



**BORSA
İSTANBUL**

BAP Tescil API Service

THE API DOCUMENTATION

Version 1.0.0

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GENERAL INFORMATION

This API document is created to describe all the requests of the BISTECH TESCIL API Service.

The system supports 7 different requests (end-points) to allow the user to use all the TESCIL System functionalities.

BISTECH TESCIL API Service is a RESTful API.

Required TLS is 1.2 or 1.3

Supported protocol is HTTPS.

BISTECH TESCIL API REQUEST LIST

POST Login

POST Change Password

GET Session Info

POST Trade Reporting

POST Trade Query by Date

POST Remove by ID

POST Remove by Date

REQUEST DESCRIPTION and EXAMPLES

POST LOGIN

In order to get a token which will be used throughout the future request

- The access token type is the Bearer.
- The access tokens are valid for 24

hours. The URL (end-point):

```
https://tescil.borsaistanbul.com/apiAuthenticateUser
```

Request Signature:

```
LoginRequest { Required: password,username  
username: string  
password: string }
```

Response Signature:

```
Login-Response {  
Required:  
accessToken,email,firmid,fullname,id,languageId,roles,token,tokenType,type,userType,username  
token: string  
type: string  
id: integer (int32)  
username: string  
email: string  
fullname: string  
firmid: string  
roles: string  
userType: string  
languageId: string  
accessToken: string  
tokenType: string }
```

Request Example:

```
{  
  "username": "ABC_API_USER",  
  "password": "Password123!"  
}
```

Response Example:

```
{
  "token": "eyJhbGciOiJIUzUxMiJ9xxxxx... ",
  "type": "Bearer",
  "id": 2420,
  "username": "ABC_API_USER",
  "email": null,
  "fullname": "ABC_API_USER",
  "firmid": "ABC",
  "roles": ["ROLE_USER"],
  "userType": "A",
  "languageId": "T",
  "accessToken": "eyJhbGciOiJIUzUxMiJ9xxxxx... ",
  "tokenType": "Bearer"
}
```

Status Code: 200

POST CHANGE PASSWORD

The request to change password according to BIST password policy

The URL (end-point):

```
https://tescil.borsaistanbul.com/apiChangePassword
```

Header Parameters:

```
AUTHORIZATION: Bearer Token
```

```
Token
```

Request Signature:

```
ChangePasswordRequest { Required: newPassword,password,username  
username: string  
password: string  
newPassword: string }
```

Response Signature:

```
ChangePassword-Response { Required: message  
message: string }
```

Request Example:

```
{  
  "username": "ABC_API_USER",  
  "password": "Password123!",  
  "newPassword": "*Password789"  
}
```

Response Example:

```
{  
  "message": "Password is changed"  
}
```

Status Code: 200

GET SESSION INFO

Request for getting session information

The URL (end-point):

```
https://tescil.borsaistanbul.com/apiGetSessionInfo
```

Header Parameters:

AUTHORIZATION: Bearer Token

Token

Response Signature:

```
SessionInfo-Response { Required: businessDate,periodStartDate,sessionOpenFrom,sessionOpenUntil  
businessDate: string  
periodStartDate: string  
sessionOpenFrom: string  
sessionOpenUntil: string }
```

Request Example:

NOTE: There is no body for the get request

Response Example:

```
{  
  "businessDate": "20210226",  
  "periodStartDate": "20210121",  
  "sessionOpenFrom": "08:00:00",  
  "sessionOpenUntil": "23:30:00"  
}
```

Status Code: 200

POST TRADE REPORTING

Request for reporting trades

The URL (end-point):

```
https://tescil.borsaistanbul.com/apiRegisterTradeList
```

Header Parameters:

AUTHORIZATION: Bearer Token

Token

Request Signature:

```
TradeReportingRequest { Required: accountNumber, buySell, counterParty, countryCode, isin, nominal,
, settlementPrice, settlementValue, startDate, tradeDate
tradeDate: string
isin: string
buySell: string
settlementPrice: string
nominal: string
settlementValue: string
repoRate: string
startDate: string
endDate: string
counterParty: string
accountNumber: string
countryCode: string
*participant: string
*onBehalfOfParticipant: string }
```

*: participant and onBehalfOfParticipant can only be filled by a PROXY User.

Response Signature:

```
TradeReporting-Response {
Required: dailySummary, details, failedItems, processedItems, results, status, totalItems
status: string
totalItems: integer (int32)
processedItems: integer (int32)
failedItems: integer (int32)
details: string
dailySummary: DailySummary { }
results:[] }
```


Request Example:

```
[
  {
    "tradeDate": "20200223",
    "isin": "TRT020823T11",
    "buySell": "R",
    "settlementPrice": "211.319",
    "nominal": "143858.00",
    "settlementValue": "304000.00",
    "repoRate": "7.00",
    "startDate": "20201128",
    "endDate": "20201201",
    "counterParty": "M",
    "accountNumber": "B45199390976",
    "countryCode": "TR",
    "participant": "",
    "onBehalfOfParticipant": ""
  },
  {
    "tradeDate": "20200223",
    "isin": "TRT020823T11",
    "buySell": "P",
    "settlementPrice": "211.319",
    "nominal": "143858.00",
    "settlementValue": "304000.00",
    "repoRate": "7.00",
    "startDate": "20201128",
    "endDate": "20201201",
    "counterParty": "M",
    "accountNumber": "B45199390976",
    "countryCode": "TR",
    "participant": "",
    "onBehalfOfParticipant": ""
  }
]
```

Response Example:

```
{
  "status": "SUCCESS",
  "totalItems": 2,
  "processedItems": 2,
  "failedItems": 0,
  "details": ""
}
```

```
"dailySummary": {
  "apiName": "ABC20210226_API_1.CSV",
  "apiId": 3560,
  "numberOfTrades": 2,
  "numberOfLateReportedTrades": 2
},
"results": [
  {
    "index": 1,
    "tradeId": "20210226_ABC_3560_1",
    "failure": ""
  },
  {
    "index": 2,
    "tradeId": "20210226_ABC_3560_2",
    "failure": ""
  }
]
```

Status Code: 200

POST TRADE QUERY BY DATE

Check trades by date in the format of "yyyyMMdd"

The URL (end-point):

<https://tescil.borsaistanbul.com/apiGetTradeByDate>

Header Parameters:

AUTHORIZATION: Bearer Token

Token

Request Signature:

```
TradeQuerybyDateRequest { Required: yyyyMMdd  
yyyyMMdd: string }
```

Response Signature:

```
TradeQuerybyDate-Response { Required:  
id;tradedate;fileno;lineno;isincode;buysell;firmid;counterparty;accountnumber;countrycode;startdate  
;enddate;settlementprice;nominalvalue;settlementvalue;reporate;operatorid;timestamp;filename;rep  
oTerm;fileDate;fee;totalInterest;appliedFeeType  
id: string  
tradedate: string  
fileno: integer (int32)  
lineno: integer (int32)  
isincode: string  
buysell: string  
firmid: string  
counterparty: string  
accountnumber: string  
countrycode: string  
startdate: string  
enddate: string  
settlementprice: number (double)  
nominalvalue: integer (int32)  
settlementvalue: integer (int32)  
reporate: integer (int32)  
operatorid: string  
timestamp: string  
filename: string  
repoTerm: integer (int32)  
onBehalfOfParticipant: string  
fileDate: string  
  
fee: number (double)  
totalInterest: number (double)
```

```
appliedFeeType: string}
```

Request Example:

```
{  
  "yyyyMMdd": "20210329"  
}
```

Response Example:

```
[  
  {  
    "id": "20210329_ABC_3638_8 ",  
    "tradedate": "2021-02-26",  
    "fileno": 3638,  
    "lineno": 8,  
    "isincode": "TRT040522T21",  
    "buysell": "R",  
    "firmid": "ABC ",  
    "counterparty": "TCZ ",  
    "accountnumber": "L788760JRESRXCE83YQ90 ",  
    "countrycode": "TR ",  
    "startdate": "2021-02-26",  
    "enddate": "2021-03-01",  
    "settlementprice": 100,  
    "nominalvalue": 80000,  
    "settlementvalue": 500000,  
    "reporate": 4,  
    "operatorid": "ABC_API_USER",  
    "timestamp": "2021-03-29T07:43:40.162+0000",  
    "filename": "ABC20210329_API_1.CSV",  
    "repoTerm": 3,  
    "fileDate": "2021-03-29",  
    "fee": 18.75,  
    "totalInterest": 0,  
    "appliedFeeType": "L"  
  },  
  {  
    "id": "20210329_ABC_3638_9 ",  
    "tradedate": "2020-02-23",  
    "fileno": 3638,  
    "lineno": 9,  
    "isincode": "TRT020823T11",  
    "buysell": "A",  
    "firmid": "ABC ",
```

```
"counterparty": "M ",
"accountnumber": "B45199390976 ",
"countrycode": "TR ",
"startdate": "2020-11-28",
"enddate": null,
"settlementprice": 211.319,
"nominalvalue": 143858,
"settlementvalue": 304000,
"reporate": 0,
"operatorid": "ABC_API_USER",
"timestamp": "2021-03-29T07:43:40.175+0000",
"filename": "ABC20210329_API_1.CSV",
"repoTerm": 0,
"fileDate": "2021-03-29",
"fee": 7.6,
"totalInterest": 0.36885840000000003,
"appliedFeeType": "I"
}
]
```

Status Code: 200

POST REMOVE TRADES by DATE

The request for deleting multiple trades by Date

The URL (end-point):

```
https://tescil.borsaistanbul.com/apiRemoveTradesByDate
```

Header Parameters:

AUTHORIZATION: Bearer Token

Token

Request Signature:

```
RemovebyDateRequest { Required: yyyyMMdd  
yyyyMMdd: string }
```

Response Signature:

```
RemovebyDate-Response { Required: message  
message: string }
```

Request Example:

```
{  
  "yyyyMMdd": "20210225"  
}
```

Response Example:

```
{  
  "message": "Deleted(2)"  
}
```

Status Code: 200

POST REMOVE TRADEs by ID

Remove the trade by TradeId property

The URL (end-point):

```
https://tescil.borsaistanbul.com/apiRemoveTradeById
```

Header Parameters:

AUTHORIZATION: Bearer Token

Token

Request Signature:

```
RemovebyIDRequest { Required: id  
id:string }
```

Response Signature:

```
RemovebyID-Response { Required: message  
message: string }
```

Request Example:

```
{  
  "id": "20210225_ABC_3539_3"  
}
```

Response Example:

```
{  
  "message": "Deleted"  
}
```

Status Code: 200