

# Digital Signature Api Documentation

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# 1 Introduction

## 1.1 API Resources

- Resource: /api/sign  
Resource destination: This resource allows to sign in data using sent \*.pfx file with private key.
- Resource: /api/verify  
Resource destination: This resource allows to verify signed data using signature and certificate with public key (\*.cer).

## 1.2 Error handling

The error handling is unified in the entire API, and the error list is created bitwise. We use following error codes:

- 0 - Ok
- 4 - Missing parameters
- 32 - Wrong data
- 64 - Wrong base64 input

There are three types of errors:

- Some fields are empty - appears when some parameter is null
- Invalid certificate file - appears when read certificate bytes are wrong or password is incorrect (unfortunately C library exceptions doesn't split those two errors)
- Invalid base64String - when conversion from base64 to data failed

Error message format:

1.  
{  
  "code": "4",  
  "message": "Some fields are empty",  
  "errorMsg": "data field cannot be empty"  
}
2.  
{  
  "code": "32",  
  "message": "Invalid certificate file",  
  "errorMsg": "Określone hasło sieciowe jest niepoprawne.\r\n"  
}
3.  
{  
  "code": "64",  
  "message": "Invalid base64String",  
  "errorMsg": "Nieprawidłowa długość tablicy lub ciągu znaków Base-64."  
}

## 2 Signing data

Example usage:

POST /api/sign

Accepted request formats:

- application/x-www-form-urlencoded
- application/json

Request body:

- data - contains base64 string with data to sign
- cert - certificate file in base64 string
- password - password to open the certificate

Response formats: JSON Example JSON Response structure:

```
{
  "code": "0",
  "message": "Successfully signed!",
  "data": {
    "signature": "B2cApzKT3sYpVuwSzbMqPPM-qqK4iqUS_iXiCTfXq3Gok_puw79YuBOjKLqtH-
CvV364th5IAmy7CoJHFOIS2GUR9aNqpGIdAC0HSVneSFGv7JnDe1fsoFVZj4ZcGTmEUxBX1VOXhgYICLNdLJ7gC3fe
3NF-yld924aosXGZ0e1s-W3jJgsNbteW36K8kaC8kne5pOtxnmJdBLjfseo5uusXfR89ytGh-
u8J2UkFETyh3gdAQSXzi0VJZTfnDotWSG3hvZcSc41qG-
JGP7k8mKytBl6gP21X6pt4gr0slxkmhax6Ni1iUp5HBgl83jDksgWAJqktHo5Ewja8GhlwRg2"
  }
}
```

### 3 Verifying data

Example usage:

POST /api/verify

Accepted request formats:

- application/x-www-form-urlencoded
- application/json

Request body:

- data - contains base64 string with data to verify
- signature - signature of data (produced by /api/sign)
- password - password to open the certificate

Response: string specifying if verification succeeded.

Response formats: JSON Example JSON Response structure:

```
{
  "code": "0",
  "message": "Successfully verified!",
  "data": {
    "Verification result": "Legitimate"
  }
}
```

Examples of full requests and responses are placed in Appendix.

## 4 Appendix

### Example sign request :

Request format:

- application/x-www-form-urlencoded

You can also find the example in the attached sign-x-www-form-urlencoded.txt file.

header: Content-Type: application/x-www-form-urlencoded

method: POST

Example request body:

```
data=VGv4dFRvU2lnbg==&cert=MIKBAIBAazCCCcAGCSqGSib3DQEHAaCCCbEEggmtMIIJqTCCBfoGCSqGSib3DQE
HAAcCBesEggXnMIIF4zCCBd8GcyqGSib3DQEMCGECOIIIE/jCCBPowHAYKKoZIhvcNAQwBAzAQBAGWEZ52eHB
QICB9AEggTYIFe7J/rXmKaUayFEP9eXi1p7zAMJEICnlpSgLH0miFbKYulI6bgYkvnW67gPzQOU9PurQfEZbHC
JTKlxmHT1o+8PiaBq5zhdc+OfdFhx/Y4CXOT4G4V5BRmknA3UB3Kysn0VM7i4TnGdfbOaizwoRqGHRrOXXTh
q/7RjNGauGIOoppOomFm8zmbLzUg5hRHauDzdfPr5ksFvhQT0Gm3KoIQFhcKK2NPMj9j0+970XCCAQPNg+qY+9y
lsN1cqjq6IWOpnoDJZQQ8s51FgyPY2fpX4BckPKezInOTNdnswxE2yA4zvB2wLHF/nCnPdpf/MKEMzQCjBcVX
XUVXZvKPTHILs7rjwkDf9IeKtNpV2AqKdv4GnEyTqu0BU099IiW2Bq+IEB640EIXIGebajz4rQglxUcvfECjXA
K2xPgnYV0/jC7WDTXDY9F+Cq6oCimaHvXCyCRRQ7730A4RyOGBvjgEOw+ELcRszcD57LEHRb/CychjKZp8C1MI9
Ogg3ykFDc24MajeC0a5GeLLMesCMUyxL440eedHMFmTjas+uamxtrvn+3fCPYFnBFg4SM01hjS28jJk42zYvr
VKpJOaMS/WvuEheWiS7B5AVj1L2D3BiUmNWP6g9rGMKogofxY14RcBjiUTDb1tQjtUd9nDMnZAaxTH0+C6/1Qs
htN7JYsy6GdYf6sq9w6hQ+1kuR8Spcg3H80hFZe7AxLGsS/DUjRxH1HX4C1y/I1bYA+skq6mAzFOMDLvI9ezgS
UiIs75blqDgvI0cD5gaTwca2X9mAuy0eD1uEUWUUs/DXsounzMLf9Qz1Mvomqs5FfLZjf8YNwvSECiGqrYUOP/
Yo6naLTK22C76tnDIYGJig7MTRMJua4PcdhzaLA2h/PYiqLZzeD072dvCg35EQRIoXJkahjqCgiJp/PpDHwoz1/
LvXkppKcC5PSJI92zQ/hbZyL0a3TKRVnADIulsLQcuKL3If2zLBuR1j4j/MZSribC+TIG7eCNu+j2kANHORVY1
arR1QVd+iuipbnSSo24nX0174qiA6pzXYDzWU5mcU7PVH20a0AyxGGnVawlPpJ34atNZS5iDPdNK54u2MnrFtnB
GzPy6QNhme27IBGcjG0f2fcTinA66mXC0ntULQ1M4McThts6khT9UjUazbYbeKNTd3wfEXcyOQ/4tLn+QoHMmS
VlhIVTzzMiiR36rqHJaU1XOKDToUomfImfoqn00iWov3IqWenKvXKvX18TraTZufgoaDaP5AFevF8Ddc0RtMPZ
IXwpPIA+YymZFNF97/e6UZGAAqV0sPJS9jOE+TuBScmb+FHzzgu3EOG60VLSK7J2ruaAitRYJWCFPK7WPwBi9+g
gVjzBYI72pXBpL4RQR2H0ZNBh9xWH79s5klAmVd0sZ1HmpKVNnIkK6eNCxH7TrIsW4kYwn8hv6UE5Bom68lgz
u4fb6uVhUFnqvSX1nJiqFigo0JjcB4ewRUhw2TOXu5yHxeShmoC7tJsocZ7keZ/aAFQIU1Ptnu0oxm+IXRP6kP
z1fR/zP3jBzS9T7Hrdq1IAiJV8BMWLro3q5kM4tNHsmlrNK7Uw3C5wd75pZxhbQrx3j0EvexVIBhXdhJkpYri
FCio7yi0+Qb1YRsZW3HWpPhu0IgdX3k5iDGBzTATBgkqhkiG9w0BcRUxBgQEAQAADBBgkqhkiG9w0BcRQxS
h5IAGIAMAaxADUANABkADMAOQAtADMANAAzADkALQA0ADAAMAA3ACOAYQA0ADcA0AAtADIAMgBhADQAYwBkAGQ
AQQBkADkAYgA4MFOGCSsGAQQBgjcRATFQHk4ATQBpAGMAcgBvAHMAbwBmAHQAIABTAHQAcbvAG4AZwAgAEMac
gB5AHAAdABvAGcAcgBhAHAAaABpAGMAIABQAHIAbwB2AGkAZAB1AHIwggOnBgkqhkiG9w0BBwagggOYMIID1AI
BADCCA40GCSqGSib3DQEHAATcBgoqhkiG9w0BDAEGMA4ECG8Y7BwEbASgAgIH0ICCA2C4NABLS3BklJoQyGfX8
J7bWuGunkorGVximc4aEiHPHFa6fYySR9sja3JOHrBgx05wFZc7FxlWQ78369b9CqpcumrL3/WIZOWzfTMczhx
09F4ozk+hhXD/qRQunxwvgG4G4wjz+hq2uD1IY53dVZK30gOnrZQ6WubB+nOVq7wsZPw+wVgV8Z89uWdL5Zhup
fAK7W/oEi07RueQKe3LDBPf9STSAPjsS12wMIVdLHHQqdnV9zHwkNGIqqySi1x9M+xbalGQ08Vx5ZutrPtWCov
RFSdtkjkkDD1tz7N0WTRZqQXoEUXM9iSHnHmb1T1e3T1XDEBI29G0E80DSYMs/oVKX+ML4EAf3oQtiPW0sZW2GA
tLst10aDoZE8YUis8uvObSk3Z7s3l+d0vgGaDDJiF2Y5eVskmkaS+uZALConB859eLw/7HVtUEDvs34RLOHCZJ
ptEdNA3kMv1cGBLVkg+11YZ/82WQ5vDm3+GMAcZ9UJcqqb9mczIYPLU+2c25vD087M3uX0/WzVg5cyeYbSMsT4
nSVHd4iN7r5lhMUuK1tNYxfIwS+9tn0d3B4mQamuD3TCuajVfGpSMGyKx0iI4GCKi0yJ/zrBE6NP3W1Yu73eDM
V2G1t+F3qONJiGbCgPgY05ambmJogWKFaf0yRsYdKozZ9p/r8jSNGOMfNvGztk2CdrJ7NT5dJuaAJLMXBxqP9
ZrtUTLnLawYN5p3qu0A0WIVzVd3q2HJEhtY6+50eaRmsqGHLlcvfFnmwqVqyW80HZZ2UuUgGGIWP1u3TdHcFEQ
y6g5juKUTE+Xs8TQpMiuS1ZGQHnCyPf4c7jJ4+q+uHIckjx8UPyVy/sSHxoC8TS/2300AAChTLHn5hEo2xU0Ao
BhMpJBjY9x5Jv8wTASymQL9JW1Q9yaUT2MiFDpueA50EJVobT1nU7b5e2PooE13kC2u5BaJPLxTC3QcjJmNYGdj
Cx1GTy/cUBbatF3YKJWNAgPjS0SrhS4Bqd5SmK8gRZTKe/IW6YhtSNaoauxdY1HOTf1yPtoVHNguER0qxGnNe
e7XL7sKLtC9In0jLaXVJ2BPPpH/HtLntfYrxoY9JV+xNWKxaWjG20kEnNzD7VY00A50gacLdwzNjxhZPrx04D
P1+eW0d4WKjm055ogw0zAfMacGBS0AaIaBBRC7+zH/nkB7GDGhR1l1YNbXuS4BAQUZRRWRgbdN2Ma1w7E/jZM
09A43YQCAgfQ&password=pass
```

- application/json

You can also find the example in the attached sign-json.txt file.

header: Content-Type: application/json

method: POST

Example request body:

```
{ "data": "VGv4dFRvU2lnbg==",
  "cert": "MIIKBAIBAazCCCAGCSqGSIb3DQEHAaCCCBEEggmtMIIJqTCCBfoGCSqGSIb3DQEHAaCCBesEggXnMIIF4z
  CCBd8GCyqGSIb3DQEMCGECOIIE/jCCBPowHAYKKoZIhvcNAQwBAzA0BAgAGWEZ52eHBQICB9AEggTYIFe7J/rX
  mKaUayFEP9eXi1p7zAMJEICn1pSg LH0miFbKYulI6bgYkvnW67gPzQ0U9PurQfEZbHCJTKLxmHT1o+8PiaBq5z
  hdc+OfdFhx/Y4CXOT4G4V5BRmknA3UB3Kysn0VM7i4TnGdfb0aizwoRqGHRr0XXThq/7RjNGauGIopp0omFm8
  zmbLzUg5hRHaUdzfPr5ksFvhQT0Gm3KoIQFhcKK2NPmj9j0+970XCCAQPNg+qY+9ylsN1cqi6IWOpjnoDJZQ
  Q8s51FgyPY2fpx4BckPKEzInOTNdNswxE2yA4zvB2wLHF/nCnPdpf/MKEMzQCJbCVXXUvXZvKPTHILs7rjwkD
  f9IEKtNpV2AQkdV4GnEyTqu0BU099IiW2Bq+iEB640EIXIGebajz4rQglxUcvfECjXAK2xPgnYV0/jC7WDTXD
  Y9F+Cq6oCimaHvXCYcRQ7730A4Ry0GBVjgE0w+ELcRszcD57LEHRb/CychjKZp8C1MI90gg3ykFdc24MajeC0
  a5GeLLMesCMUyxL440eedHMFmTjas+uamxtrvn+3fCPYFNBfg4SMO1hjs28jJJk42zyvrVKpJ0aMS/WvuEheWi
  S7B5AVj1L2D3BiUmNWP6g9rGMKogofxY14RcBjiUTDb1tQjtUd9nDMnZAaxTHO+C6/1QshtN7JYsy6Gdyf6sq9
  w6hq+1kuR8Spqg3H80hFZe7AxLGsS/DUjRxH1HX4C1y/I1bYA+skq6mAzFOMDLvI9ezgSUiis75blqDgvI0cD5
  gaTwa2X9maUy0eD1uEUWUUs/DXsounzMLf9Qz1Mvomqs5FfLZjf8YNwvSECiGqrYUOP/Yo6naLTK22C76tnDI
  YGJig7MTRMJU4PcdhzaLA2h/PYiqLZzeD072dvCg35EQRioXJkahjqCgiJp/PpDhwoz1/LvXkppKcC5PSJI92z
  Q/hbZyL0a3TKRVnADIulsLQcuKL3If2zLBuR1j4j/MZSribC+TIG7eCNu+j2kANHORVYlarR1QVd+iupbnSS
  o24nX0174qiA6pzXYDzWU5mcU7PVH20a0AyxGGNvawlpPj34atNZS5iDPdNK54u2MnrFtnBGzPy6QNhme27IBG
  cJG0f2fcTinA66mXC0ntULQ1M4MctHts6khT9UjUazbYbEKNtd3wfEXcyOQ/4tLn+QoHMMsV1hIVTzzMiiR36r
  qHJaU1XOKDToU0mfImfoqn00iWov3IqWenKvXKvXl8TraTzufgoaDaP5AFevF8DdcoRtMPZIXwpPIA+YyMZf
  N97/e6UZGAAqV0sPJS9j0E+TuBScmb+FHzzgu3E0G60VLSK7J2ruaAitRYJWCfPK7WPwBi9+ggVjzBYI72pXBp
  L4Rqr2H0ZNBh9xWH79s5klAmVd0s21HMPKVnNlK6eNCxH7TrIsW4kYwn8hv6UE5Bom68lgzu4fb6uVhUFnqvS
  X1nJiqFigo0JjcB4ewRUhw2T0Xu5yHxeShmoC7tJsocZ7keZ/aAFQIU1Ptnu0oxm+IXRP6kPz1fR/zP3jBzS9
  T7Hrdq1IAiJV8BMWLro3q5kM4tNHsmlldrNK7Uw3C5wd75pZxhbQrx3j0EvexVIBhXdhJkpYRiFCio7yi0+Qb1Y
  RsZW3HWpPhu0Igd3k5iDGBzTATBgkqhkiG9w0BCRUxBGQEAQAAADBxBGkqhkiG9w0BCRQxSh5IAGIAMAAXADU
  ANABkADMAOQAtADMANAAZADkALQA0ADAAMAA3AC0AYQA0ADcA0AAAtADIAMgBhADQAYwBkAGQA0QBkADkAYgA4M
  F0ABGcSgAQQBjGjCRAATFQHk4ATQBpAGMAcGbvAHMAbwbMAHQAIAbTAHQAcGbvAG4AZwAgAEMAcbB5AHAAdABvAGc
  AcGbhAHAaAaBpAGMAIAbQAHAIAbwB2AGkAZAB1AHlwggOnBgkqhkiG9w0BBwagggOYMIID1AIBADCCA40GCSqGS
  Ib3DQEHAaCBoqhkig9w0BDAEGMA4ECG8Y7BwEbASgAgIH0ICCA2C4NABLS3Bk1JoQyGfX8J7bwGunkorGVx
  imc4aEiHPHF6fYySR9sja3JOHrBgx05wFZc7FxLwQ78369b9CqpcumrL3/WIZOWzfTmczhx09F4ozk+hhXD/q
  rQunxwvgG4G4wjz+hq2uD1IY53dVZK30gOnrZQ6WubB+n0Vq7wsZPw+wVgV8Z89uWdL5ZhuPFAK7W/oEi07Rue
  QKe3LDBPf9STSAPjsS12wMIVdLHHQqdnV9zHwkNGIqqySi1x9M+xbALG0Q8Vx5ZutrPtWc0vRFSdtjkDD1tz7
  NOWTRZqQXoEUXM9iSHnHmb1T1e3T1XDEBIZ9G0E80DSYMs/oVKX+ML4EAf3oQtiPW0sZW2GAAtLst10aDoZE8YU
  iS8uv0bSk3Z7s31+d0vgGaddJiF2Y5eVskmkaS+uZALConB859eLw/7HVtUEDvs34RLOHCZJptEdnA3kMv1cGB
  LVkg+11YZ/82WQ5vDm3+GMacZ9UJcqqb9mczIYPLU+2c25vD087M3uX0/WzVg5cyeYbSMst4nSVHd4in7r5lhm
  UuK1tNYxfIwS+9tn0d3B4mQamuD3TCuajVfgPsmGyKx0iI4GCKi0yj/zrbE6NP3W1Yu73eDMV2G1t+F3qONJiG
  bCgGPgY05ambmJogWKFaf0yRsYdKozZ9p/r8jSNGOMfNvGztk2CdRj7NT5dJuaAJLMXBxqp9ZrtUTLnLawYN5
  p3qu0AOWIvzVd3q2HJEhtY6+50eaRmsqGHLLcvfFnmwqVqyW80HZZ2UhUgGGIWP1u3tDhCfEQy6g5juKUTE+X
  s8TQpMius1ZGQHnCyPf4c7jJ4+q+uHicKjx8UPyVy/sSHxoC8TS/2300AAChtLHn5hEo2xU0AoBhMpJBBy9x5J
  v8wTASymQL9JW1Q9yaUT2MiFDpueA50EJvobT1nU7b5e2PooE13kC2u5BaJPLxTC3QCjMnYGDjCxiGTy/cUBb
  atF3YKJWNAgpjsOSrhS4BqDd5SmK8gRZtKe/IW6YhtSNa0auxdY1H0Tf1yPtovHNGUER0qxGnNee7XL7sKLtC9
  In0jLaXVJ2BPPPh/HtLntfYrxoY9JV+xNWkxawJG20kEnNzD7VY00A50gacLdwNzJxhZPrx04DP1+eWoD4WKjm
  055ogw0zAfMacGBSs0AwIaBBRC7+zh/nkB7GDGhR1I1YNbXuS4BAQUZRRWRgbdN2Ma1w7E/jZM09A43YQCAgf
  Q",
  "password": "pass" }
```

### Example verify request :

Request format:

- application/x-www-form-urlencoded

You can also find the example in the attached verify-x-www-form-urlencoded.txt file.

Request format: application/x-www-form-urlencoded

Request:

header: Content-Type: application/x-www-form-urlencoded

method: POST

data=VGv4dFRvU2lnbg==&signature=B2cApzKT3sYpVuwSzbMqPPM-qk4iqUS\_iXiCTfXq3Gok\_puw79YuB0jKL  
qtH-CvV364th5IAmy7CoJHF01S2GUR9aNqpGIdACOHsvneSFGv7JnDe1fsoFVZj4ZcGTmEUxBX1VOXhgY1CLNd

LJ7gC3fe3NF-yId924aosXGZOe1s-W3jJgsNbtew36K8kaC8kne5p0txnmJdBLjfseo5uusXfR89ytGh-u8J2U  
kFETyh3gdAQsXzi0VJZTfnDotWSG3hvZcSc41qG-JGP7k8mKytBI6gP21X6pt4gr0slxkmhax6Ni1iUp5HBg  
I83jDksgWAJqktHo5Ewja8GhIwRg2&cert=MIIDETCCAf2gAwIBAgIQyax2Jz18DIJFAMJFZZoUpDAJBgUrDgM  
CHQUAMB4xHDAaBgNVBAMTEON1cnR5ZmlrYXRUZSN0b3d5MDEwHhcNMTUwNzIxMTYxNjAwWhcNNDkxMjMxMjIwM  
DAWwJAeMRwwGgYDVQQDExNDZXJ0eWZpa2F0VGZvdG93eTAxMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgK  
CAQEAw3zfnE85aQ0g8zeYONjm021cTzrv803B/qjXIto10jHuluQB+dvh/j1h89F/bavJfpeErPfFmnxuWoOd  
o8iokhRXZxRv0Zc9XgKFR/pp/spjBhIIQ0rr6tWKadcU2A0fcILYYzJNQNNTK003sP/Tma3j+0qzwNz0VtAoR  
y3/janwXAAJzdNqdw5Pmm7HjFfhx7xxChGY8S4XHVUCxtzoPHh1MUYPmxJuTfCPT3vqMR57UyzNQ3qabeEeFYm  
nROSVpXeqQujVDWLFXF8cUIRbcMx1soUBM1RXqcTAii5nPJ877e165u167Ny5RLf2KNRwtrAqjE2NVtp40Lm6v  
b9W3QIDAQABo1MwUTBPBgNVHQEESDBGBCxUQsVqD5NB1bBEUov8JQRoSAwHjEcMBoGA1UEAxMTQ2VydHlmaWt  
hdFRlc3Rvd3kwMYIqYax2Jz18DIJFAMJFZZoUpDAJBgUrDgMCHQUAA4IBAQA2IoV4C2Inwc8L2/V6041THN4C  
FOL4TRN77vugC2yoTY6u7pnUa1PSXiK/wgbE00yz+p8A+muIqz9v1Nhd2SQv4hJdvaOa1sMF4NbX2M4WMzV/P  
ZcKDiHi0tDQ2nuIbvVrbvK1bA7NsNi34a/m0bbcynLUFybZmZOMgvwkSHeM71G5h6vTbrMeeNpFkazn9Uf7C  
A9tdhJ0qu65HqCWIFAItieZ8jDwn9An+j59BnWZWo9v2baAvqx4/4ExW3eoVkyqbhI+VPP/1Y6cBLRcdPZhe++  
fKwPJge6+0+H1xu4h37yACm8gd91xKil0eReHpLSuz2jSguD27pRbCBt1U

- application/json

You can also find the example in the attached verify-json.txt file.

Request format: application/json

Request:

header: Content-Type: application/json

method: POST

```
{ "data": "VGV4dFRvU2lnbg==", "signature": "B2cApzKT3sYpVuwSzbMqPPM-qkK4iqUS_iXiCTfXq3Gok_pu  
w79YuB0jKLqth-CvV364th5IAmy7CoJHF01S2GUR9aNaqPGIdAC0HSVneSFGv7JnDe1fsoFVZj4ZcGTmEUxBX1V  
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