}/enty	Registers a risk profile for an entity
GET /v1.0/riskProfile/{prflId}/lmt	Obtains limit data associated with a specific profile
POST /v1.0/riskProfile/{prflId}/lmt	Registers limit data for a specific profile
GET /v1.0/riskProfile/{prflId}/lmt/mkta	Obtains authorized markets for a specific profile
POST /v1.0/riskProfile/{prflId}/lmt/mkta	Registers authorized markets for a specific profile
GET v1.0/riskProfile/{prflId}/lmt/spxi	Obtains limits SPXI for a specific profile
POST /v1.0/riskProfile/{prflId}/lmt/spxi	Registers limits SPXI for a specific profile
GET /v1.0/riskProfile/{prflId}/lmt/std	Obtains limits STD for a specific profile
POST /v1.0/riskProfile/{prflId}/lmt/std	Registers limits STD for a specific profile
GET v1.0/riskProfile/{prflId}/lmt/tmox	Obtains limits TMOX for a specific profile
POST /v1.0/riskProfile/{prflId}/lmt/tmox	Registers limits TMOX for a specific profile
GET /v1.0/riskProfile/{prflId}/lmt/brpx	Obtains limits BRPX for a specific profile

POST /v1.0/riskProfile/{prfId}/lmt/brpx	Registers limits BRPX for a specific profile
--	--

Exemple:

GET /v1.0/riskProfile?participantCode=<participantCode>:

```
curl --location --request GET
'<server>:<port>/api/v1.0/riskProfile?participantCode=<participantCode>' \
--header 'Authorization: Bearer <token>'
```

POST /v1.0/riskProfile?participantCode=<participantCode>:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/riskProfile?participantCode=<participantCode>' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{"id":8200,"name":"TESTE API
2","pnp":{"code":<code>,"name":<name>,"category":<category>,"segment":<segment>},
"participant":{"code":<code>,"name":<name>,"category":<category>,"segment":<segment>},
"entityType":<entityType>,"type":<type>}'
```

GET /v1.0/riskProfile/{profileId}:

```
curl --location --request GET
'<server>:<port>/api/v1.0/riskProfile/<profileId>' \
--header 'Authorization: Bearer <token>'
```

POST /v1.0/riskProfile/{profileId}:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/riskProfile/<profileId>' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{"id":8200,"name":"TESTE API
2","pnp":{"code":<code>,"name":<name>,"category":<category>,"segment":<segment>},
"participant":{"code":<code>,"name":<name>,"category":<category>,"segment":<segment>},
"entityType":<entityType>,"type":<type>}'
```

DELETE /v1.0/riskProfile/profileId:

```
curl --location --request DELETE '<server>:<port>/api/v1.0/<profileId>' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/riskProfile/enty:

```
curl --location --request GET
'<server>:<port>/api/v1.0/riskProfile/enty?participantCode=<participantCode>&id=<profileId>' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/riskProfile/{profileId}/lmt:

```
curl --location --request GET
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt' \
--header 'Authorization: Bearer <token>'
```

POST /v1.0/riskProfile/{profileId}/lmt:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw
'{"sfd":<sfd>,"sdp":<sdp>,"rmkt":<rmkt>,"rmktn":<rmktn>,"irmkt":<irmkt>,"
spvd":<spvd>,"sfdCap":<sfdCap>,"sdpCap":<sdpCap>,"rmktCap":<rmktCap>,"rmk
tnCap":<rmktnCap>,"spvdCap":<spvdCap>,"sfdCarrying":<sfdCarrying>,"sdpCar
rying":<sdpCarrying>,"rmktCarrying":<rmktCarrying>,"rmktnCarrying":<rmktnC
arrying>,"spvdCarrying":<spvdCarrying>,"sfdProfile":<sfdProfile>,"sdpProf
ile":<sdpProfile>,"rmktProfile":<rmktProfile>,"rmktnProfile":<rmktnProfil
e>,"irmktProfile":<irmktProfile>,"spvdProfile":<spvdProfile>,"sfdCapAggre
gated":<sfdCapAggregated>,"sdpCapAggregated":<sdpCapAggregated>,"rmktCapA
ggregated":<rmktCapAggregated>,"rmktnCapAggregated":<rmktnCapAggregated>,"
spvdCapAggregated":<spvdCapAggregated>,"rma":<rma>,"rmaBrk":<rmaBrk>,"rma
Cap":<rmaCap>,"rmaProfile":<rmaProfile>,"rmaBrkProfile":<rmaBrkProfile>,"
rmaCapAggregated":<rmaCapAggregated>}'
```

POST /v1.0/riskProfile/{profileId}/lmt/mkta:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt/mkta' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '[{"authorized": <authorized>, "groupId": <groupId>, "tmoc":
<tmoc>, "tmov": <tmov>, "brpc": <brpc>, "brpv": <brpv>, "spci": <spci>,
"spvi": <spvi>}]'
```

GET /v1.0/riskProfile/{profileId}/lmt/mkta:

```
curl --location --request GET
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt/mkta' \
--header 'Authorization: Bearer <token>'
```

POST /v1.0/riskProfile/{profileId}/lmt/spxi:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt/spxi' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '[{"instrumentId": <instrumentId>, "symbol": <symbol>, "spci":
<spci>, "spvi": <spvi>, "isRemoved": <isRemoved>}]'
```

GET /v1.0/riskProfile/{profileId}/lmt/spxi :

```
curl --location --request GET
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt/spxi' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/riskProfile/{profileId}/lmt/std:

```
curl --location --request GET
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt/std' \
--header 'Authorization: Bearer <token>'
```

POST /v1.0/riskProfile/{profileId}/lmt/std:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt/std' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '[{"instrumentId": <instrumentId>, "instrumentSymbol":
<instrumentSymbol>, "stdBroker": <stdBroker>, "isRemoved": <isRemoved>}]'
```

POST /v1.0/riskProfile/{profileId}/lmt/tmx:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt/tmx' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '[{"instrumentId": <instrumentId>, "symbol": <symbol>, "tmoc":
<tmoc>, "tmov": <tmov>, "isRemoved": <isRemoved>}]'
```

GET /v1.0/riskProfile/{profileId}/lmt/tmx:

```
curl --location --request GET
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt/tmx' \
--header 'Authorization: Bearer <token>'
```

POST /v1.0/riskProfile/{profileId}/lmt/brpx:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt/brpx' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '[{"instrumentId": <instrumentId>, "symbol": <symbol>, "brpc":
<brpc>, "brpv": <brpv>, "isRemoved": <isRemoved>}]'
```

GET /v1.0/riskProfile/{profileId}/lmt/brpx:

```
curl --location --request GET
'<server>:<port>/api/v1.0/riskProfile/<profileId>/lmt/brpx' \
--header 'Authorization: Bearer <token>'
```

Payload:

/v1.0/riskProfile/{profileId}:

```
{
  "isProtected": false,
  "isBlocked": false,
  "isBlockedTrading": false,
  "profileFull": 272,
  "rmktEvaluation": 0,
  "rmktnEvaluation": 0
}
```

/v1.0/riskProfile/{profileId}/lmt:

```
{
  "sfd":0,
  "sdp":0,
  "rmkt":0,
  "rmktn":0,
  "irmkt":0,
  "spvd":0,
  "sfdCap":0,
  "sdpCap":0,
  "rmktCap":0,
  "rmktnCap":0,
  "spvdCap":0,
  "sfdCarrying":0,
  "sdpCarrying":0,
  "rmktCarrying":0,
  "rmktnCarrying":0,
  "spvdCarrying":0,
  "sfdProfile":0,
  "sdpProfile":0,
  "rmktProfile":0,
  "rmktnProfile":0,
  "irmktProfile":0,
  "spvdProfile":0,
  "sfdCapAggregated":0,
  "sdpCapAggregated":0,
  "rmktCapAggregated":0,
  "rmktnCapAggregated":0,
  "spvdCapAggregated":0,
  "rma":0,
  "rmaBrk":0,
  "rmaCap":0,
  "rmaProfile":0,
  "rmaBrkProfile":0,
  "rmaCapAggregated":0
}
```

/v1.0/riskProfile/{profileId}/lmt/spxi:

```
[{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "spci": 20,
  "spvi": 20,
```

```
    "isRemoved": false
  }
}
```

/v1.0/riskProfile/{profileId}/lmt/std:

```
{
  "instrumentId": 2877,
  "instrumentSymbol": "XXXX",
  "stdBroker": 20,
  "isRemoved": false
}
```

/v1.0/riskProfile/{profileId}/lmt/mkta:

```
{
  "authorized": 3,
  "groupId": 70,
  "tmoc": 20,
  "tmov": 20,
  "brpc": 20,
  "brpv": 20,
  "spci": 20,
  "spvi": 20
}
```

/v1.0/riskProfile/{profileId}/lmt/tmox:

```
{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "tmoc": 20,
  "tmov": 20,
  "isRemoved": false
}
```

/v1.0/riskProfile/{profileId}/lmt/brpx:

```
{
  "instrumentId": 2877,
  "symbol": "XXXX",
  "brpc": 30,
  "brpv": 30,
  "isRemoved": false
}
```

5.8 Position

Position are the values of the metrics generated throughout the day and on previous days.

Method	Description
POST /v1.0/position/hstry	Obtains the history of a participant's positions
GET /vi/position/cur	Obtains the participant's current position at that moment.

Exemple:

POST /v1.0/position/hstry:

```
curl -o /dev/null --silent -k --write-out '%{http_code}' \
--location --request POST '<server>:<port>/api/v1.0/position/hstry' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{
  "broker": {
    "category": <category>,
    "code": <participantCode>,
    "name": "",
    "segment": <segment>
  },
  "metricCodes": <metricCodes>,
  "entityCode": <entityCode>,
  "entityType": <entityType>,
  "pcoBroker": {
    "category": <category>,
    "code": <participantCode>,
    "name": "",
    "segment": <segment>
  },
  "periodEnd": <periodEnd>,
  "periodStart": <periodStart>
}'
```

GET /v1.0/position/cur?brokerCode=69591&entCode=100:

```
curl --location --request GET
'<server>:<port>/api/v1.0/position/cur?brokerCode=<participantCode>&entCode=<entCode>' \
--header 'Authorization: Bearer <token>'
```

5.9 Exchange Limits

Method	Description
GET /api/v1.0/exchangeLimits/authorizedMarkets	Obtains the list exchange authorized market limits
GET /v1.0/exchangeLimits/maturities	Obtains the list exchange instrument maturities filtered by asset
GET /v1.0/exchangeLimits/instruments	Obtains the SPCI and SPVI exchange limits by Asset.
GET /v1.0/exchangeLimits/lmt/spxi/instruments	Obtains the list exchange SPCI and SPVI limits
GET /v1.0/exchangeLimits/lmt/tmox/instruments	Obtains the list exchange TMOC and TMOV limits
GET /v1.0/exchangeLimits/terms	Obtains the list exchange forward limits
GET /v1.0/exchangeLimits/irmkt	Obtains the list exchange incremental risk market

GET /v1.0/exchangeLimits/spxi/{brokerCode}	Obtains the SPXI exchange limits for a given broker.
GET /v1.0/exchangeLimits/participant	Obtains the list all PNP and PNP brokers
GET /v1.0/exchangeLimits/participant/{brokerCode}	Obtains the characteristics of the searched broker.

Exemple:

GET /api/v1.0/exchangeLimits/authorizedMarkets:

```
curl --location --request GET
'<server>:<port>/api/v1.0/exchangeLimits/authorizedMarkets' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/exchangeLimits/maturities:

```
curl --location --request GET
'<server>:<port>/api/v1.0/exchangeLimits/maturities' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/exchangeLimits/instruments:

```
curl --location --request GET
'<server>:<port>/api/v1.0/exchangeLimits/instruments' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/exchangeLimits/lmt/spxi/instruments:

```
curl --location --request GET
'<server>:<port>/api/v1.0/exchangeLimits/lmt/spxi/instruments' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{
  "symbol": <symbol>
}'
```

GET /v1.0/exchangeLimits/lmt/tmox/instruments:

```
curl --location --request GET
'<server>:<port>/api/v1.0/exchangeLimits/lmt/tmox/instruments' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/exchangeLimits/terms:

```
curl --location --request GET
'<server>:<port>/api/v1.0/exchangeLimits/terms' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{
  "symbol": <symbol>
}'
```

GET /v1.0/exchangeLimits/irmkt:

```
curl --location --request GET
'<server>:<port>/api/v1.0/exchangeLimits/irmkt' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/exchangeLimits/spxi/{brokerCode}:

```
curl --location --request GET
'<server>:<port>/api/v1.0/exchangeLimits/spxi/<brokerCode>' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/exchangeLimits/participant:

```
curl --location --request GET
'<server>:<port>/api/v1.0/exchangeLimits/participant' \
--header 'Authorization: Bearer <token>'
```

GET /v1.0/exchangeLimits/participant/{brokerCode}:

```
curl --location --request GET
'<server>:<port>/api/v1.0/exchangeLimits/participant/<participantCode>' \
--header 'Authorization: Bearer <token>'
```

Payload:

/v1.0/exchangeLimits/findInstruments:

```
{
  "symbol": "BGIZ28"
}
```

/v1.0/exchangeLimits/lmt/spxi:

```
{
  "symbol": "BGIZ28"
}
```

/v1.0/exchangeLimits/lmt/tmx:

```
{
  "symbol": "BGIZ28"
}
```

5.10 Auxiliary endpoints

Auxiliary endpoints for listing types of entity, such as types of metric, types of profile etc..

Method	Description
GET /v1.0/metricType	Types of metric
GET /vi/profileType	Types of profile
GET /v1.0/lineEntityType	Types of entity
GET /v1.0/user	Information on logged-in user

5.11 Monitor

Endpoints com detalhes do consumo de risco.

Method	Description
GET /v1.0/riskMonitor/entity	Obtains market risk consumption details grouped by Client/Account.
GET /v1.0/riskMonitor/ instrument	Obtains market risk consumption details grouped by Instrument.
GET /v1.0/riskTradeMonitor/ entity	Obtains realized market risk consumption details grouped by Client/Account.
GET /v1.0/riskTradeMonitor/ instrument	Obtains realized market risk consumption details grouped by Instrument.

6 TEST TOOL

The LINE 5.0 API provides, in the Certification environment, a testing tool for all its functionalities. This tool allows developers to browse the endpoints, consult the documentation, and execute them, simulating a real operation. Its use is recommended to improve understanding of each resource. The tool is available at: <https://line.trd.cert.bvmfnet.com.br/#/endpoints>.

6.1 Error message structure

The error return standard used by LINE 5.0 is a JSON object containing an identifier (represented by the logref attribute) and a message (represented by the message attribute). The reported identifier will enable B3's support team to identify the problem that has occurred in the logs. The message will describe the problem in a humanly comprehensible format

```
VndErrors[VndError[logref: <codErro>, message: <msgErro>, links: []]]
```

codErro: error code to be reported to B3 if support is required – problem tracking identifier.

msgErro: error message – description of the problem that occurred, e.g. an attempt to set a limit using the wrong metric group:

“Only SPXI metric group can receive inheritance! Received: {Limit={brokerCode:000, profileId:000, metricGroup:10, groupId:00, instrumentId:000, symbol:"BVMF3"}}”

CHANGE LOG:

Data	Version	Description	Author
JUN/2017	4.1	First version	ESC
AGO/2017	4.2	Example of cURL call with GZIP	ESC
AGO/2017	4.3	Inclusion of alerts and positions	ESC
SET/2017	4.4	Alignment of endpoints with canonical	ESC
NOV/2025	4.5	Inclusion of risk consumption monitors	ESC
JUL/2026	5	Complete documentation update, adding all endpoints	WSM