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# Online Signer V2

VERSION 2.0.1  
ISMAYILZADA FARID

NATIONAL CERTIFICATE SERVICE CENTER | DPC Azerbaijan

# ONLINE SIGNER V2 INTEGRATION TOOL FOR E-IMZA/EID

## 1. Overview

**i** The app was developed as an integration tool for e-imza and e-id of Azerbaijan.

NOTE: You must install and run application only with admin privileges.

## 2. APP Functions

- i**
1. `/hostversion`
  2. `/version`
  3. `/api/v1/signer/readcertificatesfromstore`
  4. `/api/v1/signer/signformats`
  5. `/api/v1/signer/tsaclients`
  6. `/api/v1/signer/basesign`
  7. `/api/v1/signer/fullsign`
  8. `/api/v1/signer/getfiles`
  9. `/api/v1/signer/verify`

## 3. /hostversion

**i** METHOD :GET

RESULT : Current version of HOST APP

Example :

```
curl -X GET --header 'Accept: application/json' 'http://localhost:18230/hostversion'
```

Response : "1.0.38.444"

## 4. /version

**i** *METHOD :GET*

*RESULT : Current version of APP*

*Example :*

```
curl -X GET --header 'Accept: application/json' 'http://localhost:18230/version'
```

*Response : "1.0.0.1"*

- It changes on each update process

## 5. /api/v1/signer/readcertificatesfromstore

METHOD :GET

Chose certificate from store.

**i** *Method :GET*

*Response Sample :*

```
{  
  "output": {  
    "certificates": [  
      {  
        "serialNumber": "7FC4E13612808EC800030001C4F3",  
        "subject": "SERIALNUMBER=56MKFRY, G=FƏRİD, SN=İSMAYILZADƏ, CN=FƏRİD İSMAYILZADƏ İSRAFİL  
OĞLU, OU=VÖEN:9900037691-19910002080, O=NRVTN MHM, C=AZ, T=E-İMZADA İNNOVASİYALAR  
SEKTORU"  
      }  
    ]  
  },  
  "error": null,  
  "isSuccess": true  
}
```

*NOTE: e-imza smartcard or token should be plugged before calling this function*

## 6. /api/v1/signer/fullsign

Method: POST

Sign a document

Input:

```
i { "signFormat": "Edoc",
    "tsaClientName": "Default",
    "signCertificateSerialNumber": "7FC4E13612808EC800030001C4F3",
    "files": [ {
        "name": "test",
        "rawData": "MQ=="
    } ]
}
```

- signFormat – the format of the signature (Edoc)
- tsaClientName – Timestamp procedure. The value is one of results /api/v1/signer/tsaclients
- signCertificateSerialNumber – signature certificate serial number
- files – The array of base64 files that you want to sign.

Output:

```
i {
  "output": {
    "edocFile": {
      "name": "52cb0d0e-fe92-4fd1-873e-51b6dc5626c6.edoc",
      "rawData": "base64 signed document"
    }
  },
  "error": null,
  "isSuccess": true
}
```

Rawdata – Signed document in base64 format

## 7. /verify

Method: POST

- signFormat – The format of the signature in document (for example: Edoc)
- rawData – Signed document in base64

Input:

```
i curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{\n  "signFormat": "Edoc",\n  "rawData": "rawdatabase64"}' 'http://localhost:18230/api/v1/signer/verify'
```

Output :

```
{\n  "output": {\n    "result": {\n      "allStatus": "Success",\n      "description": null,\n      "verificationTime": "20-May-20 3:34:23 PM",\n      "actionBase": [\n    ]\n  },\n  "error": null,\n  "isSuccess": true\n}
```

- i** • Allstatus - result of collective verification process .
- Description – contains the reason of validation fail . For example : SigningCertificateNotVerified  
All detail information is collected in ActionBase list

- i** • Verify Method also detect Timestamp token and verify the integrity .  
If signed message contains Validator ID "TimestampIntegrityCheck" it means that this Signed message has Timestamp Token . Sample :

```
{\n  • "id": "TimestampIntegrityCheck",\n  • "object": null,\n  • "result": {\n  • "status": "Success",\n  • "message": "TimestampFound",\n  • "parameter": "28-Jul-20 10:49:51 AM"\n  }\n}
```

## 8. /api/v1/signer/getfiles

Method: POST

Input

- signFormat – The format of the signed document
- rawData – Signed Document in base64 format

```
i curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{\n  "signFormat": "Edoc",\n  "rawData": "base64 signed document " }' 'http://localhost:18230/api/v1/signer/getfiles'
```

Output:

```
i {\n  "output": {\n    "files": [\n      {\n        "name": "test.txt",\n        "rawData": "file in base64"\n      }\n    ]\n  },\n  "error": null,\n  "isSuccess": true\n}
```

## 9. /api/v1/signer/basesign

Method: Post

This method is the same with /fullsign, but without timestamp. Using this method, you can sign any document offline.

Input :

```
i { "signFormat": "Edoc",  
    "signCertificateSerialNumber": "7FC4E13612808EC800030001C4F3",  
    "files": [ {  
        "name": "test",  
        "rawData": "MQ=="  
    } ]  
}
```

## ERROR CODES

Example:

```
i { "output": null,  
    "error": {  
        "httpStatusCode": 400,  
        "statusCode": 2,  
        "message": "Gönderilen parametrlər yanlışdır." },  
    "isSuccess": false  
}
```

HTTP Supported Codes : 200 – ok , 400- error , 500 – internal error

statusCode	Description
0	Success
1	UnknownError
2	InvalidInputArguments
3	SignProcessFailed
4	IsInProcess
5	CertificatesNotFound
6	

