🏠　☐　Register your application using DCR　☐　1. Get the JWKs URL

Get the JWKs URL

A JSON Web Key (JWK) is a JSON data structure that represents a cryptographic key.

A JWK Set (JWKS) is a JSON data structure that represents a set of JWKs.

Prepare your JWK

If you are using your Open Banking certificate, you should receive your JWKs URL from the Open Banking Directory.

If you are using your eIDAS certificate, you will need to publish your JWKS under a publicly available URL.

> ⚠️　Use The Correct URL
>
> If you are testing and using services such as pastebin to temporarily host the JWKS, make sure that you provide the URL of the raw JSON and not the HTML web page displaying it.
>
> To confirm that we can access the data, verify that your JWKs URL is publicly accessible

The JWKs URL can include several JWKs (a JWKS), but it must contain at least the public signing key which will be used in the requests.

Supported key types

Both RSA and Elliptic Curve (EC) key types are supported. The JWKS structure can include both key types in the same key set.

Depending on the key type, you must include the following fields:

RSA key   EC key

JWK field mandatory for RSA	Description
`kid`	The key ID that is used to match a specific key.
`kty`	The cryptographic algorithm family used with the key. For RSA keys, the value is `RSA`.
`e`	Contains the exponent value for the RSA public key, represented as a Base64urlUInt-encoded value.
`n`	Contains the modulus value for the RSA public key, represented as a Base64urlUInt-encoded value. This can be generated using the following command: `openssl x509 -noout -modulus -in signing.pem	cut -c 9-	xxd -r -p	base64	tr '/+' '_-'	tr -d '='`
`use`	The intended use of the public key. Must be set to `sig` for signing keys.
`x5c`	An array containing the base64-encoded `.der` signing certificate. It can be obtained directly from your `signing.pem` certificate with the following command: `sed -E '/(^-----[A-Z]+-----$)/d' signing.pem	tr -d '\n'`

To view an example RSA key, see our production JWKS.

Validate your JWK

You can use the following form to check if your JWK is valid. To do that, copy and paste the full contents of your JWK below and click **Test**.

JWK content

Not a valid JSON

Verify that your JWKs URL is publicly accessible

In order for us to be able to access your JWKs, your JWKs URL must be publicly accessible.

To verify that we can fetch the data from your public JWKs domain, run a `curl` command in your terminal and check that the full JWKs appear in the response. Alternatively, open the URL in your browser to confirm the content is visible and accessible.

> 💡 Tip
>
> Open Banking test certificates may fail validation in some cases – for example, if the certificate is outdated, mismatched, or not included in our trust store. To work around this during testing, you can create a new Gist to host the JWKS for this test.
>
> In **Production**, use your **actual JWKs URL.**

If you see the error `Failed to fetch public key from https://...`, contact our API Support team and share both your signing certificate and the JWKs URL.

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