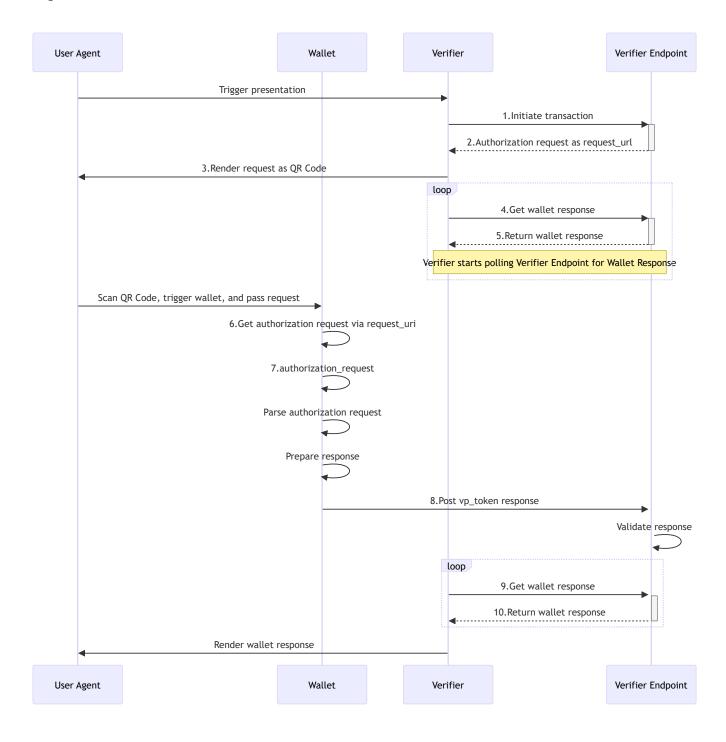
Cross Device Presentation Flows

Sequence



Request / Response parameters

1.Initiate transaction

VerifierからVerifier Endpointに対して、VP提示フローを開始するためのリクエストを送信する。 リクエストパラメータの type には vp_token 、 presentation_definition にはOpenID for Verifiable Presentationsの認可リクエストの項目に記載されているようなJSONオブジェクトを指定する。

(上記以外のリクエストパラメータ、 vp_token 以外の type の指定については、リンク先を参照)

URL:https://verifier-backend.eudiw.dev/ui/presentaitions

Method: POST Parameters:

```
"type": "vp token",
"presentation definition": {
  "id": "32f54163-7166-48f1-93d8-ff217bdb0653".
  "input descriptors": [
       "id": "eu.europa.ec.eudi.pid.1",
       "name": "EUDI PID",
       "purpose": "We need to verify your identity",
       "format": {
         "mso _mdoc": {
           "alg": [
              "ES256",
              "ES384".
              "ES512",
              "EdDSA"
           1
         }
       "constraints": {
         "fields": [
           {
              "path": ["$['eu.europa.ec.eudi.pid.1']['family name']"],
              "intent to retain": false
           }
```

```
]
}
}

Indicate the second of the second of
```

2. Authorization request as request_url

Verifier EndpointからVerifierに認可リクエストを要求するためのURLを返却する。
presentation_id はVPの提示フロー完了後、VerifierがVerifier Endpointに対してvp_tokenをリクエストする際に使用する。

request_uri は、WalletがVerifier Endpointに対し認可リクエストを要求する際に使用する。

Parameters:

```
"client_id": "verifier-backend.eudiw.dev",
    "presentation_id": "OGewsqiKurZ-FZL-8LXmG4fQa-7y3LqkjfUpzTFoFXbysMxek7dEj-
Fl00WxgTeS8g04pObD2bAdYsJVidw22g",
    "request_uri": "https://verifier-backend.eudiw.dev/wallet/request.jwt/
z5ll3QbYhYlod8oQwL4l4_YTOu1CWylggFRfilL3TfvHcBXe8kFUjbWm5ujMfXHng_LUW8dXZ4lC
Z-ZLV6VGaw"
}
```

3.Render request as QR Code

Deep linkを使用してWalletを呼び出す。

クエリパラメータにVerifier Endpointから受け取った request_uri を含める。

URL: eudi-openid4vp://verifier-backend.eudiw.dev?client_id=verifier-

backend.eudiw.dev&request uri=https%3A%2F%2Fverifier-

backend.eudiw.dev%2Fwallet%2Frequest.jwt%2FRFFv1KDRpglR7RMd-backend.eudiw.dev%2Fwallet%2Frequest.jwt%2FRFFv1KDRpglR7RMd-backend.eudiw.dev%2Fwallet%2Frequest.jwt%2FRFFv1KDRpglR7RMd-backend.eudiw.dev%2Fwallet%2Frequest.jwt%2FRFFv1KDRpglR7RMd-backend.eudiw.dev%2Fwallet%2Fwa

YV2iaTGoAvo0jpYFWvftyt7K8I1_HA-FbEZtquV1flCKuGDOepCZ6zPtEXhZeYgXH0_WA

4.Get wallet response

Verifier Endpointに対し、Walletから提示された vp_token をリクエストする。 VPの提示が完了するまでループする。 URL: https://verifier-backend.eudiw.dev/ui/presentations/\${presentationId}

Method: GET

{presentationId}には以下のような値が指定される:

J07x7U8L_WCFoif9b--NSLivsi0yRI0uMoaj2i8-vgd1WkxhLu3puYERbmEDqlln1wz4o55kX-TfP0CSAS2xuQ

5.Return wallet response

Walletから提示された vp_token をVerifierに返却する。

Parameters:

"vp token":

"o2d2ZXJzaW9uYzEuMGlkb2N1bWVudHOBo2dkb2NUeXBld2V1LmV1cm9wYS5lYy5ldWRpLnBpZC4xbGlzc3VlclNpZ25lZKJqbmFtZVNwYWNlc6F3ZXUuZXVyb3BhLmVjLmV1ZGkucGlkLjGB2BhYiqRmcmFuZG9tWEBD7lgWt8n1lLEwHYu-91-01KQXoYK26x23s5l_fXd1L9-

fxA97HcJnQ28MNXW26FXz0aOzk4Hl6aGRjvQExih0aGRpZ2VzdElEGCxsZWxlbWVudFZhbHVlaUFOREVSU1NPTnFlbGVtZW50SWRlbnRpZmllcmtmYW1pbHlfbmFtZWppc3N1ZXJBdXRohEOhASahGCFZAoUwggKBMIICJqADAgECAgkWSuWZAtwFEGQwCgYlKoZlzj0EAwlwWDELMAkGA1UEBhMCQkUxHDAaBgNVBAoTE0V1cm9wZWFulENvbW1pc3Npb24xKzApBgNVBAMTlkVVlERpZ2l0YWwgSWRlbnRpdHkgV2FsbGV0IFRlc3QgQ0EwHhcNMjMwNTMwMTlzMDAwWhcNMjQwNTI5MTlzMDAwWjBIMQswCQYDVQQGEwJCRTEcMBoGA1UEChMTRXVyb3BlYW4gQ29tbWlzc2lvbjE4MDYGA1UEAxMvRVUgRGlnaXRhbCBJZGVudGl0eSBXYWxsZXQgVGVzdCBEb2N1bWVudCBTaWduZXlwWTATBgcqhkjOPQIBBggqhkjOPQMBBwNCAAR8kxP0waSqTrCz62gRpJlOWd5nmWQxwvOuCl63oQYctli9jDkSbBlZeskN-

Z0HjT7zkTujS9ssvGmH0Cfpr538o4HLMIHIMB0GA1UdDgQWBBTRpLEkOTL7RXJymUjyUn2VW KdNLTAfBgNVHSMEGDAWgBQykesOHAEdFA52T2xP6kyWONr7BDAOBgNVHQ8BAf8EBAMC B4AwEgYDVR0IBAswCQYHKIGMXQUBAjAfBgNVHRIEGDAWhhRodHRwOi8vd3d3LmV1ZGI3L mRldjBBBgNVHR8EOjA4MDagNKAyhjBodHRwczovL3N0YXRpYy5ldWRpdy5kZXYvcGtpL2Nyb C9pc28xODAxMy1kcy5jcmwwCgYIKoZlzj0EAwIDSQAwRgIhAN5fmOce9ldSEmvyxLhP3t-B0kPKV7Fb0xiqufHr6z99AiEA_iL3MmtLV1j_Fv6G0zqNjSmIIWnaBJtaXiyAarFHCEhZBd3YGFkF 2KZndmVyc2lvbmMxLjBvZGInZXN0QWxnb3JpdGhtZ1NIQS0yNTZnZG9jVHIwZXdldS5ldXJvcGE uZWMuZXVkaS5waWQuMWx2YWx1ZURpZ2VzdHOhd2V1LmV1cm9wYS5IYy5ldWRpLnBpZC4 xuCEYLFggV2ONknxHwN4FoVdEd8GjXM4HaW4E2wPt73vQCLCpTBMYNFggUFmFI5nHQGp-vZBQcTZqSYYLYtmR1FGHF6Kz7b2W790DWCAj_BXrafhQOSCbHtXzohqjsVAtAOxx1oZD0NQ8 e3_DxRgoWCAqRDwHCWVEMLbhKCo1cvL2JzaTg2N6pS6Ipm3GZeR9txggWCBffPOvq_Wxjje3 8IR95d2-

6RH_tjMTkVrWPdW33P2yjRhoWCAW3wXTC21JNn9eJUu7VuxXit1WK7t_ao0A78Nx3i0NnxgtW CDhsjnHs1Tf2 pbLYipt4ccRjXU4QX34m0rPGquVXCmkRhnWCCrkRa2rzTbTRa9nGT-

_ClgtkyGi0eYo2qPjeiC27dQeRg1WCDaWQTCwKL3bl4QUlmNJ2fh1FNRPDtFWMZB2RAomVW AdApYIFrYeR4oEM3NXQpaVSzB5lF8nKeGZjZx7loBFn1ulEuLGCJYICUEam92Dhe5ntfyz_gkan9 VnfCjf5tPxoAqnc7hGMmhGDJYIJMjaK5SqQbpAhmL5YLTFUiadT8t9zaAi9A2946ukicnCFgg4X8d qUmENWFBhqNeop9MuPqEPm-

1HZOV_CHJmA008gYL1ggsPzL7nStO4QXsVBAZoPD1T3XIWwc7DAsFLwAMI68vdsFWCA86V OLSRG7fTBDHDuHa3K9asHt-

c5k0toJPn5dD0_4ABgpWCBLaHpakefww77y4wFnwWKJ_V9NiUUoBirEOQ0ZndoHHhgfWCAbT koCZOtyab2YhgBcrU2NtVkWXe7OukA4CB_BoXtklBghWCCHBuxK8zoqwnyZYwURrPJB_ku4ulJ KRJFw4eQ8IS2 sxgjWCAhfUSVglAttlr9U-dqRVRykpvOgmm-

z2CC3nl8fLjseRguWCABTrc6U40qvaFL8zZKfBV5nDm32v1wh_EkteZfDqi2bhgeWCCg5JTxcVku8wpK795qPUfVsc8nmJKl8aptjZyW58QTMQJYIH3KfNLaK9_gm2tkarVfK2Fd9UX0dyH4H1EofXZP Ne5GCRYIJKpEhGniVmxePe72-

7Ee3ImCKtpwkASaLGJr73DJXOkGDBYIGthxWet1WcTftfgIHT0rhwvlmxphlikec2AMQO57jSfGCdYIKBvQlRou9WaiTZK7xQbNjptRZPLm3xMPm3c-

vUf5XxSCVggjYkqB_kU4TF3ZzmwF7Ur2C1cblHyKsCgWZa7tBsu960YHFggsMYBwyDwlx2813p Ai6XYxQsqES_OdRdaG93DRBhpd_AMWCDxUx_Rgae7pGAh7wORHS_MchpUT7awpGSo5bm xJwl_0wdYlC6slsqlGSTwaBWv73EtMNjREEM3ctvZiDeTIDPEp8mABlgga9Cak4sUk-bW2mF5p7yjvY6p6fDXnLVc8a-dqy5LvVlYK1qqD6dP4_y5Y9bqHQS-

8UVx5OZNwagKmGO7WSVtzG5qfbgYJVggi-tGu93YTGId6e1bo4SkttFxyKCQIyeoDhbntMp-uB0YGlggz7MzWGILkS-

jslJjlp8fsxNw2RNgHLyxuPEv0aZwVrJtZGV2aWNlS2V5SW5mb6FpZGV2aWNlS2V5pAECIAEhW CDyzK-j7XWDGfemlMR9Gr9umtz-

c7BdSo5uJvRsXqnlDiJYIHI3OjcMWdNlED54AxG510DvGgEJfvbyFxNVUMQ0v1dfbHZhbGlkaXR 5SW5mb6Nmc2lnbmVkwHQyMDI0LTA2LTE3VDA5OjM0OjEzWml2YWxpZEZyb23AdDlwMjQtM DYtMTdUMDk6MzQ6MTNaanZhbGlkVW50aWzAdDlwMjUtMDYtMTdUMDk6MzQ6MTNaWEDzg Fgr10svScW9rlPmzHRWK52rngsy7-EF3g0XwFhL0ivs81e-

 $\label{lem:maps} Mqf5RkjdKrB1uw1Wzig1Q6y2ADX1CnwP8_ZabGRldmljZVNpZ25lZKJqbmFtZVNwYWNlc9gYQaBqZGV2aWNlQXV0aKFvZGV2aWNlU2lnbmF0dXJlhEOhASag9lhAxf_gSiEiJrcFWETl0KGUplpvJA6FHayh1FmEu6e5NZyjzg0NgnEXHZ8SrxX8tSTK1xGWFsVRm8AvY37z3icrzmZzdGF0dXMA",$

```
"presentation_submission": {
    "id": "2B43A5EF-3B18-4A5E-A649-EB3EF659347A",
    "definition_id": "32f54163-7166-48f1-93d8-ff217bdb0653",
    "descriptor_map": [
    {
        "id": "eu.europa.ec.eudi.pid.1",
        "format": "mso_mdoc",
```

```
"path": "$"
}
]
}
```

6.Get authorization request via request_uri

Verifier Endpointに対して認可リクエストを要求する。 URLには request_uri を指定する。

URL: https://verifier-backend.eudiw.dev/wallet/request.jwt/{transactionId}

Method: GET

{transactionId}には以下のような値が指定される:

 NVeIFA4rT0FRvXYwQ48re6b7RTH990rTrYSVAJhsCNqaaotM6XNQH8zMJMEN3rPKiJXw4xL7F RgkHzDaHytXf

7.authorization_request

Verifier EndpointからWalletに対し認可リクエストを返却する。 パラメータはJWT形式で返却される。 下記は、返却されたJWT形式のパラメータとJWTのヘッダーとペイロードをデコードしたもの。

Raw Parameters:

eyJ4NWMiOlsiTUIJREtqQ0NBckNnQXdJQkFnSVVmeTI1NINMdGdOdWY5UFhZYmgvUURxdVh 6NTB3Q2dZSUtvWkl6ajBFQXdJd1hERWVNQndHQTFVRUF3d1ZVRWxFSUVsemMzVmxjaUJE UVNBdEIGVIVJREF4TVMwd0t3WURWUVFLRENSRIZVUkpJRmRoYkd4bGRDQINaV1psY21W dVkyVWdTVzF3YkdWdFpXNTBZWFJwYjI0eEN6QUpCZ05WQkFZVEFsVIVNQjRYRFRJME1ES XIOakF5TXpZek0xb1hEVEkyTURJeU5UQXINell6TWxvd2FURWRNQnNHQTFVRUF3d1VSVIZF U1NCU1pXMXZkR1VnVm1WeWFXWnBaWEl4RERBS0JnTIZCQVVUQXpBd01URXRNQ3NHQ TFVRUNnd2tSVIZFU1NCWFIXeHNaWFFnVW1WbVpYSmxibU5sSUVsdGNHeGxiV1Z1ZEdGM GFXOXVNUXN3Q1FZRFZRUUdFd0pWVkRCWk1CTUdCeXFHU000OUFnRUdDQ3FHU000OU F3RUhBMEIBQk1iV0JBQzFHaitHRE8veUNTYmdiRndwaXZQWVdMekV2SUxOdGRDdjdUeDFF c3hQQ3hCcDNEWkl0RklyNEJsbVZZdEdhVWJvVklpaFJCaVFEbzNNcFdpamdnRkJNSUICUFRB TUJnTIZIUk1CQWY4RUFqQUFNQjhHQTFVZEI3UVINQmFBRkxOc3VKRVhITmVrR21ZeGgwTG hpOEJBekpVYk1DVUdBMVVkRVFRZU1CeUNHblpsY21sbWFXVnlMV0poWTJ0bGJtUXVaWFZr YVhjdVpHVjJNQkIHQTFVZEpRUUxNQWtHQnlpQmpGMEZBUVI3UXdZRFZSMGZCRHd3T2pB

NG9EYWdOSVI5YUhSMGNITTZMeTI3Y21Wd2NtOWtMbkJyYVM1bGRXUnBkeTVrWlhZdlkzSn NMM0JwWkY5RFFWOVZWRjh3TVM1amNtd3dIUVIEVIIwT0JCWUVGRmdtQWd1QIN2U25tNjha em81SVN0SXYyZk0yTUE0R0ExVWREd0VCL3dRRUF3SUhnREJkQmdOVkhSSUVWakJVaGxK b2RIUndjem92TDJkcGRHaDFZaTVqYjlwdlpYVXRaR2xuYVhSaGJDMXBaR1Z1ZEdsMGVTMTN ZV3hzWlhRdllYSmphR2wwWldOMGRYSmxMV0Z1WkMxeVpXWmxjbVZ1WTJVdFpuSmhiV1Yz YjNKck1Bb0dDQ3FHU000OUJBTUNBMmdBTUdVQ01RREdmZ0xLbmJLaGIPVkYzeFNVMGFla nUvbmVHUVVWdU5ic1F3MExIRER3SVcrckxhdGViUmdvOWhNWERjM3dybFVDTUFJWnlKN2x SUIZIeU1yM3dqcWtCRjJsOVIiMHdPUXBzblpCQVZVQVB5STV4aFdYMINBYXpvbTJKanNOL2F LQWtRPT0iLCJNSUIESFRDQ0FxT2dBd0lCQWdJVVZxamd0SnFmNGhVWUprcWRZemkrMHh3 aHdGWXdDZ1IJS29aSXpqMEVBd013WERFZU1Cd0dBMVVFQXd3VIVFbEVJRWx6YzNWbGNp QkRRU0F0SUZWVUIEQXhNUzB3S3dZRFZRUUtEQ1JGVIVSSklGZGhiR3hsZENCU1pXWmxjb VZ1WTJVZ1NXMXdiR1Z0Wlc1MFIYUnBiMjR4Q3pBSkJnTlZCQVlUQWxWVU1CNFhEVEl6TURr d01URTRNelF4TjFvWERUTXINVEV5TnpFNE16UXhObG93WERFZU1Cd0dBMVVFQXd3VIVFb EVJRWx6YzNWbGNpQkRRU0F0SUZWVUIEQXhNUzB3S3dZRFZRUUtEQ1JGVIVSSkIGZGhiR 3hsZENCU1pXWmxjbVZ1WTJVZ1NXMXdiR1Z0Wlc1MFIYUnBiMjR4Q3pBSkJnTlZCQVlUQWx WVU1IWXdFQVIIS29aSXpqMENBUVIGSzRFRUFDSURZZ0FFRmc1U2hmc3hwNVIvVUZJRUtT M0wyN2R3bkZobmpTZ1VoMmJ0S09RRW5mYjNkb3llcU1BdkJ0VU1sQ2xoc0YzdWVmS2luQ3c wOE5CMzFyd0MrZHRqNlgvTEUzbjJDOWpST0IVTjhQcm5sTFM1UXM0UnM0WIU1T0InenRvYU 84RzIvNEICSkRDQ0FTQXdFZ1IEVIIwVEFRSC9CQWd3QmdFQi93SUJBREFmQmdOVkhTTUV HREFXZ0JTemJMaVJGeHpYcEJwbU1ZZEM0WXZBUU15Vkd6QVdCZ05WSFNVQkFmOEVER EFLQmdncmdRSUNBQUFCQnpCREJnTlZlUjhFUERBNk1EaWdOcUEwaGpKb2RlUndjem92TD NCeVpYQnliMlF1Y0d0cExtVjFaR2wzTG1SbGRpOWpjbXd2Y0dsa1gwTkJYMVZVWHpBeExtTnli REFkQmdOVkhRNEVGZ1FVczJ5NGtSY2MxNIFhWmpHSFF1R0x3RURNbFJzd0RnWURWUjB QQVFIL0JBUURBZ0VHTUYwR0ExVWRFZ1JXTUZTR1VtaDBkSEJ6T2k4dloybDBhSFZpTG1Od mJTOWxkUzFrYVdkcGRHRnNMV2xrWlc1MGFYUjVMWGRoYkd4bGRDOWhjbU5vYVhSbFkzUj FjbVV0WVc1a0xYSmxabVZ5Wlc1alpTMW1jbUZ0WlhkdmNtc3dDZ1lJS29aSXpqMEVBd01EYUF Bd1pRSXdhWFVBM2orK3hsL3RkRDc2dFhFV0Npa2ZNMUNhUno0dnpCQzdOUzB3Q2RJdEtpej ZIWmVWOEVQdE5DbnNmS3BOQWpFQXFyZGVLRG5yNUt3ZjhCQTd0QVRlaHhObE9WNEhu YzEwWE8xWFVMdGlnQ3diNDlScGtxbFMySHVsK0RwcU9iVXMiXSwidHlwljoib2F1dGgtYXV0aH otcmVxK2p3dClsImFsZyI6IkVTMjU2In0.eyJyZXNwb25zZV91cmkiOiJodHRwczovL3ZlcmImaWVy LWJhY2tlbmQuZXVkaXcuZGV2L3dhbGxldC9kaXJIY3RfcG9zdClsImNsaWVudF9pZF9zY2hlbWU iOiJ4NTA5X3Nhbl9kbnMiLCJyZXNwb25zZV90eXBlljoidnBfdG9rZW4iLCJub25jZSI6ImQ3OTkzN DdlLWE5ZWYtNDNhMi1hYTlwLWRkODA3MzlkNTMzZCIsImNsaWVudF9pZCI6InZlcmlmaWVyL WJhY2tlbmQuZXVkaXcuZGV2liwicmVzcG9uc2VfbW9kZSl6ImRpcmVjdF9wb3N0Lmp3dClsImF1 ZCI6Imh0dHBzOi8vc2VsZi1pc3N1ZWQubWUvdjliLCJzY29wZSI6liIsInByZXNIbnRhdGlvbl9kZWZ pbml0aW9uljp7lmlkljoiMzJmNTQxNjMtNzE2Ni00OGYxLTkzZDgtZmYyMTdiZGlwNjUzliwiaW5wd XRfZGVzY3JpcHRvcnMiOlt7ImlkIjoiZXUuZXVyb3BhLmVjLmV1ZGkucGlkLjEiLCJuYW1IIjoiRVVE SSBQSUQiLCJwdXJwb3NlljoiV2UgbmVlZCB0byB2ZXJpZnkgeW91ciBpZGVudGl0eSlsImZvcm1

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Decoded Parameters:

Header

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"typ": "oauth-authz-req+jwt",
"alg": "ES256"
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Payload

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            "alg": [
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  },
  "state":
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  "iat": 1719539560,
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    "id token encrypted response alg": "RSA-OAEP-256",
    "id token encrypted response enc": "A128CBC-HS256",
    "jwks uri": "https://verifier-
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    "subject syntax types supported": ["urn:ietf:params:oauth:jwk-thumbprint"],
    "id token signed response alg": "RS256"
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"name": "EUDI PID",

8.Post vp_token response

WalletからVerifier Endpointに対して認可リクエストのレスポンスを送信する。
state は認可リクエストのJWTに含まれていた値。
response は vp_token や presentation_submission (Verifierが要求しているクレデンシャルと vp_token に含まれるクレデンシャルのマッピング情報)を含む暗号化JWT(JWE)。

URL: https://verifier-backend.eudiw.dev/wallet/direct_post

Method: POST Parameters:

"state":

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9.Get wallet response

4.と同様

10.Return wallet response

5.と同様