

OpenID

Foundation

Testes FAPI R/W - Plain FAPI





Criação do plano de testes

1. Após a conexão clicar em “Create a new test plan”

1

 Create a new test plan

 View all available test logs

 View published test logs

 View all available test plans

 View published test plans

 View API Documentation



Criação do plano de testes

2. Test Plan: Selecionar FAPI-RW-ID2 (and OpenBankingUK / CDR): Authorization server test (latest version)
3. Client Authentication Type: Selecionar mtls
2. Request Object Method: Selecionar by_value ou push – Ambos permitidos pelas especificações Brasileiras. Se utilizar by_value a instituição vão precisar support encrypted request objects, be aware that it may not test encrypted object requests
3. FAPI Profile: Selecionar plain_fapi
4. Fapi Response Mode: Selecionar plain_response – Modo que todos os servidores deverão suportar no Open Banking Brasil

The screenshot shows the OpenID configuration interface. At the top, there is the OpenID logo and a link to "OpenID Foundation Certification Instructions". Below this, there is a form with five rows of settings, each with a numbered callout bubble on the right side:

Test Plan	FAPI-RW-ID2 (and OpenBankingUK / CDR):	2
Client Authentication Type	mtls	3
Request Object Method	by_value	4
FAPI Profile	plain_fapi	5
FAPI Response Mode	plain_response	6



Criação do plano de testes

7. Alias: Escrever o nome desejado para o plano de testes
8. Description: Escrever a descrição desejada para o plano de testes
9. Publish: Selecionar “No” para não tornar os resultados do teste público para todos
10. DiscoveryUrl: Adicionar o *well-known Discovery endpoint* do servidor de autorização : <https://xxx/.well-known/openid-configuration>
11. Client_id: Adicionar o *cliente_id* do primeiro *software statement* criado no Sandbox do diretório de participantes
12. Scope: OpenID or profile, porém qualquer outro scope suportado pelo servidor de autorização deve funcionar
13. Jwks: Inserir o *jwt keys* relativo ao primeiro *software statement*, neste devem constar as chaves públicas e privadas. Válido notar que o *jwt keys* deve também conter o *alg* : “PS256”

The screenshot shows the 'Configure Test' interface with the 'JSON' form type selected. The form is divided into sections: 'Test Information', 'Server', and 'Client'. Each field is highlighted with a blue box and a numbered callout (7-13) on the right side.

Section	Field	Value	Callout
Test Information	alias	obbsb	7
	description	Trust Platform (Directory) Open Banking	8
	publish	No	9
Server	discoveryUrl	https://auth.sandbox.directory.openbank	10
Client	client_id	yQx5B3YzgvVhdnXqeJuV	11
	scope	openid profile	12
	jwks	{ "keys": [{ "alg": "PS256", "kty": "RSA", "n": "3aOioYcUbgfkdYzfSMWtDBAR7LlLoWQwtAooohqN3xQz0XUvZ7VGpYpkiaU8veYjJldNARYfQ, dB2ndkr9bA2Q4GGkxYjHrag46vB1FJzHv0KPv6HgKB1CaXlxGxORvf0RQEpkrl44tjHLfMtl1uPT4zvDv67MC4MCQMN3WpryBwxrakXsXfNY76sku0u_4pcYZrPYt5Z_2V0kGG-lnGQvD0f4gi8KtSZt1Svz5visXOZePk", "dp": "RILmuAEu8kn_Vs1w0fMXH5LSRddGSm0eTzbDYrEEea2YTrFqoWMYH37SB08Y	13



Criação do plano de testes

- 14. Mtls.cert: Adicionar as informações do certificado de transporte (.pem) criado para o primeiro *software statement*
- 15. Mtls.key: Adicionar a chave privada do certificado de transporte criado (.key) para o *primeiro software statement*
- 16. Mtls.ca: Adicionar os certificados do Root CA do diretório e do issuer CA do diretório. Supondo que seja utilizado o PKI do diretório, este campo pode ser encontrado no apêndice deste documento
- 17. Second Client: Repetir o processo dos itens 11-16 para o segundo *software statement* criado

14

TLS certificates for client (used to make MTLS connections)

mtls.cert	<pre>-----BEGIN CERTIFICATE----- MIIGRTCCBS2gAwIBAgIUUls0BztW2mZLUuWjGMYMk/WGgswDQYJKoZIhvcNAQEL BQAwAwTELMAKGA1UEBhMCQlIxHDAaBgNVBAoTE09wZW4gQmFua2luZyBCcmFzaWw FTATBgNVBAsTDE9wZW4gQmFua2luZzEtMCsGA1UEAxMkT3BlbiBCYW5raW5nIFNB TkRCT1ggSXNzdWluZyBDQSAtIEcxMB4XDTIxMDMyOTE5MzYyOTUyOTUyOTUyOTUy MzYyOTUyOTUyOTUyOTUyOTUyOTUyOTUyOTUyOTUyOTUyOTUyOTUyOTUyOTUyOTUy BgNVBAsTJDc0ZTkyOWQ5LTZmNi00NDkxLTg5YTUyOTUyOTUyOTUyOTUyOTUyOTUy A1UEAxMkMDExMTQ4YzgtNzlmNi00NDkxLTg5YTUyOTUyOTUyOTUyOTUyOTUyOTUy BgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAYlR88Lua2GcMdXbKcQQqfrmlhBs pyaLLKadZ9EvNH4aDrs3KNSjRlyYX/pjOWwpx1hCiysQokAwler/nolDXSbcT6n L4ROZwi212wLkqVXKzc+9ivQN+QGO07QgqDaBRJztp72gK3sZQOYFvD3K0V8tAmd -----</pre>
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mtls.key	<pre>-----BEGIN PRIVATE KEY----- MIIEvgIBADANBgkqhkiG9w0BAQEFAASCBKgwggSkAgEAAoIBAQC5givyW5rY 1dspxBcp+uYiEGynJoksp1n0S80fhoUuzco1KNEVlgfh+mM5bCnHWEKlkxCIQDA h6v+eiUNdJtxPqcvhE5nCLbXbAuSpVcrNz72K9A35AY7TtCCoNoFEnO2nvaArel A5gW8PrRXy0Ax3wolH52EYO7TIGl68cxMq+b+8QE/GleWdCj3XPr0BZRBFhmH8L u6jjUXUi2cXYxa3K3rd23TTq6KBzkhfdWQilUvGb+FE7mF+RgZnrZBolmuMu086 aSlE19gpE2Z98KnvithV7xA4/4oatq5bB6EgagoNEM1Jo72o/u90If/rSipvGuE U4CZsS9PAgMBAAEcggEAH74EY0yeVkv3gpeDTw7tbo20rFYxikz464G1RLYLvU8 5DRotdXeshBLP8AxaGINF6tRRXprZ18U/8u3RG4GFQ1U48XCuc74al+D9JvEIK2 LbDgVyMcF9QutMtBpnh7lc6YeJEtI Muh3Y8F4TcONBtWUufPeOof0XghwFTRAK5 mgSkUzU2gClLZdzyQrTEzqYUqiXyvfB5kVnh2g/sO/0PgJl09RvwFNzBk9p/rh -----</pre>
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16

mtls.ca	<pre>-----BEGIN CERTIFICATE----- MIIEajCCA1KgAwIBAgIUdlyZEFdw7QjcrySyq6liEwZlTfAwDQYJKoZIhvcNAQEL BQAwazELMAKGA1UEBhMCQlIxHDAaBgNVBAoTE09wZW4gQmFua2luZyBCcmFzaWw FTATBgNVBAsTDE9wZW4gQmFua2luZzEtMCsGA1UEAxMeT3BlbiBCYW5raW5nIFNB b3QgU0FOREJPWCAAtIEcxMB4XDTIxMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw cTELMkGA1UEBhMCQlIxHDAaBgNVBAoTE09wZW4gQmFua2luZyBCcmFzaWwxFTA BgNVBAsTDE9wZW4gQmFua2luZzEtMCsGA1UEAxMkT3BlbiBCYW5raW5nIFNBTKR T1ggSXNzdWluZyBDQSAtIEcxMIIIBjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgK AQEA6fX+272mHX5QAcDaWkVHFwJnDlcORNUIU3OuNyeuOYhLvXlWYdrXe30+cV+P S39faMj/nfem3GfjBE7Xn0bWA/8ksxSfrg1BUBJDge4YBBw+vflI3A0g1fk9wJ3H GlnsvV4serRj/ISjTfs0uRNugX+Rrbkt/T0tup4vGd3Kl2sbwUdDjokulNIHANE0 -----</pre>
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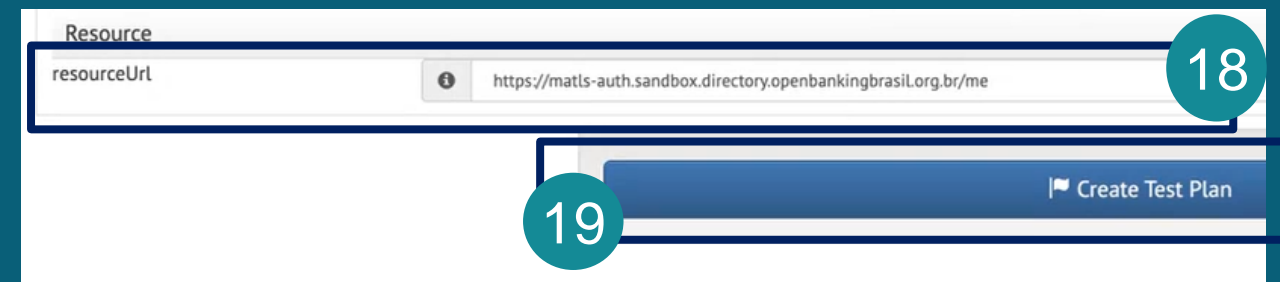
17

Second client	<pre>-----BEGIN CERTIFICATE----- MIIEajCCA1KgAwIBAgIUdlyZEFdw7QjcrySyq6liEwZlTfAwDQYJKoZIhvcNAQEL BQAwazELMAKGA1UEBhMCQlIxHDAaBgNVBAoTE09wZW4gQmFua2luZyBCcmFzaWw FTATBgNVBAsTDE9wZW4gQmFua2luZzEtMCsGA1UEAxMeT3BlbiBCYW5raW5nIFNB b3QgU0FOREJPWCAAtIEcxMB4XDTIxMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw cTELMkGA1UEBhMCQlIxHDAaBgNVBAoTE09wZW4gQmFua2luZyBCcmFzaWwxFTA BgNVBAsTDE9wZW4gQmFua2luZzEtMCsGA1UEAxMkT3BlbiBCYW5raW5nIFNBTKR T1ggSXNzdWluZyBDQSAtIEcxMIIIBjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgK AQEA6fX+272mHX5QAcDaWkVHFwJnDlcORNUIU3OuNyeuOYhLvXlWYdrXe30+cV+P S39faMj/nfem3GfjBE7Xn0bWA/8ksxSfrg1BUBJDge4YBBw+vflI3A0g1fk9wJ3H GlnsvV4serRj/ISjTfs0uRNugX+Rrbkt/T0tup4vGd3Kl2sbwUdDjokulNIHANE0 -----</pre>
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Criação do plano de testes

18. resourceUrl: Especificar a url do recurso que será utilizado para execução dos testes. Para o padrão Fapi UK é requisitado tanto a url de consentimento quanto a url de contas para o teste de segurança. No caso do Plain - FAPI não existe restrição ao recurso utilizado
19. Create Test Plan: Finalizar a criação do plano de testes





Apêndice – Certificate Chain Validation

Informações do issuer e root CA do PKI do Sandbox



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"ca": "-----BEGIN CERTIFICATE-----
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\nMIIeAjCCA1KgAwIBAgIUdIYzEFdw7QJcrySyq6liEwZftfAwDQYJKoZIhvcNAQEL\nBQAwazELMAkGA1UEBhMCQlIxHDAaBgNVBAoTE09wZW4gQmFua2luZyBCcmFz\naWwx\nFTATBgNVBAsTDE9wZW4gQmFua2luZzEnMCUGA1UEAxMeT3BlbiBCYW5raW5nIFJv\nnb3QgU0FOREJPWCAtIEcxMB4XDTIwMTIxMTEwMDAwMFoXDTIzMTIxMTEwMDAwMFow\n\ncTElMAkGA1UEBhMCQlIxHDAaBgNVBAoTE09wZW4gQmFua2luZyBCcmFzaWwxFTAT\n\nBgNVBAsTDE9wZW4gQmFua2luZzEtMCsGA1UEAxMkT3BlbiBCYW5raW5nIFNBTKRC\n\nT1ggSXNzdWluZyBDQSAtIEcxMIIlBjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgK\nC\n\nAQEA6fX+272mHX5QAcDaWkVHFWjnDlcORNUJU3OuNyeuOYhIvXJWydrXe3O+cV\n\nP\n\nS39faMj/nfem3GfJBE7Xn0bWA/8ksxSfrg1BUBJDge4YBBw+vflI3A0g1fk9wJ3H\n\n\nGInsvV4serRJ/ISJTfs0uRNugX+RrbkT/T0tup4vGd3Kl2sbwUdDjokuJNJHANE\n\nO\n\nDRkQ+ra+9Wht71FBlc07yPf7qtpaWHm6aS3s47OJD35ixkG4xiZuHsScxcVtlo1V\n\n\nW98P2cQfH9H2III4wWIPTVHpPThB2EYrPhwcx\n\nDh8kHkkOHNkyHO/fYM47u7H4VeQ\n\n\nV75LXWka7iWmZg+WhFb8TXSr/wIDAQABo4H/MIH8MA4GA1UdDwEB/wQEAwIBBjAP\n\n\nBgNVHRMBAf8EBTADAQH/MB0GA1UdDgQWBBSGf1itF/WCtk60BbP7sM4RQ99MvjAf\n\n\nBgNVHSMEGDAWgBSHE+yWPmLsIRwMSIY68iUM45TpyzBMBggrBgEFBQcBAQRAMD4w\n\n\nPAYIKwYBBQUHMAGGMGh0dHA6Ly9vY3NwLnNhbmRib3gucGtpLm9wZW5iYW5raW5n\n\n\nYnJhc2lsLm9yZy5icjBLBgNVHR8ERDBCMECgPqA8hjpodHRwOi8vY3JsLnNhbmRi\n\n\nb3gucGtpLm9wZW5iYW5raW5nYnJhc2lsLm9yZy5icj9pc3N1ZXluY3JsMA0GCSqG\n\n\nSlb3DQEBCwUAA4IBAQBy4928pVPeiHltbneeOAsDoc4Obv5Q4tn0QppqTlSeCSBbH\n\n\n\niURfEr/WaS8sv0JTbIPQEfio/UtaN8Qxh7j5iVqTwTgwVaE/vDkHxGOen5YxAuyV\n\n\n\n1Fpm4W4oQyybiA6puHEBcteuiYZHppGSMus3bmFYTPe+9B0+W914VZeHDujJ2Y3Y\n\n\n\nMc32Q+PC+Zmv8RfaXp7+QCNYSXR5Ts3q3lesWGmlvAM5tLQi75JmzdWXJ1uKU4u3\n\n\n\nNrw5jY4UaOlvB5Re2BSmcjxdLT/5pApzkS+tO6lCnPAtk/Y6dOJOYxQBMlmtliY\n\n\n\np02yfwRaqP8WJ4CnwUHil3ZRt8U9l+psU8b4WV/3\n\n\n\n-----END CERTIFICATE-----\n\n-----BEGIN CERTIFICATE-----
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\nMIIDpjCAo6gAwIBAgIU53mWeRx1uG/SML/qI55VwRtNz7wwDQYJKoZIhvcNAQEL\nBQAwazELMAkGA1UEBhMCQlIxHDAaBgNVBAoTE09wZW4gQmFua2luZyBCcmFzaWwx\n\nFTATBgNVBAsTDE9wZW4gQmFua2luZzEnMCUGA1UEAxMeT3BlbiBCYW5raW5nIFJv\n\nnb3QgU0FOREJPWCAtIEcxMB4XDTIwMTIxMTEwMDAwMFoXDTIzMTIxMTEwMDAwMFow\n\n\nnazELMAkGA1UEBhMCQlIxHDAaBgNVBAoTE09wZW4gQmFua2luZyBCcmFzaWwxFTAT\n\n\nBgNVBAsTDE9wZW4gQmFua2luZzEnMCUGA1UEAxMeT3BlbiBCYW5raW5nIFJvb3Qg\n\n\nU0FOREJPWCAtIEcxMIIlBjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAp50j\n\n\nnjNh0wu8ioziC1HuWqOfgXwxeiePiRGw5tKDqKlbC7XV1ghEcDiyMTHHWWJSQ1LEs\n\n\n\nmYpZVwaos5Mrz2xJwytg8K5eqFqa7QvfOOul29bnzEFk+1gX/OnOYws3Lba9E7S+\n\n\n\nnuPaUmfeIF4r2lcCNL2f3F87RoZqZf+DQBdGUzAt9n+ipY1Jpql3KF/5qgRkPolf\n\n\n\nJD+aj2Y1D6eYjs5uMRLU8FMyt0CCfv/Ak6mq4Y9/7CaMKp5qjIrrDux00IDpxoXG\n\n\n\nKx5cK0KgACb2UBZ98oDQxcGrbRlyp8VGmv68BkEQcm7NljP863uBVxtnVTpRwQ1x\n\n\n\nnwYEbmSSyoonXy575wQIDAQABo0lwQDAOBgNVHQ8BAf8EBAMCAQYwDwYDVR0TAQH/\n\n\n\nBAUwAwEB/zAdBgNVHQ4EFgQUhxPslj5i7CEcDEpWOvllDOOU6cswDQYJKoZIhvcN\n\n\n\nAQELBQADggEBAFoYqwoH7zvr4v0SQ/hWx/bWFRlcv/Rf6rEWGyT/moVAEjPbGH6t\n\n\n\nnyHhbxh3RdGcPY7Pzn797IXDGRu0pHv+GAHUA1v1PewCp0IHYukmN5D8+Qumem6by\n\n\n\nnHyONyUASMIY0IUozx9mHVBMuj6u6kvn9xjL6xsPS+Cglv/3SUXUR0mMCYf963xnF\n\n\n\nnBIRLTRIbykgJomUptVI/F5U/+8cD+IB/fcZPoQVI0kK0VV51jAODSihS6vqzQzH4\n\n\n\nncpUmcPh4dy+7RzdTTktXOTXTqAy9/Yx+fk18O9qSQw1MKa9dDZ4YLnAQs2fJJqIE\n\n\n\nn1DXIta0LpqM4pMoRMXvp9SLU0atVZLEu6Sc=\n\n\n\n-----END CERTIFICATE-----\n"
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