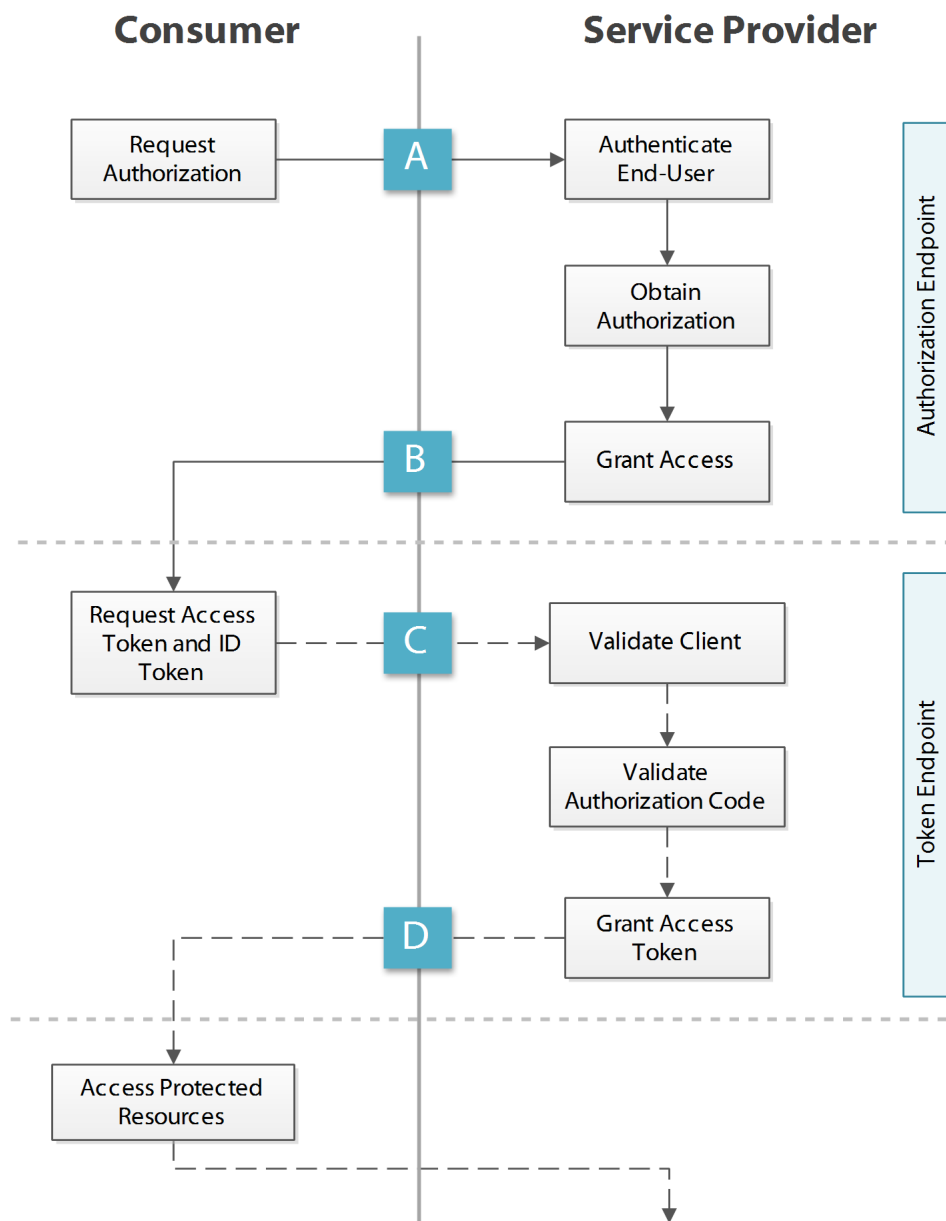


OpenID Connect

Authorization Code Flow



A

Consumer Requests **Authorization**

Request includes
 response_type: code
 scope: openid (required; may optionally include other scopes)
 client_id
 redirect_uri (optional; may be pre-configured with service provider)
 state (optional, recommended)
 nonce
 display (optional)
 prompt (optional)
 request (optional)
 request_uri (optional)

B

Service Provider Grants **Authorization**

Response includes
 code
 state (required IFF state was sent in the request; must be equal to what was received)

C

Consumer Requests **Access Token and ID Token**

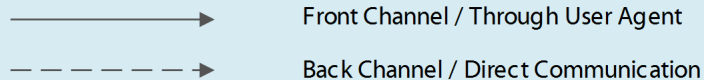
Request includes
 grant_type:
 authorization_code
 code
 redirect_uri (optional; may be pre-configured with service provider)

If the client is confidential, it must authenticate with the Authorization Server in this request.

D

Service Provider Grants **Access Token and ID Token**

Response includes
 access_token
 id_token
 token_type: Bearer
 expires_in (optional)
 refresh_token (optional)
 scope (optional; SHOULD be included if the scope granted differs from the scope requested)

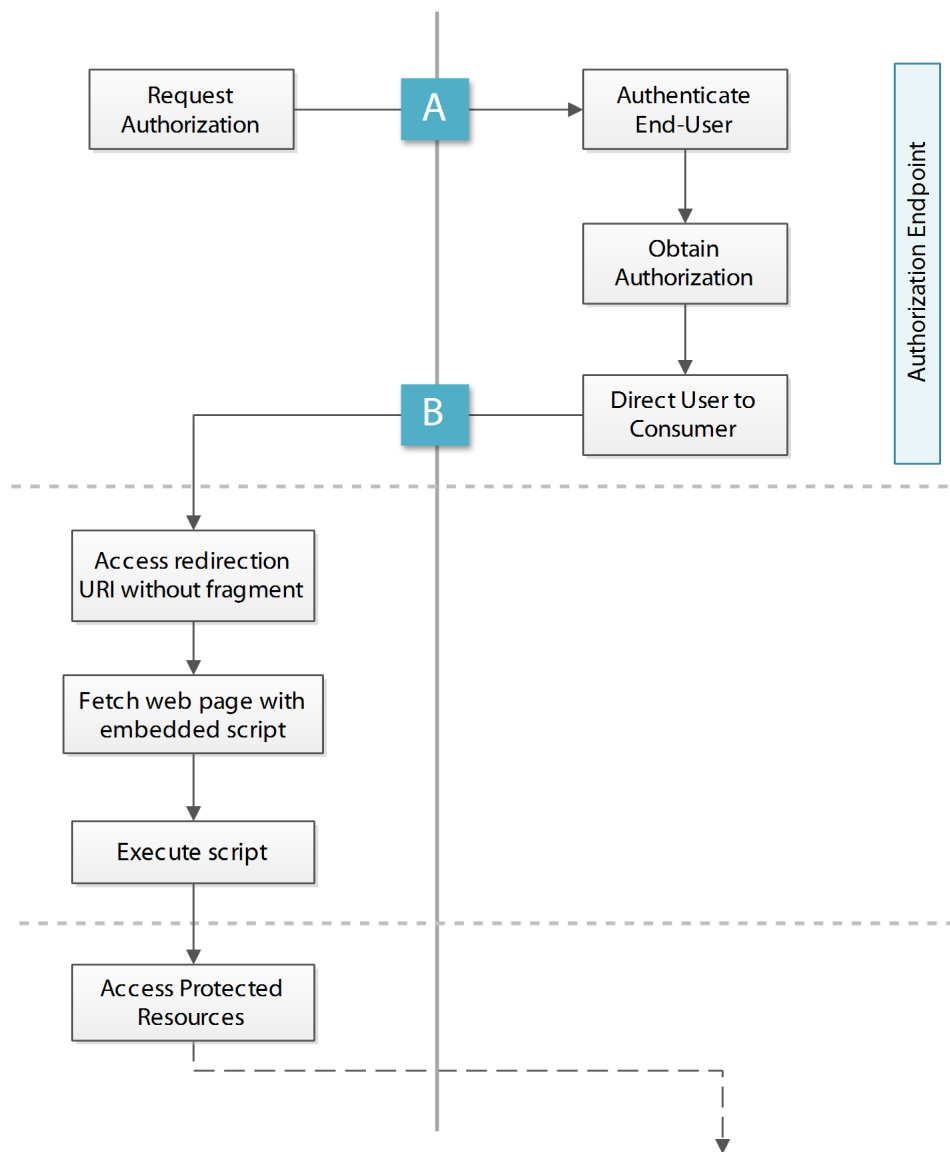


OpenID Connect

Implicit Flow

Consumer

Service Provider



A

Consumer Requests Authorization

Request includes

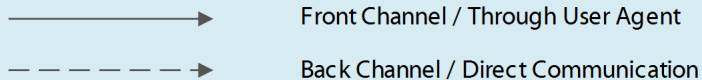
response_type: id_token token
 scope: openid (required; may optionally include other scopes)
 client_id
 redirect_uri (optional; may be pre-configured with service provider)
 state (optional, recommended)
 nonce
 display (optional)
 prompt (optional)
 request (optional)
 request_uri (optional)

B

Service Provider Grants Authorization

Redirection URI (302 Found) includes (url-encoded in fragment)

access_token
 id_token
 token_type: Bearer
 expires_in (optional)
 refresh_token (optional)
 scope (optional; SHOULD be included if the scope granted differs from the scope requested)
 state (required IFF state was sent in the request; must be equal to what was received)

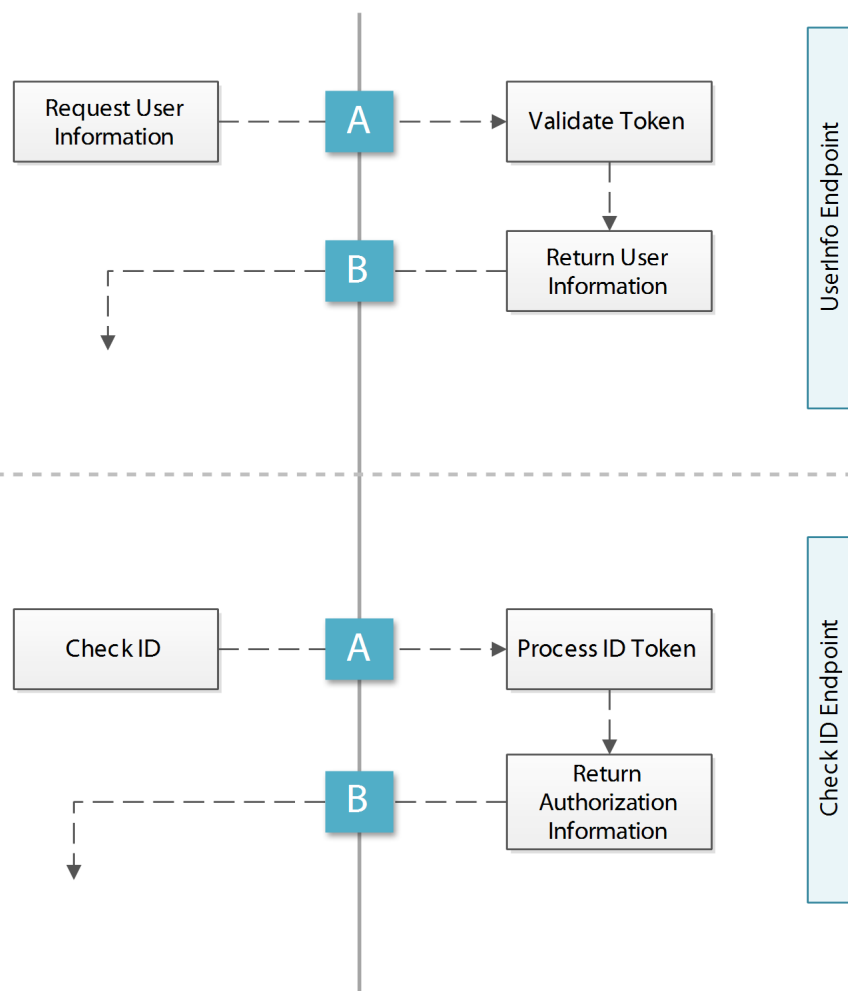


OpenID Connect

Additional Steps

Consumer

Service Provider



A Consumer Sends **UserInfo** Request

Request includes
access_token
schema

B Service Provider Returns **UserInfo** Response

JSON response includes
user_id

Optionally: name, given_name,
family_name, middle_name,
nickname, profile, picture,
website, email, verified, gender,
birthday, zoneinfo, locale,
phone_number, address,
updated_time

A Consumer Sends **Check ID** Request

Request includes
id_token

B Service Provider Returns **Check ID** Response

JSON response includes
iss
user_id
aud
exp
iso29115 (optional)
nonce
auth_time (optional)

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