



EUROPEAN COMMISSION
DIRECTORATE-GENERAL INFORMATICS

Directorate D - Digital Services
DIGIT D3 - Trans-European Services

eIDAS Bridge

WP2 - Software requirements specification and eIDAS bridge development

API documentation



TABLE OF CONTENTS

1. INTRODUCTION.....	3
2. ENDPOINTS.....	3

1. INTRODUCTION

The full API documentation is available as a OpenApi 3.0 specification available on the same project, accessible at port 5002 when the Bridge is up and running.

The following document briefly summarizes the endpoints described on the OpenApi document.

2. ENDPOINTS

Method	Endpoint	Description
POST	/eidas/get-pubkey	<p>From a given DID, returns the correspondent public key json struct</p> <p>Exemple payload:</p> <pre>{ "did": "did:example:21tDAKcERh95uGgKbJNHyp" }</pre> <p>Example response:</p> <pre>{ "publicKeyPem": "-----BEGIN PUBLIC KEY-----\nMFYwEAY HKoZIzj0CAQYFK4EEAAoDQgAEswOm6PqrB3ddfKcWZPW MzSESdRd8xtcL\ndd8sCKvtW1+UC6s0g79GxkAJznPZ6Vu4DI0 CJkMvbe+pF5ykUz7D+g==\n-----END PUBLIC KEY-----\n" }</pre>
POST	/eidas/load-qec	<p>Imports an eIDAS Qualified Electronic Certificate (QEC) with its correspondent private key to be used in further digital signature operations</p> <p>Example input:</p> <pre>{ "did": "did:example:21tDAKcERh95uGgKbJNHyp", "p12data": "308203c886f7 ... a66cab702020800", "password": "passphrase" }</pre> <p>Example response:</p> <p><i>Code 200: Success</i></p>
POST	/eidas/service-endpoint	<p>Contracts the JSON structure that needs to be added to the Issuer's DID Document Service Endpoint Section</p> <p>Example input:</p> <pre>{ "did": "did:example:21tDAKcERh95uGgKbJNHyp", "service_endpoint": "http://service_endpoint.sample/did:example:21tDAKcERh95uGgKbJNHyp/eidas" }</pre> <p>Example response:</p> <pre>{ "id": "did:example:21tDAKcERh95uGgKbJNHyp#eidas", "type": "EidasService", "serviceEndpoint": "http://localhost:8002/did:example:21tDAKcERh95uGgKbJNHyp/eidas" }</pre>
POST	/eidas/sign-credential	<p>Adds a digital signature to the given credential, generated with an eIDAS private key:</p> <p>Example input:</p>

		<pre> { "@context": { "schema": "http://schema.org/", "homepage": "schema:url" }, "id": "http://example.edu/credentials/3732", "type": "[\"VerifiableCredential\", \"UniversityDegreeCredential\"]", "issuer": "did:example:21tDAKCErh95uGgKbJNHyp", "issuanceDate": "2010-01-01T19:23:24Z", "credentialSubject": { "did": "did:example:21tDAKCErh95uGgKbJNHyp", "degree": { "type": "BachelorDegree", "name": "Bachelor of Science and Arts" } } } </pre> <p>Response: 200 – Success</p>
POST	/eidas/verify-credential	<p>Verifies that the credential issuer had a valid eIDAS certificate at the moment of issuing the passed credential.</p> <p>Example input payload:</p> <pre> { "credential": { "@context": { "schema": "http://schema.org/", }, "id": "http://example.edu/credentials/3732", "type": "[\"VerifiableCredential\", \"UniversityDegreeCredential\"]", "issuer": "did:example:21tDAKCErh95uGgKbJNHyp", "issuanceDate": "2010-01-01T19:23:24Z", "credentialSubject": { "did": "did:example:21tDAKCErh95uGgKbJNHyp", "degree": { "type": "BachelorDegree", "name": "Bachelor of Science and Arts" } } }, "proof": { "type": "EcdsaSecp256k1Signature2019", "created": "2019-09-24T12:32:28Z", "proofPurpose": "authentication", "verificationMethod": "did:example:21tDAKCErh95uGgKbJNHyp#eidas-keys-1", "jws": "eyJhbGciOiJIJFUiLCJ0eXBlIjoiMmZhbHN1LCJjcm10IjpbImI2NCJdfQ..MEQCIg6U_hcNfsETfg_V8lXJ2edzXc2l4yotN8eBmrEX9TBAiBd8ULwdakRnxdPDWPj4uWJTinpwcCLzxyCbNUrsEX-1w" } }, "did_document": { "@context": "https://w3id.org/did/v1", "id": "did:example:21tDAKCErh95uGgKbJNHyp", "authentication": [{ "id": "did:example:21tDAKCErh95uGgKbJNHyp#eidas-keys-1", "type": "Secp256k1VerificationKey2018", "controller": "did:example:21tDAKCErh95uGgKbJNHyp", "publicKeyPem": "-----BEGIN PUBLIC KEY----- MFYwEAYHKoZIzj0CAQYFK4EEAAoDQgAEsw0m6PqrB3ddfKcWZPwMzSESdRd8xtc1 dd8sCKvtW1+UC6s0g79GxkAJznPZ6Vu4DI0CJkMvbe+pF5ykUz7D+g== -----END PUBLIC KEY-----\n" }] }, "service": [{ "id": "did:example:21tDAKCErh95uGgKbJNHyp#eidas", "type": "EidasService", }] } </pre>

```
        "serviceEndpoint":  
        "http://localhost:8002/did:example:21tDAKCErh95uGgKbJNHyp/eidas"  
    }  
  ]  
}
```

Response: 200 – Success